

User Manual

Client application v1.1



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2 About Arachne

Arachne is a client-server application based on Vadis GET (Groups Exploration Tool) application, built as a data super-browser with advanced functionalities like dashboards and graphical representation of data interconnections.

Project ARACHNE aims at establishing a comprehensive and complete database of projects implemented under the Structural Funds in Europe and to enrich the data with publicly available information in order to identify, based on a set of risk indicators, the most risky projects.

2.1 Groups Exploration Tool

The Arachne project is built on top of the Groups Exploration Tool application from Vadis s.a..

This tool was originally created to provide data exploration tools for the business, built on *Bureau Van Dijk* worldwide data service (*Orbis* database). It includes a wide range of publicly available data, plus additional data mining options developed by Vadis for the Arachne project (Vadis Predictive Indicators, Cluster Groups, Unique Person Identifier...). These will be described in chapter 4 of this manual.



3 Arachne overview

3.1 Getting started

3.1.1 Installing the client application

This section is dedicated to users who don't have the application pre-installed on their computer.

The application is delivered as a standard Windows installer composed of one executable file (setup.exe) and one Microsoft installer package (ArachneClientSetup.msi). To install the application, run setup.exe or install the .msi file directly and follow the instructions. Both files must be in the same directory for the installation to execute successfully. The installer will create appropriate shortcuts in your start menu and on your desktop. Note that installing the application may require administrator privileges.

Note: depending on your user rights and access policies, you may not be able to perform the installation by yourself. In that case, please contact your network administrator.

For more information about installing the application, please refer to the installation guide.

3.1.1.1 Requirements

The following hardware and software are required to use the application in a proper way:

- Windows XP with SP1 or higher; Windows Vista; Windows 7.
- The Microsoft.NET framework 2.0 must be installed prior to application install. The installer will take care of this installation if it's missing on your computer.
- A working network connection and an internet connection that allows application to connect through *HTTPS* protocol.
- A screen resolution of at least 1680 x 1050 (use higher resolution for better user experience).

Note that the application is expected to be compatible with Windows 8, Windows 8.1 and all releases of Windows Server versions as from Windows Server 2003 (tests will be performed in the next coming weeks). This application runs on 32 and 64 bit platforms.

3.1.2 Running the client application

The application can be started either by the desktop icon (*ARACHNE Client*) or the startup menu, into *Vadis s.a* \rightarrow *GET Client application* \rightarrow *ARACHNE Client*.

	Welcome window					
fakeuser01	Current cases					
Connect Your current profile Change your password Disconnect	Id. (numeric) Case title 246 Case to investigate 247 Case 2 FAKE project		Case statur Case sub-status Creation date 0 Unassigned None 30/12/2013 11:25:0 0 Unassigned None 30/12/2013 11:32:1			
e management Case management 					۵	<u>Case mani</u>)p. program ident,
Opened cases White list	Op. program ident.	Average of Overall Score Average of (CM) Revis	ed Occurences of Overall Occurences of (CM) Score > 38 Revised score > 38			
Black list	9999XA999XX001	13,00	- 0	0		
	9999XA999XX002	22,00 🔾	- 0	0		
element) n any element to see details)	Global average: Overall Score = 14.00 / Dashboard summaries	/ (CM) Revised score = -				
	Projects (global)		В	leneficiaries (global)		
	Name (generic)	Case status	Member state Managing Authority Op.		Total grants amount E.C. Type	
	FAKE-Project-supervision1	- 🥥 - 🥥 34 Solid waste	(Fake country) Ministerie 10 999		24 50.041,00 Private	0475080462 BELC
	FAKE-Project-ExtProv	- O - O 34 Solid waste	(Fake country) Ministerie 11 999	Design of the second seco	22 241.014.678,00 Private	0412035016 BEL0
		Unassigned		PIAP	22 933.088,96 Unknown	5250008815 POL
	FAKE-Project-024/09 FAKE-Project-link-subContractor		(Fake country) Ministerie 3 999 (Fake country) Ministerie 3 999	ILOMAR AGENCIES T-MOBILE MAGYARORSZÁG TÁVKOZLÉSI	20 4.043.770.510,30 Public	0444190813 BELO
	FAKE-Project-sanction03	- 0 - 30 -	(Fake country) Ministerie 6 9991	RÉSZVÉNYTÁRSASÁG	20 4.567,00 Private	110042361 HUN
	FAKE-Project-407/08	😢 Unassigned 🔘 🛛 – 🥥 28 ESF	(Fake country) Ministerie 58 9999		18 497.085.749,06 Public	0412656212 BELC
	FAKE-Project-003/08	- O - O 21 Energy eff. Urbar			17 79.227.509,50 Public	0404785354 BEL0 0412640473 BEL0
	4 FANE Desires 04500	1	(Calus ascentes) Ministeria 2 0000	IDELINTERNATIONAL	16 41 968 270 93 Private	0412640473 RED
			Display complete dashboard			Display complete d
	Contracts (global)	-3.0 - 3.0	c	iontractors (global)	E	
		=£× << _		Name (generic)	E.C. Type VAT Number (E.C.)	Country (E.C.)
	Fake Extprov - Contract1 -	- 30 Contract121 2009-03-01 - 25 Contract1 2009-01-01		Powszechna Kasa Oszczednosci Bank Polski Sů	30 Unknown 5250007738	POLAND
	Contract1 -	- 25 Contract1 2009-01-01			O 22	FRANCE
	Contract202 -			Contractor19	21	FRANCE
	Fake PO -	- 24 Contract120 2009-03-01				HUNGARY
	Contract2 -	- 2 3 Contract2 2009-03-01	-		18 111580598	BULGARIA
	Contract3 -	- 2 3 Contract3 2009-03-01		LESOTEHNICHESKA PROFESIONALNA GIMNAZIA	17	BULGARIA
	Fake supervision1 -		L		17 116563994	BULGARIA
	Fake supervision2 -	Order 1 - Order 2	· · · · · · · · · · · · · · · · · · ·	BE-PUMP Kereskedelmi és Szolgáltató Kft	17	HUNGARY
			Display complete dashboard			Display complete da

As this application is based on client-server architecture, it requires user authentication to connect to the server. The default user authentication is done through the standard **ECAS** authentication service in place at the European Commission. When the application starts, the ECAS login screen will ask you your ECAS user and password.

	Contact Privacy Statement (English (en)
EUROPEAN COMM (ECAS) European Commission	AISSION AUTHENTICATION SERVICE
IntraComm > Authentication Service > Login	
authenticates your identity on European Commission websites	Logout Change password Account information Help Curopean Commission LOgin Not registered vet Is the selected domain correct? European Commission Change it Username or e-mail address * Password * Password * Account information Help Account information Help Account information Help Curopean Commission Account information Account
Last update: 17/10/2	2013 (3.5.2-m) 28 ms 🔺 <u>Top</u>

Remark: Check if the selected domain for which you have an account is correct.

- If you work with an EC account, the 'European Commission' domain should be active.
- If you work with an 'external' account, the 'External' domain should be active.



You can change the domain by clicking the 'Change it' option:

Login Not registered yet



Where you can select the correct domain:

EUROPEAN COM (ECAS)	
European Commission European Commission	
IntraComm > Authentication Service > Where Are You From? Where are you from? Welcome to the European Commission Authentication Service (ECAS Choose the institution or body for which you want to log in. Choose you have a special external account composed of w and 7 digits. If you aren't sure, select the "I don't know?" option for help.	a). " External " if you don't work for a European institution or body. Choose " W+7 " if
European Commission European Commission	External Partners, Researchers, Citizens.
I have an account w + 7 digits.	[] I don't know? More information about this screen.

This action needs to be done only at the first logon.

After a correct ECAS authentication, the system will display the message that a correct ticket was received. This page may be closed.







3.2 Arachne at a glance

This chapter will quickly guide you through the main screens and interfaces that are visible when the application starts.

3.2.1 Connecting to the application

When the application starts, it will automatically redirect you to the ECAS login page. If you are already authenticated with ECAS, the application will automatically proceed to your connection.

Once you are connected, you can see information about your user account and profile using the **My** *profile* option in the task pane, or via the menu *File – Profile information*.



The user profile dialog contains the following information:

- Your user group (operational program, managing or other authority, etc...).
- Your user profile: the application may hold multiple user profiles with associated user rights. These rights apply to the software functionalities only, as your user group will fix the rights on the data.
- Your case management role in the case management system (see chapter 9 of this manual)
- Your password age (passwords expire after 90 days). Note that this information is not relevant for users using the ECAS authentication.
- The rights lists associated to your user profile: this list contains all functional modules and the indication about your access rights on them.



3.2.2 Disconnection from the system

You can disconnect from the system either by closing the application (which implicitly disconnects you from the server) or via the menu *File – Disconnection*.

	Change your password りん								
	Your current profile								
\$ <u>1</u> 2	Export								
÷.	Print								

Using the disconnection menu will keep the application running, allowing you to reconnect if needed, through the same menu.

3.2.3 Welcome screen

The welcome screen acts like a kind of cockpit in which different types of information are directly visible for the connected user. This information covers the *case management*, the *alert statistics* and the different *dashboards* used in the application.

Welcome windo Tent cases	•••	_	-											
						1		1						
Id. (numeric)	Case title			ase target name		Case status C								
	to investigate	Proje		KE-Project-407/0		0 Unassigned N		30/12/2013 11:2						
247 Case 2	2 FAKE project 3	8/8 Proje	t FA	KE-Project-003/0	35,900,080.0	0 Unassigned N	lone	30/12/2013 11:3	12:14					
														Case manag
lert statistic	S											ſ	Op. program ident.	-
												(
Op. progra	am ident.	Avera	ge of O	verall Score Ave	rage of (CM) Revise score	ed Occurences Score		Occurences of (C Revised score >						
9999XA999XX001		0		13,00 🔘	score	Score	0	Kevised score >	0					
		-												
9999XA999XX002		0		22,00 🔾		1	0		0					
hboard sum	maries								Beneficiaries (global)					
				R	8						El			
Name (gen	ieric)	Case sta	tus	Score Score	Project type	Member state	Managing /	Authority Op.	Name (generic)	Overall Alert	Total grants			
FAKE-Project-super	rvision1		C) - 🥥 34	Solid waste	(Fake country)	Ministerie 1	10 9999	VADIS CONSULTING	24		041,00 Private	0475080462	BELG
FAKE-Project-ExtPr	ov ·		C) - 🥥 34	Solid waste	(Fake country)	Ministerie 1	11 999	DRAPANTEX	21	241.014	678,00 Private	0412035016	BELG
FAKE-Project-003/0	18 (🤌 Unassi	gned 🤅) - 🥥 33	Energy eff. Urban	(Fake country)	Ministerie 1	999!	Przemysłowy Instytut Automatyki i Pomiaro PIAP	W 🥥 23	933.	088,96 Unknown	5250008815	POLA
FAKE-Project-024/0	9 -		C) - 🥥 32	ESF	(Fake country)	Ministerie 3		ILOMAR AGENCIES	0 20	4.043.770	510,30 Public	0444190813	BELG
FAKE-Project-link-s			0		Road	(Fake country)			T-MOBILE MAGYARORSZÁG TÁVKÖZLÉ	SI 🥥 2(4	567,00 Private	110042361	HUNG
FAKE-Project-sanct			C			(Fake country)			RÉSZVÉNYTÁRSASÁG	-				
FAKE-Project-407/0		🤌 Unassi	-	-	ESF	(Fake country)			HEALTH STUDIO ET SERVICE CENTRE MOLENBERGNATIE	0 1		749,06 Public	0412656212 0404785354	BELG
FAKE-Project-003/0			G		Energy eff. Urban	(Fake country)				0 1		270 93 Private	0412640473	BELG
- AIZE D 04610	n	11	~	· · · ·	0-1	(Falsa sanata)	Million -	° • • • •	<		1	270 93 Phyate	11412640473	
							Display co	mplete dashboard					Display o	omplete das
racts (global)			_						Contractors (global)					
		(CMI evised score	Overall Alert							Overal Alert (contract	B			
Name (generic)	Case status	<u> </u>	§≰	Contract ident	t. Signature date	Ney expert chang	je -		Name (generic)	Solt	E.C. Type	VAT Number (E.C.)	Country (E.C.)	
Fake Extprov				0 Contract121	2009-03-01				Powszechna Kasa Oszczednosci Bank Po	12		5050003300	201 110	
			~	5 Contract1		-			SA	^{5KI} 🥥 3() Unknown	5250007738	POLAND	
Contract14		õ -	0 2	5 Contract14	2009-03-01	-			Contractor18	21	2		FRANCE	
Contract202		õ -	0 2	4 Contract202	2009-03-01			=	Contractor19	2:			FRANCE	
ake PO		õ -	<u> </u>	4 Contract120	2009-03-01				KENDERESI VÍZIKÖZMU-TÁRSULAT		9 Public	12834444	HUNGARY	
Contract2	-	<u> </u>	2	3 Contract2	2009-03-01	-			КОМОДО-СТИЛ ЕООД	0 1	3	111580598	BULGARIA	
Contract3	-	-	<mark>) 2</mark>	3 Contract3	2009-03-01	-			LESOTEHNICHESKA PROFESIONALNA GIMNAZIA	1 ¹	1		BULGARIA	
Fake supervision1	-	-	0 2	2 Contract107	2009-03-01	-			Wrong VAT	0 1	1	116563994	BUI GARIA	
Fake supervision2		-	2	2 Contract108	2009-03-01			-	BE-PUMP Kereskedelmi és Szolgáltató Kft	0 1			HUNGARY	
		~	<u> </u>		0000.00.04									
							Diselas:	mplete dashboard					Discharter	omplete das

This screen is divided into three main sections: the case management (if applicable for the user) part on the top, the alert statistics on the middle and the dashboard summaries on the bottom.

Case management and alert statistics sections can be expanded/collapsed using the \blacklozenge button on the right of each section title.



3.2.3.1 Current cases section

This section of the screen displays all cases related to the user's context¹ in the case management system. Cases can be double-clicked to get their details. Cases are sorted on their creation dates; the oldest ones appearing first. The case management section is only shown if the user has the necessary access rights.

	Id. (numeric)	Case title	Case type	Case target name	Amount	Case status	Case sub-status	Creation date	Follower
٠	246	Case to investigate	Project	FAKE-Project-407/08	4,000,141,000.00	Unassigned	None	30/12/2013 11:25:00	
	247	Case 2 FAKE project 3/8	Project	FAKE-Project-003/08	35,900,080.00	Unassigned	None	30/12/2013 11:32:14	

This table displays the following information about the case the user is allowed to see:

- Id is the identification number of the case, which is automatic generated.
- Case title is the user-defined title for the case.
- Case type: the entity type to which the case applies. The value can be either **Project** or **Contract**.
- Case target name is the name of the project or contract concerned by the case.
- Amount is the total cost of the project or the contract amount.
- Case status and sub-status give the case current status in time (please see chapter 9 for more details about the different statuses)
- Creation date is the date and time when the case was created.
- Follower is the user assigned to this case.

The case management module can be accessed directly using the "Case management" link on the bottom right of the table or via the menu bar option "Case management".

Please read the case management chapter 9 for more information.

3.2.3.2 Alert statistics section

Depending on your user level², this part of the application displays average global alert value, and average revised alert values. See chapter 5.1 for more details about alerts.

Ð	Alert statistics					Dp. program ident. 👻	-
	Op. program ident.	Average of Overall Score	Average of (CM) Revised score	Occurences of Overall Score > 38	Occurences of (CM) Revised score > 38		-
	2007SK16UPO001	13,00		5	(D	
	9999XA999XX001	15,00	• -	0	(D	
+	9999XA999XX002	32,00	o -	1	(D	-
Glo	bal average: Overall Score = 10.00 / (CM)	Revised score = -					

¹ The user's context corresponds to the group it belongs and the access rights related to it (operational program, management authority, ..)

² The user level depends on your current user group and how it is located into the group hierarchy. It can be operational program, managing authority, audit authority, certification authority, Member State or DG.



The statistics contain the following elements:

- First column contains the aggregation criteria; it may be the operational program (as selected in the current example), the managing authority or the member state, depending on your user level.
- Second column contains the projects overall score average value inside the selected aggregation criteria.
- Third column contains the revised projects score average value inside the selected aggregation criteria. The revised score is the score assigned to closed project cases. This gives an idea about how the cases were resolved. Lower values mean cases were mostly resolved in a positive way as higher values demonstrate cases were flagged as more risky.
- Fourth and fifth columns contain respectively, for the overall score, and for the revised score, the number of items having a score over 38.

Changing the aggregation criteria can be done by using the combo box on the top right of the table.



Figure 1 - Selecting aggregation criteria

The statistics can also be refreshed for the current selection, using the Θ icon.

On the bottom left of the table, you also have the global project average values for the population corresponding to the user's context.

	(Faux pays)	\bigcirc	16,00 🔾
	HUNCARY		8,00 🔘
G	obal average: Overall Score =	= 10.00 / (CM) Revised sc	ore = -

Double-clicking on a row in the table opens the dashboard window with its selection set to the selected aggregation criteria i.e. double clicking on a row with an operational program will show you the dashboard for this operational program.



3.2.3.3 Dashboard summaries section

Mini-dashboards are reduced versions of full dashboards available in the application – see chapter 5 for detailed information about dashboards. Columns cannot be customized in the mini-dashboards.

ects (global)									Beneficiaries (global)						
Name (gen	ieric)	Case status	WO	score score Overall Score	Project type	Member state	Managing Authority	Op.	Name (generic)	Overall	Alert	Total grants amou	nt E.C. Ty	vAT Number (E.C.)	Country
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FAKE-Project-ExtPr	vov		õ	3	4 Solid waste	(Fake country)	Ministerie 11	9995	DRAPANTEX	0	22	241.014.678	00 Private	0412035016	BELGIU
FAKE-Project-003/0	8	👔 Unassigne	d 🔘	- 🔾 3	3 Energy eff. Urban	(Fake country)	Ministerie 1	999!	Przemysłowy Instytut Automatyki i Pomiarow PIAP	0	22	933.088	96 Unknown	5250008815	POLAN
FAKE-Project-024/0	9		0	- 🔾 3	2 ESF	(Fake country)	Ministerie 3	999!	II OMAB AGENCIES	0	20	4.043.770.510	3.0 Public	0444190813	BEI GII
FAKE-Project-link-s	ubContractor	-	Ô.	- 0 3	0 Road	(Fake country)	Ministerie 3	9991	T-MOBILE MAGYARORSZÁG TÁVKÖZLÉSI	· ·					
FAKE-Project-sanct	tion03		õ	- 0 3	0 -	(Fake country)	Ministerie 6	9991	RÉSZVÉNYTÁRSASÁG	0	20	4.567	00 Private	110042361	HUNG/
FAKE-Project-407/0	8	👔 Unassigne	d 🔘	- 0 2	8 ESF	(Fake country)	Ministerie 58	999!	HEALTH STUDIO ET SERVICE CENTRE	0	18	497.085.749	06 Public	0412656212	BELGI
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			õ		4 D-0	(Tales south)							9.3 Private	0412640473	BELGII
CARE Designal OAE/O	10	m				// _l	Display complete d	ashboard	_	-	16	41 968 270	S C PRIVAIP	Display comp	
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Name (generic) Fake Extprov Contract1 Contract202 Fake PO			12000 30 25 25 24 24	Contract ide Contract121 Contract1 Contract14 Contract202 Contract120	nt. Signature date 2009-03-01 2009-01-01 2009-03-01 2009-03-01 2009-03-01		Display complete d	- F	Contractors (global) Contractors (global) Powszechna Kasa Oszczednosci Bank Polski SA Contractor18 Contractor19 KENDERES VZIKOZMU-TÁRSULAT		30 (22 21 19 F	E.C. Type VA Jnknown 525 Public 128	Number (E.C.) 1007738	Country (E.C.) POLAND FRANCE FRANCE HUNGARY	1
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Name (generic) Fake Extprov Contract1 Contract202 Fake PO			30 25 25 24 24 23	Contract ide Contract121 Contract1 Contract14 Contract202 Contract120	nt. Signature date 2009-03-01 2009-01-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01		Display complete d	- F	Contractors (global) Contractors (global) Powszechna Kasa Oszczednosci Bank Polski SA Contractor18 Contractor19 KENDERES VZIKOZMU-TÁRSULAT	C C C C Verall	30 (22 21 19 F	E.C. Type VA Jnknown 525 Public 128	Number (E.C.) 1007738	Country (E.C.) POLAND FRANCE FRANCE HUNGARY	
Tracts (global) Name (generic) Fake Extprov Contract1 Contract14 Contract202 Fake PO Contract2	Case status - - - - - -		1000 30 25 25 24 24 23 23 22	Contract ide Contract121 Contract1 Contract14 Contract202 Contract120 Contract202	nt Signature date 2009-03-01 2009-01-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01		Display complete d	- F	Contractors (global) Contractors (global) Contractors (global) Powszechna Kasa Oszczednosci Bank Polski SA Contractor18 Contractor18 KENDERES VZIKOZMU-TÁRSULAT KENDOQO-CTMI BOOQ LESSOTEHVICHESKA PROFESIONALNA		30 (22 21 19 F 18	E.C. Type VA Jnknown 525 Public 128 111	Number (E.C.) 1007738	Country (E.C.) POLAND FRANCE FRANCE HUNGARY BULGARIA	

Mini dashboards display (for projects, contracts, beneficiaries and contractors) the entities having the highest global risk. Only entities you are authorized to access will be ranked. Each minidashboard has a link to the complete dashboard. Click on the link to open the full dashboard window.

Each mini dashboard displays the top 10 of highest overall score value. It only contains a reduced column set that cannot be customized: the overall score, the revised score for case-managed entities, and some specific columns for each kind of entity.

For projects:

- Project type
- Member state
- Managing authority
- Project status
- Project cost

For contracts:

- Contract identifier
- Signature date
- Key expert change

For beneficiaries and contractors:

- Total grants amount
- Туре
- VAT number
- Country



Each mini dashboard has similar functionalities as the complete dashboard, except for drilldown and expanding / collapsing alert details. Please refer to chapter 5 for more specific information about dashboards.



3.2.4 Arachne interface



The main application screen contains different functional blocks:

- The main application menu
- The task pane (on the left of the screen)
- The status bar (on the bottom of the screen)
- The application space.

In addition, extra windows such as basket (12.3.3) and graph legend (7) may be displayed on the right of the application.

The user has the possibility to change the different elements location, by a simple drag and drop operation. This gives the users the ability to customize their work experience.



3.2.5 Menus and toolbars

3.2.5.1 Application main menu

🔲 Gr	oups Explorati	ion Toolset (GE	T CE Server (Test))				
File	Q Entities	\bigcirc Relations	💷 Dashboards	ightarrow Case management	Parameters	Windows	Help 🤪	ŧ.

Menu descriptions

Screenshot	Description
File Centities Relations Dashboa Disconnection (Administrator) Change your password Your current profile Export Print Exit Alt+F4	The <i>File</i> menu contains the connection / disconnection options, the export and print functions, and the password change option (only when logged with the internal authentication system – ECAS password change is not supported through the application).
 Entities Relations Dashboards Search for Projects Search for Contracts Search for companies (BvD ID) Search for Persons Search for Groups Expert mode Navigator 	The <i>Entities</i> menu contains the different search forms available on entities: projects, contracts, companies, persons and groups. Some entities may have multiple forms available. Please refer to chapter 6.1 for more information about searches. The menu contains also the expert mode activation and the navigator, which will be described in the advanced features section.
Relations Image: Dashboards Ca Image: Search for Legal links Image: Dashboards Ca Image: Search for Private links Image: Dashboards Image: Dashboards Image: Search for Memberships Image: Dashboards Image: Dashboards Image: Search for Affinity links Image: Dashboards Image: Dashboards	The <i>Relations</i> menu contains the different relation search forms available.
Image: Dashboards Case manage Image: Projects (global) Image: Projects (global) Image: Deneficiaries (global) Image: Projects (global) Image: Contractors (global) Image: Projects (global)	The Dashboards menu contains the different dashboards defined for the European Commission: projects, beneficiaries, contracts and contractors. These menu options link to the full dashboard for each entity. Please refer to the chapter 5 for more details on dashboards.
Case management Parar Welcome screen	The Case management menu contains two options: the case management welcome screen (not the same as the application welcome window) and the user's case list.
Parameters Windows Windows Colors Templates Columns Languages Columns	The Parameters menu contains the different parameters that can be adapted by the user. This covers the colors used in the application, the language (French and English are available), the columns used in search results and navigation tables, etc Please refer to chapter 11 for more details.



3.2.5.2 Task pane

The task pane is the left-side part of the application screen and contains multiple functional blocks.

User information module



Note that the password change option won't be available when connected using the ECAS authentication.

Case management module





This module is visible only for user having access to the case management, and lists quick links to important case management functions. Please refer to chapter 9 for more details about case management functions.

The details panel module

USTAV MAKROMOLEKULÁRNÍ CH_	This panel, also called "business card", will give you instant information about the currently selected entity.
Heyrovskeho namesti 1888/2 PRAHA 616 16200	This works for all application screens when an entity is selected, and displays a default set of properties for the selected entity.
CZECH REPUBLIC +420 296 809 111 +420 296 809 410 office@imc.cas.cz www.imc.cas.cz	These properties are customizable using the Parameters → Columns menu, then selecting For details panel option (See chapter 11 for more details)

3.2.5.3 Application space

	count as beneficiary > 0		±		- n 🗄		. de	m B	E	m @ 🗄		. n 🗄	=	+		. det	
	Name (generic)		Uverall Alert	Drocuremen	Overall Score	Contract	Overall Score	Eligibility Overall Score		Performance Overall Score	Concentration	Overall Score	Other Overall	Score	Reputational Fraud Alerts	Overall Score	Total grants amou
÷	VADIS CONSULTING		24	0	18	•	43		0	-	0	30	0	35	0	19	50.041,
÷	DRAPANTEX	$\overline{}$	22		13		28	1	1	50		31	•	10		8	241.014.678,
÷	Przemysłowy Instytut Automatyki i Pomiarow PIAP	$\overline{}$	22	\odot	-		-	•	5	-	\circ	25	•	50		9	933.088,
÷	ILOMAR AGENCIES	\bigcirc	20		13	0	15	1:	3	10		27	•	50	0	15	4.043.770.510,
÷	T-MOBILE MAGYARORSZÁG TÁVKÖZLÉSI RÉSZVÉNYTÁRSASÁG	\bigcirc	20		-		-	• ·	- 0	-		0	•	50	•	11	4.567,
÷	HEALTH STUDIO ET SERVICE CENTRE	\bigcirc	18	0	16	0	36	•	0	25	0	34	•	13		7	497.085.749,
+	MOLENBERGNATIE	\bigcirc	17	0	28	•	6	• :	0	25	•	39	•	0	•	14	79.227.509,
÷	LIDEL INTERNATIONAL	0	16		13	0	18	•	0	18	•	41	0	18	•	9	41.968.270,
Đ	Powszechna Kasa Oszczednosci Bank Polski SA	\bigcirc	16	0	18	0	33	•	5	-	\bigcirc	33	•	0		10	2.887.355,
÷	Лесотехническа професионална гимназия - Берковица	\bigcirc	16	\odot	-	\odot	-	50		-		0	•	16	•	0	478,
÷	ETABLISSEMENTS JOSEPH ROYEN		13		11	0	30	:	2	12		27	•	0	•	14	66.963.383,
÷	VRATSA INVEST GRUP OOD		13		-		-	•	0	30		10	•	12	•	13	857.162,0
÷	NORDIK LIMITED EOOD		11		-		-	•	0	26		10	•	12	•	9	852.391.164,0
÷	KENDERESI VÍZIKÖZMU-TÁRSULAT		3		-	\odot	-	• •	- 0	-		0	•	0	•	9	678.673,
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÷	КОМОДО-СТИЛ ЕООД		1		-		-	•	0	-		0	•	0	•	6	678.673,0

The application space can hold multiple opened windows. By default, these windows appear as tabbed windows, but they can also be positioned manually at user's will, by a simple drag and drop operation.



3.2.5.4 Status bar

The status bar on the bottom of the application will give various information about tasks and processes running in the background.

7. J	Version 1.1.3.2224 / Orbis version 20130918 VADIS BiTong Innervant VD BUREAU VAN DUK 💥
	Version 1.1.3.2224 / Orbis version 20130918

It also shows the current application version and data version. The data version references the *Orbis* (external data) publication date, using *yyyymmdd* date format (year, month, day). The application version and *Orbis* version should always be mentioned when reporting problems or issues.



4 Understanding the concepts

4.1 Arachne data

The data available in the application come from multiple sources that are aggregated in order to give the user a complete and accurate view of what's happening in its "universe". These data sources are:

- Member States data about projects, contracts, beneficiaries and contractors. These are called *internal data*.
- Publicly available information about companies and their board members
 - o General information (address, phone, web site ...)
 - o Financial information coming from published balance sheets
 - o Ownership information between companies
 - o Ownership and functional relationships between companies and individuals
 - Global PEP³ lists
 - o Global sanction lists
 - Global enforcement lists
 - Global adverse media lists

These are called *external data*. There are also referenced as *Orbis* and/or *WorldCompliance* data in the manual or the application (*Orbis* and *WorldCompliance* are the original data source names).

- Vadis specific indicators based on predictive modeling. These indicators are considered to be external data as well (See chapter 14.2 about *Vadis Predictive Indicators*)

All these sources are bound and processed together in a single database, to allow the application to browse, search and perform advanced operations.

4.2 Data refresh

4.2.1 Weekly schedule and data refresh cycle

The following weekly schedule for data refreshes has been decided:

- The Member States are able to upload new data on SFC 2007 until each **Monday 2pm** for a release run the current week. After that time, files will not be lost but used for the release of the following week.
- The data validation, enrichment and risk calculation processes are running as of Monday 2pm and the results will be available in Arachne as of Friday morning.

The refresh of the Orbis database will be done quarterly (every three months). The refresh is planned in the third week of January, April, July and October. In exceptional cases this refresh might be delayed by a few weeks.

As WorldCompliance data is related to Orbis, the refresh cycle of WorldCompliance is synchronized with the refresh cycle of Orbis.

³ PEP: Politically exposed persons.



The currency rate which will be used is the currency rate which is published by DG BUDG in the beginning of each month (see

http://ec.europa.eu/budget/contracts_grants/info_contracts/inforeuro/inforeuro_en.cfm).

4.2.2 New data deliveries impact

Alerts are computed on different levels. For instance, many of them depend on ratio deviation related to peer groups. Hence, it is possible to see that alert values differ from one data delivery to another, due to the following reasons:

- Another Operational Program or Member State has provided new data and peer group thresholds have changed: peer groups are not always based on Operational Programs, but also on sector, project type, or country.
- Currency rates updates can have an impact on thresholds or values.
- The matching between the given company (Beneficiary, Contractor or SubContractor) and an Orbis company has changed, because of updated info.
- Orbis or WorldCompliance refresh, and thresholds or values may have change.

4.3 Data licensing

All external data is subject to a limited usage license. Because of this license, which works with a maximum number of concurrent users (seats), it may happen that the licensing system doesn't allow the current user to see external data. This lack of visibility doesn't prevent the application from running correctly, but all external data won't be visible until a seat becomes available. Please refer to chapter 12.5 for more information about the licensing system.

4.4 Authentication and data isolation

The Arachne application provides data isolation mechanisms based on user management and authentication system. This isolation prevents users to see information to which they have no access i.e. users from one operational program cannot see information from another operational program.

This isolation is based on how the user groups are defined in the user management system. Groups can be represented as a tree-like structure.





As the groups represent the European Commission structure, data access rights are inherited from the children to the parents: in our graphical example, this means that users of **MA 1** can access data from **OP A** and **OP B** but won't be able to access data from **OP C**.

4.5 Entity-relationship diagram

The application is based on an entity-relationship diagram, reflecting the real world organization between the different kinds of data available in the system. This diagram is built from multiple data-sources. For a clear comprehension, the following color code will be used:

Entities or relations containing E.C. / Member state data (also called internal data).

Entities or relations containing a mix of internal and external data.

Entities or relations containing only external data.



Sub-contract Requestor



4.5.1 Entities

Entity	Description
Project	The <i>Project</i> entity represents a single E.C. project. A project is linked to one beneficiary and multiple contractors via the <i>Beneficiary</i> relation. It is also linked to contracts via the <i>Contract requestor</i> relation and to persons via the <i>Involvement</i> relation.
Contract	The <i>Contract</i> entity represents a contract passed by a company (beneficiary, contractor or sub-contractor) for a given project. The contract is linked to the project via the <i>Contract requestor</i> relation, and to the company via the <i>Contract executor</i> relation.
Company	The <i>Company</i> entity contains mixed information coming from E.C. data (beneficiary, contractor and sub-contractor information) and public data (financial and scores). Companies are linked to projects via the Beneficiary relation. They are linked to contracts via the Contract executor relation. In addition, companies are linked together via the Legal link relation, to groups via the Membership relation and to persons via the Private relation. These three relations come from the public data.
Person	The <i>Person</i> entity represents either individuals or corporations. The persons are linked to projects through the <i>Involvement</i> relation. Persons are also linked to companies through the <i>Private</i> relation and between each other via the <i>Affinity</i> relation.
Group	The Group entity represents a set of companies strongly linked together via the Legal link relation (see cluster groups 4.6.2 for more details). Groups are linked to companies via the Membership relation and between each other via the Group legal link relation.

4.5.2 Relations

Relation	Description
Beneficiary	 The Beneficiary relation links projects and companies together. At least one relationship must exist between a project and its beneficiary company. In fact, this link is not only about beneficiary but about any kind of link occurring between projects and companies: Beneficiary (1 per project) Contractors and subcontractors Partners Consortium members
Involvement	 The Involvement relation links persons to projects. The link is qualified by an involvement role which can be: Contact person Financial manager Official representative Project manager Representative



Expense	The <i>Expense</i> relation is only linked to projects. Each relation matches a single expense row for the related project. The link is mainly qualified by the expense type and amount.
Contract executor	 The Contract executor relation links contracts to the companies executing them. At least one relationship must exist between a contract and its main contractor. The link is qualified by a role which can be: Beneficiary Consortium member Contractor Sub-contractor Project partner
Contract requestor	The <i>Contract requestor</i> relation links contracts to the projects requesting them. This is an unqualified link.
Sub-contract requestor	The <i>Sub-contract requestor</i> relation links contracts together in a directed manner. This is an unqualified link.
Legal link	The <i>Legal link</i> relation links companies together in a directed manner, symbolizing the ownership of one company by another. This link is qualified by the participation rate (percentage).
Private	The <i>Private</i> relation links persons to companies; the link is qualified by the role, or position of the person into the company.
Membership	The <i>Membership</i> relation links companies to their group(s). One company may be linked to no group, one group, or two groups. In this latest case, one group is qualified as the <i>standard</i> group and the second one as the <i>investment</i> group.
Affinity	The <i>Affinity</i> relation links person together. See more details in the dedicated chapter 4.6.3.
Group legal link	The Group legal link relation links groups together by aggregating legal links between companies of those groups.

4.6 External data

The goal of this chapter is to present the different concepts found in the external data.

4.6.1 Companies and legal links

Companies and legal links are provided by an external data provider which collects public data about them on a worldwide scale. The information related to companies is mostly financial, and based on officially published balance sheets. The legal links also come from this source and represent the entire shareholder to subsidiary relationships.

These data constitute a network containing about 110 million companies and 12 million legal links. Note that smaller companies do not have any shareholder or subsidiary. Only medium or big companies are owned by or own other ones.

4.6.2 Groups, memberships and group legal links

The network composed of companies and legal links is processed by a clustering algorithm (developed by Vadis) to discover sets of strongly linked companies. The idea behind this clustering is



to try to match the reality of big international or national groups such as Texaco (oil), LVMH (luxury products), Carrefour (supermarkets) and others.

Once this clustering is done, it gives the definition of the various groups in the system.

From there, companies belonging to these groups are linked to them through the *membership* relation. These memberships give the ability to detect common shareholders or subsidiaries, main shareholder of a group, as well as various group indicators.

Finally, groups are linked together using the *group legal links*. These links are aggregations of legal links existing between companies of two given groups.



In this example, companies 1 and 3 from group A own shares in company 4 of group B, but these shares are not high enough to make the company 4 belong to group A (participation rates are commonly between 0.01% and 10%). In the same way, company 5 owns shares of company 3.

Once aggregated, these so called weak links give a global relation between group A and group B.



The group legal link direction and weight depend on the number, weights and directions of all aggregated legal links.



4.6.3 Affinities

Affinities are relationships between people that are computed based on private relations and legal links. The idea is to create an "affinity" between two individuals when these individuals have a function in the same company, or have a function in directly related companies.

We distinguish direct affinities and indirect affinities.



4.6.4 Vadis Predictive Indicators

In addition to the external data, the application provides two indicators built on predictive modeling techniques. These indicators, called Vadis Predictive Indicators or VPI, are only available for companies. The two indicators are:

- VPI P2B Bankruptcy: predicts the risk for a company to go bankrupt
- **VPI P2B Sold:** predicts the risk for a company to be sold/bought by another.

More information about the scores can be found in chapter 14.2 of this manual.



5 Dashboards

The dashboard function summarizes the critical information for projects, beneficiaries, contracts and contractors in a compact, visual and interactive way. Its target is to focus the user's attention on high risk indicators.

The dashboards can be accessed either by the application main menu or the welcome window's mini-dashboards.

A dashboard displays a given top number of elements ordered by highest *alert* value, for a given *focus*. An alert is a property whose value is defined between 0 and a maximum. The maximum value represents the highest risk or propensity for the alert. A *focus* is a set of selection criteria used to limit the scope of the displayed dashboard.

5.1 Understanding alerts

The *alerts*, also called *risk indicator scores*, give an evaluation value for different audit criteria applied on projects, contracts, beneficiaries and contractors. These alerts vary between 0 and a predefined maximum value which represents the highest risk level.

The risk score of a beneficiary is the weighted average of the risk scores of its projects. The risk score of a contractor is the weighted average of its contracts.

5.1.1 Alerts organization

For a better understandability, alerts are grouped in categories, represented by one *categorical alert* which aggregates its *individual alert* values. On top of them, the *overall alert* aggregates all *categorical alerts* into a single value.

Overall alert		
	Categorical alert	
		Individual alert
		Individual alert
	Categorical alert	
		Individual alert
		Individual alert

Here's a matrix representing the different categorical alerts and their availabilities for the different entities.

	Projects	Contracts	Beneficiaries	Contractors
Procurement	Y	Y	Y	Y
Contract management	Y	Y	Y	Y
Eligibility	Y	Y	Y	Y
Performance	Y	Ν	Y	N
Concentration	Y	Y	Y	Y
Reputational & Fraud	Y	Y	Y	Y
Other	Y	Ν	Y	N



Each alert is represented by a numerical value and a LED style indicator which goes from green (no risk) to red (highest risk).

50 0 38 🔘 16 27 27 0 - 0 35 🔵 28 50 🔘 - 🔘 50 🔘 50 🔘 10 🔘 - 🔾 25 50 🥯 26 50 C 10 🔘 22 0 17 10 🔘 \bigcirc 23 50 🔘 0 🔘 0 🔘 30 🧉 0 🔾 18

Missing alerts are represented by a – (minus) sign, and a grey LED representation. It means that:

- the alert is out of scope for the project/contract;
- Or the data required to calculate the alert are not provided to Arachne;
- Or not all data (internal and/or external) are available to calculate the alert.

5.2 Projects dashboard

The projects dashboard focuses on the E.C. projects and their beneficiaries / contractors.

	Name (generic)	Case status	(CM) Revised score		Overall Score	Procurement Overall Score	Contract	Management Overall Score	Eligibility	Overall Score	Performance Overall Score	Concentration	Overall Score	Other Overall	Score	Reputational Fraud Alerts Overall Score	Project type	Member st
÷	FAKE-Project-supervision1	-	•	- 🔾	34	0 1	8 🔴	50		- 🤇) -	•	30	•	50	<mark>)</mark> 2	2 Solid waste	(Fake coun
÷	FAKE-Project-ExtProv	-	•	- 🔾	34	0 1	8 🔵	50		- 🤇	- (•	35	•	50	<mark>)</mark> 2	0 Solid waste	(Fake count
÷	FAKE-Project-003/08	😰 Unassigned	•	- 🔾	33	•	- 🔘	-	•	50 🧉	50	•	50		0	1	5 Energy eff. Urban	(Fake coun
⊡	FAKE-Project-024/09	-	0 ·	-0	32	0	- 0	-		1	50		50	•	50	1	0 ESF	(Fake coun
	Name (generic)	Alert Overall Alert (contract orl Benefcic	iary overall Scoref	or overall	score f Benefcic	overall score [or	overall score f Benefcic	overall	Score Contract or	overall score [Procure	Overall	Score	Overall	Score f	manage ment Overall	Manage Manage Overall Eligibilit Score Eligibilit Score	Overall Score f Perform ance Overall
		16 🔘 – 🥥	18 🤇		- 🔾	19 (0	- 0		- 0	- 🤇) 1	13 🔘		- 🔾	18 🤇	• • •	- 🥥 1
÷	FAKE-Project-link-subContractor	-	• ·	- 🔾	30	0	- 🔘	-		- () -	• •	25	•	50	1	5 Road	(Fake coun
÷	FAKE-Project-sanction03	-	• ·	- 🔾	30	0	- 🔘	-	\odot	- 🤇	- (• •	25	•	50	1	5 -	(Fake coun
÷	FAKE-Project-407/08	😰 Unassigned	•	- 🔾	28	0	- 🔘	-	$^{\circ}$	25 🤇) -	•	25	•	50	1	5 ESF	(Fake coun
+	FAKE-Project-003/08	-	• ·	- 🔾	21	0	- 🔘	-	\odot	- 🤇	- (•	50		0	1	5 Energy eff. Urban	(Fake coun
÷	FAKE-Project-045/09	-	•	- 🔾	21	<mark>)</mark> 2	5 🔵	33		0 🧉	50	\circ	30		0	1	5 Rail	(Fake coun
÷	FAKE-Project-197/09	-	•	- 🔾	21	94	1 🔵	38		0 🤇	25	•	40		0	•	9 Water waste / suppl	y (Fake coun
÷	FAKE-Project-SME4	-	•	- 🔾	20	•	- 🔘	-		0 🧉	38	•	25	\circ	25	1	4 SME	(Fake coun
÷	FAKE-Project-136/09	-	•	- 🔾	20	•	- 🔘	-		- 🤇	- (•	50		0	1	0 -	(Fake coun
÷	FAKE-Project-158/09	-	•	- 🔾	20	•	- 🔘	-		- 🤇		•	50		0	1	0 -	(Fake coun
+	FAKE-Project-173/09	-	•	- 🔾	20	•	- 🔾	-		- (- (•	50		0	1	0 -	(Fake coun
	FAKE-Project-175/09	-	•	- 🔾	20	•	- 🔘	-		- 🤇		•	50		0	1	0 -	(Fake coun
+																		

Each project row can be expanded to explore the alert values relative to its beneficiary and contractors. In the sub-table, only categorical alerts are visible.



5.3 Contracts dashboard

The contracts dashboard focuses on contracts and the linked contractors.

		Name (generic)	Case status	(CM) Revised		Overall Alert	Procurement Overall Score	Contract	Management Overall Score	Eligibility Overall Score	Concentration	Overall Score	Reputational Fraud Alerts	Contract ider	it. Signature dati	e Ke
E	Đ	Fake Extprov	-		- 🔾	30	1	8 👄	50 (D -	•	40	1	3 Contract121	2009-03-01	-
E	Đ	Contract1	-	\odot	- 🔾	25	•	- 🔾	- (0 -		33	0 1	7 Contract1	2009-01-01	-
E	Ð	Contract14	-	\odot	- 🔾	25	•	- 🔍	- (D -	- 🔶	33	0 1	8 Contract14	2009-03-01	-
			(generic)		 Overall Alert fcontract 		or overall scoref		Contract	overall score1 Procure		Contract Manada			Score f Reputati onal Fraud Alerts	Rol
	4	THE BELGIAN CH	HOCOLATE GH	OUP	-	12 🧼	14 🤇) 1	5 🔘	- 🔾) 1:		8 🤇	0 🥥 3	3 🥥 12 Con	tract
G	Đ	Contract202	-	\odot	- 🔾	24	<mark>)</mark> 2	5 👄	50 () (\circ	30	1	6 Contract202	2009-03-01	-
		Contract202 Fake PO	-	0 0	- () - ()	24 24	-	-					-	6 Contract202 4 Contract120	2009-03-01 2009-03-01	-
e	Đ		- - -		- () - () - ()		1	-	33 (0 -	-		1			
6	Ð	Fake PO	- - -	•	- 0	24	 1 1 	8 😐	33 (0 - 0 -	•	33	 1 1 1 	4 Contract120	2009-03-01	-
6	÷	Fake PO Contract2	- - - -	•	- 0	24 23		8 🔶 - 🔾	33 (0 - 0 - 0 -	• •	33 33 33	 1 1 1 	4 Contract120 4 Contract2	2009-03-01 2009-03-01	-
	÷ ÷ ÷	Fake PO Contract2 Contract3		0 0 0	- 0 - 0	24 23 23		8	33 (- (- (0 - 0 - 0 - 0 -	•	33 33 33		4 Contract120 4 Contract2 3 Contract3	2009-03-01 2009-03-01 2009-03-01	-
	÷ ÷ ÷	Fake PO Contract2 Contract3 Fake supervision1 Fake supervision2			- 0 - 0 - 0	24 23 23 22 22		8	33 (- (33 (· • •	33 33 33 33 37		4 Contract120 4 Contract2 3 Contract3 0 Contract107 0 Contract108	2009-03-01 2009-03-01 2009-03-01 2009-03-01	
	÷ ÷ ÷	Fake PO Contract2 Contract3 Fake supervision1 Fake supervision2	-		Overall	24 23 23 22 22		8	Contract		· • •	33 33 33 37 37 37 37		4 Contract120 4 Contract2 3 Contract3 0 Contract107 0 Contract108	2009-03-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01	- - - - Rol-
		Fake PO Contract2 Contract3 Fake supervision1 Fake supervision2 Name	-		Overall	24 23 23 22 22 22 22 00-1-0 22			Contract	overall 0 0 0	Dverall	33 33 33 37 37 37 37	a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	4 Contract120 4 Contract2 3 Contract3 0 Contract107 0 Contract108	2009-03-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01 2009-03-01	- - - Role

5.4 Beneficiaries dashboard

The beneficiaries dashboard focuses on the project beneficiaries and their respective projects. By expanding the row you can directly see beneficiaries involved in multiple projects.

ject	count as beneficiary > 0						-	17	1								-		1		1		
		Name (gene	eric)					Overall Alert		Procurement Overall Score	Contract	Overall Score	Eligibility Overall Score	Performance	Overall Score	Concentration Overall Score	= = (Other Overall Score	Reputational	Fraud Alerts Overall Score	Total g	grants amount	E.C.
÷	VADIS CONSULTING						0	24	0	18	•	43 🧉) 0	0	- () 3(0 🔵	35	$^{\circ}$	19		50.041,00	Private
÷	DRAPANTEX						0	22		13	0	28 🥥) 14	•	50 🥥) 33	1 🔵	10		8	241	.014.678,00	Private
÷	Przemyslowy Instytut Au	utomatyki i Pomi	iarow PIA	Р			0	22		-	0	- () 5		- 0) 21	5 🔵	50		9		933.088,96	Unkno
	ILOMAR AGENCIES						0	20	0	13	0	15) 13		10) 21	7 🔾	50	0	15	4.043	.770.510,30	Public
							~				-						-		÷.				_
	Name (generic)	Case status	(CMI Revised score	Overall	Score	Overall score (Q -1	Overall score (Q	7	Overall score (0	-3 Procure	ment Overall	Score Contract	ment Overall	Overall	Score Perform	Overall	Concent ration	Overall Score	Other Overall	Score	neputau onal Fraud Alerts	Role	
	FAKE-Project-004/08	-	0 -	•	10 🤇			12 (- 0) 1	.5 🔵	16 🤇		0 🔵	0	0	30 🤇		0		Beneficiary	
	FAKE-Project-005/08	-	 - 	•	10 🤇	13	0	13 🤇		- 🔾) 1	.3 🔵	16 🤇		0 🔘	0	0	30 🤇		0	13	Beneficiary	
	FAKE-Project-005/10	-	0 -	•	11 🤇	14	•	15 🤇		-)	8 🔾	25 🤇		0 🔘	0	0	30 🤇		0 🤇	15	Beneficiary	
	FAKE-Project-006/08	-	~	•	8 🤇			12 🤇		- 🔾		- 🔘	- (0 🔵	0		25 🤇		0		Beneficiary	
	FAKE-Project-007/08	-	~	•	13 🤇	14	-	16 🤅	-	- 🔍		- 🔘	- 🤇		- 🔘	-	0	25 🤇		0	-	Beneficiary	
	FAKE-Project-008/08	-	~	•	11 🤇	-		16 🤇	-	- 🔾		- 🔘	- 🤇	·	0 🔘	15	~	25 🤇	-	0 🤇		Beneficiary	
	FAKE-Project-008/10	-	~	•	12 🤇			22 🤇	-	- 0		1	5 🤇		5 🔵	5		20 🤇	-	0	-	Beneficiary	
	FAKE-Project-407/08	•	-	• •	28 🤇	29	0	28 (- 0)	- 🔘	- () 2	5 🔘	- (0	25 🧯		50 🤇	15	Beneficiary	
÷	T-MOBILE MAGYAROR	SZÁG TÁVKÖZ	LÉSI RÉS	SZVÉI	NYTÁR	SASÁG	0	20		-	•	- 0) -	0	- 🤇) (0 🔵	50	•	11		4.567,00	Private
÷	HEALTH STUDIO ET SE	RVICE CENTR	E				0	18	0	16	•	36 🧉) 0	0	25 🤘	3	4 🔵	13		7	497	.085.749,06	Public
÷	MOLENBERGNATIE						0	17	0	28	•	6 🧉	7	0	25 🧉) 3		0		14	79	.227.509,50	Public
÷	LIDEL INTERNATIONAL						0	16		13	0	18 🧉) 0	0	18 🥥	4	1 🔾	18		9	41	.968.270,93	Private
) F



5.5 Contractors dashboard

The contractors dashboard focuses on contractor companies and the related contracts.

		Name (generic)		Overall Alert	[contractor]	Procurement Overall Score	Contractor	Contract Management Overall Score fcontractorl ⊞	Eligibility	Uverall Score (contractor)	Concentration Overall Score	[contractor] = Reputational	Fraud Alerts Overall Score (contractorl ⊕	E.C. Type	VAT Number (E.C.)) Country (E.C.)
	÷	Powszechna Kasa Oszczednosci Bank Polski SA	()	30 (2	18 🧯	50		-	• 4	10 🔵	13	Unknown	5250007738	POLAND
	÷	Contractor18	(0	22 (2	18 🤇	33		-	ວ ເ	37 🔵	0			FRANCE
	÷	Contractor19	(21 (0 1	18 🤇	33		-) :	33 🔵	0			FRANCE
	÷	KENDERESI VÍZIKÖZMU-TÁRSULAT	(0	19 (0	18 🧯	50		-	•	0 🔵	9	Public	12834444	HUNGARY
	÷	КОМОДО-СТИЛ ЕООД	(18 (0	18 🧯	50		-	•	0 🔵	4		111580598	BULGARIA
	÷	LESOTEHNICHESKA PROFESIONALNA GIMNAZI	A (17 (0	18 🧯	50		-	•	0 🔵	3			BULGARIA
+	⊡	Wrong VAT	0)	17 () 1	15 🤇	41		0	0 2	28 🔵) 5		116563994	BULGARIA
		Name (generic) Case status Image: Base status Fake Wrong VAT - - Fake Extprov - -	Hert 17 30	•	16 31	•		-		Local Coreal 15 18	•	41 Cverall) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Role 5 Contractor 13 Consortium m	Contract Contract ember Contract
	4															Þ
	÷	BE-PUMP Kereskedelmi és Szolgáltató Kft	()	17 () :	18 🧯	50	\odot	-	•	0 🔵) 0			HUNGARY
		Contractor20	(17 (18 🧯	50		-	•	0 🔵	0			HUNGARY
	÷		6		17 (2	18 🧯	50	\odot	-	•	0 🔵	0			HUNGARY
		Dent-East KFt							0		-	0 🔵	0			HUNGARY
	÷	Dent-East KFt Agenda 2013 Projektház Kft)	17 (2 1	18 🧯	50	\bigcirc	-	-	•				
	+)	17 (16 (-	18 🧯 16 🤇		-	0	• • •	10) 6		0404197020	BELGIUM

5.6 Dashboards options and features

The options we'll explore in this chapter allow the user to focus on the most relevant information by advanced filtering and navigation options:

- Varying the number of visible records in the dashboard
- Expanding and collapsing categorical alerts
- Sorting and grouping
- Viewing alert details
- Expanding and collapsing related entities
- Filtering the dashboard content to refine the selection

Note: For this chapter, we'll take the projects dashboard as an example. All the listed options and features are also available in the same way in other dashboards.

5.6.1 Dashboard description

Dashboard contents

		Name (generic)	Case status	(CM) Revised score		Overall Score	Procirement	Overall Score	Contract	Overall Score	Eligibility Overall Score	Performance	Overall Score	Concentration	Overall Score	Other Overall Score	Ŧ	Reputational Fraud Alerts	Overall Score	Project type	Member state	Managi
e	Đ	FAKE-Project-supervision1	-	0	- 🔾	34	•	18	•	50 🤇) -		-	0	30	•	50	0	22	Solid waste	(Fake country)	Ministe
e	Đ	FAKE-Project-ExtProv	-	0	- 🔾	34	•	18	•	50 🤇) -		-	•	35	•	50	0	20	Solid waste	(Fake country)	Ministe
e	Đ	FAKE-Project-003/08	👔 Unassigned	0	- 🔾	33		-		- 🧉	50	•	50	•	50	•	0	•	15	Energy eff. Urban	(Fake country)	Ministe
E	Ð	FAKE-Project-024/09	-	0	-0	32	0	-	0	- 🤇) 1	•	50	•	50	•	50	•	10	ESF	(Fake country)	Ministe
e	Đ	FAKE-Project-link-subContractor	-	0	- 🔾	30		-		- 🤇) -		-	0	25	•	50	0	15	Road	(Fake country)	Ministe
e	Ð	FAKE-Project-sanction03	-	0	- 🔾	30		-		- 🤇) -		-	0	25	•	50	•	15	-	(Fake country)	Ministe
E	Đ	FAKE-Project-407/08	😰 Unassigned	•	- 🔾	28		-		- 🤇	25		-	0	25	•	50	•	15	ESF	(Fake country)	Ministe
e	Đ	FAKE-Project-003/08	-	0	- 🔾	21		-		- 🤇) -	\odot	-	•	50	•	0	•	15	Energy eff. Urban	(Fake country)	Ministe
e	Ð	FAKE-Project-045/09	-	•	- 🔾	21	0	25	0	33 🧉	0	•	50	0	30		0	•	15	Rail	(Fake country)	Ministe
e	Ð	FAKE-Project-197/09	-	•	- 🔾	21	•	41	•	38 🧲	0		25	•	40		0	•	9	Water waste / supply	(Fake country)	Ministe
e	Đ	FAKE-Project-SME4	-	•	- 🔾	20		-		- 🧉	0		38	\circ	25	0	25	•	14	SME	(Fake country)	Ministe
e	Ð	FAKE-Project-136/09	-	0	- 🔾	20		-		- 🤇) -	\odot	-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Ð	FAKE-Project-158/09	-	•	- 🔾	20		-		- 🤇) -		-	•	50		0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-173/09	-	0	- 🔾	20		-		- 🤇) -		-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-175/09	-	0	- 🔾	20		-		- 🤇) -		-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-178/09	-	0	- 🔾	20		-		- 🤇) -	\odot	-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-181/09	-	•	- 🔾	20		-		- 🤇) -		-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-211/10	-	0	- 🔾	20		-	\odot	- 🤇) -	\odot	-	•	50	•	0	•	10	-	(Fake country)	Ministe
e	Đ	FAKE-Project-226/10	-	0	- 🔾	20		-		- 🤇) -		-	•	50	•	0	•	10	-	(Fake country)	Ministe
E	Đ	FAKE-Project-232/10	-	0	- 🔾	20		-	\odot	- () -	\odot	-	•	50	•	0	•	10	-	(Fake country)	Ministe

The table element displays the first *N* entities corresponding to the selection, ordered by the "overall score" property by default, in descending order (so in our example the dashboard presents the top 20 highest overall scores).

Two kinds of columns are visible in the dashboard: standard columns and alert columns. You can easily identify alert columns by the fact they have vertical text in the header and the cells contain colorized LED style indicators.

Only when corresponding entities are used in the case management, a dedicated column called *case status* is displayed. On case managed entities, an additional *revised case status* appears.

Header zone

The header element contains the dashboard selection criteria, i.e., which are the conditions used to select items to display.

Pr	-1·	g Authority = Ministerie 10													
	ugi i	Name (generic)	Case status	(CM Revised score	Overall Score	Procurement Overall Score	Contract Management Overall Score	Eligibility Overall Score	Performance Overall Score	Concentration Overall Score	Other Overall Score	Reputational Fraud Alerts Overall Score	Project type	Member state	Managing Authority
	÷	FAKE-Project-supervision1	-	•	- 🥥 34	18	e 50	• -	0 -	30	🥚 so	2:	2 Solid waste	(Fake country)	Ministerie 10
	÷	FAKE-Project-SME4	-	• •	- 🔵 20	- 0	0 -	ο ο	9 38	0 25	0 25	0 1	SME	(Fake country)	Ministerie 10

The table headers (columns) represent different entity properties, which can be standard properties (text, amount, flag ...) and so called alert properties (numerical properties within a well-defined range of values).





	Name (generic)	Case status	(CM Revised score	Overall Score	÷	Procurement Overall Score	Contract Management Overall Score	Eligibility Overall Score	Performance Overall Score	Concentration	ō.	Other Overall Score	Ŧ	Reputational Fraud Alerts Overall Score	Project type	Member state	Manaç
÷	FAKE-Project-supervision1	-	o -	0	34 🤘) 18	50	-	• -	0	30	•	50	22	Solid waste	(Fake country)	Ministe
+	FAKE-Project-ExtProv	-	o -	0	34 🤘	18	50	 - 	o -	•	35	•	50	20	Solid waste	(Fake country)	Ministe

Standard columns can be re-ordered using drag and drop. However, alert columns cannot be moved.

Standard columns have their header text displayed horizontally and no other symbol. User can click with the left mouse button on the header cell to sort the current elements present in the dashboard. Sorting is limited to one column only, it is not possible to sort on multiple columns at the same time (see chapter 5.6.4 for more details).

Alert categories

Alerts are grouped (aggregated) into alert categories. The dashboard screen offers the ability to expand and collapse these categorical alerts to display the individual alerts (see chapter 5.6.3).

The alert selection indicator (red triangle on the cell upper left corner) indicates which current alert category is used by the dashboard selection.

Dashboard toolbar

A dedicated dashboard toolbar is present on the bottom of the dashboard screen



This toolbar contains the following elements:

ф	Refresh button - when clicked, the current selection is reloaded
	Select all – Selects all items present in the dashboard.
r di n	Note: this is only selecting the root items. Items present in sub-dashboards are not
	selected. Selection is used when using the export feature from the file menu.
Ę.	Invert selection.
U	Unselect all or clear the current selection of projects.
+	Changes number of items present in the dashboard (see chapter 5.6.2)
7	Enables or disables filtering options visibility (see chapter 5.6.7)
	Grouping – shows or hides the grouping panel on the top of the dashboard table (see
<u>\$</u> —	chapter 5.6.4)

5.6.2 Varying the number of visible records on the dashboard

By using the dedicated toolbar button, the number of items present in the dashboard can be changed according to the user's needs.





By default, this value is set to 20. It can be set up to 200 items.

Warning: incrementing this value will impact the performance of the system.

5.6.3 Expanding and collapsing categorical alerts

When you left click on an alert category column which is not active, the alert category becomes active and the dashboard is refreshed according to the new alert.



The [+] / [-] symbol on the top right corner of the cell defines which categorized alert is expanded or collapsed. Expanding or collapsing categorical alerts can be done with a *Shift+Click* on the header cell. The same option can be achieved via the context menu on the alert category cells by clicking the right mouse button in the header of the column:

umber of contract	addenda mpared to	Financial correction	ontract	Management Overall Score	linihilih.	rall Score	ormance all Score mber of ble trained store aring dued vs to proved ming hour incured mber of ditional resonnel resonnel sconnel scored ditional ditional ditional ditional ditional	mover at the oject end vs
20	CO B	EC 8	0	Manago Overall	L		Overall Score	proje
•	5	o -	۲	50		~	Procurement Overall Score)
$\overline{\mathbf{O}}$	5	o -	•	50			Contract Management Overall Score)
•	-	o -		-	•		Eligibility Overall Score)
0	-	o -	0	-		~	Performance Overall Score - O - O)
•	-	• -	\odot	-			Concentration Overall Score - O - O)
\odot	-	• -	\odot	-			Other Overall Score - O - O	
0	-	o -		-	$^{\circ}$		Reputational Fraud Alerts Overall Score)
\circ	-	o -	\odot	-	\bigcirc	-	0 -0 -0 -0 -0 -0)
•	10	o -	$\overline{}$	33		0	● 50 0 - 0 - 0 - 0 - 0 - 0)

The context menu lists all alert categories, with the selected column in bold. Clicking on a menu option will expand or collapse the selected category.



Alerts details are shown in grey text instead of black text and don't have an expand/collapse symbol. When the context menus are re-opened, checked items correspond to the expanded columns. Note that alerts behave exactly like alerts categories when you click on them: the selected alert is used for the dashboard selection, rows are re-queried.



5.6.4 Sorting and grouping

Sorting will change by single-left-clicking on the column headers present in the dashboard by requerying the information based on the selected alert. There are two different sorting behaviors, depending on the kind of column you click:

Sorting on alerts

By clicking on a particular alert header, the selection indicator (red triangle) will appear on the selected alert. This action changes the selected alert for the whole dashboard. This re-executes the current selection using the selected alert for the top selection; it is always sorted on descending order as it is the dashboard behavior.

Sorting on standard columns

By clicking on the header of a standard column, the sort occurs locally on the displayed record. This sort operation is applied on currently displayed data, no re-query operation is performed in this case.



Subsequent clicks will change the ascending / descending option. When used, a small arrow on the top of the cell indicates the current option.

Grouping

When the grouping bar is activated using the Ξ button in the tool bar, a simple column drag and drop allows the user grouping rows by the selected column. Grouping can also be done on multiple columns. The grouping option applies only on currently displayed data. No re-query operation is performed in this case.



User can change the sort order by clicking on elements in the group panel. Elements can also be rearranged by moving them. The [X] button in a group item removed the item.

o by: Overall Score 🗵	oncentration Overall Sc															
6	oncentration Overall Sc	core														
				Name (generic)	Case status	(CM) Revised score	c =	Overall Score	Procurement Overall Score	Eontract Management	verall Score	Overall Score	Performance Overall Score	Concentration Overall Score	Other Overall Score	+
				0 11 0 00		0	0	6	£6	2	6	ó	щę	ŭó	ō	
			^	Overall Score: 32 Concentration Overall Score: 50												
			-	FAKE-Project-024/09		•	- 🔾	32 🤇		- 0	- 👄	1 🦷	50) 50	<u>ه</u> ه	0 🤇
			^	Overall Score: 30		~	×.		-	~		-		•	-	
			•	Concentration Overall Score: 25												
				FAKE-Project-link-subContractor	-	•	- 🔾	30 🤇		- 🔘	- 🔘	- 🔾) -	25	🍦 ຣ	0
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5.6.5 Viewing alert details

This function is only available on individual risk indicator alerts using the right mouse click. It displays a dedicated dialog giving extra info on the elements implied in the alert computation, as well as clickable links giving an extra context to the alert.

Alert details are only available on projects and contracts, as alerts at company level (Beneficiary or contractor) are aggregated alerts.

2	Beneficiaries in	volved in n				- 0		
	Beneficiaries in mu	Itiple projects	8					
	Values	Tab	les					
	Alert						Val	ue
	Beneficiary's nu Beneficiary's ma			a same n	,			4
	beneficially a me		projecto il	a same n				
	Related com	oanies						
	-							
<u> </u>								

The alert details window can be dragged by maintaining mouse click on the title bar. The window can be resized by clicking and dragging the bottom right corner.

Each individual alert has its own extra information, which can contain three types of information:

Values

Values	Tables	
Alert		Value
Beneficiary's nun	nber of projects	4
Beneficiary's max	number of projects in a same m	4

The values are present in a simple name / value table and are global values used to compute the alert.

Table information

	Values	Tables
	Beneficiary's proj	jects list
0	FAKE-Project-sa	nction03
1	FAKE-Project-SM	/IE1
2	FAKE-Project-SM	ME2
3	FAKE-Project-SN	4E4

The table information is a multi-occurrences multi-value information, displayed as a table.



References

ne	ficiaries in multiple projects	
_	Values Tables	
	Beneficiary's projects list	
0	FAKE-Project-sanction03	
1	FAKE-Project-SME1	
2	FAKE-Project-SME2	
3	FAKE-Project-SME4	
-	Related companies	

References are links to other application functions giving some context information about the alert i.e. neighborhood, graph or world compliance information related to the alert.

References can be of multiple types:

- **Provide State** Provide the set of the set
- 🐨 World compliance references: refers to the external World Compliance data.
- E Path graphs: on some kind of alerts, some references to a shortest path graph may appear.

5.6.6 Expanding and collapsing related entities

The dashboard screen also has the capability to display embedded relationship navigation from one entity to another based on a given relation type (e.g. a dashboard displaying a project allows the user to drill down to the related beneficiary). The overview of related entities can be displayed by expanding the project using the "+" sign on the dashboard level.



The results of expansion are quite similar, in terms of navigation, to the context menu accessible via a right click on a project and the selection of Beneficiaries.

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The main difference resides in the displayed properties.

5.6.7 Filtering

Filtering options give the ability to refine the dashboard focus according to a wide set of standard properties or alerts.

Showing the filters is done by clicking on the \uparrow button in the toolbar.

General			Name (generic)	Case status	II Revised		Overall Score	Overall Score	Management Overall Score	Eligibility Overall Score	Performance Overall Score	Concentration Overall Score	Other Overall Score	Reputational Fraud Alerts Overall Score,	Project type
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Member state	-	(E FAKE-Project-011/08	•		- 🔾	17 🔘	- 🔾	- 🥥	13 🤇	25 🤅	31 🤇	10	10	ESF
(Fake country)		(E FAKE-Project-003/09	-		- 🔾	17 🔘	- 🔾	-	0 🥥	50 🤅	30 🤇	0 0) e	ESF
Managing Authority		(E FAKE-Project-002/08	•		- 🔍	9 🔘	- 🔾	- 🔍	0	0 🧿	30 🤇	0 0	18	ESF
Managing Authonty		(E FAKE-Project-023/08	-	\odot	- 🔵	12 🔘	- 🔾	-	0 🤇	8 🥥	30 🤇	5	17	ESF
(any)		C	E FAKE-Project-044/08	-	\odot	- 🔾	17 🔘	- 🔾	-	1	16 🥥	31 🤇	25	13	ESF
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(any)		(E FAKE-Project-017/09	-	\odot	- 🔾	16 🔘	- 0	-	0 🥥	35 🥥	30 🤇	0 (16	ESF
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- 1. Filter selection criteria: displays the current selection criteria as a text.
- 2. Filter elements: Different kinds of options appear to determine filter values: text boxes allow text encoding, combo boxes allow to pick a choice into a given list, value pickers allow to





enter min/max values and range selectors allow the selection of a range of values for a given alert.

- **3.** Filter groups: sub-alerts are located into their own groups; the general group contains only top-level alerts. Combinations of criteria from multiple groups can be done. Clicking on group title will open each group so individual values can be changed.
- **4. Buttons**: these buttons allow applying the filter and resetting the filter. By resetting a filter, all selectors will be re-initialized to the full range of values.

To perform a selection, change the selection criteria or values and click the *Apply Filter* button. To reinitialize the dashboard to its default selection, click the *Reset* then the *Apply Filter* button.



Range selectors cover the complete range of values for each alert. This allows the user to refine its selection and to target potential issues more accurately. Moving the left/right cursors will select the minimum/maximum value of the selected range. When cursors are completely on the left and on the right (covering the complete range) the criterion is ignored.

Performing complex filtering

Single or multiple criteria can be used, in multiple groups if needed. The selection is always the combination of all modified criteria.



6 Search and navigate

In order to perform dedicated and accurate investigations, the application contains dedicated search forms. These search options are separated in two categories: entity search and relation search. These search forms are available through the main application menu.

Once items have been found, the application offers a quick navigation into the entity-relationship diagram through context menus (right-click menus).

6.1 Search forms

Search forms provide a quick and efficient search based on predefined criteria. Different search forms are provided by default with the application, and they apply to various entities and relations.

As stated in the overview, the application provides both entity search and relation search through its main menu.



6.1.1 Search on entities

Entity search provides forms for projects, contracts, companies, persons and group...



A typical search window contains two main components: the search form itself and the results table.

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Contains	•						
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6.1.1.1 Search basics

In standard mode, the search form part contains predefined search criteria that can be filled by the user (The situation is different when using expert mode, please refer to chapter 12.1).

Typical form entry is composed of three parts: the property name, the operator and the value field.

Status code

Within

✓

Depending on the property type, the value field may vary. It can be a simple text box, a multiple choice picker, a combo box, a numerical value box, a range selector or a date/time picker. By default, all fields left blank are just ignored for the search so you can fill only the desired values.

For some specific fields, you may also have the choice of the operator.

Company name (E.C.)	Contains 🔹

In most search forms, only a basic set of criteria is displayed by default. The form can be switched from basic mode to advanced mode by clicking on the top left link (*Advanced* when in basic mode, *Basic* when in advanced mode)

			anced					Basic
]								
Search for Compa	anies		Advanced	:	Search for Comp	anies		Basic
Company name	Contains 🔹				Company name	Contains -		
Company name (E.C.)	Contains 👻				Company name (E.C.)	Contains -		
Status code	Within	•			Status code	Within	▼	
Country	Within	v			Country	Within	~	
NACE Code (primary)	Begins with	v			NACE Code (primary)	Begins with	~	
VPI P2B Bankruptcy	>=	1 📩 🗖			Company age	Between (inc)	0 ↔ 🕈 1500 ↔ 🕅	
VPI P2B Sold (Top 20%)	>=	1 💼			VPI P2B Bankruptcy	>=	1	
					VPI P2B Sold (Top 20%)	>=	1 📩	
					VPIEDV Min. (k€)	>=	0 🔹	
					VPI EDV Max. (k€)	<=	0 🔹	
Top 10 km by	у	V Desc. v	Search	[Top 10	by	V 1	Search

6.1.1.2 Advanced mode

When in advanced mode, additional criteria are available. They are displayed in bold to identify them easily. Advanced criteria are predefined and cannot be changed. For fully customizable selections, please refer to the chapter 12.1 about expert search mode.

Forms contain a *Clear* button which resets all fields with an empty or default value.

6.1.1.3 Top selection

In addition to the search criteria, the search forms offer the possibility to use a single property as sort criteria, and then use it to limit the amount of records returned. This is called the *top selection*.

📃 Тор	10 🌲 b	y	✓	Desc.	-	

This option can be really useful when the search criteria are vague enough to return a wide range of elements. By using the top selection, you can reduce the amount of returned records (thus the speed of the response) and perform a more accurate search if the top property is well chosen.

When enabling the top selection, you will have to provide the number of returned records, the property used for sorting results and the sort direction. The top selection is done based on selected criteria.



The property picker will list all available properties for the form's target entity. Once you have entered your criteria, just click on the *Search* button to start the query.

6.1.1.4 Search messages

Different message dialogs may occur while proceeding to searches.

Size limitation



This message will occur when the number of records matching the criteria is above the server limit. This is happening when the search criteria are too permissive. In that case, only the first records will be returned, and there is no guarantee the returned records will match a defined order. In this case refine your selection criteria or use the top selection mechanism.

No result





This message will appear when no record matches the criteria.

Operator was not set



This message can appear when clicking on the search button and you forgot to pick an operator in the custom operators list.

No sort property defined



This message can appear when clicking on the search button with the top selection enabled, but no top property selected.

No values defined for the selected criteria in expert mode



This message can appear when clicking on the search button with no data entered for the selected fields in expert mode.

6.1.1.5 Search results

Once the search has been processed, the results are displayed in the lower table.

	Company	Unique identification number	BvD Size	Country	C.E. Flag	Company city	0
	ETS MARCEL LAMBERT	BE0401657402	SM - Small	BELGIUM		GOSSELIES	
	ETABLISSEMENT ALBERT ET CIE	BE0401575644		BELGIUM		AISEAU-PRES	LE
	MARBRONIX	BE0401548029		BELGIUM		MONTIGNIES-	۰S
	I DANIELS FRANS-CENTRALE VERWARMING EN SANITAIR	BE0400936533		BELGIUM		DONK	
	ECOLE D'EQUITATION LE GROENENDAEL-RUITERSCHOOL	BE0400652560		BELGIUM		HOEILAART	
	EURODIA	BE0400631180		BELGIUM		OVERIJSE	
	📶 ALUMINIUM EN GLAZAL PRODUKTEN EN KEUKENS	BE0400615938		BELGIUM		RAMSDONK	
	INBOUW BELGIE	BE0401896437		BELGIUM		BRUSSEL	
	CAISSE D'ASSURANCES DE LA SOCIETE COOPERATIVE FEDERALE DE BELGIQUE	BE0402197533		BELGIUM		BRUXELLES	
		050400457040		PELOU M		DOUVELLES	Þ
\mathbb{O}	🔁 🗇 🎵					1860 element	t(





At that stage, the following operations can be performed on the results:

- The user can navigate to other entities or relation by right-clicking on items.
- Results can be sorted by clicking on column headers
- Columns can be re-ordered by a drag and drop operation.
- Columns can be customized according to the user's needs refer to chapter 11.3
- Items can be selected (single or multiple selection) for export (see chapter 10) or to send them to the basket.
- From the toolbar, the summary function 🔲 can be called on a selection (see advanced functions chapter)
- The local results can be filtered again to create sub-selection using the post-filter **T** option (see advanced functions chapter 12).

6.1.2 Search on relations

Searching on relations is a bit more complex than searching on entities as the application gives you the ability to define criteria on the relation itself, but also on the source and target entities.



Relation search is available for external data, on legal links, private links, memberships and affinity links. Relation search screens have more elements than entity search screens.

Companies Private links Elemer picket		Name Age Number of affinities Number of Companies Number of linked groups Linked countries	Between (r >= >= FO Contains	rm	25 (1) → (0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	³⁵ ∲♥		T
Mrs Jeanna Valen - Mrs Jeanna Valen - Mr NUME TECH - & Mr Mohamed Yusi	Manager / P	erson		Manager / Age	Manager / Birth date	Manager / Number of affinities	Manager / Number of Companies	Mar / / Ni of lir groi
🗐 🥋 Mr Marius Laurent	🔓 Mr Sukhwinder							15
	🔓 Mr Sebastian M	uissus		30	19830901	8		5
Kesuts	👬 Mr Firas Alaouie		_	30	19830000	5		3
ASSOCIATIO	🖧 Mr Christopher I	Erbsloeh Re	esult	ts ta	b re	27		14
- Noossentin Boc	🖧 Mr El-Hadji Diou					16		7
	👬 Mr Joel Jacobo				19800126	6		3
Mr Jonathan Geor ALGEMENE 2	🖧 Mr Mohammad				19780805 19840502	17		13 5
GEORGES KI	🖧 Mr Mohammad	Mohammadi Vakil Seyed			19840502 19831205	21		5
•	An Mr Emmanuel C				19820610	8		3
Image: Second secon							100	6 element(s



6.1.2.1 Search basics

The element picker lists the different elements on which you can define search criteria.

Legal links	Private links	Membership links	Affinity links
□- Overview	⊡ · Overview	Overview	□ Overview
···· Shareholders	···· Managers	···· Members	···· Contacts
···· Subsidiaries	···· Companies	Groups	···· Contacts
Legal links	Private links	Memberships	Affinity links

The overview item displays an overview of the selected criteria in the form criteria part, as the other elements in the tree will show search criteria for the relation and the source and target entities.

Note: searching on relations can be a long process requiring minutes to find the results, depending on which criteria were used in the form.



6.1.2.1.1 Search on legal links

Criteria on shareholder and subsidiary companies are the same as the search for company form. In addition, direct participation and total participation can be used to search for specific links.

	Field name	0-	Value
	Shareholders	Op.	value
	Country	Within E	BELGIUM
	Subsidiaries		
	VPI P2B Bankruptcy	>=	18
	Legal links		
	Direct participation	>=	50
		Cantaina	
	Company name	Contains •	
	Company name (E.C.)	Contains -	
	Status code	Within	
	Country	Within	
	NACE Code (primary)	Begins with	
⊡ • <mark>Overview</mark> Shareholders	Company age	Between (inc)	0 🜩 🕇 1500 🐳 🔲
···· Subsidiaries	VPI P2B Bankruptcy	>=	1
Legal links	VPI P2B Sold (Top 20%)	>=	1
	VPI Estimated Deal Value Min	. >=	0
	VPI Estimated Deal Value Max	t. <=	0 🗼 🕅
	Company name	Contains -	
	Company name (E.C.)	Contains -	
	Status code	Within	
	Country	Within	
	NACE Code (primary)	Begins with	
	Company age	Between (inc)	0 ➡ 1500 ➡
	VPI P2B Bankruptcy	>=	
	VPI P2B Sold (Top 20%)	>=	1 🗼
	VPI Estimated Deal Value Min	. >=	
	VPI Estimated Deal Value Max	κ. <=	
	Direct participation >=	50 🚔 🔽	
	Total participation >=		



6.1.2.1.2 Search on private links

Criteria on the managers as the same as in the person search form, criteria on companies are the same as in the company search form. Private links can be searched base on the function code (standardized function), the work country and the current/previous flag. Previous functions mean they are not currently effective but kept in the database

	Field name	Op.		Val	ue	
	Managers					
	Linked countries	Con	itains	"В	E"	
	Age	>=			25	
	Age	<=			35	
	Companies					
	Country	With	hin	BELGIU	JM	
	Private links					
	Function code Current / Previous	Beg =	jins	"00 Curre		
	Current / Previous	=		Curre		
	Name	Contains		•		
	Age	Between	n (inc)		120 🔔 🔲	
	Number of affinities	>=		0		
	Number of Companies	>=		0		
⊡ ·· Overview	Number of linked groups	>=		0		
···· Managers ···· Companies	Linked countries	Conta	ins	(any)	▼	
Private links	Company name		Contair	is 🔻		
	Company name (E.C.)		Contair	ns 🔻		
	Status code			Within		
	Country			Within	~	
	NACE Code (primary)		E	Begins with	v	
	Company age		Be	etween (inc)	0 🔹 ➡ 1500 🛬 🔳	
	VPI P2B Bankruptcy			>=	1 🛬	
	VPI P2B Sold (Top 20%)			>=	1 🐳 🔲	
	VPI Estimated Deal V	alue Min.		>=	0	
	VPI Estimated Deal V	alue Max.		<=		
	Function code Be	gins with		►		_
	Current / Previous	=	(any)	•		
	Work country	Within		►		



6.1.2.1.3 Search on membership links

Criteria on companies are the same as in the company search form. Criteria on groups are the same as in the group search form. The only criterion on the membership link is the ultimate owner flag. This flag is a technical value indicating which method is used to determine the group's ultimate owner. It can take UO (ultimate owner) or LTC (largest top company)

	Field name	Op.	Valu	e
	Members			
	Status code	Within	Activ	e
	Country	Within	BELGIUI	M
	Groups			
	Investment Gp Prim UO country	= Within	Investmer BELGIUI	
	Memberships		beconor	
	Prim UO Flag	Within	LT	c
	Company name	Con	tains 🔻	
	Company name (E.C.)	Con	tains 🔹	
	Status code		Within	
	Country		Within	
<u></u> Overview	NACE Code (primary)		Begins with	
Members	Company age		Between (inc)	0 🔿 🔶 1500 📩 🗖
Groups Memberships	VPI P2B Bankruptcy		>=	1 📩 🕅
Memberanipa	VPI P2B Sold (Top 20%)		>=	1 📩 🕅
	VPI Estimated Deal Value	Min.	>=	0
	VPI Estimated Deal Value	Max.	<=	
	Group name Contain	S	•	
	Group ID	=		
	Investment Gp	=	(any)	•
	Prim UO country	Within		
	Prim main sector	Within		
	Primary countries	Contains		
	Prim nof companies Be	tween (inc)		50000 🔿 🔳
	Prim UO Flag Within L1	ſĊ		



6.1.2.1.4 Search on affinity links

The criteria on persons on both sides of the affinity link are the same as in the person search form.

The only criterion on the affinity link is the direct link flag. A direct affinity link corresponds to a person \rightarrow company \rightarrow person path, as an indirect affinity link corresponds to a person \rightarrow company \rightarrow company \rightarrow person path.

	Field name	Op.	Value	
	Contacts			
	Number of affinities	>=	2	
	Contacts			
	Name	Contains	"libei chen"	
	Affinity links		_	
	Direct link	=	True	
-	Name	Contains	•	
	Age	Between (inc)]
<mark>⊡</mark> . Overview	Number of affinities	>=		
···· Contacts	Number of Companies	>=	0	
Contacts	Number of linked groups	>=		
Affinity links	Linked countries	Contains	(any)	•
-	Name	Contains	•	
	Age	Between (inc)]
	Number of affinities	>=		
	Number of Companies	>=		
	Number of linked groups	>=		
	Linked countries	Contains	(any)	•
	Direct link = Yes	s v		
	_			

6.1.2.2 Search results

As the search results represent relations instead of entities, it is composed of two parts:

- 1. the results tree which shows the relation structure, and
- 2. the results table which displays relation data.

MI results Mr Sebastian Muissus		Manager / Person	Manager / Age	Manager / Birth date	Manager / Number of affinities
	Þ	🙀 Mr Sukhwinder Singh			26
		🖧 Mr Sebastian Muissus	30	19830901	8
SEC SALLAUM EXPORT CENTER		🙀 Mr Firas Alaouie	30	19830000	5
C.H. ERBSLOH BENELUX		🖧 Mr Christopher Erbsloeh	31	19820000	27
⊡ 🧖 Mr El-Hadji Diouf		🙀 Mr El-Hadji Diouf	35	19771103	16
		🛱 Mr Joel Jacobovitz	33	19800126	6
EASY TRADING		🏣 Mr Mohammad Hammad Zafar	35	19780805	17
🖶 👷 Mr Mohammad Hammad Zafar		🏣 Mr Mohammad Mohammadi Vakil Seyed	29	19840502	21
🖳 🧝 🕅 Mohammad Mohammadi Vakil Seyed		🙀 Mr Menasche Glecer	29	19831205	11
 ✓ ACROPAQ ✓ III 		💑 Mr Emmanuel Cuisinier	31	19820610	8 👻
ʰ. ʰ.	1				1006 element(s)

49



The tree part is used as a sub-selection mechanism. When relations have the same source entity, they are grouped together in the tree.

WILCOAST BASTENIE ASSET FINANCING CORPORATION			Manager / Age	Manager / Birth date	Manager / Number of affinities	Manager / Number of Companies	Mar / Nu of lir grou
FLANDERS ESTATE		🙀 Mr Jean Christophe Emile Mau Clare					
		🖧 Mr Jean Christophe Emile Mau Clare	34	19790304	7	5	
GLOBACINUUS Mrs Deborah Lechon LooribEM GUSTOMER SERVICE DIAMOND PROL CORTIL IMMO C S DIAMOND PRODUCTS	1	🥻 Mr Jean Christophe Emile Mau Clare	34	19790304	7	5	
CO.GE.IN CO.GE.IN DUO GRILL RDB IMMO 5 CO.GELIN DUO GRILL CO.GELIN CO						1006 eleme	nt(s)

When a source element is selected, the table displays only the relations having this entity as a source. The same mechanism applies when a target entity is selected: the table shows only the relations related to this target entity.

The table columns correspond to the default columns for the source entity, the relation and the target entity. Header names for source and target entities are prefixed with their names (*<entity role> / <property name>*) as the relation has no prefix (only the property name is used).

6.1.3 Searching on text fields

The way the application processes text search queries differs based on the selected operator. In standard search forms, most of them use the *Contains* operator, which has particular behavior as it is based on full-text indexing techniques. This operator is also used by default in dashboard filters, for project name.

The full-text indexing strategy behind the Contains operator indexes all separated words contained in the text fields, to be able to process to word search. This means that, when typing *word1 word2* in a text box using the Contains operator, the application will try to use the full-text index to locate occurrences of the field containing both words (*word1* AND *word2*).

There is also a possibility for the user to use wildcard (*) expression for some words. <u>Only trailing</u> <u>wildcards are supported in full-text indexing</u>, e.g. when typing *word** in a search field, the operation really processed is: return all records where the property contains a word beginning with *word*.





6.2 Navigation

The navigation into the global network built on entities and relations always uses the same behavior i.e. context menus available on the various entities and relations. These context menus⁴ are available on the following items:

- Any entity or relation displayed in a table or dashboard
- Any entity or relation displayed in a graph

Case status	Project					
8	FAKE-Project-SME5					
a		mação Avancada			\geq	
3	Изграждане на интегрирана	🏷 🛛 Add to basket	а		7	Add to basket
3	085491/2012/41 - Bolsas de Fo	🙀 Create new case		040414/ Bols	¢,	Create new ca
3	FAKE-Project-sanction02	Copy name to clipboard		Form Avar		Copy name to
2	INTERVENÇÃO NOS TROÇOS	Interactive report	51		6	Interactive repo
8	Целта на проекта е да се под		· rc		£	Printable repor
3	Цел и предмет на инвестиция	Beneficiaries / Partners	۲	×.	ч.	Beneficiaries /
3	Proteção e defesa da zona cos	Contracts	p		Ъ.	Contracts
3	Circuito Hidráulico de Pedrógão	Involvements		Fundação para a	٩.	Involvements
U 🕄 🖯 7		Expenses		Ciência e a Tecnologia	٩.	Expenses
		🐁 Surroundings graph	_		A	Surroundings o

These context menus contain system functions (in bold, always appearing first on the popup) and navigation menus. System functions are standard as navigation menu may differ from one entity or relation to another.

6.2.1 System functions

The following system functions are available in context menus:

- **Add to basket**: adds the selected element(s) to the application basket (See chapter 12.3 for more information about the basket system)
- **Create new case**: only if the element is part of the case management, starts a new case creation process. This option is only available on *projects* and *contracts*.
- **Display case**: only if a case exists for this element, this menu leads to the case detail screen. This option is only available on *projects* and *contracts*.
- **Copy name to clipboard**: copy the entity name on the clipboard so it can be pasted in this or another application.

6.2.2 Navigation functions

The following navigation options are available for the different entities in the system.

⁴ Context menus are available by right-clicking on items

6.2.2.1 Project entity

>> 	Add to basket Create new case Copy name to clipboard Interactive report Printable report Beneficiaries / Partners	 Copy name to clipboard Interactive report Printable report Beneficiaries / Partners Contracts Involvements Expenses
- %	Beneficiaries / Partners	- Expenses
94 94	Contracts Involvements	- Surroundings graph
₽- 	Expenses Surroundings graph	

6.2.2.2 Contract entity

8	Add to basket	- Copy name to clipboard
B	Create new case	- Interactive report
	Copy name to clipboard	- Printable report
	Interactive report	- Contractor
ً	Printable report	 Requesting project Sub-contracts
56	Contractor	Sub contracts
ч.	Requesting project	
٩.	Sub-contracts	

6.2.2.3 Company entity

7	Add to basket	- Detailed report (Orbis)
	Copy name to clipboard	 Printable report (Orbis)
ً	Detailed report	 Interactive report - Beneficiary
렏	Printable report	- Printable report - Beneficiary
£	Interactive report - Beneficiary	- Interactive report - Contractor
£	Printable report - Beneficiary	- Printable report - Contractor
1	Interactive report - Contractor	- Related projects
ً	Printable report - Contractor	- Shareholders list
ч.	Related projects	- Subsidiaries list
1	Shareholders list	- Related groups
Шъ Шъ	Subsidiaries list	- Hierarchy view
€	Related groups	- Closed local view
A.	Hierarchy view	- Deep local view
्	Closed local view	- Groups map
्	Deep local view	- Surroundings graph
11	Groups map	- Related people (Current)
A	Surroundings graph	- Related people (all)
2	Related people (current)	
*	Related people (all)	





6.2.2.4 Person entity

👌 Add to basket	- Interactive report
🗋 Copy name to clipboard	- Related companies (all)
Interactive report	 Affinities Affinity diagram
Related companies (all)	
😤 Affinities	
Search Affinity diagram	

6.2.2.5 Group entity

 Add to basket Copy name to clipboard Related groups Hierarchy view Groups map Related companies (all)
--

6.2.3 Navigation results

When using neighborhood navigation (e.g. project beneficiaries, company related people, contract sub-contracts), the application will open a new window with a list of matching elements. Note that these elements are not entities but relations, even if they are not shown completely. This means that, sometimes, the same entity may appear on multiple rows. This simply means that there are multiple relations between the original entity and this entity.

This happens mostly in beneficiaries and partners (as one company may be beneficiary and contractor at the same time) or company related people (as a single person can have multiple roles in a company).

Companies for Mr Manuel Jose Lamouroux Barroso

		Company / Company	Function code	Curren Previo
•	.			Current
	4 e	SOCOIMA - SOCIEDADE DE CONSTRUÇÕES E IMOBILIARIA DA MAIA, S.A.	Board of Directors - Member	Current
	4 4	SOCOIMA - SOCIEDADE DE CONSTRUÇÕES E IMOBILIARIA DA MAIA, S.A.	Board of Directors - President / Chairman	Current
	4 4	MOTOR F1 - COMÉRCIO DE AUTOMOVEIS, S.A.	Owners / Partners / Shareholders / Founders - Owner / Partner / Shareholder / Founder	Current
	2	MOTOR F1 - COMÉRCIO DE AUTOMOVEIS, S.A.	Board of Directors - Member	Current
	ĉ,	MOTOR F1 - COMÉRCIO DE AUTOMOVEIS, S.A.	Board of Directors - President / Chairman	Current
	å e	2NOSH - SOCIEDADE DE CONSTRUÇÕES CIVIS, LDA	Senior management - Unspecified executive	Current
	4	2NOSH - SOCIEDADE DE CONSTRUÇÕES CIVIS, LDA	Owners / Partners / Shareholders / Founders - Owner / Partner / Shareholder / Founder	Current

In the example above, you can see multiple lines with the same company name as the selected person has multiple functions in them.



7 Graphs

Graph representations are known to be more intuitive and attractive than just tables and listings. They also give a global and easy to read representation of relationships between different entities. That's why the application uses various graphs to represent the information.

- The Hierarchical view is a group dedicated view which exposes the content of a group, in a tree-like representation of companies and their common legal links inside the group.
- The Group map is the "top view" over groups, displaying information about how groups are linked together through their respective company legal links.
- The Affinity graph represents links between people through companies.
- The Local view, the opposite of the hierarchical view, is not limited to a defined set of companies but corresponds to a variable set of companies surrounding the selected one, called entry point. These surroundings can be modified through parameters to include or exclude elements based on different values.
- The Surroundings graph is similar to the local view, but uses a particular path definition to include the entry point surroundings.
- Finally, the Paths graph displays shortest path information between two given entities, and can be enriched with extra entities and relations manually.

7.1 Hierarchical view

The goal of a hierarchical graph is to display the set of companies belonging to a given group. This set is displayed as a directed "tree like" graph based on the legal links. This gives a near-reality organizational tree of shareholders and subsidiaries.





7.1.1 Nodes aggregation

In order to avoid having too much information in the graphs, some companies are not directly represented in the graph but rather aggregated (hidden) in their shareholder company. Concerned companies are tree leaves i.e. companies having a single common shareholder and no subsidiary.

To get information on these aggregated companies, locate a company which has a blue indication below its icon. This indicates the number of aggregated subsidiaries for this shareholder. By selecting the company (with left-mouse-click), the table on the left will be populated with the aggregated subsidiaries. This function is specific to the hierarchical graph.

7.1.2 Specific options

These options are available in the bottom toolbar in the graph window.



7.2 Group map

The group map, with the hierarchical graph, is the two views related to the group clustering system. As the hierarchical was the inside cluster view, the group map is the outside cluster view i.e. the relations between the clusters. Please refer to the chapter 4.6.2 for more information about the cluster groups and how they work.





7.2.1 Customization

The group map can be parameterized to include more or less elements in the view.



Available parameters are:

- Number of jumps (graph depth) to explore. This defines the number of group legal links to explore around the target group. The default value is 1. The value can vary from 1 to 10. Be careful when using higher values, processing time can forcibly increase.
- Symmetric weight threshold: group legal links having a value below this threshold are ignored when the graph is generated
- Maximum number of nodes to fetch: when the data are fetched, they are sorted on the descending symmetric weight. Modifying this value alters how much records are kept in this selection. The value can vary from 20 to 200.

7.2.2 Specific options

7.2.2.1 Navigation and navigation history

When double-clicking on a group, the view will re-center itself on the selected group. This gives the ability to slide the view from one point to another without leaving the window. In parallel to this navigation, the graph keeps a history of the different entry points.





Using the back / forward arrows or the history list allows you to quickly go back to a previous view.

7.2.2.2 Hiding elements

To facilitate the user's work, this graph gives the possibility to remove groups from the view by selecting them and pressing the delete (*Del*) key.



Once some groups have been hidden, the eye \mathfrak{T} icon on the toolbar becomes enabled, indicating some hidden nodes can be shown on the graph. By clicking on this button, hidden groups will reappear in the window.

7.3 Affinity graph

The affinity graph displays the relationships between people through companies. This graph is based on a first node selection through the Affinity relation, to select all related people for a given person. Once this selection is done, it includes all common related companies.

For more explanation about affinities, please refer to chapter 4.6.3

In the end, the graph displays persons, companies, and the links between them.





7.3.1 Customization

Customization options are available by clicking on the tools (\times) button on the bottom toolbar.



Graph depth

The depth can be changed between one link (depth = 1) or two links (depth = 2). The default value is one link.

Activate legal links

Activating legal links means the *indirect affinities* are taken into account in the selection phase. When disabled, only *direct affinities* are used. By default, legal links are activated.

Direct affinities correspond to person \rightarrow company \rightarrow person path, as indirect affinities correspond to person \rightarrow company \rightarrow company \rightarrow person path.

Show active functions

When this option is enabled, the graph won't include the links with *previous* functions. Only *current* functions will be used. This option is enabled by default.

Max. people nodes



In order to limit the graph size, only a "top strongest affinities" are used in the selection process. This option makes the top selection vary to include more or less people in the graph. The value can vary from 10 to 100. The default value is 40.

7.3.2 Specific options

7.3.2.1 Hiding elements

Hiding elements works identically as in the *group map*.

7.4 Local view

The local view displays centered graph on a given company, using the legal links network. The view depth can be adapted using the graph customization parameters. However, the application provides a *"closed"* and a *"deep"* local view, with different presets.



"Closed" and "deep" local views differ by their initial parameters:

	Closed view	Deep view
Depth	2	3
Max. nodes	100	300

7.4.1 Customization

Options are available by clicking on the tool (\times) button in the bottom toolbar.



Parameters	
Graph depth	2 🔻
Max. number of nodes	100 🌲
×	

The local view parameters are the graph depth (i.e. the number of neighborhood levels taken from the entry point) and the number of neighbor nodes to display on screen.

7.4.2 Specific options

7.4.2.1 Overview

Clicking on the "how/hide overview" button (≜) shows or hides a graph overview panel that can be used to quickly navigate into different areas of a big graph.



The blue rectangle represents the main view in the whole graph. It can be moved/redrawn using the mouse. The overview rectangle can also be resized by dragging its borders.

7.4.2.2 Navigation and navigation history

When double-clicking on a company, a new local view will be displayed with the current parameters, using the selected company as center. This gives the ability to slide the view from one point to another without leaving the window. In parallel to this navigation, the graph keeps a history of the different entry points.





Using the back / forward arrows or the history list allows you to go quickly go back to a previous view.

7.4.2.3 Highlighting

The node and edge highlighting mechanism gives the ability to locate nodes or edges having particular behaviors in the graph, by spotting them. This option is available through the bulb icon from the toolbar.

.	Node highlighting	•	Company	N
3	Edge highlighting			νč
•	Search:		< (⊟ -	>

First select the entity or relation you want to use for highlighting. You'll get a dedicated form to enter your highlighting criteria. Multiple criteria can be built manually by selecting properties, operators and values. The multiple criteria are always combined using a *AND* operator.

ELGIUM 💟 💽 🗶 🔶
•

This form works exactly as the expert search or post-filtering system. For more details about making a selection, please refer to the chapter 12.1.1 of this manual.

Once the Apply button has been clicked, all elements corresponding to the filter are highlighted in the graph:

- For entities, red circles appear around the matches
- For relations, edges are colored in red.

If you go back to the highlight menu, you will see that the current selection for the item you picked is displayed in clear text.

Nodes and edges highlights





Active highlight filters from the toolbar button

👰 🛛 Node highlighting	•	Company (BvD Size Within ME - Medium, SM - Small and Country Within BELGIUM)
Edge highlighting	•	
😨 🔽 Search:		
Provide Node highlighting	•	herelements
💡 Edge highlighting	•	🙁 Legal link 🕨 🍸 Total participation >= 25
😨 🔽 Search:		

To change a highlight filter, click on the filter expression, the highlight filter dialog will re-open with the currently defined criteria. To reset a highlight filter, click on the filter expression, then follow these steps

lter Companies		
BvD Size	Within	- ME - Medium; SM - 🔽 💽 🔀
Country	Within	BELGIUM
•	III	,

- In the highlight filter dialog, click on the *Reset* button to reinitialize the filters
- Click on the *Apply* button to confirm the operation.

The highlighting will disappear from the graph.



7.5 Surroundings graph

The surroundings graph is based on the same principle as the local view, but uses a "path definition" instead of one relation type and a depth. The path definition consists in a list of connected relations which define which items will be shown in the graph.



7.5.1 Path definitions

Path definitions explain how the relations are bound together to produce the corresponding graph.

Entity type	Surroundings path	
Project	Beneficiary $ ightarrow$ Beneficiary + Legal link $ ightarrow$ Private	
Company	Beneficiary \rightarrow Beneficiary \rightarrow Private	

For projects, here's the way the definition works:

- Starting from a project, the graph takes first all related companies from the **Beneficiary** relation.
- From these companies, the graph then takes all their related projects using the *Beneficiary* relation, <u>and</u> all related companies using the *Legal link* relation.
- Finally, based on this result, the graph takes all related persons through the *Private* relation (thus all persons linked to companies).

7.5.2 Customization

In order to extend the view, customization parameters allow adding multiple additional relations as a fourth path element.



Parameters	
Append neighbors	
Legal link	
Membership Private link	
Contract request Contract execution Related company	
Involvement	
×	~

The parameters dialog lists available relation types that can be selected to enrich the graph. You can select one or more additional relations based on the initial graph content. Items can be selected using SHIFT+click or CTRL+click. The operation is validated by clicking on the \checkmark button.

Warning: this operation can take a lot of process time or even hang the application, particularly when adding affinity links on graphs containing already a lot of persons.



7.5.3 Specific options

The specific options are identical to the local view graph (chapter 7.4.2). Note that the history will only contain different version of the graph each time you modify its customization parameters, as there is no navigation in this type of graph.

7.6 Paths graph

Paths graph is only available from specific alert details - in the reputation and fraud alert category:

- Links between beneficiaries/project partners
- Links between beneficiaries/project partners and contractors/suppliers
- Links between beneficiaries/project partners and sub-contractors
- Links between contractors/suppliers
- Links between contractors/suppliers and sub-contractors



The graph displays an identified shortest path between two given entities, and some extra information covering the links between found elements. In addition, the graph can be manually enriched with extra entities and relations if needed.

Path graphs are only available through specific alert details, using the "Path" links when available.





In this screenshot based on the "*Links between contractors/suppliers*", we can see there are relationships between different contractors (companies) related to the selected project.

7.6.1 Customization

The customization works the same way as the surrounding graphs, giving you the ability to add one more relation level to the graph, using multiple relation types.

7.6.2 Specific options

The specific options are identical to the local view graph (chapter 7.4.2). Note that the history will only contain different version of the graph each time you modify its customization parameters, as there is no navigation in this type of graph.



7.7 Common graph options

For all, or some of graph windows, there are common available options

	Save as image	Save as vector image	Zoom	KPI coloring	Quick search	Highlighting
Hierarchical graph	Yes	Yes	Yes	Yes	Yes	No
Group map	Yes	No	Yes	Yes	Yes	No
Affinity graph	Yes	No	Yes	Yes	Yes	No
Local view	Yes	No	Yes	Yes	Yes	Yes
Surroundings graph	Yes	No	Yes	Yes	Yes	Yes
Paths graph	Yes	No	Yes	Yes	Yes	Yes

7.7.1 Save as image

The $\frac{1}{2}$ button saves the graph, with its legend if displayed, as a bitmap image. The graph can be saved in JPEG, PNG or BMP format by selecting the file format when saving it.

This is a convenient tool to include graphs in other documents or to print them.

7.7.2 Save as vector image

The $\frac{1}{2}$ button saves the graph in vector format (SVG). Vector formats have the advantage that they can be scaled from very tiny to very large prints without quality loss.

7.7.3 Zoom

The zoom options may appear differently in the graphs but have the same behavior: it allows zooming in, zooming out, going back to 1:1 scale or fitting the graph to the window.

Zoom option in hierarchical graph, group map and affinity graph.

Zoom option in local view, surroundings view and path graph.





The graph can also be zoomed in and out by pressing the CTRL key and rolling the mouse wheel.

7.7.4 Coloring

The coloring options allow you to select some typical properties and use them as a coloring option inside the graph. Depending on the underlying data type, the graph will use either a scale gradient coloring or a palette coloring.



7.7.4.1 Palette colors

When you select a field containing multiple distinct values (strings, enumerations), the application will use an automatic palette generation according to the distinct values. The base colors can be customized through the application settings (See chapter 11.2)



7.7.4.2 Gradient colors

Gradient colors are used when the selected property contains a *normalizable* value (i.e. a data type having a well-defined range of values). Typical fields corresponding to these normalized values are alerts! In that case, the application uses the same gradient system as the LEDs in the dashboards.







7.7.4.3 Selecting an indicator

Selecting an indicator is done through the 🎽 icon.

The available indicators may differ from one graph to another as they are directly related to the underlying entities. This means that the available properties depend on the kind of entity (company, project, contract) rather than the graph shown.

Available indicators

For projects	For companies	For contracts
For projects Image: Overall Score Image: Overall Score <	Image: Second system Image: Second system	For contracts There are actually no available indicators for the contracts. For groups Investment Gp Most represented country Ultimate owner country Companies count Countries count Group depth Legal links count
	In a group In a group Image: Linked to another group Image: VPI Bankruptcy score (1-20) Image: VPI Bankruptcy rating (A-F) Image: VPI P2B Sold (Top 20%)	

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8 Reports

The Arachne reports come in two flavors: the interactive version, inside the application, summarizes the information but still allows navigation and other features, and the printable version which can be exported or printed directly.

Interactive version			Printable version					
F_Signaletica	ERESKEDELMI É	S SZOLGÁLTATÓ KO		× × SÉGU T		FAKE-Proj	ect-ExtProv	
tique impany name	HU12274699 VERICE	(AR) VAT Number (AR) Name	12274699-2-13 Csattopó-völgvi		europa.eu			
)pe	m_EntityType_3	(AR) Type			Beneficiar	rv:	VADIS CON	SULTING
Neighborhood						-	roject Information	
letated projects					Project ident		Name	FAKE-Project-ExtProv
Beneficiary - Name (pe	neric) Benef turnover	Reseliciary - Project ident	Repeticiany - Name	Beneficiar	i lojeoridene			
		belenvery - mojectiven.	cerercary - name	berenta	Memberstate	(Faux pays)	Managing Authority	Ministerie 11
 Centrum Térségi Integrélt Szekkép 	zo Közport liitrah	T/MOP-2.2.3-07/1-2F-2008-0002 Centrum	Térségi Integrált Szakképzo Közport lébel	b 1/11/2008				
	an Közport létrek	TÁNOP-2.2.3-07/1-2F-2006-0002 Centrum	Társági Integrált Szakkápzo Közport lébel	a 1/11/2008	Operating program	FAKE-TEST		
	zo Közport Hitreh	7.660P-2.2.3-07/1-2F-2008-0002 Centrum	Térségi Integréti Szekképzo Közport létvel	A 1/11/0200			(CM) Revised	1
Centrum Térningi Hengrik Sasihing	en Körport Hireh	TÁNOP 2 2 5071-27-2005-0002 Centrum	Térségi Integrél Szekkégzo Közport lébel	* 011/2008	program Overall Score			2013-04-30
Centrum Térségi Integréit Szekkép Summary			Tånskig integräft Stadhågen Körport länst	* 0110000	program Overall Score Start date	38	score	
Centrer Térségi Integrél Szelkép sutency n_lience n_l	1	Nacoline infe elerte	Tändy Haydi Sadhiges Kayort länd id data (soval)	*	program Overall Score Start date	38 2011-12-01 Closed	End date Cost E.C. Fin.	2013-04-30
Centrum Terringi Hargridt Socialisis xt xts sourcescy m_Niteme m_Niteme Charge alerts (normal) Final call alerts (normal) Final call alerts (normal) Thappeter in the sourcescy	1	Nacoline infe elerte		*	program Oversill Score Start date Status Other contrib.	38 2011-12-01 Closed	Score End date Cost E.C. Fin. assistance Future add.	2013-04-30 50.00
Centrum Térségi Integrét Drakkée (E) Centrum Térségi Integrét Drakkée (E) Centrum Térségi Integrét (E) Centrum Térsé		Supplies info alerts (Investi)		*	program Overall Score Start date Status Other contrib. Personnel	38 2011-12-01 Closed 0.00 15	End date Cost E.C. Fin, assistance Future add. personnel	2013-04-30 50.00 100.00 39
Cartors Térégi Istayia Toolohya Cartors Térégi Istayia Toolohya Toolaya Istayia Toolohya Toolaya Istayia Toolahya Paracial Istayia Paracial Istayia Toolahya Paracial Istayia Toolahya Paracial Istayia Toolahya Paracial Istayia Paracial Paraci		Supplies info alerts (Investi)	ial elens (svenst)	*	program Overall Score Start date Status Other contrib. Personnel	38 2011-12-01 Closed 0.00	Score End date Cost E.C. Fin. assistance Future add.	2013-04-30 50.00 100.00
Centure Tanking Margel R Tranking Total Same and		Supplies info alerts (Investi)	oit shere (soveral)	x 110006	program Overall Score Start date Status Other contrib. Personnel Actual add. personnel	38 2011-12-01 Closed 0.00 15	End date End date Cost E.C. Fin. assistance Future add. personnel Benef. Lumover	2013-04-30 50.00 100.00 39

Interactive reports are available on different entities and in different formats. Each report will be described later in this chapter.

8.1 Interactive report

The interactive report cannot be printed but contains interactive features and graphs concerning a selected project, contract or company. Each report is divided into multiple information zones that can be collapsed or expanded.

As each interactive report contains the same section, each section will be described for the project report only and the other reports will just have a brief description of their content.

8.1.1 Project interactive report

Each report is constituted by different sections that can be expanded or collapsed using the small arrow on the top right of the section title.

Case management

The project interactive report contains the following sections:

Case management and general information



Interactive report: FAKE-Project-link-subContractor

FAKE-Project-link-subContractor

Case status -	Case sub-status	-	New case	
General information				
Project ident.	FDVC.001	Name	FAKE-Project-link-subContractor	
D.G.	-	Member state	(Fake country)	
Managing Authority	Ministerie 3	Op. program ident.	9999XA999XX001	
Overall Score	9	(CM) Revised score	-	
Project type	Road	Project income	7,873.00	
Start date	-	End date	-	
Status	Closed	Cost	45,378.00	
Other contrib.	0.00	E.C. Fin. assistance	991,615.18	
Personnel	11	Add. personnel as agreed	3	
Actual add. personnel	5	Benef. tumover	45,345,347.00	
Additional tumover	63,769.39	Actual add. tumover	97,494.00	
Beneficiary type	Private			

The case management section is visible only for users having rights to access it.

Neighborhood

The neighborhood contains multiple tables listing elements related to the project: beneficiaries, contractors, sub-contractors, project partners, contracts and involvements.

Alerts summary

This section gives the categorical alert values as a radar chart, and the complete alert tree.



Alerts summary



The graph part is not interactive; it is only used to display the categorical alerts in a graphical way. However, all alert values, details and other information are available on the alert tree part, in the same way as on the dashboard functions.

	Name	Value	Description	ŕ
Ŧ	Overall Score	9	Overall Score	
	(CM) Revised score	•	Revised overall score, as set in the case management system	=
Ŧ	Procurement Overall Score	26	Procurement Overall Score	
⊡	Contract Management Overall Score	25	Contract Management Overall Score	
	Contract addenda cost vs project	• 0	Contract addenda cost vs project cost	
	Contract addenda cost vs contract	• 10	Contract addenda cost vs contracted amount	
	Difference final contract end date	○ 5	Difference final contract end date and initial contract end date	
	Number of consortium partners	•	Number of consortium partners	
	Contract modifications	•	Contract modifications	

Right-clicking on individual alerts will give you the alert details popup, as described in the dashboard chapter (5).

)	Ratio of EC financial assistance vs total project cost	
)	Ratio of EC financial assistance vs total project cost	
	Values	
	Alert	Value
	Ratio EC assistance and project cost	246.84
	Average ratio value in the peer group	121.18
A.	EC financial assistance	313,959.25
. 0	Total project cost	1,271.92


8.1.2 Contract interactive report

Case management and general information

This section is similar to the project report but with contract information.

Interactive report: Contract32

Contract32	
00/10/00/02	

Case management				
Case status -	Case sub-status	-		New case
General information				^
Contract ident.	Contract32			
Name	Contract 32	Description	blabla	
Amount	126,497.14	Signature date	2009-03-01	
Source	Fake	End date (initial)	2010-08-31	
Nb. contract addenda	4	End date (effective)	2010-12-29	
Subcontract	No			
Key expert	-	Addenda cost	39,497.14	
Contract type	-	Beneficiary type	Public	
Project type	Rail	Project status	Closed	
Contract modifications	-	Procurement proc.	NegotiatedProcedure	
Member state	(Fake country)			

Neighborhood section

This section contains the following elements: requestors, contractors, sub-contractors, consortium members and sub-contracts.

Nei	ghborhood								-
R	equestors Contractors Sub	-contractors Consortium	members Sub-contra	acts					
	, Requestor - Name (generic)	Requestor - Project ident.	Requestor - Name	Requestor - Cost	Requestor - (CM Revised score	Requestor - Overall Score	Requestor - Procurement Overall Score	Requestor - Contract Management Overall Score	Requestor - Eligibility Overall Score
	FAKE-Project-020/08	FDVC.01.02.00-00-020/08	FAKE-Project-020/08	64.959.590,00	0 -	19	0 26	25	0
	I	III]					×

Alerts summary

This section is similar to the project report but with contract alerts. Note that by definition there are less alert categories computed on the contract level. Here also, the alert details can be displayed by right-clicking on individual alerts.

Alerts summary



Name	Value	Description
Overall Alert	18	Overall Alert
(CM) Revised score	\odot	Revised overall score, as set in the case management system
Procurement Overall Score	26	ProcurementOverall Score
Contract Management Overall Score	25	Contract Management Overall Score
Eligibility Overall Score	• 0	Eligibility Overall Score
Concentration Overall Score	33	Concentration Overall Score
Reputational Fraud Alerts Overall Score	6	Reputational Fraud Alerts Overall Score

8.1.3 Beneficiary and contractor interactive reports

General information

This section differs from project and contract reports:

- It doesn't contain any case management references as companies are not part of the case management system
- The general information section is followed by two additional sections:
 - \circ $\;$ The Orbis address gives the address as present in the external data.
 - The financial information gives the last balance sheet information available in the external database of Orbis.



B Interactive report: THYMOS, spol. s.r.o.

THYMOS, spol. s.r.o.

General information

Company name	THYMOS, S.R.O.	Company name (E.C.)	THYMOS, spol. s.r.o.
Unique identification number	SK31672914	VAT Number (E.C.)	SK2020515772
Туре	C - Industrial companies	E.C. Type	Private
Total grants amount	0.00		
Address (E.C.)	Popradská 518		
Post code (E.C.)	05952	City (E.C.)	Veľká Lomnica
		Country (E.C.)	SLOVAKIA
Orbis address			•
Address	Popradska 518		
Zip code	05952	Company city	VELKA LOMNICA
		Country	SLOVAKIA
Financial information			•
Effective Year	2012		
Total assets (k€)	9,316.00	Operating revenue (k€)	15,574.00
Cash flow (k€)	402.00	Ebitda (k€)	547.00
Number of employees	-	Profit(loss)for the period (k€)	132.00
VPI P2B Bankruptcy	16		

Neighborhood

The neighborhood section contains the following information:

• For beneficiaries: related projects.

```
Neighborhood
```

Project - Name (generic)	Benef. turnover	Past fin. corr.	Project - Project ident.	Project - Name	Project - Start date	Project - End date
FAKE-Project-031/10	493.516.992,81		FDVC.01.01.00-00-031/10	FAKE-Project-031/10	2010-11-01	2013-08-31
FAKE-Project-032/10	493.516.992,81		FDVC.01.01.00-00-032/10	FAKE-Project-032/10	2011-01-01	2012-04-30
FAKE-Project-001/08	493.516.992,81		FDVC.01.02.00-00-001/08	FAKE-Project-001/08	2008-10-01	2011-12-31
FAKE-Project-002/08	493.516.992,81		FDVC.01.02.00-00-002/08	FAKE-Project-002/08	2008-11-03	2009-09-30
FAKE-Project-003/09	493.516.992,81		FDVC.01.02.00-00-003/09	FAKE-Project-003/09	2009-02-01	2014-01-31
FAKE-Project-004/09	493.516.992,81		FDVC.01.02.00-00-004/09	FAKE-Project-004/09	2009-01-01	2014-04-30
FAKE-Project-005/09	493.516.992.81		FDVC.01.02.00-00-005/09	EALKE Desired 005/00	2000.07.01	2013-12-31

• For contractors: related projects, related contracts, related executors.

	Project - Name (generic)	Benef. turnover	Past fin. corr.	Project - Project ident.	Project - Name	Project - Start date	Project - End
FAKE-Project-link-subContractor - FDVC.001 FAKE-Project-link-subContractor -		-	-				

Alerts summary

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The alerts summary will contain respectively categorized alert radar chart and tree specific to beneficiaries or contractors depending on the report.

Note that, as there is no details for beneficiary and contractor alerts, right-clicking on them will display a "*No alert information available*" popup. This is due to the fact that alerts computed at the beneficiary or contractor level are aggregated values based on related projects.

8.2 Printable report

The printable report summarizes all information concerning a given entity in a printable format.



Beneficia	ry:	VADIS CON	VADIS CONSULTING						
	P	roject Information							
Project ident.	FDVC.017	Name	FAKE-Project-ExtProv						
Memberstate	(Faux pays)	Managing Authority	Ministerie 11						
Operating program	FAKE-TEST								
Overall Score	38	(CM) Revised score	1						
Start date	2011-12-01	End date	2013-04-30						
Status	Closed	Cost	50.00						
Other contrib.	0.00	E.C.Fin. assistance	100.00						
Personnel	15	Future add. personnel	39						
Actualadd. Dersonnel	37	Benef. turnover	100.00						
Additional urnover	53,773.39	Actualadd. turnover	101,807.00						
Beneficiary type	Private	Add. personnelas agreed	37						

This report window acts like a standard document preview window. From this window, the user can print or export the result to different file formats.

Using the 🕮 button switches the presentation to the page view mode.

Using the zoom combo box $^{84\%}$ allows to see multiple pages on screen.

100	FAKE-Droi	ect-ExtProv		∆lert	Value
europa.ev	TARE-TO	COLLANITO		(CM) Revised score	-/50
Beneficiar	ry:	VADIS CONS	ULTING	Overall Boore	38/50
	P	rolect information		Overall score (Q-1)	-/50
rojectident	FDVC.017	Name	FAKE-Project-ExtProv	Overall score (Q-2)	-/50
lemberstate	(Faux pays)		Ministere 11	Overall score (Q-8)	-/50
perating	FAKE-TEST	Authory		Procurement Overall Score	30/50
rogram				Lead time between publication and contract signature	3/10
Verall Score	38	(CM) Revised		Percentage disgualified tender offers vs received	3/10
tart date	2011-12-01	End date	2013-04-30	Number of valid tenderers	1/10
tatus	Closed	Cost	50.00	Contracted amounts via closed tenders vs project cost	10/10
				Number of contract addenda compared to sector average	5/10
thercontrib.	0.00	E.C. Fin. assistance	100.00	Financial correction	-/10
ersonnel	15	Future add. personnel	39	Contract Management Overall Score	50/50
	37	Benet	100.00	Contract addenda cost vs project cost	10/10
ersonnel	62 772 29	tumover Actual add	101 807 00	Contract addenda cost vs contracted amount	10/10
mover		tumover		Difference final contract end date and initial contract end date	-/10
eneficiay /pe	Private	Add. personnel as	37	Number of consortium pertners	5/10
		agreed		Contract modifications	-/10
				Key experts change	-/10
				Key experts linked to multiple projects	-/10
				High percentage of cost allocations within the last 60 days	-/10
				Contracted amount vs annual tumover of the contractor	0/10
				External service provider	10/10
				Eligibility Overall Score	-/50
				Project costs outside eligibility period - before start date	-/10
				Project costs outside eligibility period - after end date	-/10
				Difference between invoice and payment dates	-/10

8.2.1.1 Printing results

The report can be printed using the print ($\stackrel{\frown}{=}$) button.

8.2.1.2 Exporting results

Using the disk icon (\square) gives the user the ability to export in various formats.



Supported formats:

Acrobat (PDF) file	<image/>
Excel 97-2003	<image/>
Rich Text Format	Image: series the report as an Excel document Image: series the report as an Excel document Image: series the report in RTF (Rich Text Format), a multiple word cossors compatibility format. Image: series the report in RTF (Rich Text Format), a multiple word cossors compatibility format. Image: series the report in multi-image TIFF format (.tif). Image: series the report in MIME HTML format, also called Web Archive mat. This format is compatible with most common web browsers.
TIFF File	Generates the report in multi-image TIFF format (.tif).
Web Archive	Generates the report in MIME HTML format, also called Web Archive format. This format is compatible with most common web browsers.
XPS Document	Generates the report in Microsoft's "Electronic Paper Format" (XPS) which is very similar to the PDF format, but designed by Microsoft.



9 Case management

The case management was designed to assist the user of the Arachne tool in managing the proper follow-up of projects or contracts that require additional review.

9.1.1 Case management user roles

Each Arachne user account will be assigned one of the following user roles with regards to the case management module:

- Guest: he can see cases, but cannot change anything except comments;
- Follower: he can add additional information to the cases that are assigned to him; he can
 propose a case status change. He cannot assign cases to specific users nor approve other
 case status changes;
- **Supervisor**: he must (re-)assign the cases to specific users (user with a Follower role), and he can accept or decline case status change proposals.

Roles are assigned by local administrators on user account creation.

Some users may not access the case management module depending on how their account has been created.

The following table explains which user role has which access to the case management functions.

	Guest	Follower	Supervisor Yes Yes Yes Yes
Create new cases	Yes	Yes	Yes
Assign cases	No	No	Yes
Change case status	No	Yes	Yes
Close cases	No	No	Yes
Add comments	Yes	Yes	Yes
Display case information	Yes	Yes	Yes

9.1.2 Case management data isolation

Case management data isolation works in a similar way as internal data isolation: users belonging to a given user group (DG, MA or OP) will have only access and make changes to the cases of their group.

In terms of inheritance, top groups can access cases of bottom groups but cannot make changed on them. This means a user from a managing authority can access cases opened at the operational levels, but cannot do any modification on them.



9.1.3 Case lifecycle diagram



9.1.4 How to access the case management module

The case management module can be accessed either from the application menu or the task pane.



9.1.5 Case Management welcome screen

 Opened 1 Ongoing 1 Project 25,33 0 1 0 Project 25,33 0 0 1 0 Project 2 0 0<th></th><th></th><th>C</th><th>ase status</th><th></th><th></th><th>Count</th><th></th><th>Case type</th><th>Col</th><th>unt /</th><th>Average</th><th>Average r</th><th>Un</th><th>O</th><th>O</th><th>CI</th><th>•</th>			C	ase status			Count		Case type	Col	unt /	Average	Average r	Un	O	O	CI	•
Closed 1 Top 10 oldest outstanding cases Users having most outstanding cases Id. (numeric) Case title Case status Creation date 241 Case created by Ongoing 19/09/2013 15 * RO OP Follower 2	l Cases	•	Opened			1		•	Project	3	1	25,33	-	0	1	1	0	1
Top 10 oldest outstanding cases Users having most outstanding cases Id. (numeric) Case title Case status Creation date User Outstanding cases count 241 Case created by Ongoing 19/09/2013 15 * RO OP Follower 2	-		Ongoing															
Id. (numeric) Case title Case status Creation date User Outstanding cases count 241 Case created by Ongoing 19/09/2013 15 * RO OP Follower 2			Closed			1												
Id. (numeric) Case title Case status Creation date User Outstanding cases count 241 Case created by Ongoing 19/09/2013 15 * RO OP Follower 2																		
Id. (numeric) Case status Creation date User Outstanding cases count 241 Case created by Ongoing 19/09/2013 15 + RO OP Follower 2	1	То	op 10 oldest o	outstanding o	ases			L	lsers having	g mo	ost o	utstan	ding cas	ses				
	Closed Top 10 oldest outstanding case Id. (numeric) Case title Case reated by Ong	Cas	se status			User			C	Dutstanding	cases	cour	nt					
245 case ro 3 Opened 24/09/2013 15		+	241	Case created by	Ongoir	ng	19/09/2013 15:	•	RO OP Followe	r	2							
			245	case ro 3	Opene	d	24/09/2013 15:											

Internal case management options are shown on the left bar:

- Welcome screen button leads to this screen
- Unassigned cases displays the cases list with a predefined focus on unassigned cases
- Cases list gives the fully customizable cases list screen
- Filter cases enables filtering options when the cases list is displayed.



The welcome screen of the case management is the starting point to navigate the case management. There are two main functionalities in this screen:

- General overview: This part of the welcome screen lists general information regarding the number of projects or contracts that have been assigned to a user for review and their status.
- Reports: Using the report buttons the user is able to create/open several types of reports:
 - Number of cases by status
 - Average throughput time
 - Cases assignments
 - Closing cases
 - o Open cases
 - o Cases age

9.1.6 Cases list screen

The cases list screen consists of two main parts, the overview pane and the filtering pane. This screen is displayed when clicking on either *Unassigned cases* or *Cases list* buttons on the left.

	/	Id.	Case title	Target ty	Target name	Amount	*OverallAlertSc	Status	Sub-sta	Creati	Follow
ntity type	+	1	Case #546889	Project	Участие в годишна конфе	7,764.27	23	🛅 Opened	None	4/10/	
any)	•	1	Case #546716	Project	Създаване на условия за	500,179.00	10	Ongoing 🏠	None	4/10/	
itatus		2	Case #546712	Project	Създаване на условия за	500,179.00	10	🗎 Opened	None	4/10/	
losed	•	2	Investigation	Project	Szkolenie dla strażaków oc	49,982.50	4	🔄 Closing	Revised	5/10/	
evised	•	2	Case #546744	Project	Цел на проекта: Поетапн	5,611,773.00	24	🗎 Opened	None	8/10/	
reation date		2	Case #545252	Project	1. Реконструкция и разш	48,069,310.00	25	👔 Unassig	None	8/10/	
rom		3	b 456123835	Project	Опазване и възстановява	736,158.00	8	🗎 Opened	None	31/1	
lo date selected	-	3	Case #383838	Contract	<null></null>	0.00	11	🗎 Opened	None	9/11/	
<u> </u>	-	4	new case for Cont	Contract	<null></null>	0.00	8	🚖 Opened	None	13/1	
No date selected		4	case test	Contract	Contract45	15,871.71	17	👔 Unassig	None	20/1	
ssignment date om		5	Case #000000000	Project	Dél - Nyírségi Szennyvízelv	0.00	17	👔 Unassig	None	13/1	Admin
No date selected	•	5	Test case 02	Project	Érd és térsége szennyvíztis	0.00	10	👔 Unassig	None	13/1	
0		5	Test case 04	Project	Települési szennyvíztisztító	0.00	11	👔 Unassig	None	13/1	
lo date selected	•	5	Test case LM 001	Project	Képzési program lebonyolí	0.00	44	Dpened	None	16/0	
iroups		5	Test Case LM 002	Project	Az SAP Business One rend	0.00	43	📋 Opened	None	16/0	Admin
ny)	-	6	New Test Case LM	Project	Oktatási esélyegyenloség	1,647,000,00	19	👔 Unassig	None	18/0	
llower	-	6	Test de cas	Project	Új modern eszközök besze	0.00	45	👔 Unassig	None	23/0	
any)	<u> </u>			-							

9.1.6.1 Cases list pane

All open cases are displayed with their type (contract or project), name, status, assigned user (Follower), project/contract amount, creation date, using a paging of 20 cases/page. By default projects are sorted on creation date with the oldest cases on top. However cases can be sorted on each column. Cases can be displayed using the paging buttons on the bottom toolbar attached to the list. Double-clicking on a single case will open the corresponding case details screen.

9.1.6.2 Filtering pane

This part of the screen allows the user to filter on various parameters. It's only visible by clicking on the *Filter cases* button on the left.



ld. (numeric)	Fo
0	
My cases (assigned to me)	
Case type	
(any) 👻	
Case status	
(any not closed)	
Creation date	
From	
No date selected	
То	
No date selected	
Assignment date From	
No date selected	
То	
No date selected	
Group (MS, MA, OP)	
(any)	
Follower	
(any)	
Case target name	
	I

Following criteria may be used:

- Case identifier
- Cases assigned to the current user
- Case type
- Case status
- Case creation date, in a date/time interval (from to)
- Case assignment date, in a date/time interval (from to)
- User group
- Follower
- Target name (name of the entity concerned by the case)

9.1.7 Cases details screen

The case details screen displays the complete information about one single case. It is accessed by double-clicking on a case or in the case list or asking the case details on a project or contract using the context menus.

case title	Case 001	ſ	Description							
Case type	Project		Please investigate this	project in detail.						
Case name	FAKE-Project-013/08									
Amount involved	21,392,050.00									
Case status	👔 Unassigned 🛛 🝷 🖊	Case inforn	nation							
Assigned to	<not assigned="" yet=""></not>									
Supervisor	Roottest2 Roottest2									
Creation date	01/10/2013 18:05									
Created by	Test User Arachne									
ast update	01/10/2013 18:05									
Timeline	Case Changes	Case Assignme	ent Changes	Add comment						
Comments										
User	Co	mment	Document URL	Date						
Add comment Case details										
<add here="" url=""></add>					4					
<add comments="" he<="" th=""><th>re></th><th></th><th></th><th></th><th>*</th></add>	re>				*					
Add comment]									

The screen is split in two parts:

- The case information part displaying:
 - Case title and description



- The case's related entity type and name
- The amount involved in the entity
- o The current case status and sub-status
- The assignee
- \circ The supervisor
- o The case creation date and creator name
- The date of the last update (last comment or change on the case)
- The case details tab panel containing:
 - o The timeline values for the entity
 - The case changes tracking
 - The case assignment changes
 - o The case comments

9.1.7.1 Case information

Case title	Case 001	Description
Case type	Project	Please investigate this project in detail.
Case name	FAKE-Project-013/08	
Amount involved	21,392,050.00	
Case status	👔 Unassigned 👻 🖌	
Assigned to	<not assigned="" yet=""></not>	
Supervisor	Roottest2 Roottest2	
Creation date	01/10/2013 18:05	
Created by	Test User Arachne	
Last update	01/10/2013 18:05	

9.1.7.2 Timeline tab

Ti	meline		Case	e Changes		Case Assi	ignme	ent Change	s		Add	commen	t		
	Status time Ii	(CM) Revised	0	verall Score	Procurement	Contract Ma	Eligi	oility Ov	Performance	Co	oncentratio	Other O	veral	Reputationa	al
	Initial state	0	- 🔾	15	· -	0	•	16	• -	0	30	•	5	0	28
+	Current state	0	- 🔾	16	o -	O	0	16	o -	0	30	•	5	0	31

The timeline tab displays the differences between the entity alert when the case was created and the current entity alerts. Differences may appear for old cases when data have been refreshed – some old alert values may become inaccurate, making the case to be "*resolved*" itself.

9.1.7.3 Case changes tab

Tir	meline	Case Changes	Case Assignment Changes	Add comment					
C	Case Changes								
	User	Case status	Case sub-status	Date					
+	RO OP Supervisor	🗃 Opened	None	20/09/2013 10:52:01					

This tab lists the different status changes which occurred on the case, with the user and change date.



9.1.7.4 Case assignment changes tab

Tin	imeline Case Changes Ca		Case Assignment Changes		Add comment
Case Assignment Changes					
	User	Date			Assigned to
+	RO OP Supervisor	20/09/2013 10:52:01		RO OP Follower	
	RO OP Supervisor	20/09/2013 10:52:23		RO OP Follower	
	RO OP Supervisor	20/09/2013 10:53:06		RO OP Follower	

This tab lists the different case assignment changes.

9.1.7.5 Add comment tab

Timeline Case Changes		Case Changes	Case Assignment Changes		Add comment					
С	ommen	ts								
	User	Comment	Document URL		Date					
+	RO OP	I can comment on a case as a follower		19/09/2013 16:	16:39	Ē				
	RO OP	I want to make a comment on two lines This should be on line 2 Line 3 here	http://www. google.com/	19/09/2013 16:	17:34	•				
A	Add comment									
</td <td>Add URL h</td> <td>:re></td> <td></td> <td></td> <td></td> <td>* *</td>	Add URL h	:re>				* *				
</td <td colspan="7"><add comments="" here=""></add></td>	<add comments="" here=""></add>									
	Add comment									

This last tab lists the different comments made on the case and offers the ability to add new comments. A comment is made of a text and an optional URL. The URL can contain any reference to a document on the internet or shared network.

9.1.8 Creating a case

The user can create a new case in several ways

- From the project or contract dashboards or mini-dashboards from the welcome window using the right click menu option "Create new case



- From a detailed screen relating to a project or contract by selecting the "New case" button



Regardless of the starting point the following case creation screen is displayed:

Case: FAKE-Proj	ect-011/08
Case title	<title field="" is="" required=""></th></tr><tr><td>Case type</td><td>Project</td></tr><tr><td>Case target name</td><td>FAKE-Project-011/08</td></tr><tr><td>Supervisor</td><td>Roottest2 Roottest2</td></tr><tr><td>Follower</td><td>Unassigned 💌</td></tr><tr><td>Case status</td><td>😰 unassigned 🛛 👻</td></tr><tr><th>Description</th><th><Description field is required></th></tr><tr><th></th><th>Remaining characters: 3000</th></tr><tr><td>Add case</td><td>Cancel</td></tr></tbody></table></title>

The case name (project or contract name), the case type (Project and Contract) and the supervisor (the user that creates the case) are entered automatically. The user can provide a title for the case, assign a specific user (only available when the current user is a supervisor) that is responsible for the follow up and change the case status (only available when the current user is a supervisor). A description text box is foreseen to provide specific instructions for the reviewer.

Once the case creation is complete the case will appear in the case overview screen.

9.1.9 Updating a case

Reviewing cases can be done only by followers or supervisors. When opening the case details screen, case status and sub-status can be changed.

	Case title	Test case demo (Vadis)
	Case type	Project
	Case target name	FAKE-Project-003/08
	Amount involved	35.900.080.00
<	Case status	🔁 Opened 🔹 / 🛀
	Assigned to	Vadis Test
	Supervisor	Administrator Administrator
	Creation date	05/11/2013 16:42
	Created by	Administrator Administrator
	Last update	29/01/2014 16:08

Some d	escripti	on abou	it my cas	e	

84



9.1.9.1 Follower options

For case followers, the case status can be changed to *ongoing* or *closing*.

-		
Case	status	

```
🖌 Ongoing 🚽 / 🎦
```

The follower must change the case status from *opened* to *ongoing* when he starts working on the case. Cases may be left *opened* as nobody works on them.

When changing the case status to closing, a sub-status must be set. The sub-status can have the following values:

- No action: the case doesn't need specific operation anymore
- Whitelisted: the revised score must be set to 0 (no risk) for the corresponding entity
- Blacklisted: the revised score must be set to 50 (highest risk) for the corresponding entity



When the status has been changed, the operation must be confirmed by clicking on the disk (\cong) icon.

Note that changing a case status to "closing" will require you to add a closing comment. Cases cannot be put in "closing" status without it.



9.1.9.2 Supervisor options

As cases are created unassigned by default (only supervisors can create assigned cases directly), the first step for supervisors will be to assign a case follower. The follower will be responsible of the case investigation and will report comments on it.

Assigned to	-				A	Ass	Assig	Assign	Assign	Assign	Assign	Assign
Supervisor												
Creation date	Vadis Test PWC Recovery											
Created by	Fake Test											
Last update	Adriaan ROOT Follo											
Last update	Test User Arachne											

Only user accounts of the same user group with the *follower* role are listed in the combo box. To assign a case, select a follower and click the *Assign* button.

When a case has already been assigned, there is a possibility for supervisors to reassign it to another follower if needed. The mechanism is identical to the assign process.



Case status	🔂 Opened	*		
Assigned to	Vadis Test	+	Reassign	

Once a case is assigned, its status becomes opened.

For *ongoing* cases, supervisors are allowed to change the case status and sub-status but the case cannot be re-assigned to another user.

Case status	📔 Closed	•	孢 Blacklisted	•	1
Assigned to	RO OPFollower	Ŧ			

Finally, for closing cases, the supervisor has the responsibility to approve or decline the follower proposed status.

	Approve			Decline		
Case status	🄄 Closing	•	1	😰 No action	•	2

Approving a case will confirm the decision and set the case status to *closed*.

Closing the case will assign a value to the *revised score* of the target entity. This *revised score* is visible in the dashboards and reports.

Sub-status	Action
Whitelisted	Revised score is set to its minimal value
Blacklisted	Revised score is set to its maximal value
No action	Revised score is kept untouched

Note that, even when a case is closed, the supervisor still has the ability to change its sub-status.

<u>Declining</u> a case makes it going back to *ongoing* status, meaning the follower must continue its investigation on the case.



10 Exporting data

The export function is only available for users having the export function enabled on their account.

The export option is available from any window containing elements as a table. This feature is global to the application and will export elements based on the visible table contents or selection. Export function doesn't work from graphs.

<u>Note</u>: depending on your user rights, the export function may be disabled.

10.1 Selecting records

Export function will work based on the following screens

- Dashboard : selected items (the selection can be made using windows standard click, SHIFT+click, CTRL+click combinations on items; in addition, the "Select all", "Select none" and "Invert selection" buttons in the bottom toolbar can be used)
- Search results or navigation tables : all items or selected items

Once data have been selected in a screen, simply go to $File \rightarrow Export$ option to start the export wizard.



The following window appears and the user can select entities which some information will be exported.

Projects (global)



10.2 Export wizard steps

10.2.1 Refine / confirm selection

This screen allows you to validate your initial selection by checking or unchecking items in the list. You can use the bottom buttons to select all items, no item or to invert the current selection.

Data export wizard	
nu: nut of tot	Elements to export Image: Carta MUNDI, INC Image: Carta MUNDI, INC Image: Carta MUNDI, INC Image: Carta MUNDI, INC, Image: Carta MUNDI, INC, Image: Carta MUNDI, INC, Image: Carta MUNDI, Inc, Image: Carta MUNDI, Asia Pacific Pte Ltd Image: Carta MUNDI, Asia Image: Carta MUNDI Image: Carta MUNDI Image: Carta MUNDI, Asia Image: Carta MUNDI Image: Car
Cancel	Previous Next Finish

Click the *Next* button when your selection is correct.

10.2.2 Property selection

Once the items have been selected, the second phase is to select which properties (fields) you want into your final export. This mechanism avoids exporting useless properties.

You can only select properties applicable for the entity selected. It is not possible to select properties belonging to other entities. For example, when exporting projects, you can only select properties



belonging to projects (name, ...), but you cannot select properties belonging to other entities like contract or beneficiary i.e. you cannot export beneficiary/contractor name or other beneficiary/contractor related fields when exporting a project.

Data export wizard	
(1 ° · · · 10) 1000010 11000010 11000010	Properties selection Properties Entity Company Template Myselection
191,0,1,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,	Active company Active company Active company B Bankrupt company B Company age Company uncop S Company uncop S Company unced Order and the second se
Cancel	Image: Signature Image: Signature Imag

Once the selection has been done, clicking on the "Next" button will request the properties to the server.

10.2.2.1 Property selection mechanism

When exporting entities, the entity type is pre-selected so you only have to select the properties you want to export in the property tree. Selection is done by checking items in the list. In addition, the bottom buttons allow to select all properties, no property or to invert selection.

When organized in categories, selecting the category will automatically select all properties below it.



There is also a way to focus on properties containing specific characters by typing them in the text box on top of the tree. The list will highlight matching elements and position itself on the first match. If the match is unique, the focus will be set on the first matching element.

supply		
Quantity of solid waste treated vs to be treated		*
🚺 🔲 🔣 Training hour cost incurred vs approved		
Water supply cost vs km to be renovated		
Water supply cost vs population to benefit		
WW cost vs population benefiting		
WW cost vs population to benefit		h
🚊 🖷 Procurement		Ē
Contracted amounts via closed tenders vs project cost		
🔲 💰 Financial correction		
Lead time between publication and contract signature		7
▲ III	•	



10.2.2.2 Property templates

In the properties selection panel, it is possible to create user-defined templates which can be reused later. The templates are saved into a dedicated file stored in the windows user profile.

Template (no selection) 🔹 🛃 🎦	Template (no selection)	•		1	0	
-------------------------------	-------------------------	---	--	---	---	--

The dropdown lists the different available templates. To create a new template, you must **first** click on the create template button (\square_{e}) and enter a template name. Then, select the different properties you want to assign to this template, and finally click on the save template button ($\stackrel{\square}{\Longrightarrow}$)

Templates can be changed if needed, by selecting them in the list, change their selected properties and click on the save template button again. Templates can be deleted by selecting them then clicking on the eraser button.

10.2.2.3 Property loading

At this stage, the user has nothing to configure. This step will load the corresponding data. Just click *Next* to continue.

Data export wizard	
10000000000000000000000000000000000000	The application will now request the data needed for exporting Please click on the "Next" button when the progress bar has reached its maximum.
	Data loaded
Cancel	Previous Next Finish

10.2.2.4 Selecting export format

At this stage, it is time to select in which export format you want to obtain the information. The application provides three different export formats:

- **Separated-Fields Text**: exports in CSV/TSV format.
- Simple Text Export: exports in simple text file.
- XML Formatted file: exports as a structured XML file.

The first format is used if you want to load the results in other software such as Excel or database systems. It provides a simple delimited text file.

The simple text export can be used to get tables or lists that can be either printed or re-imported into word processors.

The XML format will generate a structured XML file that can be used in various applications or even transformed using XSLT to generate HTML exports.



2222	Б	port format					
2252	Av	wailable formats Separated-Fields Text (CSV/TSV) Export 💌					
585	Re	Report type Table (1 file)					
12021	Exported file location						
2522							
5522	Pa	arameters					
,222	 Misc. 						
255		Separator character			;		
EEE		Separator 📮			Coma		
222		Field names as	headers				
2552		Line feed mode	•		CrLf		
		Use system loca	alization settings				
		Decimals	ſ	г.	. 3		
		Enable enum tr	anslations				
					,		

Depending on the chosen export format, the following elements on the screen will adapt their content. The report type can be used as a sub-format selector in export formats. The Parameters part will display specific parameters according to the selected export formats.

Example for separated fields – only one report type available

Export format			
Available formats	Separated-Fields Text (CSV/TSV) Export	•	
Report type	Table (1 file)	•	

Example for the simple text export – continuous list or table is available.

Export format			
Available formats	Simple Text Export	-]
Report type	Continuous list (1 file)	•	
Exported file loc	Continuous list (1 file)		
	Table (1 file)	6	

Remark: the CSV/TSV format is a simple structured text file format. As the format specification is very basic, please use it with caution. Changing separator character may have an impact on how the file will be loaded by different applications.



You can select the exported file location by clicking on the folder icon and selecting a file.

ed file location				
				P.
🖳 Simple Text Export				
↓ Librarie	s > Documents >	👻 🐓 Search Docume	ents	P
Organize 👻 New fol	der		80 -	0
Some library features are u	navailable due to unsupported library location	ons. Click here to learn more		x
☆ Favorites	Documents library	Arrange	by: Folder 🔻	
Nesktop	Includes: 1 location		-,	
Downloads	Name	Date modified	Туре	-
Secent Places	InstallResources	3/08/2012 16:04	File folder	Ξ
🕞 Libraries	My Corel Shows	4/10/2012 14:14	File folder	
Documents	💼 My Data Sources	18/06/2013 15:34	File folder	
Music	My DXSkins	13/07/2012 14:14	File folder	
Pictures	My PSP Files	8/07/2013 09:24	File folder	
Subversion ·	· · · III	20/07/2012 10-46	Ella faldar	- F
File name: my	export.txt			-
Save as type: Text	file (*.txt)			-
Hide Folders		Sve	Cancel	
				.41
ed file location				
				_
uments\my export	tyt 🥌		4	

Once the export format and report type and destination file have been chosen, you can fine-tune export parameters.

Separated fields text param	neters		
Separator character	When Separator is on FreeChar mode, type the character you want to use as column separator here.		
Separator	Defines which column separator is used in the file. Possible values are Coma , Semicolon , Pipe , Tab or FreeChar . By default, CSV files use a coma as delimiter, but for some applications, semicolon or tab characters are commonly used. Pipe character () or FreeChar can be used for specific cases.		
Field names as headers	This option is enabled by default. When enabled, the first row will contain the property names.		
Line feed mode	CrLf or Lf values define how the line feed is written in the file. If you export files for Linux/Unix operating systems, please select Lf .		
Use system localization settings	When enabled, floating-point values will be formatted using the system settings.		
Decimals	Number of decimals to keep for floating-point values.		
Simple text parameters			
Include date	When set, the export date will be added inside the text file		
Text width	Fixes the maximum number of characters per line.		
Document footer	Allows to add an extra text as a page footer		
Document header	Allows to add an extra text as page header		
Document title	Defines the global title used in the text file.		
XML formatted file parame	ters		
Encoding type	 Allows the following encodings when saving into XML file: Standard (ANSI) ASCII (7 bit strict ASCII encoding) UTF-8 (most commonly used encoding) Unicode (true Unicode encoding) 		



Once the correct parameters have been selected, click Next.

10.2.2.5 File format confirmation

This screen displays a summary of your file format parameters. Just click Next to confirm.

10.2.2.6 Export screen

Once everything is confirmed, the final step is displayed and the export can begin.

Data export wizard	
2222	Data Export
	Exporting
	Export status
Cancel	Previous Next Export

Just click on the *Export* button to start exporting data. A progress bar will indicate the export progress.

Data export wizard	
1.0	Data Export Exporting Export status Data were successfully exported
Cancel	Previous Next Gose

Once the export is finished, click on the *Close* button.

10.2.3 File associations

By default, once the export wizard has closed, the application will try to open the exported file with its windows default application. This behavior can be enabled or disabled via user options (see chapter 11.1) in the export options section.



11 Customizing your application

The **Parameters** menu allows you to modify the application options and appearance. This menu contains six functions:

- Windows: configures windows elements and modules
- Colors: configures colors used in palette and gradients
- **Templates:** not used in Arachne application, present for backward compatibility.
- **Columns:** defines default columns for search / navigation result tables and the business card.
- Languages: choice between two versions of the application, French and English.

These user preferences are persisted in a user settings file. Once the settings are modified, they will be used of any newly opened window. The previously opened windows won't be updated. This is valid for all changes except the language change which requires an application restart.

11.1 Windows

The user can determine different options such as the main window's position and size, the visibility of the basket window when application starts and a confirmation message before exit. Other options are also available concerning hierarchical graph and affinity diagram. But the main advantage of these settings is at the level of the option "Enable expert mode" (see 12.1). By choosing this option, the user will be able to use the Expert mode as default mode.

Configuration					
- General options	General Options				
Connection Windows	Preserve main window position and size	Use external web browser			
Colors	✓ Show confirmation before exit	Show detailed reports on crash			
Languages Document Templates	Basket is visible when application starts	Show task pane at startup			
Default columns	Show introduction screen at startup				
	Hierarchical Graph				
	✓ Enable node aggregation	Number of passes One pass 👻			
	✓ Use "aggregate around" method	Aggregation skipped 50 m nodes			
	Affinity diagram				
	Affinity jumps 1	Max. people nodes 40 🗼			
	Legal jumps 1	Max. company nodes 80 🗼			
	Search options				
	Enable expert mode				
	Export options				
	Open results after exporting				
	Automatic update				
	Enable auto-update process	Last update revision 000			
Cancel					



General options	
Preserve main window	When activated, latest application position and size is saved in the
position and size	user configuration file so it will be restarted at the same location.
Use external web browser	When activated, the application will open web links into an external
	browser instead of opening it with the embedded browser.
Show confirmation before exit	When activated, a confirmation dialog is displayed when closing the
	application
Show detailed reports on	(cannot be changed)
crash	
Basket is visible when the	When activated, the basket window will be displayed when the
application starts	application starts
Show task pane at startup	When activated, the task pane is shown when the application starts
Show introduction screen at	When activated, the introduction web page is shown when the
startup	application starts
Hierarchical graph	
Enable aggregation	(cannot be changed)
Number of passes	(cannot be changed)
Use aggregate around	(cannot be changed)
method	
Aggregation skipped under	(cannot be changed)
Affinity diagram	
Affinity jumps	(cannot be changed)
Legal jumps	(cannot be changed)
Max people nodes	(cannot be changed)
Max company nodes	(cannot be changed)
Show company names by	When activated, company names will be displayed on company
default	nodes in the affinity graphs instead of the company count.
Search options	
Enable expert mode	This option has the same role as the "Expert mode" option on the
	entity search menu.
Export options	
Open results after exporting	When activated, the application will try to open automatically the
	exported file after a successful export
Automatic update	1
Enable auto-update process	When activated, enables auto-updating
	This function is not available in the European Commission version.

11.2 Colors

The user can choose his preferred colors or those allowing a better visibility when coloring graphs (see e.g. the coloring option).



eneral options	User colors	
- Connection Windows	Gradient colors	Color palette
	Lower color	Automatic palette
Languages	Medium color	 User palette
 Document Templates Default columns 	Higher color	User colors
		Color 1 Color 5
	Hierarchy view	Color 2 Color 6
	Lowest participation	Color 3 Color 7
	Highest participation	Color 4 Color 8
	Max. participation	
	Colorize labels	Quick-find colors
		Found in a node
		Found in a node's aggregates

Colors can be changed by double-clicking on color pickers. It opens the standard Windows color picker.



11.2.1 Gradient colors

The color gradient used when representing continuous values is built on three colors: lower color, medium color and higher color, representing lower, medium and higher values.

11.2.2 Color palette

The color palette is used to represent enumerated values or distinct literals. It can be automatic or user based. In user palette mode, the user can define eight base colors. In automatic mode, these colors are automatically generated by the application using an hsl optimal dispersion algorithm (ensuring an optimal color difference between two consecutive colors)

11.3 Default columns

For each entity (company, group, person, ...) and each type of link (legal link, membership, private link, ...), the user can select the columns he wants to display in the list of results, details panel on the task pane (on the left of the application) and the graph indicators available in graph windows.





11.3.1 For table columns

The selection will impact search results, navigation tables and the basket. This selection has no impact on the dashboards. Once the new selection has been made, it is effective for all newly opened windows.

11.3.2 For details panel

The selection impacts only the details panel present on the task pane. Once the selection has been made, it will be directly updated the next time a new entity is displayed in the panel.

11.3.3 For graph indicators

The selection impacts only the coloring indicators present in graph windows. Once the selection has been applied, it will be directly available in next opened graph windows.

Note that, in this mode, an additional button 🖾 allows insertion of separators, which make the menus easier to read and use

11.3.4 Editing columns

1. Select the entity or relation for which you want to change the columns configuration in the *Columns for* combo box. The left list represents the currently selected columns, the right list contains all columns available for the selected entity or relation.

2. To add a new column, select it on the right list then click on the 🗲 arrow.

3. To remove a column from the selection, select it in the left list then click on the delete (🔼) button

4. To change the selection order, select a field in the left list and use the up/down arrow buttons to change its position.



12 Advanced functions

12.1 Expert search

As all the standard searches are limited to certain predefined criteria, it is also possible to turn on the *expert mode*. The expert mode allows to completely customizing search forms based on the whole set of available properties in the system. The expert mode is enabled from the Entities main menu, or the application configuration.

Q E	ntities	🔍 Relations	💷 Dashboards			
8	Search for Projects					
	Search for companies (BvD ID)					
	Search for Companies					
2	Search for Persons					
11	Search	n for Groups				
× .	Expert	mode	2			
	Navig	ator	- N			

Once the expert mode is enabled, subsequent calls to entity or relation search forms will display a fully customizable search form instead of the predefined forms. To go back to the standard mode, simply uncheck the option from the menu.

12.1.1 Building your search form

In its initial state, the expert search form is completely empty.

arch for Projects	Ĺ
Clear	Search

For each new criterion, you will have to

- Select a property
- Select an operator
- Optionally type in a value for the selected property

Picking a property is done on the first drop-down control. Note that, for the first line, the drop-down will only show a limited set of properties, called *indexed* properties. Queries on indexed properties perform better than queries on non-indexed properties.



Once the property has been picked, you must select an operator. Operators differ depending on the property type.



Search for Projects					
Cost	~	(Select oper.)	•	\times	+

Operators on numerical values are equality and order operators: =, <, <=, >, >= as well as the "*undefined*" operator.

Operators on text values are:

- The equality (=) operator which defines an exact match
- The content (Contains) operator which searches given words into the property
- Undefined operator

Operators on enumerated values are:

- The equality operator (=)
- The multiple equality operator (Within list)

This second option is more interesting as multiple choices can be done directly.

After the operator has been selected, an extra field to enter the value will appear, except for the **undefined** operator which requires no value.

Search for Projects	;		
Cost	>=	•	0,00 🚔 💽 🔀 💠

The value field will differ depending on the property type. Text values will use text box, numerical values will use a numeric value box, and enumerated values will use a drop-down list.

This creates your first search criterion.

Note that you can roll back your modifications using the eraser button. Each click will go one step backwards, going back to the operator picker, then the property picker.

If you want to add more criteria, just use the "+" button. It will create an extra line, and then restart the same process.

Search for Projects			
Cost	v) >=	2500,00 🚔 💽 🔀
	•		N 🔁 🔁

To remove a complete line, use the red cross button.

Note: when you create advanced forms, always remember that <u>all criteria must be validated</u> in order to have some results (*AND* operation).

12.2 Post-filtering options

Post-filtering option is a specific action that can be performed on entity search results, and the basket. This post-filtering process acts only on the result set, and will only use available information (i.e. visible columns).



	Case status	Project	Start End Cost
•	a	000003402007 - Auditoria	SE - POAT 2007-12-01 2008-12-31 1,709,680.00
	3	000004402007 - Estudo de Avaliação do Impacte de Acções Financiadas pelo FSE	SE - POAT 2007-12-01 2007-12-31 70,000.00
	3	000010402008 - Certificação de entidades formadoras	SE - POAT 2008-02-01 2010-12-31 1,307,480.00
	3	000027402008 - Conferência Nacional "Portugal (mais) Acessível"	SE - POAT 2008-04-01 2008-12-31 191,548.00
	3	000021402008 - Assistência Técnica no âmbito do QREN - FSE	SE - POAT 2008-01-01 2010-12-31 525,230.00
	3	000016402008 - Prevenir para Inovar - Sector da Cerâmica e Vidro	SE - POAT 2008-09-01 2009-12-30 719,325.00
		000401402011 - Surdocegueira: um modelo de intervenção	SE - POAT 2012-01-02 2013-12-30 97,712.29
	3	000342402011 - FORUM CREATIVE LEARNING I BUSINESS INNOVATION	SE - POAT 2011-06-09 2012-02-28 114,649.52
	3	000351402011 - Iniciativa de divulgação de informação técnica sobre emprego,	SE - POAT 2011-11-16 2011-12-31 40,000.00
	3	000363402011 - Avaliação do Programa Mais Sucesso Escolar	SE - POAT 2011-06-21 2012-06-20 79,217.60
	3	000388402011 - Mostra de Formação Profissional - Espaço de Informação Profiss	SE - POAT 2011-11-01 2012-05-31 96,000.00
4	3	000389402011 - NetFORCE - Portal de Formação e Certificação	SE - POAT 2011-06-20 2013-12-31 100 000 00
r) (ि के 🖬 🕜	Activates post-	5000 element(s
		filtering	

Clicking on the post-filtering button **I** displays a new window allowing the user to select on which properties/values to filter the current results. This window works exactly as the expert search, but with a property set strictly limited to the actually visible columns as it won't generate any server query. It will just proceed to local results filtering.

Filter Projects	
< III	•
Cancel	Reset Apply

For more information about how to define your criteria, please read the previous chapter about expert search. Once you have defined your criteria, click on the *Apply* button to apply the filter to the local results.

❤ <=	- 2	rood A	
	· · · · · · · · · · · · · · · · · · ·	5000d 🚔	🔊 🔀 🖪

Once applied, the results in the search window are post-filtered according to the selected criteria.



\sim	Case status	Project	ing ty	Start date	End date	Cost
F	2					
F	-	000027402008 - Conferência Nacional "Portugal (mais) Acessível"	SE FSE - POAT	2008-04-01	2008-12-31	191,548.00
F		000401402011 - Surdocegueira: um modelo de intervenção	SE FSE - POAT	2012-01-02	2013-12-30	97,712.29
F	3	000342402011 - FORUM CREATIVE LEARNING I BUSINESS INNOVATION	SE FSE - POAT	2011-06-09	2012-02-28	114,649.52
F	3	000351402011 - Iniciativa de divulgação de informação técnica sobre emprego,	SE FSE - POAT	2011-11-16	2011-12-31	40,000.00
F	3	000363402011 - Avaliação do Programa Mais Sucesso Escolar	SE FSE - POAT	2011-06-21	2012-06-20	79,217.60
F	9	000388402011 - Mostra de Formação Profissional - Espaço de Informação Profiss	SE FSE - POAT	2011-11-01	2012-05-31	96,000.00
F	3	000389402011 - NetFORCE - Portal de Formação e Certificação	SE FSE - POAT	2011-06-20	2013-12-31	100,000.00
F	9	000396402011 - Estratégia para a promoção do emprego e a dinamização do desen	SE FSE - POAT	2011-11-25	2012-12-31	114,059.87
F	-	000405402011 - Portal da Inovação Social	SE FSE - POAT	2011-12-12	2013-12-31	180,786.33
F	S	000060/2008/12 - Cursos Profissionais e Cursos de Formação Profissional de Du	SE FSE - POPH	2008-01-03	2008-07-31	64,704.28
F		000271/2007/13 - Cursos de Educação Formação de Jovens	 SE ESE - POPH	2008-01-03	2008-07-22	51 195 04
Ň	के 🛛 🚺				283	79 element(

The *F* character appears in row headers to indicate they are filtered results, and the button icon displays a green LED indicator showing a filter is currently active. To reset the filter, click on the post-filter button again, then click on the "Reset" button in the post-filter window, then apply the results.

12.3 Entity basket

The Basket is an extra component built for keeping interesting entities from searches, navigation or graphs. It is particularly useful for cross-fertilization searches. When you click on an element of the basket, some basic details about this entity are shown beneath the basket, in the business card.

12.3.1 Enabling the basket

The basket can be enabled by checking the **Basket** option in the **Windows** menu.



By default, the basket appears collapsed on the right border of the application space. Clicking on the tab will open it. To keep it opened, just click on the pin button in its title bar.

											x
			Hel							Help	0
			×			Basket			•	(=)×	Γ
				- Ba	-	Filter on 🔹	Load	Append	Save	Empty	Basket
				Basket	/ =	E	Entity	ld	. (numeric	;)	Ê
ount	Case status	Case sub-									
132.00	Unassigned	None	=								
533.00	Unassigned	None									
149.00	Unassigned	None	_		ii						
			Ť								
	Case	e managem	ent								

Note: Depending on the client version or user profile the basket feature may be disabled.



12.3.2 Sending items to the basket

Items can be put in the basket in two different ways:

- Using the context menu, and use the "Add to basket" option.
- Simply drag and drop elements from tables to the basket. Warning: you must pick the row header to perform the drag and drop operation (Note that the drag and drop operation is not possible from the dashboards or mini-dashboards)

Groups Exploration Toolset (GET TPM Service)	ver (Test))				- • •
Ele 🔍 Entities 🔍 Relations 📰 Dashb	oards Parameters Windows				цеір 🚱
Vadis Test01	GET Client introduction C Search for Com Search for Companies	panies 🔚 Managers for VERHAEGHE	Advancet	Basket Filter on - Load Ar	
Your current profile	Company name Contains		<u>•</u>	VIRIDAXIS	1786033
🔆 Change your password	Status code Within			BREMBERGHOEVE	1561642
😥 Disconnect				MOONEN	1318817
		BELGIUM		DE DWERSE HA	1556242
DE DWERSE HAGEN	NACE Code (primary) Begins with	012 💌		VERHAEGHE - H	1304495
Hageweg 5	VPI P2B Bankruptcy >=	1		R Mr Hans Verhae	1096656380
SINT-KATELIJNE-WAVER	VPI P2B Sold (Top 20%) >=	1			
2860 BELGIUM +32 15 31 10 53 +32 15 31 41 89	Top 20 * by Cash flow	V Desc. V	Search		
	Company	identification Size number BvD 0	Country C		
	F WERHAEGHE - HET ANKER				
	F 🛄 DE DWERSE HAGE				
	F MOONE				
	F BREMBERGHOEVE				
	F WIRIDAXIS	BE0866678469 ME - Medium			
	F BOTERHOEK	BE0419110076 ME - Medium			
	F PAESEN STOETERIJ LINDENHOF	BE0425177328 ME - Medium			
	F EUROPE HUNTING	BE0425013814 SM - Small			
	F SENTOBIN	BE0426786538 ME - Medium			
	F HANAVI	BE0861110075 ME - Medium			
	F HEIMA		BELGIUM KE BELGIUM W		
		BE0433725008 SM - Small	BELGIUM W		
8	ででで、		305 element(s)	ଅ ଅ ଅ	0 element(s)

It is possible to load, append, save, or empty a basket (as .bsk format). The number of elements stored in the basket is indicated in the bottom right of the window. In order to have a more efficient view, the basket is directly sorted by type of entity.

Note that the basket can hold multiple types of entities, but cannot hold relations. Adding a relation will add the source and target entities.

12.3.3 Basket options

Filtering

As the basket may contain a lot of entities of different types, the "**Filter on**" options will show only desired entity type.

Filter on 🔻	<u>Load</u>	Append
View all		
Companie	25	N
Groups		43
Persons		
Projects		
Contracts		



Loading, saving, merging baskets

Filter on - Load Append Save Empty

The application gives also the following options:

- Save a basket using the **Save** link
- Load a basket using the Load link current content will be removed
- Append a basket using the **Append** link current content is kept, and new content is added to it.
- Empty current basket.

12.4 Navigator

The navigator allows the user to visualize the different relations between different types of entities (company, person and group) in **one single screen** (separated into three parts because of the three different types of entities). It aims at having a complete overview of the relationships around a specific entity.

🔍 Entities 🔍 Relations 🛄 I	Dashboards	Parameters <u>W</u> indows											Hel
		GET Client introduction VQ Se	arch for	Companies	🗖 Nav	igator							• ×
Vadis Test01	Group	20											Ĺ
Connect		Group Inves	stment	Prim main		Prim	nain sec	tor				Prim nof	Prim nof
Your current profile Change your password		ASSAPP (inv) Invest		Country		07.0	-			ding and other investme		companies	countrie
Disconnect		BREPOLS GROUP (Std) Norma		BELGIUM					, publishing, and i		ant onices		11
		biter oes anoor (aa) ham		DECOION		27 10		ang man	g, poblaring, and i				
BREPOLS GROUP													
eginhof 67													
URNHOUT	•												•
300 ELGIUM	Comp												
32 14 44 80 20	Comp	ariles		Unique			_				NACE		
32 14 42 89 19		Company		identification number		Size B 0	vD	Country	Company city	Group name	Code (primary) NACE v2	Nun
		ETEX .		BE0400454404		VL - Ve	ry large	BELGIUM	BRUXELLES	ETEX	7415	4673	
	•	BREPOLS GROUP											
		IMMOBILIENMAATSCHAPPIJ D	DE VALK	BE040669655	1	SM - Sr	nal	BELGIUM	ARENDONK		7020	6832	
		HET PAVILJOEN		BE041835704)	ME - M	edium	BELGIUM	ARENDONK		5153	0210	
		DE KRUISBERG		BE041836030	7	ME - M	edium	BELGIUM	ARENDONK		0111	0210	-
	۲.	1	11										F
	Perso	ns											
		Person			UPI (1)	Ag		Birth date	Number of affinities	Number of Companies		lumber of nked groups	-
	•	😤 RSM INTERAUDIT											
		R LINE-MANAGEMENT			0020777	65				0	8	1	E
		ASSAPP			0021621	88				0	3	1	
		😤 Mr Jean-Louis Marie Ghislain De	Cartier D	e Marchienne I	P0441771	89				260	13	6	
		R Mr Emile De Cartier De Marchier	nne		P0441951	45				101	3	3	
		😤 Mr Paul De Jongh (De Jong)		1	P1234016	51	53	19590000		93	4	3	
	4 >	BREPOLS GROUP				~					~~		
		BREPOLS GROUP											

To put elements in the navigator window, you have to drag and drop them in the correct area, i.e., drag a company and drop it into the "*Companies*" table.

Once a first element has been added to the navigator, a double-click on it will populate the other tables with related elements. Double-click can occur in any of the tables.

12.5 Licensing system

Arachne users have unlimited access to their own data, i.e. the information they have provided themselves through SFC2007 utilizing a predefined XML schema. The external data (corporate data, sanction lists, adverse media ...) is subject to a licensing fee with a concurrent users structure.

In case there is a license available, the user will get it automatically when either starting up the application or performing an action in the application which requires access to the external data.



When an action is performed which requires a license and there is no license available, then a popup message is shown. The license is automatically released when the user is inactive during a period of 5 minutes.

In the restricted access mode (without license), the user has access to the internal data, all alert scores (based on internal as well as external data), the detailed information (drill-down / pop-up) of alerts based on internal data, visualization based on internal data (surroundings graph) and the case management system. However, the user has no access to information from the Orbis database, the detailed information (drill-down / pop-up) of alerts based on the external data, reports containing external data, visualizations based on external data, functionalities to add external data to the surroundings graph and functionalities to navigate to the external data from the dashboards.

The chart below provides an overview of the behavior of the concurrent user mechanism when there is a request operation in the application.





The application has built-in error logging and error reporting facilities. When critical errors appear, the application displays a complete error report.

8 Application Error	
Exception happened	
An exception of type System.NullReferenceException happened in GETClient	
Object reference not set to an instance of an object.	-
Inner exceptions	
Stack trace	
Com.Vadis.GET.ClientApp.Controls.PropertyTemplateEditorControl.btnNet (<i>Object sender, EventArgs</i> e) in H:\Projects\GET\Controls\PropertyTemplateEditorControl.cs:line 205 @ Svstem.Windows.Forms.Control.OnClick(<i>EventAras</i> e)	-
Report Close application <u>Close</u>]

If such errors occur, please report them using the **Report** button, or email the error report if automatic reporting is not available or doesn't succeed. You can copy the report content and paste it in an email or another document using the clipboard () button.

In order to help developers to identify and fix the issue, you may also send the application log files. Note that the last log file is automatically attached to the report email when using the *Report* button. To locate and send the log files, please follow these simple steps:

- Open the windows file explorer
- In the address bar, type the following line: **%APPDATA%\Vadis s.a\GET Client** application\Arachne\Logs. This should place you in the application logs folder
- Logs are created on a daily basis and are named using the current day date. To locate the last log, simply locate the file named Log-<<u>yyyy>-<mm>-<dd>-log</u> where y is the year, m is the month and d is the day corresponding to today's date.





14 Appendices

14.1 Glossary

Affinity A business relationship between two managers/owners of a same company (direct affinity) or of two different legally-linked companies (indirect affinity). Affinity A graph representing all direct and indirect affinities for a given person. diagram Companies held by only one shareholder. They are called aggregated since they are Aggregate companies represented together with the shareholder into one node in any space representation. Basket Tool allowing saving researches about companies, persons or groups. Beneficiary The Beneficiary relation links projects and companies together. At least one relationship must exist between a project and its beneficiary company. In fact, this link is not only about beneficiary but about any kind of link occurring between projects and companies: Beneficiary (1 per project) • Contractors and subcontractors • Partners • • **Consortium members Business card** Window containing basic information about any selected entity. **BvD ID** Unique identifier or company code for any company. BvD stands for Bureau van Dijk. **BvD** size Size of the company based on Bureau van Dijk definition (related to turnover, number of employee and total assets of the company). Case A case management is a tool to assist the user of the Arachne tool in managing the management proper follow-up of projects or contracts that require additional review. **CE flag** Flag that indicates the company is linked to projects of the European Commission. **Cluster group** - Set of companies linked to each other identified around a skeleton group of strongly linked companies. - It is constructed progressively from a skeleton group of all linked companies with higher than 50% participations, secondly with all strongly linked ones of higher than 25% participation rates and then with other companies that this group can have the most influence. - A cluster group of a singleton company appears when it is jointly owned by its shareholders. - The cluster group construction takes into account investment and non-investment groups. The CG algorithm is applied to these two populations. The intersection of the two populations contains the non investment companies that are owned by one or several investment companies.



- Companies The Company entity contains mixed information coming from data from the European Commission (beneficiary, contractor and sub-contractor information) and from public data (financial and scores).
 Companies are linked to projects via the Beneficiary relation. They are linked to contracts via the Contract executor relation.
 In addition, companies are linked together via the Legal link relation, to groups via the Membership relation and to persons via the Private relation. These three relations come from the public data.
- **Company city** Local plant city.
- **Contract** The Contract entity represents a contract signed by a company (beneficiary, contractor or sub-contractor) for a given project. The contract is related to the project via the Contract requestor, and to the company via the Contract executor.
- **Controlling** A controlling point is on top of a skeleton group and has at least one participation rate higher than 50% to another company of the same skeleton group. Several controlling points can be identified in the same skeleton group. On the other hand, a group may not have a controlling point if it is only composed of weak links (i.e. no skeleton exists).
- **Dashboard** The dashboard function summarizes the critical information for projects, beneficiaries, contracts and contractors in a compact, visual and interactive way. Its target is to focus the user's attention on high risk indicators.
- **EBITDA** Company's earnings before interest, taxes, depreciation, and amortization which give an indication of its current operational profitability, i.e., how much profit it makes with its present assets and its operations on the products it produces and sells.
- **ECAS** As this application is based on client-server architecture, it requires user authentication to connect to the server. The default user authentication is done through the standard ECAS authentication service in place at the European Commission.


Entity	Project, Contract, company, person or group.	
Entity BvD indicators	- (missing)	Missing
	A	Any company with known recorded shareholders none of which having more than 25% of direct or total ownership.
	A+	Companies with 6 or more identified shareholders (of any type) whose ownership percentage is known. Also attributed to A companies in which the summation of direct ownership links (all categories of shareholders included, all of which being under 25%), is higher than 75%.
	А	As above, but includes companies with 4 or 5 identified shareholders.
	A-	As above, but includes companies with 1 to 3 identified shareholders. Also attributed for a company that is mentioned by a source (Annual Report, Private Communication or Information Provider) as being the Ultimate Owner of another company, even when its shareholders are not mentioned.
	В	Any company with a known recorded shareholder none of which with an ownership percentage (direct, total or calculated total) over 50%, but having one or more shareholders with an ownership percentage above 25%.
	B+	Companies with 6 or more identified shareholders. Also attributed to B companies in which the summation of direct ownership percentages (all categories of shareholders included) is higher than 50%.
	В	As above, but includes companies with 4 or 5 identified shareholders.
	B-	As above, but includes companies with 1 to 3 identified shareholders.
	С	Any company with a recorded shareholder (excluding the 3 "collective" types mentioned above) with a total or a calculated total ownership over 50%. Also given to a company when a source indicates that the company has an ultimate owner, even though its percentage of ownership is unknown.
	C+	Attributed to C companies in which the summation of direct ownership percentage (all categories of shareholders included) is higher than 50%.
	D	Any company with a recorded shareholder with a direct ownership of over 50%.
	U	Unknown degree of independence.



Group	The Group entity represents a set of companies strongly linked together via the Legal link relation. Groups are linked to companies via the Membership relation and between each other via the Group legal link relation.
Group name, or Group representative	The group representative can be either the ultimate owner of the group, if the group contains, or the most influencing top level company that is chosen to represent the group. When the ultimate owner is outside of a normal group (in this case, the ultimate owner is usually in an investment group) or the group does not have an ultimate owner, this most influencing top level company is the one that has the highest number of direct and indirect children with the strong links (participation rates higher than 25%) within the group.
Group legal link	The Group legal link relation links groups together by aggregating legal links between companies of those groups.
Hierarchy view	Visualization of the internal structure of a group of companies.
Interactive report	Report with detailed information about any entity.
Investment companies	A company is called an investment company when it has one of the following characteristics: 1. Company's activity code in - 65: Financial intermediation, except insurance and pension funding - 66: Insurance and pension funding, except compulsive social security - 67: Activity auxiliary to financial intermediation 2. Classified as with company type in - Banks, - Financials - Mutual & Pension funds/Nominees/Trusts/Trustees - Public authorities/States/Governments A top invest company is an investment company that has either no company as shareholder, or only has top investment companies as shareholders.
Investment group	The investment network is constituted of all legal links whose shareholder is a top investment company. An investment group is constructed from this investment network. For connectivity reasons, an investment group may have all companies as top investment companies except the bottom level subsidiaries as non investment companies. It is therefore possible that a company belongs to an investment group and a normal group: this is a direct subsidiary to a top investment company.
Legal link	The Legal link relation links companies together, symbolizing the ownership of one company by another. This link is qualified by the participation rate (percentage).
Leveling	Define the level (or the importance) of a company inside a group starting from the ultimate owner (level 0): companies (minority shareholders) above the ultimate owner have level above 0 and subsidiaries below 0.
Link	Any deal where a shareholder acquires some participation into a subsidiary.



Map of groups A map of groups is a network map of interconnected cluster groups of companies.

- **Membership** The Membership relation links companies to their group(s). One company may be linked to no group, one group, or two groups. In this last case, one group is qualified as the standard group and the second one as the investment group.
- NACE code The Statistical Classification of Economic Activities in the European Community (in French: Nomenclature des Activités économiques dans la Communauté Européenne), commonly referred to as NACE, is a European industry standard classification system consisting of a 6 digit code.
- Navigator The navigator allows the user to visualize the different relations between different types of entities (company, person and group) in one single screen (separated into three parts because of the three different types of entities). It aims at having a complete overview of the relationships around a specific entity.
- OrbisDatabase containing publicly available information about companies and theirdatabaseboard members:
 - General information (address, phone, web site ...)
 - Financial information coming from published balance sheets
 - o Ownership information between companies
 - o Ownership and functional relationships between companies and individuals
- Path graphShortest path information between two given entities, and can be enriched with
extra entities and relations manually.
- ParticipationPercentage held by a shareholder in a subsidiary. There are two types of
participations rates: "direct" that describes the directly linked participation and
"total" that is the summation of direct and indirectly owned participations of a
shareholder towards a subsidiary.
- PersonThe Person entity represents either individuals or corporations. The persons are
linked to projects through the Involvement relation.
Persons are also linked to companies through the Private relation and between each
other via the Affinity relation.
- Prim main Country the most represented in the group.
- **Prim main** Activity sector the most represented in the group.
- Prim nof Number of companies in the group.

country

sector

companies

countries

- **Prim nof** Number of countries in the group.
- **Private link** The Private relation links persons to companies; the link is qualified by the role or position of the person into the company.



PR Ratio	The average participation rates that a group A may have as shareholder group towards another group B. This is the sum of all participation rates from all shareholders of group A to subsidiaries of group B, divided by the number of companies in group B.	
Relations	Beneficiary, involvement, expense, contract executor, contract requestor and sub- contract requestor, links, membership or affinity.	
Related companies Related	Search which provides for any group; all the companies belonging to the group. Search which provides for any company, information about the group to which it	
groups	belongs.	
Shareholder	A person or a company who holds a participation rate in a subsidiary.	
Skeleton group	A skeleton group only includes companies that are linked with a participation rate higher than 50%.	
Strong group	A strong group contains companies that are linked with a participation rate or sum of participations from companies of a skeleton group of higher than 25%.	
Subsidiary	A company which is held to some extent by a person or another company.	
Summary window	Window allowing the user to compute statistics about a set of entities.	
Task pane	The task pane is the left-side part of the application screen and contains multiple functional blocks.	
Ultimate Owner	Identifies the company having the largest influence inside a group with the following order of priority: - Being on top of a strong cluster	
	- Having the highest number of children (direct or indirect)	
	- Having the highest sum of participation rates to direct subsidiaries	
	 Having the biggest size (Based on Bureau van Dijk data) Having the highest shareholders funds 	
VPI predictive indicators	 VPI P2B Bankruptcy: predicts the risk for a company to go bankrupt. VPI P2B Sold: predicts the risk for a company to be sold/bought by another. VPI No score: no sufficient (historical) financial data to predict VPI predictive indicators. 	
	- VPI EDV min: minimum Estimated Deal Value indicates the lowest range prediction of the financial value a company has if it would be sold at that moment.	
	- VPI EDV max: maximum Estimated Deal Value indicates the highest range prediction of the financial value a company has if it would be sold at that moment.	
Weight	The strength of the relationship between two groups, defined as the average of the two PR ratios between them.	



WelcomeThe welcome screen acts like a kind of cockpit in which different types ofwindowinformation are directly visible for the connected user. This information covers the
case management, the alert statistics and the different dashboards used in the
application.



14.2 Vadis Predictive Indicators

VPI P2B Bankruptcy is a predictive indicator that indicates the propensity to bankruptcy, i.e. the probability that a company will go bankrupt within the next 12 to 18 months. VPI P2B Bankruptcy bases its predictions on models with global reach and that are then localized.

The best model for each country-size block is chosen amongst a large number of models built in that block and cross-validated within the population. All models are built based on the actual bankruptcy events which occurred during the preceding years. The best models are further tested and validated using identified bankruptcy events from an earlier period than the one that was used for model-building.

Scoring is made available for companies in around 60 countries where companies' information is available. Sufficient (historical) financial data from the company and the companies in its peer group has to be available in order to be able to calculate the score. A risk ranking within each country across all size segments is produced. This ranking values from 1 to 20, with 20 being the highest 5% most exposed companies in the country. A local risk rating also defined as 6 classes (A, B, C, D, E and F) with F being the class having the highest propensity of bankruptcy within the next 12 to 18 months. The following table lists the different categories with their matching scores

Category	Score	Explanation
А	1 - 5	The company belongs to the bottom 25% of companies in its country having the lowest risk to become bankrupt within the next 18 month.
В	6 - 11	The company belongs to the second bottom band companies in its country representing low risk of bankruptcy within the next 18 months.
С	12 - 14	The company belongs to the third bottom band of companies in its country representing relatively low risk of bankruptcy within the next 18 months, but with a higher risk probability than those in rating B.
D	15 - 17	The company belongs to a band of companies in its country having a medium risk to become bankrupt within the next 18 month.
E	18 - 19	The company belongs to a band of unstable companies in its country having a high risk to become bankrupt within the next 18 months.
F	20	The company belongs to the top 5% of companies in its country having the highest probability to become bankrupt within the next 18 months.



14.3 ARACHNE Alerts reference

14.3.1 Alert types

We can define three main types of alerts present in the Arachne tool:

- Absolute value based checks

The alerts in this category are calculated by comparing a value for a certain variable with absolute values as defined in the design phase of Arachne. E.g., a project with more than 3 consortium partners will be assigned a lower score for that alert than a project with more than 10 consortium partners.

- Ratio checks

The alerts in this category are obtained by calculation a ratio of project related values and comparing the results of this calculation with other entities in its peer The peer group can be different for different group. checks. E.g., we calculate the relation of travel expenses versus total project cost and compare this across all projects in the operational program "A". A score is attributed in accordance with the statistical deviation from the mean value of all calculated ratios in this peer group. The higher the deviation from the mean the higher the resulting score will be.

- Flag or no flag checks

The alerts in this category will generate a score of 0 or a score of 10 depending on the absence or presence of a certain variable.

E.g., a contract with the contract modification variable as "true" will have a score of 10, a contract without this variable as "false" will have a score of 0.

Note that combinations between these different types of alerts are possible. For example a combination of a ratio check with an absolute value check occurs frequently.



14.3.2 Alert aggregations

The table below provides an overview of how individual alerts are aggregated into categorical alerts and how the categorical alerts are aggregated into the overall risk alert.

Procurement	A score on 50 is calculated based on the average of the 3 individual alerts
	with the highest scores.
Contract management	A score on 50 is calculated based on the average of the 3 individual alerts
	with the highest scores.
Eligibility	A score on 50 is calculated based on the average of all individual alerts.
Performance	A score on 50 is calculated based on the average of all individual alerts.
Concentration	A score on 50 is calculated based on the average of all individual alerts.
Other	A score on 50 is calculated based on the average of the 3 individual alerts
	with the highest scores.
Reputational & Fraud	A score on 50 is calculated based on the average of all individual alerts.
Overall	The overall score is the average of the scores of the categorical alerts
	mentioned above.

The risk score of a beneficiary is the weighted average of the risk scores of its projects.

The risk score of a contractor is the weighted average of the risk scores of its contracts.



14.3.3 Procurement

14.3.3.1 Lead time between publication of the tender notice and contract signature da	ate
---	-----

Description	This check looks at the lead time between the publication of the tender notice and the contract signature date (in days). The objective of the check is to identify contracts for which there is either (i) a large delay between the publication date of a tender notice and the contract signature date or (ii) a significant difference between the delay for the contract and the average delay in the peer group.
Level of calculation	The check is performed for each contract
Peer group	Operational Program
Input data	The following data is used to calculate the alert:Publication date of the tender notice;
	 Contract signature date
Calculated data	 The following data is calculated for the alert: Difference between both dates; Average difference within the peer group; Deviation of the difference for each contract from the average difference in the peer group
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the difference between both dates (in days) for the contract compared to the average difference between both dates in the peer group. If the difference between the publication of the tender notice and the contract signature date exceeds 180 days, then the alert value is also 10.
Project score	Highest score of the contracts that belong to the project
Applicable project types	DG Regio Infrastructural projects

Pop-up information

Lead time between publication and contract signature

Lead time between publication and contract signature

X

Values	
•	

Alert	Value
Publication of the tender notice	04/01/2009
Signature date	03/04/2012
Lead time between publication and signature dates 1,	
Average lead time in the peer group	98.81

11.

The following detailed information is available in the values tab:

- Date on which the tender notice was published
- Date on which the contract was signed
- Number of days between both above mentioned dates
- Average number of days between both dates in the peer group

No detailed information is available in the tables tab.



Links to further details

No links to further details are available.

14.3.3.2 Number of disqualified tender offers/Number of tender offers received (disqualified and valid)

Description	This check will look at the percentage of tenders that have been disqualified. The objective of the alert is to identify contracts for which the percentage of disqualified tender offers (compared to the total number of tender offers) differs from the average percentage in the peer group.	
Level of calculation	The check is performed for each contract	
Peer group	Sector (Operational Program + Project type)	
Input data	The following data is used to calculate the alert:	
	 Number of disqualified tender offers; 	
	 Number of tender offers received (disqualified and valid) 	
Calculated data	The following data is calculated for the alert:	
	 Percentage of disqualified tender offers compared to total number of tender offers received; 	
	 Average percentage in the peer group; 	
	 Deviation for each contract from the average percentage 	
	in the peer group	
Alert value	The alert gets a value from 0 to 10 depending on the deviation	
	from the average value in the peer group.	
Project score	Highest score of the contracts that belong to the project	
Applicable project types	DG Regio Infrastructural projects	

Pop-up information

rcentage disqualified tender offers vs received	
Values	
	Value
Alert	value
Alert Number of valid tender offers	7
Number of valid tender offers	7 10
	7

The following detailed information is available in the values tab:

- Number of valid tender offers;
- Number of disqualified tender offers;
- Percentage of disqualified tender offers;
- Average percentage in the peer group.

No detailed information is available in the tables tab:



Links to further details

No links to further details are available.

14.3.3.3 Number of valid tenderers

Description	This check will look at the total number of valid tenders. The objective of the alert is to identify contracts for which the number of received valid tender offers is lower than the average number of valid tender offers received in the peer group.	
Level of calculation	The check is performed for each contract	
Peer group	Sector (Operational Program + Project type)	
Input data	The following data is used to calculate the alert: Number of valid tender offers	
Calculated data	 The following data is calculated for the alert: Average number of valid tender offers in the peer group; Deviation of the number of valid tender offers for a specific contract from the average value in the peer group. 	
Alert value	The alert gets a value from 0 to 10 depending on the deviation from the average number of valid tender.	
Project score	Highest score of the contracts that belong to the project	
Applicable project types	DG Regio Infrastructural projects	

Pop-up information

mber of valid tenderers	
Values	
Alert	Value
Total number of valid tenderers (for all contracts of the project)	3
Lowest number of valid tenderers (on project related contracts)	3
Average number of valid tenderers in the peer group	7.13

The following detailed information is available in the values tab:

- Total number of valid tender offers (for all contract of the project);
- Lowest number of valid tender offers (on project related contracts);
- Average number of valid tender offers per contract in the peer group

No detailed information is available in the tables tab.

Links to further details



14.3.3.4 Total Amount of contracts procured via negotiated, restricted procedure /Total Project Cost

Description	This check will look at the percentage of contracted amounts within a project that have been awarded using a negotiated or restricted procedure. The objective of the alert is to identify projects for which this percentage is larger than the average percentage in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector (Operational Program + Project type)
Input data	 The following data is used to calculate the alert: Total amount of contracts procured via negotiated or restricted procedure; Total project cost.
Calculated data	 The following data is calculated for the alert: Percentage of the total amount of contract procured via negotiated or restricted procedure compared to the total project cost; Average percentage in the peer group; Deviation of the percentage for the project from the percentage in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of percentage of the project from the percentage in the peer group.
Project score	Score of the alert
Applicable project types	DG Regio Infrastructural projects

Pop-up information

Contracted amounts via restricted procedures / total project cost	X
Contracted amounts via restricted procedures / total project cost	
Values	

Alert	Value
Total amount of contracts procured via negotiated or restricted procedure	15,705.18
Project cost	146,939.50
Ratio contracted amounts and project cost	0.11
Average of the ratio in the peer group	0.03

The following detailed information is available in the values tab:

- Total amount of contracts procured via negotiated or restricted procedure;
- Total project cost;
- Percentage of the total amount of contracts procured via negotiated, restricted procedure or direct award compared to the total project cost;
- Average percentage in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.3.5 Number of Contract addenda > 5 or high compared to the average per Sector

Description	This check will verify the number of contract addenda in absolute
	values, as well as compared to the average within the sector.
	The objective is to identify contracts with a high number of
	contract addenda, i.e. (i) high compared to the average number
	of addenda per contract in the peer group or (ii) more than 5
	contract addenda.
Level of calculation	The check is performed for each contract
Peer group	Sector (Operational Program + Project type)
Input data	The following data is used to calculate the alert:
	 Number of contract addenda
Calculated data	The following data is calculated for the alert:
	 Average number of contract addenda per contract in the
	peer group;
	 Deviation of the number of contract addenda from the
	average number of contract addenda in the peer group
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the number of contract addenda from the average number of
	contract addenda in the peer group. An alert is generated if the
	number of contract addenda is larger than 5.
Project score	Highest score of the contracts that belong to the project
Applicable project types	DG Regio Infrastructural projects

Pop-up information

umber of contract addenda compared to sector average		
Values		
Alert	Value	
Total number of contract addenda (for all contracts of the project)	4	
Highest number of contract addenda (on project related contracts)	4	
Average number of contract addenda in the peer group	1 27	

The following detailed information is available in the values tab:

- Total number of contract addenda (for all contracts of the project);
- Highest number of contract addenda (on project related contracts);
- Average number of contract addenda per contract in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.3.6 Financial correction to procurement procedure applied in the past in relation to the beneficiary

Description	This check will check to see if any financial corrections have been made in the past for the beneficiary.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	 The following data is used to calculate the alert: Flag whether there has been a financial correction to a procurement procedure applied in the past in relation to the beneficiary.
Calculated data	Not applicable
Alert value	If a financial correction has been applied to the beneficiary in the past, then the alert value is 10.
Project score	The alert value of the project.
Applicable project types	DG Regio Infrastructural projects

Pop-up information

Financial correction	X
Financial correction	
Values	
Alert	Value
Financial correction	Yes

The following detailed information is available in the values tab:

 Indication whether a financial correction has been applied to the beneficiary in the past.

No detailed information is available in the tables tab.

Links to further details



14.3.4 Contract management

14.3.4.1 Contract Addenda Cost (total) for the Project / Project Cost

Description	This check will compares the contract addenda costs for a project with the total project cost. The objective is to identify projects for which the contract addenda cost part exceeds the average percentage in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Sector (Operational Program + Project type)	
Input data	 The following data is used to calculate the alert: Contract addenda cost (for all contracts related to the project); Project cost 	
Calculated data	 The following data is calculated for the alert: Percentage of contract addenda cost compared to the total project cost; Average percentage in the peer group; Deviation of the percentage of contract addenda costs for the project from the average percentage in the peer group. 	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the percentage for the project form the percentage in the peer group.	
Project score	Score of the project	
Applicable project types	DG Regio Infrastructural projects	

Pop-up information

ntract addenda cost vs project cost	
Values	
Alert	Value
Addenda costs	87,658.31
Project cost	886,132.00
Ratio addenda and project costs	0.10
nalio addenda and project costs	

The following detailed information is available in the values tab:

- Total contract addenda costs (for all contracts related to the project);
- Total project cost;
- Percentage of total contract addenda costs compared to the total project cost;
- Average percentage in the peer group.

No detailed information is available in the tables tab.

Links to further details



No links to further details are available.

14.3.4.2 Contract Addenda Cost (total per Contract)/Contracted Amount (Per Contract)

Description	This check will result in the percentage of amounts that were solicited through a contract addendum within one contract. The objective of the alert is to identify contracts where the percentage of contract addenda costs (compared to the contract amount) is higher than the average percentage in the peer group.
Level of calculation	The check is performed for each contract
Peer group	Sector (Operational Program + Project type)
Input data	 The following data is used to calculate the alert: Contract addenda cost; Total contract amount
Calculated data	 The following data is calculated for the alert: Percentage of contract addenda costs compared to the total contract amount; Average percentage in the peer group; Deviation of the percentage for the contract from the average percentage in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the percentage of the contract from the average percentage in the peer group.
Project score	Highest score of the contracts that belong to the project
Applicable project types	DG Regio Infrastructural projects

Pop-up information

Contract addenda cost vs contracted amount	
Contract addenda cost vs contracted amount	
Values	
Alert	Value
Addenda costs	318,036.78
Contract cost	568,036.78
Ratio addenda cost and contracted amounts	0.56

The following detailed information is available in the values tab:

- Contract amount;
- Contract addenda cost;
- Percentage of contract addenda cost compared to contract amount;
- Average percentage in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.4.3 Difference between Final Contract End Date and Initial Contract End Date (in days)

Description	This check will verify the difference between the initial contract		
	end date, and the actual contract end date. The objective is to		
	identify contracts for which this difference is either larger than		
	the average value in the peer group or larger than 270 days.		
Level of calculation	The check is performed for each contract		
Peer group	Sector (Operational Program + Project type)		
Input data	The following data is used to calculate the alert:		
	 Initial contract end date; 		
	 Final contract end date 		
Calculated data	The following data is calculated for the alert:		
	 Difference between both dates in days; 		
	 Average difference in the peer group; 		
	 Deviation of the difference in days for the contract from 		
	the average difference in the peer group.		
Alert value	The alert gets a value from 0 to 10 depending on the deviation of		
	the difference for the contract from the average difference in the		
	peer group. An alert is generated if the difference for the		
	contract is larger than 270 days.		
Project score	Highest score of the contracts that belong to the project		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information

fference final contract end date and initial contract end date			
ference final contract end date and initial cont	tract end date		
Values			
Alert	Value		
Initial contract end date	31/08/2010		
Final contract end date	29/12/2010		
	120		
Difference final and initial end dates	120		

The following detailed information is available in the values tab:

- Initial contract end date;
- Final contract end date
- Difference between de initial contract end date and the final contract end date (in days);
- Average difference in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.4.4 Number of consortium partners

Description	The objective of this alert is to identify contracts for which there		
	are a high number of consortium partners.		
Level of calculation	The check is performed for each contract.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Number of consortium partners 		
Calculated data	Not applicable		
Alert value	The alert gets a value from 0 to 10 depending on the number of		
	consortium partners for the contract. A higher number of		
	consortium partners results in a higher alert value.		
Project score	Highest score of the contracts that belong to the project		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information

mber of consortium partners		
mber of consortium partners		
Values Tables		
Alert	Value	
Number of consortium members	4	

The following detailed information is available in the values tab:

Number of consortium partners

umb	per of consortium partners	
	Values Tables	
	Consortium member name	
0	THE BELGIAN CHOCOLATI	EGROUP
1	FIRMA SWINKELS	
2	WARENHUIS DE VRIJHEID)
3	Wrong VAT	

The following detailed information is available in the tables tab:

• The names of the consortium partners

Links to further details



Contract requests

Related companies

The following links to further details are available:

- Contract requests: link to the related contract;
- Related companies: link to the consortium partners

14.3.4.5 Contract modifications

Description	This check will check to see if any contract modifications have	
	been done.	
Level of calculation	The check is performed for each contract	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Number of contract modifications 	
Calculated data	Not applicable	
Alert value	If a contract modification has been applied, then the contract	
	gets an alert value of 10.	
Project score	Highest score of the contracts that belong to the project	
Applicable project types	DG Regio Infrastructural projects	

Pop-up information

Contract modifications		
Contract modifications		
Values	Tables]
Alert	Value	
Number of contract modif	ications 1	

The following detailed information is available in the values tab:

Number of contract modifications

Contrac	t modifications	\$		×
Contract	modifications			
Vi	alues	Tables	7	
	ame of contracto		ct modification	
0 FI	RMA DE VOS			

Scontract requests

The following detailed information is available in the tables tab:



 Name of the contractor related to the contract for which there has been a contract modification

Links to further details

Scontract requests

The following links to further details are available:

Link to the related contract

14.3.4.6 Key experts change

Description	This check will check to see if key experts related to a contract	
	have changed during the implementation of the project.	
Level of calculation	The check is performed for each contract	
Peer group	Operational Program	
Input data	The following data is used to calculate the alert:	
	 Key expert change (flag) 	
Calculated data	Not applicable	
Alert value	The alert gets a value of 10 when a key expert has changed.	
Project score	Highest score of the contracts that belong to the project	
Applicable project types	DG Regio Infrastructural projects	

Pop-up information

Key	experts change			 _×
Key	experts change			
	Tables			
	Key expert name	Contract name	Contractor name	
0	Yves Leterme	Contract29	TRUVO BELGIUM	

The following detailed information is available in the tables tab:

- Name of the actual key expert;
- Name of the related contract;
- Name of the related contractor

No detailed information is available in the values tab.

Links to further details

Scontract requests

The following links to further details are available:

Link to the related contract



14.3.4.7 Key experts linked to multiple projects

Description	The objective of the check is to identify contract in which key experts are involved that are also involved in other contracts related to other projects.		
Level of calculation	The check is performed for each contract		
Peer group	Operational Program		
Input data	The following data is used to calculate the alert:		
	 Name of the key expert 		
Calculated data	 The following data is calculated for the alert: Identification of the other contracts in which the key expert is involved and verification whether those contracts are linked to different projects. 		
Alert value	The alert gets a value from 0 to 10 depending on the number of different projects in which a key expert is involved (via contracts).		
Project score	Highest score of the contracts that belong to the project		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information

Key experts linked to multiple projects		
Key experts linked to multiple projects		
Values Tables		
Alert	Value	
Number of projects	2	
Number of key experts in multiple projects	1	

The following detailed information is available in the values tab:

- Number of projects in which the key expert is involved;
- Number of key experts that are involved in multiple projects

e	xperts linked to multiple p	rojects
	Values Ta	bles
	Project name	Key expert name
0	FAKE-Project-031/10	Elio Di Rupo
1	FAKE-Project-046/08	Elio Di Rupo
	FAKE-Project-046/08	Elio Di Rupo

The following detailed information is available in the tables tab:

Names of the different projects;



• Name of the key expert that is involved in the different projects

Links to further details

Contract requests

🖓 Details

The following links to further details are available:

- Link to the contract (related to the current project) in which the key expert generating the alert value is involved.
- Details link leads to the project(s) in which the key expert is involved.

14.3.4.8 High percentage of cost allocations during the last 60 days before Project end date

Description	This check will look for a high percentage of costs being booked		
Description	during the last 60 days before the project is ending.		
Level of calculation	the check is performed for each project		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Project costs (based on individual expenses sourced); 		
	 Date of the project cost; 		
	 Project end date. 		
Calculated data	The following data is calculated for the alert:		
	 Total project cost; 		
	Project costs during the last 60 days before the project		
	end date;		
	Percentage of project costs during the last 60 days		
	before the project end date compared to the total		
	project costs		
Alert value	The alert gets a value from 0 to 10 depending on percentages of		
	costs that are dated less than 60 days before the project end		
	date. The higher the percentage, the higher the alert value.		
Project score	Score of the alert		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information

h percentage of cost allocation within the last 60 days	3	
Values		
Alert	Value	
Amount 60 days before end date	357,125.55	
Total amount	600,200.73	
	59.50	

🖫 Expenses

The following detailed information is available in the values tab:

Total amount of costs dated maximum 60 days before the project end date;



- Total project costs (based on individual expenses);
- Percentage of costs dated maximum 60 days before the project end date compared to the total project costs

Links to further details

🖫 Expenses

The following links to further details are available:

• A link to the list with expenses dated maximum 60 days before the project end date

14.3.4.9 Contracted amount / annual turnover of the contractor retrieved via data enrichment

Description	This check will compare the contracted amount to the annual		
	turnover of the contractor (as mentioned in the financial		
	statements of the contract year, data from Orbis). The objective		
	of the alert is to identify contracts for which the amount is high		
	compared to the turnover of the contractor.		
Level of calculation	The check is performed for each contract		
Peer group	Sector (Operational Program + Project type)		
Input data	The following data is used to calculate the alert:		
	 Contract amount; 		
	 Turnover of the contractor based on the financial 		
	statements of the year of the contract (information		
	retrieved from Orbis).		
Calculated data	The following data is calculated for the alert:		
	 Percentage of contract amount compared to turnover of 		
	the contractor;		
	 Average percentage in the peer group. 		
	 Deviation of the percentage for the contract from the 		
	average percentage in the peer group.		
Alert value	The alert gets a value from 0 to 10 depending on the deviation of		
	the percentage (contract amount compared to turnover of the		
	contractor) for the contract from the average percentage in the		
	peer group. Additionally, an alert is generated if the percentage		
	is larger than 80% (value 8) or 100% (value 10).		
Project score	Highest score of the contracts that belong to the project		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information



Contracted amount vs annual turnover of the contractor	
Contracted amount vs annual turnover	
Values Tables	
Alert	Value
Average ratio in the peer group	0.02

The following detailed information is available in the values tab:

 Average percentage (contract amount compared to turnover of the contractor) in the peer group.

Cont	racted amount vs	annual turnover	of the contractor			×
Cont	racted amount vs ann	nual tumover				
_						
	Values	Tables				
	Contract name	Contractor name	Contracted amount	Turnover of the contractor	Ratio contracted amounts and tumover	Alert level
0	Fake Wrong VAT	Wrong VAT	255,124.06	2,000.00	127.56	10

The following detailed information is available in the tables tab (for each contract that has an alert value):

- Value of the alert;
- Name of the contract related to that alert value;
- Contract amount;
- Turnover of the contractor (retrieved from Orbis);
- Percentage of the contract amount compared to the turnover of the contractor

Links to further details

Scontract requests

The following links to further details are available:

Link to the contracts that have an alert value



14.3.4.10 External service provider

Description	This check will check to see if an external service provider is		
	mentioned in the contract to back up financial or technical risks.		
	An alert is generated if the is an external service provider.		
Level of calculation	The check is performed for each contract		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 External service provider (name sourced by the Member 		
	States)		
Calculated data	The following data is calculated for the alert:		
	Number of external service providers sourced (by the		
	Member State) for the contract		
Alert value	The alert gets a value 10 is 1 or more external service providers is		
	mentioned in the contract to back up financial or technical risks.		
Project score	Highest score of the contracts that belong to the project		
Applicable project types	DG Regio Infrastructural projects		

Pop-up information

External service provider		
External service provider		
Values Tables		
Alert	Value	
Number of external providers	1	

The following detailed information is available in the values tab:

Number of external service providers linked to the contract

External service provider
External service provider
Values Tables External Providers
0 PL016298263

The following detailed information is available in the tables tab:

• Name(s) of the external service provider(s) linked to the contract

Links to further details



14.3.5 Eligibility

14.3.5.1 Project costs outside eligibility period - before start date

Description	This check will look for costs dated before the project has		
	started.		
Level of calculation	The check is performed for each project		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Project start date 		
	 Expense invoice date 		
Calculated data	Not applicable		
Alert value	The alert gets a value 10 if there are any expenses for which the		
	invoice date is dated before the project start date.		
Project score	Alert value		
Applicable project types	All projects		

Pop-up information

oject costs outside eligibility period - before start date	l
ject costs outside eligibility period - before start date	
Values	
Values	
Alert	Value
Number of invoices before start date	1
Number of invoices	13
	3,027.41
Amount of invoices before start date	

The following detailed information is available in the values tab:

- Number of expenses with an invoice date before the start date of the project;
- Total number of expenses linked to the project;
- Total amount of expenses with an invoice date before the start date of the project;
- Total amount of all expenses linked to the project.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

• Link to the expenses with an invoice date before the start date of the project.



14.3.5.2 Project costs outside eligibility period - after end date

Description	This check will look for costs dated after the project end date.	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Project end date 	
	 Expense invoice date 	
Calculated data	Not applicable	
Alert value	The alert gets a value 10 if there are any expenses for which the	
	invoice date is dated after the project end date.	
Project score	Alert value	
Applicable project types	All projects	

Pop-up information

oject costs outside eligibility period - after end date	
ject costs outside eligibility period - after end date	
Values	
Alert	Value
Number of invoices after project end	2
Number of invoices	13
	61,265.76
Amount of invoices after project end	01,200.70

The following detailed information is available in the values tab:

- Number of expenses with an invoice date after the end date of the project;
- Total number of expenses linked to the project;
- Total amount of expenses with an invoice date after the end date of the project;
- Total amount of all expenses linked to the project.

No detailed information is available in the tables tab

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the expenses with an invoice date after the end date of the project



14.3.5.3 Difference (average per project) between invoice date and payment date

Description	The alert identifies projects for which the average delay between
	the invoice date and payment date for expenses is high.
Level of calculation	The check is performed for each contract
Peer group	Operational program for ESF and SME, sector for Infrastructure
Input data	The following data is used to calculate the alert:
	 Invoice date (of expenses);
	 Payment date (of expense)
Calculated data	The following data is calculated for the alert:
	 Difference between invoice date and payment date for
	each expense (in days);
	 Average difference for each project;
	 Average difference within the peer group;
	 Deviation of the average difference for the project from
	the average difference in the peer group
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the average difference for the project from the average
	difference in the peer group. Additionally, a score of 10 is
	generated if the average difference for the project exceeds 40
	days (for ESF projects) or 90 days (for ERDF projects).
Project score	Alert value
Applicable project types	All projects

Pop-up information

ference between invoice and payment dates	
Values	
Alert	Value
Alert Average of difference between invoice and payment dates (project)	908.33

The following detailed information is available in the values tab:

- Average difference between invoice date and payment date (for all expenses linked to the project);
- Average difference between invoice date and payment date for all expenses within the peer group;
- Standard deviation of difference between invoice date and payment date in the peer group

No detailed information is available in the tables tab.

Links to further details



🖫 Expenses

The following links to further details are available:

• Link to all expenses related to the project

14.3.5.4 High percentage of cost allocations during the last 14 days before Project end date

Description	This check identifies projects for which a high percentage of the
Description	
	expenses is dated in the last 14 days before the project end date.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Expense amount;
	 Expense invoice date;
	 Project end date;
Calculated data	The following data is calculated for the alert:
	 Total amount of expenses with an invoice date dated
	within 14 days before the project end date;
	 Total amount of all expenses related to the project;
	Percentage of expenses dated within 14 days before the
	project end date compared to the total expense amount
Alert value	The alert gets a value from 0 to 10 depending on the percentage
	of expenses that have an invoice date within 14 days before the
	project end date.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

h percentage of cost allocations within the last 14 days	
Values	
Alert	Value
Amount of expenses within last 14 last days	8,736.12
Total amount	17,118.18
	51.03

The following detailed information is available in the values tab:

- Total amount of the expenses with an invoice date within 14 days before the project end date;
- Total amount of expenses related to the project;
- Percentage of the expenses with an invoice date within 14 days before the project end date compared to the total amount of expenses related to the project.

No detailed information is available in the tables tab.



Links to further details

🖫 Expenses

The following links to further details are available:

• Link to the expenses with an invoice date within 14 days before the project end date.

14.3.5.5 Expenses with round amounts

Description	This check will identify expenses with round amounts. The objective of the alert is to identify projects for which a high amount of the total expenses is claimed via round amount expenses
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Expense amount
Calculated data	 The following data is calculated for the alert: Total amount for expenses with a round amount; Total amount of expenses; Percentage of round amount expenses compared to the total amount of expenses
Alert value	The alert gets a value from 0 to 10 depending on percentage of expense amounts that are round amounts compared to the total expense amounts.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

penses with round amounts	
penses with round amounts	
Values	
Alert	Value
Number of expenses with round amounts	1
Number of expenses	13
Amount of expenses with round amount	50,000.00
Amount of total expenses	276,587.02
Percentage of expenses with round amounts	18.08

The following detailed information is available in the values tab:

- Number of expenses with round mounts;
- Total number of expenses;
- Total amount of expenses with round amounts;
- Total amount of expenses;
- Percentage of expenses with round amounts compared to the total project amounts.

No detailed information is available in the tables tab.



Links to further details

🖫 Expenses

The following links to further details are available:

• Link to the expenses with a round amount.

14.3.5.6 Duplicate amounts within expenses

Description	This check will identify expenses with duplicate amounts. The objective of the alert is to identify projects for which a high amount of the total expenses is claimed via duplicate amount
	expenses
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Expense amount
Calculated data	The following data is calculated for the alert:
	 Total amount for expenses with a duplicate amount;
	 Total amount of expenses;
	 Percentage of duplicate amount expenses compared to
	the total amount of expenses
Alert value	The alert gets a value from 0 to 10 depending on percentage of
	expense amounts that are duplicate amounts compared to the
	total expense amounts.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

Duplicate amounts within expenses	×
Duplicate amounts within expenses	
Values	
Alert	Value
Number of expenses with duplicate amounts	89
Number of expenses	300
Amount of expenses with duplicate amount	12,801.76
Amount of total expenses	115,844.74
Percentage of expenses with duplicate amounts	11.05

The following detailed information is available in the values tab:

- Number of expenses with duplicate mounts;
- Total number of expenses;
- Total amount of expenses with duplicate amounts;
- Total amount of expenses;
- Percentage of expenses with duplicate amounts compared to the total project amounts.



Links to further details

🖫 Expenses

The following links to further details are available:

Link to the expenses with duplicate amounts.

14.3.5.7 Negative expenses

Description	This check will identify expenses with pegative amounts. The
Description	This check will identify expenses with negative amounts. The
	objective of the alert is to identify projects for which a high
	amount of the total expenses is claimed via negative amount
	expenses
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Expense amount
Calculated data	The following data is calculated for the alert:
	 Total amount for expenses with a negative amount;
	 Total amount of expenses;
	 Percentage of negative amount expenses compared to
	the total amount of expenses
Alert value	The alert gets a value from 0 to 10 depending on percentage of
	expense amounts that are negative amounts compared to the
	total expense amounts.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

gative expenses	
Values	
Alert	Value
Number of expenses	127
Amount of total expenses	102,613.41
Number of expenses with negative amounts	1
Amount of expenses with negative amount	-16,992.00
Percentage of expenses with negative amounts	16.56

The following detailed information is available in the values tab:

- Total number of expenses;
- Total amount of expenses;
- Number of expenses with negative mounts;



- Total amount of expenses with negative amounts;
- Percentage of expenses with negative amounts compared to the total project amounts.

Links to further details

🖫 Expenses

The following links to further details are available:

• Link to the expenses with negative amounts.

14.3.5.8 Beneficiaries with invalid VAT number

Description	This check will validate the beneficiary VAT number through a 'structure check'. The objective is to identify projects for which the VAT number of the beneficiary does not comply with the 'VAT structure requirements' as mentioned on the VIES website of the European Commission.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:VAT number of the beneficiary
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the VAT number of the beneficiary does not meet the structural requirements as mentioned on the VIES website of the European Commission.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

neficiaries with invalid VAT number	
Met and	
Values	
Alert	Value
	Foglalkoztatási Hivatal
Beneficiary name	i ogiaikoztatasi i livatai
Beneficiary name VAT Number of the beneficiary	15312778-2-42

The following detailed information is available in the values tab:

- Name of the beneficiary;
- Country code of the beneficiary;
- VAT number of the beneficiary



Links to further details

Selated companies

The following links to further details are available:

Link to the beneficiary of the project (list)

14.3.5.9 Suppliers with invalid VAT number

Description	This check will validate the supplier VAT number through a 'structure check'. The objective is to identify projects for which the VAT number of any of the suppliers does not comply with the 'VAT structure requirements' as mentioned on the VIES website of the European Commission.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Supplier VAT number
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the VAT number of one of the
	suppliers related to the project does not meet the structural
	requirements as mentioned on the VIES website of the European
	Commission.
Project score	Alert value
Applicable project types	ESF and SME

Pop-up information

Suppliers with invalid VAT number

X

Suppliers with invalid VAT number

	Supplier name	VAT Number of the supplier	Country code of the supplier	VIES result
0	DAINIPPON SCREEN (NEDERLAND) BV	33163141	NL	Invalid
1	CORNEA EXPERT CONTA SRL	23487852	RO	Valid
2	lalpress SRL	16981739	RO	Valid
3	PUNCT ADVERTISING SRL	15568549	RO	Valid
4	FUNDATIA RO 2000	11186392	RO	Valid

The following detailed information is available in the tables tab:

- Name of the suppliers, limited to 30 as a preview;
- VAT number of the suppliers;
- Country code of the suppliers;
- VIES result of the VAT check.

No detailed information is available in the values tab.



Links to further details

Scontract requests

The following links to further details are available:

 Link to the list of related contracts (through with the suppliers are linked to the project). Starting from this list, the user can navigate to the concerned suppliers (right-mouse-click -> contractor).

14.3.5.10 Project total cost (declared to the EC) / Turnover of the beneficiary when the application was approved, retrieved via data enrichment

Description	This check will look at the total project cost versus the turnover		
Description	of the beneficiary at the moment that the project application		
	was approved (as mentioned in the financial statements of the		
	project year, data from Orbis). The objective of the alert is t		
	identify projects for which the project cost compared to the		
	beneficiary turnover is high.		
Level of calculation	The check is performed for each project		
Peer group	Sector (Operational Program + Project type)		
Input data	The following data is used to calculate the alert:		
	 Project cost ; 		
	 Project start date; 		
	 Turnover of the beneficiary (as mentioned in the 		
	financial statements of the project start year, this		
	information is retrieved from Orbis).		
Calculated data	The following data is calculated for the alert:		
	 Percentage of project cost compared to the turnover of 		
	the beneficiary;		
	 Average percentage in the peer group; 		
	 Deviation of the percentage for the project from the 		
	average percentage in the peer group.		
Alert value	The alert gets a value from 0 to 10 depending on the deviation of		
	the percentage (project cost compared to turnover of the		
	beneficiary) from the average percentage in the group. An alert		
	value is generated if the average percentage for the project is		
	larger than the average value in the peer group.		
Project score	Alert value		
Applicable project types	ESF and SME		

Pop-up information



ject cost vs annual beneficiary tumover		
Values		
Alert	Value	
	891,348.51	
Project costs		
•	21,000.00	
Project costs Tumover of the beneficiary Ratio project cost and annual tumover of the beneficiary	21,000.00 4,244.52	

The following detailed information is available in the values tab:

- Project cost;
- Turnover of the beneficiary retrieved from the Orbis financial statements of the year in which the project started;
- Percentage of project cost compared to beneficiary turnover (for the project);
- Average percentage (project cost/beneficiary turnover) in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.5.11 Expenses higher than assistance

Description	This check will look for projects where the total expenses exceed	
Beschption	the EC assistance	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Expenses (line items as sourced by the Member State); 	
	 EC assistance amount 	
Calculated data	The following data is calculated for the alert:	
	 Total amount of expenses 	
Alert value	The alert gets a value of 10 when the total amount of expenses	
	(based on the line items sourced) is larger than the EC assistance	
	amount.	
Project score	Alert value	
Applicable project types	ESF	

Pop-up information


Expenses higher than assistance	
Expenses higher than assistance	
Values	
Alert	Value
Total amount of expenses	85,133.76
EC financial assistance	81,365.83

- Total amount of expenses;
- EC assistance amount.

No detailed information is available in the tables tab.

Links to further details

Stepenses

The following links to further details are available:

• Link to the expenses related to the project.

14.3.5.12 Contractors with invalid VAT number

Description	This check will validate the contractor VAT number through a 'structure check'. The objective is to identify projects for which the VAT number of any of the contractors does not comply with the 'VAT structure requirements' as mentioned on the VIES website of the European Commission.	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 VAT number of the contractor 	
Calculated data	Not applicable	
Alert value	The alert gets a value of 10 when the VAT number of one of the contractors related to the project does not meet the structural requirements as mentioned on the VIES website of the European Commission.	
Project score	Alert value	
Applicable project types	DG Regio - Infrastructure	



X

Contractors with invalid VAT number - Infrastructural

Contractors with invalid VAT number - Infrastructural

Contractor name	VAT Number of the contractor	Country code of the contractor	VIES result	-
SADE Magyarország Mélyépítő Kft	11097875-2-43	HU	Invalid	
SADE Magyarország Mélyépítő Kft	11097875-2-43	HU	Invalid	
Kulturális Örökségvédelmi Szakszolgálat	15327868-2-41	HU	Invalid	
SADE Magyarország Mélyépítő Kft	11097875-2-43	HU	Invalid	
Pálfi Gábor	65012057-2-41	HU	Invalid	
Cséffai János	71434463-3-24	HU	Invalid	

The following detailed information is available in the tables tab:

- Name of the contractors, limited to 30 as a preview;
- VAT number of the contractors;
- Country code of the contractors;
- VIES result of the VAT check.

No detailed information is available in the values tab.

Links to further details

Selated companies

The following links to further details are available:

• Link to the list of related contractors.

14.3.5.13 Sub-contractors with invalid VAT number

Description	This check will validate the sub-contractor VAT number through a 'structure check'. The objective is to identify projects for which the VAT number of any of the sub-contractors does not comply with the 'VAT structure requirements' as mentioned on the VIES website of the European Commission.	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 VAT number of the sub-contractor 	
Calculated data	Not applicable	
Alert value	The alert gets a value of 10 when the VAT number of one of the sub-contractors related to the project does not meet the structural requirements as mentioned on the VIES website of the European Commission.	
Project score	Alert value	
Applicable project types	DG Regio - Infrastructure	



X

SubContractors with invalid VAT number - Infrastructural

SubContractors with invalid VAT number - Infrastructural

	Tables			
	SubContractor name	VAT Number of the subcontractor	Country code of the subcontractor	VIES result
0	BISNODE BELGIUM HOLDING	0418893510	BE	Valid

The following detailed information is available in the tables tab:

- Name of the sub-contractors, limited to 30 as a preview;
- VAT number of the sub-contractors;
- Country code of the sub-contractors;
- VIES result of the VAT check.

No detailed information is available in the values tab.

Links to further details

Selated companies

The following links to further details are available:

• Link to the list of related sub-contractors.

14.3.5.14 Expenditure paid for the purchase of the Land per Project/ Project total cost

Description	This check will return the percentage of total amounts used to		
	pay for the purchase of land versus the total project cost		
Level of calculation	The check is performed for each project		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Expenditure paid for the purchase of land; 		
	Project cost		
Calculated data	The following data is calculated for the alert:		
	 Percentage of expenditure paid for the purchase of land 		
	compared to the total project cost		
Alert value	The alert gets a value of 10 when the percentage of expenditure		
	paid for the purchase of land compared to the project cost		
	exceeds 10%.		
Project score	Alert value		
Applicable project types	DG Regio - Infrastructure		



nd expenses vs project cost		
Values		
Alert	Value	
Project cost	539,640.00	
Project cost Land purchase cost	539,640.00 211,200.00	

- Project cost;
- Cost for the purchase of land;
- Percentage: cost for the purchase of land / project cost.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.6 Performance

Description	This check will compare the number of people that were actually trained, versus the people that needed to be trained as agreed in the contract and defines this as the performance progress. Project progress has been defined as the actual project expenses compared to the project cost as agreed on in the project application. The objective is to identify projects for which the performance progress is lower than the project progress.		
Level of calculation	The check is performed for each project		
Peer group	Not applicable		
Input data	 The following data is used to calculate the alert: Number of people trained (actual); Number of people to be trained (as agreed in the contract); Project cost; Project expenses 		
Calculated data	 The following data is calculated for the alert: Performance progress: number of people trained / number of people to be trained; Project progress: sum of project expenses / project cost 		
Alert value	The alert gets a value of 5 or 10 depending on the deviation of the performance progress from project progress. An alert is generated if the performance progress is at least 10% less than the project progress.		
Project score	Alert value		
Applicable project types	ESF		

Pop-up information

X Number of people trained vs to be trained Number of people trained vs to be trained Values Alert Value Number of people trained 3 28 Number of people to be trained Percentage people trained 10.71 Project progress 40.91 Difference between project progress and number of people trained 30

The following detailed information is available in the values tab:

- Number of people trained;
- Number of people to be trained;
- Performance progress (percentage of people trained);
- Project progress;
- Difference between the project progress and the performance progress.



No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.2 Hours of training provided / Hours of training to be provided (agreed in the Contract)

Description	This check will compare the total number of training hours that		
- could un	have been provided, versus the total number of hours of training		
	that needed to be provided as mentioned in the contract and		
	defines this as the performance progress. Project progress has		
	been defined as the actual project expenses compared to the		
	project cost as agreed on in the project application. The		
	objective is to identify projects for which the performance		
	progress is lower than the project progress.		
Level of calculation	The check is performed for each project		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Hours of training provided (actual) 		
	 Hours of training to be provided (as agreed in the 		
	contract);		
	 Project cost; 		
	 Project expenses 		
Calculated data	The following data is calculated for the alert:		
	 Performance progress: hours of training provided / 		
	hours of training to be provided;		
	 Project progress: sum of project expenses / project cost 		
Alert value	The alert gets a value of 5 or 10 depending on the deviation of		
Alert value	the performance progress from project progress. An alert is		
	generated if the performance progress is at least 10% less than		
	the project progress.		
Project score	Alert value		
	ESF		
Applicable project types	EJF		

ours of training provided vs to be provided	
Values	
Alert	Value
Number of hours of training to be provided	40
Number of hours of training provided	20
Percentage hours of training provided	50.00
Project progress	80.64
Difference between project progress and hours of	30.64



- Hours of training to be provided;
- Hours of training provided;
- Performance progress (percentage of hours of training provided vs to be provided);
- Project progress;
- Difference between the project progress and the performance progress.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.3 Training hour cost (actually incurred) / Training hour cost (on the basis of the approved budget)

Description	This check will compare the actual cost per training hour provided, versus the agreed hourly costs as mentioned in the project budget. The objective of the alert is to identify projects for which the actual cost per training hour is higher than the agreed cost per training hour.		
Level of calculation	The check is performed for each project.		
Peer group	Not applicable		
Input data Calculated data	 The following data is used to calculate the alert: Hours of training provided; Hours of training to be provided (as agreed in the contract); Project expenses; Project cost (as mentioned in the contract); The following data is calculated for the alert: 		
	 Actual cost per training hour: sum of project expenses / hours of training provided Agreed cost per training hour: project cost / hours of training to be provided. 		
Alert value	The alert gets a value of 5 or 10 depending on the deviation of the actual cost per training hour from the agreed cost per training hour. An alert is generated if the actual cost per training hour is at least 10% higher than the agreed cost per training hour.		
Project score	Alert value		
Applicable project types	ESF		



×

Training hour cost incurred vs approved

Training hour cost incurred vs approved

Values	
Alert	Value
Number of hours of training to be provided as agreed	40
Number of hours of training provided	20
Project costs actual	707,434.36
Project costs as agreed	877,286.50

The following detailed information is available in the values tab:

- Hours of training to be provided;
- Hours of training provided;
- Actual project costs (sum of expenses);
- Project cost

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.4 Number of additional personnel after the Project is finished (latest available information) /
Number of additional personnel (of the beneficiary) to be employed as agreed in the Project

Description	This check will compare the number of staff when the project is finished, and the number of staff to be employed as agreed in the contract and defines this as the 'realization rate'. The objective of the alert is to identify projects for which the realization rate is lower than the average realization rate in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Sector (Operational Program + Project type)	
Input data	 The following data is used to calculate the alert: Additional personnel after the project is finished (latest available information); Additional personnel (target, as agreed in the project) 	
Calculated data	 The following data is calculated for the alert: Realization rate: additional personnel after the project is finished / additional personnel as agreed Average realization rate in the peer group Deviation of the realization rate of the project from the average realization rate. 	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the realization rate of the project from the average realization rate in the peer group. Additionally, an alert is generated if the realization rate of the project is less than 50%.	
Project score	Alert value	
Applicable project types	SME	



Pop-up information

mber of additional personnel after project end vs as agreed		
Values		
Alert	Value	
	value	
Number of additional personnel actual	12	
	12 13	
Number of additional personnel actual Number of additional personnel as agreed Ratio number of additional personnel at project end vs agreed		

The following detailed information is available in the values tab:

- Number of additional personnel actual (after the project is finished);
- Number of additional personnel as agreed;
- Realization rate: number of additional personnel actual / number of additional personnel as agreed;
- Average realization rate in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.6.5 Number of additional personnel as agreed in the Project / Number of personnel (of the beneficiary) when the application was approved

Description	This check will check the number of staff that will be employed (as mentioned in the contract) versus the number of staff when the application was approved. The objective of the alert is to identify projects for which this performance metric is lower than the average value in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector (Operational Program + Project type)
Input data	 The following data is used to calculate the alert: Number of additional personnel as agreed in the project; Number of personnel when the application was approved
Calculated data	 The following data is calculated for the alert: Percentage of additional personnel as agreed compared to the number of personnel when the application was approved; Average percentage in the peer group; Deviation of the percentage for the project from the average percentage in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the percentage (additional personnel as agreed versus personnel when the application was approved) of the project from the average percentage in the peer group. Additionally, an alert is generated if the percentage is larger than 50%.
Project score	Alert value
Applicable project types	SME

Pop-up information

mber of additional personnel as agreed vs as submitted		
Values		
values		
Alert	Value	
	11	
Number of additional personnel as agreed		
	17	
Number of additional personnel as agreed Number of personnel when submitted Average of the ratio in the peer group	17 0.71	

The following detailed information is available in the values tab:

- Number of additional personnel as agreed;
- Number of personnel (of the beneficiary) when the application was approved;
- Average percentage in the peer group (additional personnel versus personnel when the application was approved);
- Percentage for the project.

No detailed information is available in the tables tab.



Links to further details

No links to further details are available.

14.3.6.6 Additional Turnover (of the beneficiary) after the Project is finished (latest available information) / Additional Turnover (of the beneficiary) as agreed in the Project when the project was approved

Description	This check will compare the additional turnover of the beneficiary when the project has finished, versus the additional turnover that was foreseen in the project application and defines this as the 'realization rate'. The objective of the alert is to identify projects for which the realization rate is lower than the average realization rate in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector (Operational Program + Project type)
Input data	 The following data is used to calculate the alert: Additional turnover (beneficiary) when the project is finished; Additional turnover (beneficiary) as agreed in the project application
Calculated data	 The following data is calculated for the alert: Realization rate: additional turnover when the project is finished / additional turnover as agreed; Average realization rate in the peer group; Deviation of the realization rate of the project from the average realization rate in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the realization rate for the project from the average realization rate in the peer group. Additionally, an alert is generated if the realization rate is less than 50%.
Project score	Alert value
Applicable project types	SME

Pop-up information

litional turnover at project end over additional turnover as agreed ratio	
Values	
Values	
Vert	Value
Additional tumover actual	110,186.00
dditional turnover as agreed	63,776.39
Difference number of additional turnover at project end vs as agreed	1.73
	1.82

The following detailed information is available in the values tab:

Additional turnover (beneficiary) when the project is finished;



- Additional turnover (beneficiary) as agreed in the project application;
- Realization rate (difference number of additional turnover at project end vs. as agreed);
- Average realization rate in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.7 Additional Turnover (of the beneficiary) as agreed in the Project when the project was approved / Turnover of the beneficiary when the application was approved (when the Project starts, given in the data)

Description	This check will compare the additional turnover of the beneficiary as agreed in the project application, versus the actual turnover amount of the beneficiary when the application was approved. The objective of the alert is to identify projects for which this performance metric is lower than the average value in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector (Operational Program + Project type)
Input data	 The following data is used to calculate the alert: Additional turnover (beneficiary) as agreed in the project application; Turnover (beneficiary) when the application was approved
Calculated data	 The following data is calculated for the alert: Percentage of additional turnover as agreed compared to the turnover when the application was approved; Average percentage in the peer group; Deviation of the percentage for the project from the average percentage in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the percentage (additional turnover as agreed vs turnover when the application was approve) of the project from the average percentage in the peer group. Additionally, an alert is generated if the percentage is larger than 50%.
Project score	Alert value
Applicable project types	SME



×

Additional turnover as agreed vs as submitted

Additional agreed turnover over submitted turnover ratio

Values	
Alert	Value
Additional tumover as agreed	63,775.39
Tumover at approval	6,786.00
Difference additional turnover as agreed vs beneficiary's turnover at approval	9.40
Average of the ratio in the peer group	2.29

The following detailed information is available in the values tab:

- Additional turnover (beneficiary) as agreed in the project application;
- Turnover (beneficiary) when the application was approved;
- Percentage (additional turnover as agreed versus turnover when the application was approved);
- Average percentage in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.8 Project total cost (declared to the EC)/ Length in km per Project (Per Type of Road)

Description	This check will return the total project cost per km for road	
	projects. The objective is to identify projects for which the cost	
	per km is larger than the average cost in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Same road type in the same Member State	
Input data	The following data is used to calculate the alert:	
	Project cost	
	 Length of road in km 	
Calculated data	The following data is calculated for the alert:	
	 Cost per km (project cost / length of road in km); 	
	 Average cost in the peer group; 	
	 Deviation of the cost per km for the project from the 	
	average cost in the peer group.	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of	
	costs per km for the project from the average cost per km in the	
	peer group.	
Project score	Alert value	
Applicable project types	Road	



 \mathbf{X}

Project cost vs km road constructed

Project cost vs km road constructed

Values	
Alert	Value
Length of road constructed in km	84.00
Project cost	5,677,577.00
Ratio project cost and length of the road in km	67,590.20
Average of the ratio in the peer group	22,235.80

The following detailed information is available in the values tab:

- Length of road in km;
- Project cost;
- Cost per km (project cost / length of road in km);
- Average cost per km in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.9 Project total cost (declared to the EC) / Length in km per Project

Description	This check will return the total project costs per km for rail
Description	projects. The objective is to identify projects for which the cost
	per km is larger than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Same rail type in the same Member State
Input data	The following data is used to calculate the alert:
	 Project cost;
	 Length of rail in km
Calculated data	The following data is calculated for the alert:
	 Cost per km (project cost / length or rail in km);
	 Average cost in the peer group;
	Deviation of the cost per km for the project from the
	average cost per km in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	costs per km for the project from the average cost per km in the
	peer group.
Project score	Alert value
Applicable project types	Rail



roject cost vs km rail constructed	
Values	
Alert	Value
	578.00
Length of rail constructed in km	64,959,590.00
Length of rail constructed in km Project cost	04,000,000.00
-	112,386.83

- Length of rail in km;
- Project cost;
- Cost per km (project cost / length of rail in km);
- Average cost per km in the peer group

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.10 Project total cost (declared to the EC) / Quantity of Solid Waste to be treated, in tons, when the project was approved

Description	This check will return the project cost per ton of solid waste to	
	be treated. The objective is to identify projects for which the cost	
	per ton is larger than the average cost in the peer group	
Level of calculation	The check is performed for each project	
Peer group	Sector	
Input data	The following data is used to calculate the alert:	
	 Project cost; 	
	 Quantity of solid waste to be treated (in tons, as agreed 	
	in the project application)	
Calculated data	The following data is calculated for the alert:	
	 Project cost per ton (of solid waste to be treated); 	
	 Average project cost per ton in the peer group; 	
	 Deviation of the project cost per ton for the project from 	
	the average project cost per ton in the peer group.	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of	
	costs per ton (of solid waste to be treated) for the project from	
	the average cost per km in the peer group.	
Project score	Alert value	
Applicable project types	Solid waste	



X

Project cost vs quantity of solid waste to be treated

Project cost vs quantity of solid waste to be treated

Values	
Alert	Value
Quantity of solid waste to be treated	27,000.00
Project cost	884,012.40
Ratio project cost and quantity of solid waste to be treated at approval	32.74
Average of the ratio in the peer group	18.99

The following detailed information is available in the values tab:

- Quantity of solid waste to be treated (in tons, as agreed in the project application);
- Project cost;
- Project cost per ton (for the project);
- Average project cost per ton in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.6.11 Quantity of Solid Waste treated, in tons, after the Project is finished (latest available information) / Quantity of Solid Waste to be treated, in tons, when the project was approved

Description	This check returns a ratio that compares the quantity of solid waste treated when the project is finished to the quantity to be treated (when the project was approved) and defines this as the realization rate. The objective of the alert is to identify projects for which the realization rate is lower than the average realization rate in the peer group, or low in general.	
Level of calculation	The check is performed for each project	
Peer group	Sector	
Input data	 The following data is used to calculate the alert: Quantity of solid waste treated (after the project is finished, based on the latest available information, in tons); Quantity of solid waste to be treated (as agreed in the project application, in tons) 	
Calculated data	 The following data is calculated for the alert: Realization rate: quantity of solid waste treated / quantity of solid waste to be treated; Average realization rate in the peer group; Deviation of the realization rate of the project from the average realization rate in the peer group. 	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the realization rate (quantity of solid waste treated vs quantity of solid waste to be treated) from the average realization rate in the peer group. Additionally, when the realization rate is less than 70%, 50% or 30% an alert is generated.	
Project score	Alert value	
Applicable project types	Solid Waste	

Pop-up information

	X
Value	
56,000.00	
47,896.00	
0.86	
0.00	11
	56,000.00 47,896.00

The following detailed information is available in the values tab:

- Quantity of solid waste to be treated (as agreed in project application, in tons);
- Quantity of solid waste treated (when the project is finished, in tons);
- Realization rate (quantity of solid waste treated vs quantity of solid waste to be treated);
- Average realization rate in the peer group



No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.12 Cost relating to the Waste Water Treatment Component of the Project / Population Equivalent to benefit from the waste water treatment (as agreed when the project was approved)

Description	This check will return the cost of the water waste component per	
Description	population equivalent to benefit from the water waste	
	treatment. The objective of the alert is to identify projects for	
	which the cost per population equivalent is higher than the	
	average cost in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Sector	
Input data	The following data is used to calculate the alert:	
	 Cost relating to the waste water treatment component 	
	of the project;	
	 Population equivalent to benefit from the waste water 	
	treatment (as agreed in the project application)	
Calculated data	The following data is calculated for the alert:	
	 Cost per population equivalent (cost relating to the 	
	waste water treatment component of the project /	
	Population equivalent to benefit from the waste water	
	treatment);	
	 Average cost per population equivalent in the peer 	
	group;	
	 Deviation of the average cost per population equivalent 	
	for the project from the average cost per population equivalent	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of	
Alert Value	the average cost per population equivalent (cost relating to the	
	waste water treatment component of the project / Population	
	equivalent to benefit from the waste water treatment) for the	
	project from the average cost per population equivalent in the	
	peer group.	
Project score	Alert value	
Applicable project types	Waste water or supply	



N cost vs population to benefit	
Values	
Values	
Alert	Value
Avent	
Perulation benefiting to the treatment at approval	486.00
	486.00 920,654.00
Population benefiting to the treatment at approval	

- Population equivalent to benefit from the waste water treatment (as agreed in the project application);
- Cost relating to the waste water treatment component of the project;
- Cost per population equivalent (cost relating to the waste water treatment component of the project / Population equivalent to benefit from the waste water treatment);
- Average cost per population equivalent in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.6.13 Cost relating to the Waste Water Treatment Component of the Project / Population Equivalent benefiting from the waste water treatment (latest available information)

Description	This check will return the cost of the water waste component per population equivalent benefiting from the water waste treatment. The objective of the alert is to identify projects for which the cost per population equivalent is higher than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector
Input data	 The following data is used to calculate the alert: Cost relating to the waste water treatment component of the project; Population equivalent benefiting from the waste water treatment (actual, latest available information)
Calculated data	 The following data is calculated for the alert: Cost per population equivalent (cost relating to the waste water treatment component of the project / population equivalent benefiting from the waste water treatment); Average cost per population equivalent in the peer group; Deviation of the average cost per population equivalent for the project from the average cost in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the average cost per population equivalent (cost relating to the waste water treatment component of the project / population equivalent benefiting from the waste water treatment) for the project from the average cost per population equivalent in the peer group.
Project score	Alert value
Applicable project types	Waste water or supply

Pop-up information

۷	VW cost vs population benefiting		X
١	WW cost vs population benefiting		
Γ	Values		
	Alert	Value	
	Population benefiting to the treatment actual	400.00	
	Waste water treatment component cost	920,654.00	
	Ratio Water Waste cost and population benefiting to the treatment actual	2,301.64	
	Average ratio in the peer group	550.46	

The following detailed information is available in the values tab:

- Population equivalent benefiting from the waste water treatment (actual, latest available information);
- Cost relating to the waste water treatment component of the project;



- Cost per population equivalent (cost relating to the waste water treatment component of the project / population equivalent benefiting from the waste water treatment);
- Average cost per population equivalent in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.14 Cost relating to the Sewage Network Component of the Project / Length of sewage network to be renovated / constructed in km

Description	This check will return the cost of the sewage network component	
	per km of renovated or constructed sewage. The objective of	
	the alert is to identify projects for which the cost per km is higher	
	than the average cost in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Sector	
Input data	The following data is used to calculate the alert:	
	 Cost relating to the sewage network component; 	
	Length of sewage network to be renovated/constructed	
	in km	
Calculated data	The following data is calculated for the alert:	
	 Cost per km (cost relating to the sewage network 	
	component / length of sewage network to be	
	renovated/constructed in km);	
	 Average cost per km in the peer group; 	
	 Deviation of the cost per km for the project from the 	
	average cost per km in the peer group.	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of	
	the cost per km (cost relating to the sewage network component	
	/ length of sewage network to be renovated/constructed in km)	
	for the project from the average cost per km in the peer group.	
Project score	Alert value	
Applicable project types	Waste water or supply	



Pop-up information

Cost of sewage renovation vs km to be renovated		\mathbf{X}
Cost of sewage renovation vs km to be renovated		
Values		
Alert	Value	
Length of sewage network to be renovated	2.06	
Cost relating to the sewage network component	1,752,630.00	
	850.791.26	
Ratio Sewage renovation cost and km renovated		

The following detailed information is available in the values tab:

- Length of sewage network to be renovated/constructed in km;
- Cost relating to the sewage network component;
- Cost per km (cost relating to the sewage network component / length of sewage network to be renovated/constructed in km);
- Average cost per km in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.6.15 Cost relating to the Water supply plant component of the Project / Population to benefit from the water supply network (as agreed when the project was approved)

Description	This check will return the cost of the water supply plant component per population equivalent to benefit from the water supply network. The objective of the alert is to identify projects for which the cost per population equivalent is higher than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector
Input data	 The following data is used to calculate the alert: Cost relating to the water supply plant component of the project; Population equivalent to benefit from the water supply network (as agreed in the project application)
Calculated data	 The following data is calculated for the alert: Cost per population equivalent (cost relating to the water supply plant component of the project / population equivalent to benefit from the water supply network); Average cost per population equivalent in the peer group; Deviation of the average cost per population equivalent for the project from the average cost in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the average cost per population equivalent (cost relating to the water supply plant component of the project / population equivalent to benefit from the water supply network) for the project from the average cost per population equivalent in the peer group.
Project score	Alert value
Applicable project types	Waste water or supply

Pop-up information

ter supply cost vs population to benefit		
Veture		
Values		
Alert	Value	
	Value 50.00	
² opulation to be served by water supply network		
Alert Population to be served by water supply network Cost relating to the water supply component Ratio Water supply cost and population benefiting at approval	50.00	

The following detailed information is available in the values tab:

- Population equivalent to benefit from the water supply network (as agreed in the project application);
- Cost relating to the water supply plant component of the project;



- Cost per population equivalent (cost relating to the water supply plant component of the project / population equivalent to benefit from the water supply network);
- Average cost per population equivalent in the peer group;

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.16 Cost relating to the Water supply network component of the Project / Length of water supply network to be renovated/constructed in kms

Description	This check will return the cost related to the water supply network component per km of renovated or constructed water supply network. The objective of the alert is to identify projects for which the cost per km is higher than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector
Input data	 The following data is used to calculate the alert: Cost relating to the water supply network component; Length of water supply network to be renovated/constructed in km
Calculated data	 The following data is calculated for the alert: Cost per km (cost relating to the water supply network component / length of water supply network to be renovated/constructed in km); Average cost per km in the peer group; Deviation of the cost per km for the project from the average cost per km in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the cost per km (cost relating to the water supply network component / length of water supply network to be renovated/constructed in km) for the project from the average cost per km in the peer group.
Project score	Alert value
Applicable project types	Waste water or supply



ater supply cost vs km to be renovated		
Values		
Alert	Value	
Cost relating to the water supply network component	125,978.30	
Length of the water supply network to be renovated	1.07	
Ratio Water supply cost and length of supply constructed in km	117,736.73	
	35.328.11	

- Cost relating to the water supply network component;
- Length of water supply network to be renovated/constructed in km
- Cost per km (cost relating to the water supply network component / length of water supply network to be renovated/constructed in km);
- Average cost per km in the peer group;

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.17 Project total cost / urban development

Description	This check will return the project cost versus urban development in m^2 . The objective of this alert is to identify projects for which
	the cost per m ² is higher than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector
Input data	The following data is used to calculate the alert:
	 Project cost
	 Urban development (m²)
Calculated data	The following data is calculated for the alert:
	 Cost per m² (project cost / urban development);
	 Average cost per m² in the peer group;
	 Deviation of the cost per m² for project from the average
	cost in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the cost per m ² (project cost / urban development) for the
	project from the average cost in the peer group.
Project score	Alert value
Applicable project types	Energy Efficiency Urban



oject cost / Urban development	
ject cost / Urban development	
Values	
Values	
Alert	Value
/ VOIL	
	2,259,724.00
Project cost Urban development (m2)	2,259,724.00 20
Project cost	

- Project cost;
- Urban development (in m²);
- Cost per m² (project cost / urban development);
- Average cost per m² in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.

14.3.6.18 Project total cost / Energy decrease

Description	This check will return the project cost versus energy decrease in kWh/year. The objective of this alert is to identify projects for which the cost per kWh/year is higher than the average cost in the peer group.
Level of calculation	The check is performed for each project
Peer group	Sector
Input data	 The following data is used to calculate the alert: Project cost Energy decrease (kWh/year)
Calculated data	 The following data is calculated for the alert: Cost per kWh/year (project cost / energy decrease); Average cost per kWh/year in the peer group; Deviation of the cost per kWh/year for project from the average cost in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the cost per kWh/year (project cost / energy decrease) for the project from the average cost in the peer group.
Project score	Alert value
Applicable project types	Energy Efficiency Urban



- Energy decrease (in kWh/year);
- Project cost
- Cost per kWh/year (project cost / energy decrease);
- Average cost per kWh/year in the peer group.

No detailed information is available in the tables tab.

Links to further details

No links to further details are available.



14.3.7 Concentration

14.3.7.1 Beneficiaries involved in multiple Projects

Description	The objective of this check is to identify projects for which the beneficiary appears in multiple projects within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Project;
	 Beneficiary
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the beneficiary of the project is
	also involved, as beneficiary, in other projects in the same
	Member State.
Project score	Alert value
Applicable project types	All project types

Pop-up information

Beneficiaries involved in multiple projects		×
Beneficiaries in multiple projects		
Values Tables		
Alert	Value	
Beneficiary's number of projects	4	
Beneficiary's max number of projects in a same member state	4	

The following detailed information is available in the values tab:

- Number of projects in which the beneficiary is involved as beneficiary;
- Maximum number of projects in which the beneficiary is involved within the same Member State as beneficiary.

ene	eficiaries involved in multiple projects	_×
ene	ficiaries in multiple projects	
	Values Tables	
	Beneficiary's projects list	
0	FAKE-Project-link-subContractor	
1	FAKE-Project-link-subContractor	
2	FAKE-Project-supervision 1	

The following detailed information is available in the tables tab:

 The list of projects in which the beneficiary is involved as beneficiary, limited to 30 as a preview.



Links to further details

Selated companies

The following links to further details are available:

• Link to the beneficiary. Starting from this link, the user can further navigate to the projects in which the beneficiary is involved.

14.3.7.2 Beneficiaries involved in multiple operational programs

Description	The objective of this check is to identify projects for which the beneficiaries appear in multiple operational programs within the same Member State as beneficiary.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Projects; Operational Programs to which the projects belong; Beneficiaries of the projects.
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the beneficiary of the project is also involved in a project that belongs to another operational program within the same Member State as beneficiary.
Project score	Alert value
Applicable project types	All project types

Pop-up information

neficiaries in multiple OPs		
Values Tables		
Alert	Value	
Beneficiary's number of operational programs	2	
	•	

The following detailed information is available in the values tab:

- Number of operational programs in which the beneficiary is involved as beneficiary;
- Maximum of operational programs in which the beneficiary is involved within the same Member State as beneficiary.



	ficiaries involved in	multiple OPs
ene	ficiaries in multiple OPs	
	T-I	bles
	Values	Dies
	List of projects	List of Operational Programs
0	FAKE-Project-001/08	9999XA999XX001
1	FAKE-Project-002/08	9999XA999XX001
	FAKE-Project-003/08	9999XA999XX001
2		

- List of projects for the operational programs in which the beneficiary is involved;
- List of operational programs in which the beneficiary is involved, limited to 30 as a preview.

Links to further details

Selated companies

The following links to further details are available:

• Link to the beneficiary. Starting from this link, the user can further navigate to the projects in which the beneficiary is involved.

14.3.7.3 Project partners involved in multiple Projects

Description	The objective of this check is to identify projects for which the project partner appears in multiple projects within the same Member State as project partner.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:ProjectsProject partner
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the project partner of the project is involved in another project within the same Member State as project partner.
Project score	Alert value
Applicable project types	All project types



artners involved in multiple projects		
rtners involved in multiple projects		
Values Tables		
Alert	Value	
Project partner's number of projects	7	
	7	
Project partner's max number of projects in a same member state	· · · · · · · · · · · · · · · · · · ·	

- Number of projects in which the project partner is involved as project partner;
- Maximum number of projects in which the project partner is involved within the same Member State as project partner;
- Total amount (sum) of the project costs of the projects in which the project partner is involved as project partner.

Parti	ners involved	l in multi	ple proje	cts		X
Partn	iers involved in	multiple pr	ojects			
	Values	Tal	bles]		
	Project partne	ername	Project r	ame	Project cost	*
0	MOLENBERG	GNATIE	FAKE-Pr	oject-011/08	1,110,004.00	=
1	MOLENBERG	GNATIE	FAKE-Pr	oject-012/08	187,000,000.00	
2	MOLENBERG	GNATIE	FAKE-Pr	oject-027/08	261,241.84	
3	MOLENBERG	GNATIE	FAKE-Pr	oject-044/08	256,853.84	-
	MOLENDED		EAVE D.	000 /00	25 000 002 00	

The following detailed information is available in the tables tab:

- Name of the project partner;
- Name of the project in which the project partner is involved as project partner, limited to 30 as a preview;
- Cost of the project in which the project partner is involved as project partner.

Links to further details

Related companies

The following links to further details are available:

 Link to the project partner. Starting from this link, the user can further navigate to the projects in which the project partner is involved.



14.3.7.4 Project partners involved in multiple operational programs

Description	The objective of this check is to identify projects for which the project partner appears in multiple operational programs within the same Member State as a project partner
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Projects; Project partners of the project; Operation program to which the project belongs.
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when the project partner of the project is also involved, as project partner, in projects belonging to multiple operational programs within the same Member State.
Project score	Alert value
Applicable project types	All project types

Pop-up information

Partners involved in multiple OPs	×
Partners involved in multiple OPs	
Values Tables	
Alert	Value
Project partner's max number of operational programs in a same member state	2
Project partner's number of operational programs	2
Total amount of project costs of related project partners	225,780,136.68

The following detailed information is available in the values tab:

- Number of operational programs in which the project partners is involved, through projects, as a project partner;
- Maximum number of operational programs in which the project partners is involved, through projects, as a project partner within the same Member State;
- Total cost of the projects in which the project partner is involved, as project partner, and that belong to different operational programs within the same Member State.

artr	ners involved in multi	ple OPs				_
irtn	ers involved in multiple O	Ps				
_	Values Ta	bles				
_						
	Project partner name	Project name	Member state	Operational program ID	Project cost	1
0	MOLENBERGNATIE	FAKE-Project-011/08	FC	9999XA999XX001	1,110,004.00	=
1	MOLENBERGNATIE	FAKE-Project-012/08	FC	9999XA999XX001	187,000,000.00	
2	MOLENBERGNATIE	FAKE-Project-027/08	FC	9999XA999XX001	261,241.84	
3	MOLENBERGNATIE	FAKE-Project-044/08	FC	9999XA999XX001	256,853.84	



- Name of project partner;
- Project names (of the projects belonging to different operational programs in the same Member State and in which the project partner is involved as project partner), limited to 30 as a preview;
- Member State of the projects mentioned above;
- Operational program of the projects mentioned above;
- Project cost of the projects mentioned above.

Links to further details

Selated companies

The following links to further details are available:

• Link to the project partner. Starting from this link, the user can further navigate to the projects in which the project partner is involved.

14.3.7.5 Suppliers/contractors involved in multiple Projects

Description	The objective of this check is to identify projects for which there
	is a supplier/contractor that appears in multiple projects as
	supplier/contractor within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Projects;
	 Related contracts and their contractor
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when there is a supplier/contractor
	that is involved, as supplier/contractor, in other projects within
	the same Member State.
Project score	Alert value
Applicable project types	All project types

Pop-up information

Suppliers/Contractors involved in multiple projects

Suppliers/Contractors involved in multiple projects

Value
4
4
376,874.35

X



- Number of projects in which the supplier/contractor is involved (as a supplier/contractor);
- Maximum number of projects in which the supplier/contractor is involved, as a supplier/contractor, within the same Member State;
- Total accumulated cost of the projects in which the supplier/contractor is involved (as a supplier/contractor.

qqu	liers/Contractors involve	ed in multi	ple projects			
	Values	ables				
	Contractor name		Project name	Contract name	Alert level	
0	WARENHUIS DE VR	IJHEID	FAKE-Project-004/08	Contract34	10	
1	WARENHUIS DE VR	IJHEID	FAKE-Project-011/08	Contract35	10	
2	WARENHUIS DE VR	IJHEID	FAKE-Project-023/08	Contract20	10	
3	WARENHUIS DE VR	LIHEID	FAKE-Project-046/08	Contract21	10	

The following detailed information is available in the tables tab:

- Name of the supplier/contractor;
- Projects in which the supplier/contractor is involved as a supplier/contractor, limited to 30 as a preview;
- Name of the contracts through the supplier/contractor is linked with the projects;
- Alert value for the contractor.

Links to further details

Scontract requests

The following links to further details are available:

 Link to contract (related to the current project) that generated the alert value. Starting from that point, the user can navigate to the supplier/contractor and subsequently the related contracts.



14.3.7.6 Suppliers/contractors involved in multiple Projects of the same beneficiary

Description	The objective of this check is to identify projects for which there is a supplier/contractor that is linked to multiple projects, as a supplier/contractor, but with the same beneficiary within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Projects; Related contractors; Related beneficiaries
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when there is a supplier/contractor that is linked to multiple projects, as a supplier/contractor, but with the same beneficiary within the same Member State.
Project score	Alert value
Applicable project types	All project types

Pop-up information

opliers/Contractors involved in multiple projects of the s	same beneficiary
pliers/Contractors involved in multiple projects of the same benefic	siary
Values Tables	
Nert	Value
Supplier's number of projects	4
	2
Supplier's max number of projects of the same beneficiary	-

The following detailed information is available in the values tab:

- Number of projects in which the supplier/contractor is involved (as a supplier/contractor);
- Maximum number of projects in which the supplier/contractor is involved, as a supplier/contractor, within the same Member State and with the same beneficiary;
- Total accumulated cost of the projects in which the supplier/contractor is involved (as a supplier/contractor.

ppliers/Contractors involved in multiple projects of the same beneficiary							
	Values Tables						
	Contractor name	Project name	Contract name	Beneficiary name	Alert level		
	WARENHUIS DE VRIJHEID	FAKE-Project-004/08	Contract34	ILOMAR AGENCIES	10		
	WARENHUIS DE VRIJHEID	FAKE-Project-011/08	Contract35	DRAPANTEX	10		
	WARENHUIS DE VRIJHEID	FAKE-Project-023/08	Contract20	HEALTH STUDIO ET SERVICE CENTRE	10		
	WARENHUIS DE VRIJHEID	FAKE-Project-046/08	Contract21	HEALTH STUDIO ET SERVICE CENTRE	10		



- Name of the supplier/contractor;
- Projects in which the supplier/contractor is involved as a supplier/contractor, limited to 30 as a preview;
- Name of the contracts through the supplier/contractor is linked with the projects;
- Name of the beneficiary of the project;
- Alert value for the contractor.

Links to further details

Scontract requests

The following links to further details are available:

• Link to contract (related to the current project) that generated the alert value. Starting from that point, the user can navigate to the supplier/contractor and subsequently the related contracts.

14.3.7.7 Suppliers/contractors linked to multiple operational programs

Description	The objective of this check is to identify projects for which a supplier/contractor is linked to multiple operational programs, as a supplier/contractor within the same Member State.		
Level of calculation	The check is performed for each project		
Peer group	Not applicable		
Input data	 The following data is used to calculate the alert: Projects; Related operational programs; Related suppliers/contractors 		
Calculated data	Not applicable		
Alert value	The alert gets a value 10 when there is a supplier/contractor that is linked to multiple operational programs, as a supplier/contractor, within the same Member State.		
Project score	Alert value		
Applicable project types	project types All project types		

Pop-up information

Suppliers/Con	tractors involved in multiple OPs	
Suppliers/Contra	ctors involved in multiple OPs	
Values	Tables	
Alert		Value
Supplier's nur	ber of operational programs	1
Supplier's max	number of operational programs in a same member state	1
Total amount	of project costs of related suppliers	73,325,707.50


X

The following detailed information is available in the values tab:

- Number of operational programs in which the supplier/contractor is involved (as a supplier/contractor);
- Maximum number of operational programs in which the supplier/contractor is involved, as a supplier/contractor, within the same Member State;
- Total accumulated cost of the projects in which the supplier/contractor is involved (as a supplier/contractor).

	Values Tabl	es				
	Contractor name	Project name	Contract name	Member state	Operational program ID	Alert level
)	PORT REAL ESTATE	FAKE-Project-link-subContractor	Fake links Benef sub contractor	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-001/08	Contract22	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-015/08	Contract36	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-045/09	Contract33	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-002/08	Contract 1	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-002/08	Contract2	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-002/08	Contract3	FC	9999XA999XX001	0
	PORT REAL ESTATE	FAKE-Project-102/08	Contract201	FC	9999XA999XX001	0
В	PORT REAL ESTATE	FAKE-Project-102/08	Contract202	FC	9999XA999XX001	0

The following detailed information is available in the tables tab:

Name of the supplier/contractor;

Suppliers/Contractors involved in multiple OPs

the Contraction to the data with the OD

- Projects in which the supplier/contractor is involved as a supplier/contractor;
- Name of the contracts through the supplier/contractor is linked with the projects;
- Member States of the operational program in which the supplier/contractor is involved as a supplier/contractor;
- Operational programs in which the supplier/contractor is involved as a supplier/contractor, limited to 30 as a preview;
- Alert value for the contractor.

Links to further details

Scontract requests

The following links to further details are available:

 Link to contract (related to the current project) that generated the alert value. Starting from that point, the user can navigate to the supplier/contractor and subsequently the related contracts.

14.3.7.8 Personnel linked to multiple Projects

Description	The objective of this check is to identify projects for which there is personnel that is involved in multiple projects within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:



	Projects;Personnel (involvements)	
Calculated data Not applicable		
Alert value	The alert gets a value of 10 when there is personnel (involvement) that is linked to another project within the same Member State.	
Project score	Alert value	
Applicable project types	s ESF	

Pop-up information

Personnel linked to multiple projects		
Personnel linked to multiple projects		
Values Tables		
Alert	Value	
Personnel's number of projects Projects costs	3 111,984.22	

The following detailed information is available in the values tab:

- Total number of projects in which the personnel member is involved;
- Total accumulated cost of those projects.

erso	onnel linked to multiple	projects		
	Values	Tables		
	Personnel's names	Related project	Personnel's functions	Alert level
0	Komáromi Róbert	Lépj Egyet Előre! Ápolási díjasok képzési támogatása	Representative	10
1	Komáromi Róbert	A képzés minőségének és tartalmának fejlesztése	Representative	10
2	Komáromi Róbert	A pálvaorientáció rendszerének tartalmi és módszertani feilesztése	Representative	10

The following detailed information is available in the tables tab:

- Personnel member's name;
- Function of the personnel member;
- Project in which the personnel member is involved, limited to 30 as a preview;
- Alert value of the personnel member.

Links to further details

, C	Involvements
S.	Details

The following links to further details are available:



- Involvements: link to the personnel member. Starting from that point, related information from the Orbis database can be consulted.
- Details link leads to the project(s) in which the personnel member is involved.

14.3.7.9 Consortium members linked to multiple Projects

Description	The objective of this check is to identify projects for which there	
	is a consortium member that appears, as a consortium member,	
	in multiple projects within the same Member State	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Projects; 	
	 Related consortium members 	
Calculated data	Not applicable	
Alert value	alue The alert gets a value of 10 when there is a consortium mem	
	that appears, as a consortium member, in multiple projects	
	within the same Member State.	
Project score	Alert value	
Applicable project types	DG Regio - Infrastructure	

Pop-up information

sortium partners linked to multiple projects	
Values Tables	
Vert	Value
Consortium partner's max number of projects in a same member state	3
Consortium partner's number of projects	3
fotal amount of project costs of related consortium partners	2.762.183.12

The following detailed information is available in the values tab:

- Maximum number of projects in which the consortium member is involved, as a consortium member, within the same Member State;
- Number of projects in which the consortium member is involved (as a consortium member);
- Total accumulated cost of the projects in which the consortium member is involved.



X Consortium partners linked to multiple projects Consortium partners linked to multiple projects Tables Values Consortium member name Project name Contract name Alert level 10 0 THE BELGIAN CHOCOLATE GROUP FAKE-Project-031/10 Contract31 FAKE-Project-046/08 1 THE BELGIAN CHOCOLATE GROUP 10 Contract18 2 THE BELGIAN CHOCOLATE GROUP FAKE-Project-046/08 Fake Wrong VAT 10 3 THE BELGIAN CHOCOLATE GROUP FAKE-Project-ExtProv Fake Extprov 10

The following detailed information is available in the tables tab:

- Name of the consortium member;
- Projects in which the consortium member is involved as a consortium member, limited to 30 as a preview;
- Name of the contracts through the consortium member is linked with the projects;
- Alert value for the consortium member.

Links to further details

Selated companies

The following links to further details are available:

 A link to the consortium member. Starting from that point all related information for the consortium member can be accessed including the interactive report (contractor) in which the list of related contracts and projects can be consulted.

14.3.7.10 Consortium members linked to multiple Projects of the same beneficiary

Description	The objective of this check is to identify project for which there is	
	a consortium members that appears in multiple projects, as a	
	consortium member, but always for the same beneficiary within	
	the same Member State	
Level of calculation	The check is performed for each project	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Projects; 	
	 Related beneficiaries; 	
	 Related consortium members 	
Calculated data	Not applicable	
Alert value	The alert gets a value from of 10 when there is a consortium	
	member that appears in multiple projects, as a consortium	
	member, but always for the same beneficiary within the same	
	Member State.	
Project score	Alert value	
Applicable project types	DG Regio - Infrastructure	



X

Pop-up information

Consortium partners involved in multiple projects of the same beneficiary			_×	
Co	onsortium partners involved in multiple projects of the same beneficiary			
	Values Tables		_	
	Alert	Value		
ľ	Consortium partner's number of projects max of the same beneficiary	2		
	Consortium partner's number of projects	3		
	Total amount of project costs of the related consortium partner	2,762,183.12		

The following detailed information is available in the values tab:

- Maximum number of projects in which the consortium member is involved, as a consortium member, within the same Member State and with the same beneficiary;
- Number of projects in which the consortium member is involved (as a consortium member);
- Total accumulated cost of the projects in which the consortium member is involved (as a consortium member).

Consortium partners involved in multiple projects of the same beneficiary

Consortium partners involved in multiple projects of the same beneficiary

Consortium member name	Project name	Contract name	Beneficiary name	Alert level
THE BELGIAN CHOCOLATE GROUP	FAKE-Project-031/10	Contract31	HEALTH STUDIO ET SERVICE CENTRE	10
THE BELGIAN CHOCOLATE GROUP	FAKE-Project-046/08	Contract18	HEALTH STUDIO ET SERVICE CENTRE	10
THE BELGIAN CHOCOLATE GROUP	FAKE-Project-046/08	Fake Wrong VAT	HEALTH STUDIO ET SERVICE CENTRE	10
THE BELGIAN CHOCOLATE GROUP	FAKE-Project-ExtProv	Fake Extprov	VADIS CONSULTING	10

The following detailed information is available in the tables tab:

- Name of the consortium member;
- Projects in which the consortium member is involved as a consortium member, limited to 30 as a preview;
- Name of the contracts through which the consortium member is linked with the projects;
- Name of the beneficiary of the project;
- Alert value for the consortium member.

Links to further details

Selated companies

The following links to further details are available:

 A link to the consortium member. Starting from that point all related information for the consortium member can be accessed including the interactive report (contractor) in which the list of related contracts and projects can be consulted.



14.3.7.11 Sub-contractors linked to multiple Projects

Description	The objective of this check is to identify projects for which there
	is a sub-contractor that appears, as a sub-contractor, in multiple
	projects within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Projects;
	 Related sub-contractors
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when there is a sub-contractor that
	appears, as a sub-contractor, in multiple projects within the
	same Member State.
Project score	Alert value
Applicable project types	DG Regio - Infrastructure

Pop-up information

Contractors linked to multiple projects		
Values Tables		
lert	Value	
ubContractor's max number of projects in a same member state	2	
ubContractor's number of projects	2	

The following detailed information is available in the values tab:

- Maximum number of projects in which the sub-contractor is involved, as a subcontractor, within the same Member State;
- Number of projects in which the sub-contractor is involved (as a sub-contractor).

S	ubC	Contractors linked to multiple p	rojects				(×
S	iubC	Contractors linked to multiple projects						
ļ		Values Tables						_
		SubContractor name	Project name	Contract name	Alert level	Project cost	Contract cost	
	0	BISNODE BELGIUM HOLDING	FAKE-Project-link-subContractor	Fake links Benef sub contractor	10	45,378.00	1,256,405.53	
	1	BISNODE BELGIUM HOLDING	FAKE-Project-102/08	Contract202	10	1,921,933.81	568,036.78	

The following detailed information is available in the tables tab:

- Name of the sub-contractor;
- Projects in which the sub-contractor is involved as a sub-contractor, limited to 30 as a preview;



- Name of the contracts through the sub-contractor is linked with the projects;
- Alert value for the sub-contractor;
- Project amount;
- Contract amount.

Selated companies

The following links to further details are available:

 A link to sub-contractor. Starting from that point all related information for the subcontractor can be accessed including the interactive report (contractor) in which the list of related contracts and projects can be consulted.

14.3.7.12 Sub-contractors linked to multiple Projects of the same beneficiary

Description	The objective of this check is to identify projects for which there is a sub-contractor that appears, as a sub-contractor, in multiple projects, but always with the same beneficiary within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Projects;
	 Related beneficiaries;
	 Related sub-contractors
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when there is a sub-contractor that
	appears, as a sub-contractor, in multiple projects, but always
	with the same beneficiary within the same Member State.
Project score	Alert value
Applicable project types	DG Regio - Infrastructure

Pop-up information

ubContractors linked to multiple projects of the same beneficiary	
Values Tables	
Alert	Value
SubContractor's number of projects	2
SubContractor's max number of projects in a same beneficiary	2

The following detailed information is available in the values tab:

 Maximum number of projects in which the sub-contractor is involved, as a subcontractor, within the same Member State and with the same beneficiary;



DC	Contractors linked to mult	iple projects of the same b	eneficiary			
	Values Ta	ables				
	SubContractor name	Project name	Contract name	Alert level	Project cost	Contract cost
0	Меди Вега ООД	FAKE-Project-046/08	Fake Wrong VAT	10	886,132.00	255,124.06
0						

The following detailed information is available in the tables tab:

- Name of the sub-contractor;
- Projects in which the sub-contractor is involved as a sub-contractor, limited to 30 as a preview;
- Name of the contracts through the sub-contractor is linked with the projects;
- Alert value for the sub-contractor;
- Project amount;
- Contract amount.

Links to further details

Selated companies

The following links to further details are available:

 A link to sub-contractor. Starting from that point all related information for the subcontractor can be accessed including the interactive report (contractor) in which the list of related contracts and projects can be consulted.



14.3.7.13 Supervision contractor multiple times in same constellation with works contractor

Description	The objective of this check it to identify projects for which there is a supervision contractor that appears together with the same works contractor, in other contracts within the same Member State
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Projects; Related contracts; Related contract types; Related contractors
Calculated data	Not applicable
Alert value	The alert gets a value of 10 when there is a supervision contractor that appears together with the same contractor, in other contracts within the same Member State
Project score	Alert value
Applicable project types	DG Regio - Infrastructure

Pop-up information

Supervision contractor multiple times in same	constellation with work contractors	×
Supervision contractor multiple times in same constella	tion with work contractors	
Values Tables		_
Alert	Value	
Nb contracts of involvement	2	

The following detailed information is available in the values tab:

 Number of contracts, in the same Member State, in which the supervision contractor appears with the same works contractor.

pe	rvision contractor multiple times i	n same constellation with w	vork contractors		
_	Values Tables				
	Supervision contractor name	Work contractor name	Project name	Contract name	Alert level
-	Contractor18	Contractor19	FAKE-Project-supervision	Fake supervision1	10
0					

The following detailed information is available in the tables tab:

- Name of the supervision contractor;
- Name of the works contractor;



- Name of the projects (in which the supervision contractor appears with the same works contractor), limited to 30 as a preview;
- Name of the contracts (in which the supervision contractor appears with the same works contractor);
- Alert value for the supervision contractor.

Scontract requests

The following links to further details are available:

 Link to the supervision contract(s) (related to the current project) that caused the alert value.



14.3.8 Other checks related to ESF projects

14.3.8.1 EC financial assistance/ total Project cost

Description	The objective of this check is to identify projects for with the ratio of EC financial assistance relative to the total project cost is larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	 The following data is used to calculate the alert: EC financial assistance Project cost
Calculated data	 The following data is calculated for the alert: Ratio: EC financial assistance / project cost; Average ratio in the peer group; Deviation of the ratio (EC financial assistance / project cost) for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (EC financial assistance / project cost) for the project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

tio of EC financial assistance vs total project cost	
Values	
Alert	Value
EC financial assistance	991,615.18
Project cost	4,563.00
Ratio EC financial assistance and project cost	217.32
Average of the ratio in the peer group	24.83

The following detailed information is available in the values tab:

- EC financial assistance amount;
- Project cost;
- Ratio of EC financial assistance compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.8.2 EC financial assistance/ Project income

Description	The objective of this check is to identify projects for with the ratio of EC financial assistance relative to the project income is larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	EC financial assistanceProject income
Calculated data	 The following data is calculated for the alert: Ratio: EC financial assistance / project income; Average ratio in the peer group; Deviation of the ratio (EC financial assistance / project income) for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (EC financial assistance / project income) for the project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

is of EC financial accidence we arrive times and	
o of EC financial assistance vs project income	
Values	
Vert	Value
C financial assistance	4,000,140,621.02
Project income	17.00
Ratio EC financial assistance and project income	235,302,389.47

The following detailed information is available in the values tab:

- EC financial assistance amount;
- Project income;
- Ratio of EC financial assistance compared to project income;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.8.3 EC financial assistance/ other contributions

Description	The objective of this check is to identify projects for with the ratio of EC financial assistance relative to other contributions is
	larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 EC financial assistance
	 Other contributions
Calculated data	The following data is calculated for the alert:
	 Ratio: EC financial assistance / other contributions;
	 Average ratio in the peer group;
	 Deviation of the ratio (EC financial assistance / other
	contribution) for the project from the average ratio in
	the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (EC financial assistance / other contributions) for the
	project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

tio of EC financial assistance vs other contributions	
Values	Value
EC financial assistance	4,000,140,621.02
Other contributions	5,000.00
Ratio EC financial assistance and other contributions	800,028.12
Average of the ratio in the peer group	80.079.68

The following detailed information is available in the values tab:

- EC financial assistance amount;
- Other contributions;
- Ratio of EC financial assistance compared to other contributions;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.8.4 Personnel cost/project cost

Description	The objective of this check is to identify projects for with the
	ratio of personnel cost relative to the total project cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	Personnel cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: personnel cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (personnel cost / project cost) for
	the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (personnel cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

ersonnel cost vs project cost	
Values	
Alert	Value
Personnel cost	76,764.16
Project cost	1,110,004.00
Ratio personnel and project costs	0.07
Natio personnei and project costs	0.03

The following detailed information is available in the values tab:

- Ratio of personnel cost compared to project cost;
- Average ratio in the peer group;
- Personnel cost;
- Project cost.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the personnel costs (line items in the expenses)



14.3.8.5 Fixed assets costs/project cost

Description	The objective of this check is to identify projects for with the
Description	
	ratio of fixed assets cost relative to the total project cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Fixed assets cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: fixed assets cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (fixed assets cost / project cost) for
	the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (fixed assets cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

ed assets cost over project cost ratio	
Values	
Alert	Value
Alcit.	
	82,286.55
Fixed assets cost Project cost	82,286.55 1,110,004.00
Fixed assets cost	

The following detailed information is available in the values tab:

- Fixed assets cost;
- Project cost;
- Ratio of fixed assets cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the fixed assets costs (line items in the expenses)



14.3.8.6 Administrative costs/project cost

Description	The objective of this check is to identify projects for with the
	ratio of administrative cost relative to the total project cost is
	larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Administrative cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: administrative cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (administrative cost / project cost)
	for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (administrative cost / project cost) for the project from
	the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

ministration cost vs project cost	
ministration cost over project cost ratio	
Values	
Alert	Value
Administrative costs	158,049.60
Administrative costs	877,286.50
	077,200.00
Project cost Ratio administrative and project costs	0.18

The following detailed information is available in the values tab:

- Administrative cost;
- Project cost:
- Ratio of administrative cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the administrative costs (line items in the expenses)



14.3.8.7 Representation and travel costs/project cost

Description	The objective of this check is to identify projects for with the ratio of representation and travel cost relative to the total project cost is larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	 The following data is used to calculate the alert: Representation and travel cost Project cost
Calculated data	 The following data is calculated for the alert: Ratio: representation and travel cost / project cost; Average ratio in the peer group; Deviation of the ratio (representation and travel cost / project cost) for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (representation and travel cost / project cost) for the project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

presentation and travel cost vs project cost	
Values	
Alert	Value
Representation and travel costs	98,530.59
Project cost	877,286.50
Ratio representation and travel costs and project cost	0.11
Average of the ratio in the peer group	0.07

The following detailed information is available in the values tab:

- Representation and travel cost;
- Project cost;
- Ratio of representation and travel cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the representation and travel costs (line items in the expenses)



14.3.8.8 Supplier costs/project cost

Description	The objective of this check is to identify projects for with the
	ratio of supplier cost relative to the total project cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Supplier cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: supplier cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (supplier cost / project cost) for
	the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (supplier cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

upplier cost vs project cost	
upplier costs vs project cost	
Values	
Alert	Value
Supplier costs	13,832.31
Project cost	318,781.00
Project cost Ratio supplier and project costs	318,781.00 0.04

The following detailed information is available in the values tab:

- Supplier cost;
- Project cost;
- Ratio of supplier cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the supplier costs (line items in the expenses)



14.3.8.9 Seminars-publishing costs/project cost

Description	The objective of this check is to identify projects for with the ratio of seminars-publishing cost relative to the total project cost is larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert: Seminars-publishing cost Project cost
Calculated data	 The following data is calculated for the alert: Ratio: seminars-publishing cost / project cost; Average ratio in the peer group; Deviation of the ratio (seminars-publishing cost / project cost) for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (seminars-publishing cost / project cost) for the project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

minars-publishing cost vs project cost	
Values	
Alert	Value
Seminars-publishing costs	134,421.60
Project cost	877,286.50
Ratio seminars-publishing and project costs	0.15

The following detailed information is available in the values tab:

- Seminars-publishing cost;
- Project cost;
- Ratio of seminars-publishing cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

• Link to the seminars-publishing costs (line items in the expenses)



14.3.8.10 Research costs/project cost

	T
Description	The objective of this check is to identify projects for with the
	ratio of research cost relative to the total project cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Research cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: research cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (research cost / project cost) for
	the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (research cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

search costs vs project cost	
Values	
Alert	Value
ANGIL	
	69,376.89
Research costs	69,376.89 877,286.50
Research costs Project cost Ratio research and project costs	

The following detailed information is available in the values tab:

- Research cost;
- Project cost;
- Ratio of research cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

September September

The following links to further details are available:

Link to the research costs (line items in the expenses)



14.3.8.11 Other costs/project cost

Description	The objective of this check is to identify projects for with the
	ratio of other cost relative to the total project cost is larger than
	the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Other cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: other cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (other cost / project cost) for the
	project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (other cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

her costs vs project cost	
ther costs vs project cost	
Values	
Alert	Value
Other costs	107,899.05
Project cost	877,286.50
Ratio other and project costs	0.12
Average of the ratio in the peer group	0.05

The following detailed information is available in the values tab:

- Other cost;
- Project cost;
- Ratio of other cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the other costs (line items in the expenses)



14.3.8.12 Exceptional costs/project cost

Description	The objective of this check is to identify projects for with the
	ratio of exceptional cost relative to the total project cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Exceptional cost
	 Project cost
Calculated data	The following data is calculated for the alert:
	 Ratio: exceptional cost / project cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (exceptional cost / project cost) for
	the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (exceptional cost / project cost) for the project from the
	average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

ceptional costs vs project cost	
ceptional costs vs project cost	
Values	
Alert	Value
Exceptional costs	45,517.86
Project cost	256,853.84
	0.18
Ratio exceptional and project costs	

The following detailed information is available in the values tab:

- Exceptional cost;
- Project cost;
- Ratio of exceptional cost compared to project cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the exceptional costs (line items in the expenses)



14.3.8.13 Fixed assets cost/personnel cost

Description	The objective of this check is to identify projects for with the
	ratio of fixed assets cost relative to the personnel cost is larger
	than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	The following data is used to calculate the alert:
	 Fixed assets cost
	Personnel cost
Calculated data	The following data is calculated for the alert:
	 Ratio: fixed assets cost / personnel cost;
	 Average ratio in the peer group;
	 Deviation of the ratio (fixed assets cost / personnel cost)
	for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of
	the ratio (fixed assets cost / personnel cost) for the project from
	the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

Fixed assets vs personnel cost	(
Fixed assets cost over personnel cost ratio	
Values	
Alert	Value
Fixed assets cost	79,890.93
Fixed assets cost Personnel cost	79,890.93 9,002.57

The following detailed information is available in the values tab:

- Fixed assets cost;
- Personnel cost;
- Ratio of fixed assets cost compared to personnel cost;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details

🖫 Expenses

The following links to further details are available:

Link to the expenses (all line items)



14.3.8.14 EC financial assistance/ beneficiary turnover (Project level)

Description	The objective of this check is to identify projects for with the ratio of EC financial assistance relative to the beneficiary turnover is larger than the average ratio in the peer group.
Level of calculation	The check is performed for each project
Peer group	Operational Program
Input data	 The following data is used to calculate the alert: EC financial assistance; Beneficiary turnover (as sourced by the Member State in the Project table)
Calculated data	 The following data is calculated for the alert: Ratio: EC financial assistance / beneficiary turnover; Average ratio in the peer group; Deviation of the ratio (EC financial assistance / beneficiary turnover) for the project from the average ratio in the peer group.
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (EC financial assistance / beneficiary turnover) for the project from the average ratio in the peer group.
Project score	Alert value
Applicable project types	ESF

Pop-up information

io of EC financial assistance vs tumover of the beneficiary	
Values	
Vert	Value
C financial assistance	4,000,140,621.02
umover of the beneficiary	4,111,059.02
Ratio EC financial assistance and beneficiary tumover	973.02
verage of the ratio in the peer group	30.52

The following detailed information is available in the values tab:

- EC financial assistance;
- Beneficiary turnover;
- Ratio of EC financial assistance compared to beneficiary turnover;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.8.15 EC financial assistance/ beneficiary turnover (overall)

Description	The objective of this check is to identify projects for with the ratio of overall EC financial assistance relative to the beneficiary turnover is larger than the average ratio in the peer group.	
Level of calculation	The check is performed for each project	
Peer group	Operational Program	
Input data	 The following data is used to calculate the alert: EC financial assistance; Beneficiary turnover (as sourced by the Member State in the Project table) 	
Calculated data	 The following data is calculated for the alert: Overall EC financial assistance: sum of EC financial assistance for all projects of the beneficiary; Ratio: overall EC financial assistance / beneficiary turnover; Average ratio in the peer group; Deviation of the ratio (overall EC financial assistance / beneficiary turnover) for the project from the average ratio in the peer group. 	
Alert value	The alert gets a value from 0 to 10 depending on the deviation of the ratio (overall EC financial assistance / beneficiary turnover) for the project from the average ratio in the peer group.	
Project score	Alert value	
Applicable project types	ESF	

Pop-up information

io of overall EC financial assistance vs tumover of the beneficiar	у
Values	
Alert	Value
EC overall financial assistance	4,000,140,621.02
Furnover of the beneficiary	4,111,059.02
Ratio EC overall financial assistance and benefici	973.02
Average of the ratio in the peer group	75.70

The following detailed information is available in the values tab:

- Overall EC financial assistance;
- Beneficiary turnover;
- Ratio of overall EC financial assistance compared to beneficiary turnover;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.8.16 Project cost / beneficiary turnover (Project level) only on SME projects

Description	The objective of this should be an interactive protocol for with the		
Description	The objective of this check is to identify projects for with the		
	ratio of project cost relative to the beneficiary turnover is larger		
	than the average ratio in the peer group.		
Level of calculation	The check is performed for each project		
Peer group	Operational Program		
Input data	The following data is used to calculate the alert:		
	Project cost		
	 Beneficiary turnover (as sourced by the Member State in 		
	table Project)		
Calculated data	The following data is calculated for the alert:		
	 Ratio: project cost / beneficiary turnover; 		
	 Average ratio in the peer group; 		
	 Deviation of the ratio (project cost / beneficiary) for the 		
	project from the average ratio in the peer group.		
Alert value	The alert gets a value from 0 to 10 depending on the deviation of		
	the ratio (project cost / beneficiary turnover) for the project		
	from the average ratio in the peer group.		
Project score	Alert value		
Applicable project types	SME		

Pop-up information

ject cost vs beneficiary tumover	
Values	
Alert	Value
Project cost	753,645,378.00
Tumover of the beneficiary	78,673.00
Ratio project cost and beneficiary turnover at approval	9,579.47
	1.939.13

The following detailed information is available in the values tab:

- Project cost;
- Beneficiary turnover;
- Ratio of project cost compared to beneficiary turnover;
- Average ratio in the peer group.

No detailed information is available in the tables tab.

Links to further details



14.3.9 Reputational & Fraud alerts

14.3.9.1 Financial

14.3.9.1.1 High or deteriorating propensity to bankruptcy

[]		
Description	 The objective of this check is to determine a financial risk score for a company based on its propensity to bankruptcy and the evolution of its propensity to bankruptcy over 2 years. The propensity to bankruptcy is a score from 1 to 20 which indicate the probability that a company will go bankrupt in the coming 1 months. Further information on the propensity to bankruptcy indicator included in 15.2. 	
	The objective of the alert is to identify projects to which a company with high financial risk score is linked.	
Level of calculation	The check is performed for each beneficiary, project partner contractor and consortium member.	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert: Propensity to bankruptcy year X (latest available	
	indicator from Orbis);Propensity to bankruptcy year X-1	
Calculated data	 The following data is calculated for the alert: Evolution of the propensity to bankruptcy from year X-1 to year X 	
Alert value	The alert gets a value from 0 to 10 depending on the value of the propensity to bankruptcy (indicator value in Orbis) and the evolution of the propensity to bankruptcy over 2 years. An increase over time results in a larger alert value.	
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)	
Applicable project types	All	

Pop-up information

High	or deteriorating prop	ensity to bankru	iptcy		_ ×
High	or deteriorating propensity	to bankruptcy			
	Tables				
	Company involved	Role in project	P2B Bankruptcy score year X	P2B Bankruptcy score year X-1	
0	PORT REAL ESTATE	Contractor	15	7	
1	MOLENBERGNATIE	Beneficiary	8	8	

The following detailed information is available in the tables tab (for all involved companies for which predictive indicators are available):

Company name;



- Role in the project;
- Propensity to bankruptcy score year X;
- Propensity to bankruptcy score year X-1.

No detailed information is available in the values tab.

Links to further details

- PORT REAL ESTATE
- MOLENBERGNATIE

The following links to further details are available:

• Links to the interactive reports of the companies mentioned in the tables tab.

14.3.9.1.2 High or deteriorating rating compared to sector benchmark

Description	The objective of this check is to compare the propensity to bankruptcy of a company with the average propensity to bankruptcy in the sector. The comparison is made based on (i) the most recent bankruptcy score and (ii) the evolution of the bankruptcy score. The propensity to bankruptcy is a score from 1 to 20 which indicates the probability that a company will go bankrupt in the coming 18 months. Further information on the propensity to bankruptcy indicator is included in 15.2.		
	The objective of the alert is to identify projects to which a company with high financial risk score is linked.		
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.		
Peer group	Not applicable		
Input data	 The following data is used to calculate the alert: Propensity to bankruptcy year X (latest available indicator from Orbis); Propensity to bankruptcy year X-1 		
Calculated data	 The following data is calculated for the alert: Average propensity to bankruptcy year X in the sector; Average propensity to bankruptcy year X-1 in the sector; Evolution of the propensity to bankruptcy from year X-1 to year X; Evolution of the average propensity to bankruptcy from year X-1 to year X in the sector. 		
Alert value	The alert gets a value from 0 to 5 depending on (i) the value of the propensity to bankruptcy (indicator value in Orbis) compared to the average propensity to bankruptcy in the sector and (ii) the evolution of the propensity compared to the average evolution of the propensity to bankruptcy in the sector.		
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)		



Applicable project types All

Pop-up information

Hig	or deteriorating ra	ting compared	to sector benchmark			×
High	or deteriorating rating (compared to secto	r benchmark			
_						
	Tables					
	Company involved	Role in project	P2B Bankruptcy score year X	P2B Bankruptcy score year X-1	Average P2B bancruptcy X score of the sector	Average P2B bancruptcy X-1 score of the sector
0	DRAPANTEX	Beneficiary	1	18	12.59	12.46
1	TRAXXION	Contractor	20	19	11.89	12.00

The following detailed information is available in the tables tab (for all involved companies for which predictive indicators are available):

- Company name;
- Role in the project;
- Propensity to bankruptcy score year X;
- Propensity to bankruptcy score year X-1;
- Average propensity to bankruptcy score year X in the sector;
- Average propensity to bankruptcy score year X-1 in the sector.

No detailed information is available in the values tab.

Links to further details

DRAPANTEX

The following links to further details are available:

 Links to the interactive reports of the companies mentioned in the tables tab, with a bad propensity.



14.3.9.1.3 High financial ratings of associated companies

Description	The objective of this check is to determine a financial risk score		
	for a company based on the propensity to bankruptcy for its		
	associated companies (shareholders/subsidiaries). The		
	propensity to bankruptcy is a score from 1 to 20 which indicates		
	the probability that a company will go bankrupt in the coming 18		
	months.		
	Further information on the propensity to bankruptcy indicator is		
	included in 15.2.		
	The objective of the alert is to identify projects to which a		
	company with a high financial risk score is linked.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Associated companies (shareholders/subsidiaries), this 		
	information is retrieved from Orbis;		
	 Propensity to bankruptcy year X (latest available 		
	indicator from Orbis) for the associated companies.		
Calculated data	The following data is calculated for the alert:		
	 Average propensity to bankruptcy for all associated 		
	companies of a company		
Alert value	The alert gets a value from 0 to 5 depending on the average		
	propensity to bankruptcy of the associated companies of a		
	company.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

High	financial ratings of a	associated comp	anies			×
High f	inancial ratings of assoc	iated companies				
	Tables					_
	Company involved	Role in project	Financial rating associated companies	Number of associated companies	Number of associated companies with a bankrupty score	
0	Община Златоград	Beneficiary	19.00	19	1	

The following detailed information is available in the tables tab (for all involved companies for which predictive indicators are available for associated companies):

- Company name;
- Role in the project;
- Average propensity to bankruptcy of associated companies;
- Number of associated companies;
- Number of associated companies with a bankruptcy score.



No detailed information is available in the values tab.

Links to further details

🖞 Община Златоград

The following links to further details are available:

• Link to the interactive report of the companies mentioned in the tables tab.

14.3.9.1.4 Non/incomplete filing of annual accounts

Description	The objective of this alert is to identify companies for which no		
Description			
	or limited financial data is available.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Publication dates of the financial statements 		
Calculated data	The following data is calculated for the alert:		
	 Year of the latest available financial statements; 		
	 Availability of any published financial statements 		
Alert value	The alert gets a value from 0 to 10 depending on the availability		
	and age of published financial statements. The less information		
	available, the higher the alert value.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

Non/incomplete filing of annual accounts

×

Non/incomplete filing of annual accounts

	Tables		
	Company involved	Role in project	Year of the last balance sheet used
0	PARKLAND KERESKEDELMI ÉS SZAKTANÁCSADÓ BETÉTI TÁRSASÁG	Beneficiary	unknown
1	MELISA EMIN CHAMDERE ET	SubContractor	20011231
2	Contractor17	Contractor	unknown
3	VINATHAO KERESKEDELMI BETÉTI TÁRSASÁG	Contractor	20051231
3		Contractor	20031231

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Year of the lasted available financial statements

No detailed information is available in the values tab.



PARKLAND KERESKEDELMI ÉS SZAKTANÁCSADÓ BETÉTI TÁRSASÁG

Contractor17

The following links to further details are available:

 Link to the interactive reports of the companies mentioned in the tables tab for which there are no financial statements available.

14.3.9.1.5 Project cost/ annual turnover

Description	The objective of this check is to identify projects for with the ratio of the project cost relative to the annual turnover of the beneficiary is large. (as it is mentioned in the financial
	statements of the project year, data from Orbis)
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Project cost Annual turnover of the beneficiary (as it is mentioned in the financial statements of the project year, data from Orbis)
Calculated data	The following data is calculated for the alert:Ratio: project cost / annual turnover of the beneficiary;
Alert value	The alert gets a value from 0 to 10 depending on the value of the ratio. A larger ratio value results in a larger alert value.
Project score	Alert value
Applicable project types	All

Pop-up information

ject cost vs annual tumover	
Values	
Alert	Value
Project cost	4,000,140,621.02
Tumover of the beneficiary	1,930,000.00
	2.072.61

The following detailed information is available in the values tab:

- Project cost;
- Annual turnover of the beneficiary;
- Ratio of project cost compared to annual turnover of the beneficiary.

No detailed information is available in the tables tab.



MOLENBERGNATIE

The following links to further details are available:

Link to the interactive report of the beneficiary

14.3.9.1.6 Project cost / Number of employees

Description	The objective of this check is to identify projects for with the ratio of project cost relative to the number of employees of the
	beneficiary is large.
Level of calculation	The check is performed for each project
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Project cost Number of employees of the beneficiary (as mentioned in the annual accounts of the project end year, data from
	Orbis)
Calculated data	 The following data is calculated for the alert: Ratio: project cost / number of employees of the beneficiary;
Alert value	The alert gets a value from 0 to 10 depending on the value of the ratio (project cost / number of employees of the beneficiary) for the project. A larger ratio value results in a larger alert value.
Project score	Alert value
Applicable project types	All

Pop-up information

oject cost vs number of employee	
Values	
Alert	Value
Project cost	1,110,004.00
Number of employee	2

The following detailed information is available in the values tab:

- Project cost;
- Number of employees of the beneficiary;
- Ratio of project cost compared to number of employees of the beneficiary.

No detailed information is available in the tables tab.



MOLENBERGNATIE

The following links to further details are available:

Link to the interactive report of the beneficiary

14.3.9.2 Relationship

14.3.9.2.1 Links between beneficiaries/project partners

Description	The objective of this check is to identify projects for which there exists path between the beneficiaries / project partner(s). A path is a link between several entities in the Orbis database. It can be comprised of legal links (between companies) and private links (between companies and related people). A distance of 4 or less steps between two entities will be considered as a link.
Level of calculation	The check is performed for project.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Legal links (ownership) in Orbis; Private links (directors,) in Orbis
Calculated data	The following data is calculated for the alert:
	 Path finding between entities
Alert value	The alert gets a value of 10 when a path is identified.
Project score	Alert value
Applicable project types	All

Pop-up information

Links between beneficiaries/project partners		X
Links between beneficiaries/project partners		
Values		
Alert	Value	
Number of paths between beneficiaries/project partners	1	

The following detailed information is available in the values tab:

• Number of paths that have been found between the beneficiary / project partner(s). No detailed information is available in the tables tab.

Links to further details



🗒 Path

The following links to further details are available:

 Link to the visualization of the path(s) that have been found. In the visualisation additional information can be added (roles on the project, legal links, private links, affinities, ...)

14.3.9.2.2 Links between beneficiaries/project partners and contractors/suppliers (including consortium partners)

Description	The objective of this check is to identify projects for which there exists a path between the beneficiary/project partner(s) and contractor(s)/supplier(s). A path is a link between several entities in the Orbis database. It can be comprised of legal links (between companies) and private links (between companies and related people). A distance of 4 or less steps between two entities will be considered as a link.
Level of calculation	The check is performed for project.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors/suppliers Legal links (ownership) in Orbis; Private links (directors,) in Orbis
Calculated data	The following data is calculated for the alert:
	 Path finding between entities
Alert value	The alert gets a value of 10 when a path is identified
Project score	Alert value
Applicable project types	All

Pop-up information

Links between beneficiaries/project partners and contractors/suppliers		×
Links between beneficiaries/project partners and contractors/suppliers		
Values		
Alert	Value	
Number of paths between beneficiaries/project partners and contractors/suppliers	1	

The following detailed information is available in the values tab:

 Number of paths that have been found between the beneficiary/project partner(s) and contractor(s)/supplier(s)



No detailed information is available in the tables tab.

Links to further details

🔁 Path

The following links to further details are available:

 Link to the visualization of the path(s) that have been found. In the visualisation additional information can be added (roles on the project, legal links, private links, affinities, ...)

14.3.9.2.3 Links between beneficiaries/project partners and sub-contractors

Description	The objective of this check is to identify projects for which there exists a path between the beneficiary/project partner(s) and sub- contractor(s). A path is a link between several entities in the Orbis database. It can be comprised of legal links (between companies) and private links (between companies and related people). A distance of 4 or less steps between two entities will be considered as a link.
Level of calculation	The check is performed for project.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Sub-contractors; Legal links (ownership) in Orbis; Private links (directors,) in Orbis
Calculated data	The following data is calculated for the alert:
	 Path finding between entities
Alert value	The alert gets a value of 10 when a path is identified.
Project score	Alert value
Applicable project types	All

Pop-up information

Values	
ert	Value
umber of paths between beneficiaries/project partners and sub-contractor	ors 1

The following detailed information is available in the values tab:

 Number of paths that have been found between the beneficiary/project partner(s) and sub-contractor(s).


No detailed information is available in the tables tab.

Links to further details

🗒 Path

The following links to further details are available:

 Link to the visualization of the path(s) that have been found. In the visualisation additional information can be added (roles on the project, legal links, private links, affinities, ...)

14.3.9.2.4 Links between contractors/suppliers (including consortium members)

Description	The objective of this check is to identify projects for which there exists a path between contractors/suppliers (including consortium members). A path is a link between several entities in the Orbis database. It can be comprised of legal links (between companies) and private links (between companies and related people). A distance of 4 or less steps between two entities will be considered as a link.
Level of calculation	The check is performed for each contractor/supplier (including consortium members)
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Contractors/suppliers; Legal links (ownership) in Orbis; Private links (directors,) in Orbis
Calculated data	The following data is calculated for the alert:Path finding between entities
Alert value	The alert gets a value between 3 and 10 when a path is identified, depending on the number of paths.
Project score	Highest alert value of the values for the contractors/suppliers linked to the project.
Applicable project types	All

inks between contractors/suppliers		X
inks between contractors/suppliers		
Values		
Alert	Value	
Number of paths between contractors/suppliers	11	



The following detailed information is available in the values tab:

Number of paths that have been found between the contractors/suppliers (including consortium members).

No detailed information is available in the tables tab.

Links to further details

🗟 Path

The following links to further details are available:

- Link to the visualization of the path(s) that have been found. In the visualisation additional information can be added (roles on the project, legal links, private links, affinities, ...)
- *14.3.9.2.5 Links between contractors/consortium members and sub-contractors*

Description	The objective of this check is to identify projects for which there exists path between the contractors/consortium members and sub-contractors linked to the same contract. A path is a link between several entities in the Orbis database. It can be comprised of legal links (between companies) and private links (between companies and related people). A distance of 4 or less steps between two entities will be considered as a link.
Level of calculation	The check is performed for each contractor/supplier (including consortium members)
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Contractors/consortium members; Orbis ID of Sub-contractors; Legal links (ownership) in Orbis; Private links (directors,) in Orbis
Calculated data	The following data is calculated for the alert:Path finding between entities
Alert value	The alert gets a value between 3 and 10 when a path is identified, depending on the number of paths that have been identified.
Project score	Highest alert value of the values for the contractors/suppliers linked to the project.
Applicable project types	All



Values	ks between contractors/suppliers and sub-contractors		I
	ks between contractors/suppliers and sub-contractors		
Value Value	Values		
	Alert	Value	
Number of paths between contractors/suppliers and sub-contractors 1	Number of paths between contractors/suppliers and sub-contractors	1	

The following detailed information is available in the values tab:

 Number of paths that have been found between the contractors/suppliers and subcontractors

No detailed information is available in the tables tab.

Links to further details

😨 Path

The following links to further details are available:

 Link to the visualization of the path(s) that have been found. In the visualisation additional information can be added (roles on the project, legal links, private links, affinities, ...)

14.3.9.2.6 Directors/shareholders with high number of mandates

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) that has a director/shareholder with a high	
	number of mandates.	
Level of calculation	The check is performed for each beneficiary, project partner,	
	contractor or consortium member.	
Peer group	eer group Not applicable	
Input data	The following data is used to calculate the alert:	
	 Orbis ID of Beneficiary; 	
	 Orbis ID of Project partners; 	
	 Orbis ID of Contractors; 	
	 Orbis ID of Consortium members; 	
	 Private links (directors,) in Orbis 	
Calculated data	The following data is calculated for the alert:	
	 Number of private links per director/shareholder 	
Alert value	The alert gets a value between 1 and 5 depending on the number	
	of mandates of the directors/shareholder.	
Project score	Highest alert value of any company linked to the project	
	(beneficiary, project partner, contractor or consortium member)	
Applicable project types	All	



X

Pop-up information

Directors/shareholders with high number of mandates

Directors/shareholders with high number of mandates

Tables			
Company involved	Role in project	Name of the director/shareholder with high number of mandates	Number of mandates per UPI
BISNODE BELGIUM HOLDING FIRMA SWINKELS		de heer Frederik Gustaf Akerman Mrs Martine Swinkels	1

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Name of the director/shareholder of the company, limited to 30 as a preview;
- Number of mandates of the director/shareholder

No detailed information is available in the values tab.

Links to further details

BISNODE BELGIUM HOLDING

PIRMA SWINKELS

- Link for each company with a role in the project mentioned in the tables tab.
- Clicking on the link opens a selection window with the names of the individuals linked to the company. For all selected names, the interactive report will be opened.

Multiple elements found	-
Multiple elements are available. Please chose the elements you v	vant to display
 Mr Comelis Bernard Boonstra Mr Werner Smeyers 	
Cancel	ОК



14.3.9.2.7 Registration of multiple companies on the same address

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) with an address on which multiple other companies are registered.	
Level of calculation	The check is performed for each beneficiary, project partner,	
	contractor or consortium member.	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Orbis ID of Beneficiary; 	
	 Orbis ID of Project partners; 	
	 Orbis ID of Contractors; 	
	 Orbis ID of Consortium members; 	
	 Address of companies (from Orbis). 	
Calculated data	The following data is calculated for the alert:	
	 Number of registered companies per address 	
Alert value	The alert gets a value between 1 and 5 depending on the number	
	of companies registered on the same address.	
Project score	Highest alert value of any company linked to the project	
	(beneficiary, project partner, contractor or consortium member)	
Applicable project types	All	

Pop-up information

Registration of multiple companies on same address

Registration of multiple companies on same address

Company involved	Role in project	Company name	Address of the company	Number of companies registered on the same address
PORT REAL ESTATE	Contractor	4STOX	NOORDERLAAN 614	3
PORT REAL ESTATE	Contractor	GUSE BELGIUM	NOORDERLAAN 614	3
PORT REAL ESTATE	Contractor	WILMARSDONK MAGAZIJN	NOORDERLAAN 614	3
MOLENBERGNATIE	Beneficiary	MOLENBERGNATIE	NIEUWELANDENWEG 32	6
MOLENBERGNATIE	Beneficiary	HELLAS INTERNATIONAL	NIEUWELANDENWEG 32	6
MOLENBERGNATIE	Beneficiary	AFRIMAR	NIEUWELANDENWEG 32	6
MOLENBERGNATIE	Renefician	ILOMAR HOLDING	NIELIWELANDENWEG 32	6

The following detailed information is available in the tables tab:

- Name of company registered on the same address, limited to 30 as a preview;
- Role in the project;
- Common address of these companies;
- Number of companies registered on the same address.

No detailed information is available in the values tab.

Links to further details

- PORT REAL ESTATE
- MOLENBERGNATIE

The following links to further details are available:

×



- Link for each company with a role in the project mentioned in the tables tab.
- Clicking on the link opens a selection window with the names of the companies registered on the same address as the company with a role in the project. For all selected names, the interactive report will be opened.

Multiple elements found	
Multiple elements are available. Please chose the elements you want to display	ay
PORT REAL ESTATE GUSE BELGIUM WILMARSDONK MAGAZIJN	
Cancel	К

14.3.9.3 Reputational

14.3.9.3.1 Involvement of directors/shareholders with bankruptcies

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) with a director/shareholder that has been involved in a bankruptcy in the past.		
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.		
Peer group	Not applicable		
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors; Orbis ID of Consortium members; Private links (directors/shareholders) from Orbis; Involvements in previous bankruptcies for directors/shareholders (Orbis) 		
Calculated data	Not applicable		
Alert value	The alert gets a value from 5 to 10 depending on date of the bankruptcy, a recent bankruptcy results in a higher alert value.		
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		



×

Involvement of directors/shareholders with bankruptcies

Involvement of directors/shareholders with bankruptcies

	Tables				
	Company involved	Role in project	Name of the bankrupt company	Name of the person linking both entities	Year of the company bankruptcy
0	TeleConnect Kft	Beneficiary	HÁLÓZATOS TELEVÍZIÓK ZÁRTKÖRUEN MUKODO RÉSZVÉNYTÁRSASÁG	Mrs Gyula Barta-Eke	2013

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Name of the company that went bankrupt;
- Name of the director/shareholder (linked to the company and the company that went bankrupt), limited to 30 as a preview;
- Year of the bankruptcy.

No detailed information is available in the values tab.

Links to further details

TeleConnect Kft

🖞 Mrs Gyula Barta-Eke

- Link to the interactive report of the company (that has a role in the project);
- Link to the interactive report of the related director/shareholder (where his involvements are mentioned including links with bankrupted companies).



14.3.9.3.2 Involvement of directors/shareholders from sensitive regions

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) with a director/shareholder that has involvements in a sensitive region. The list of sensitive regions is based on official lists of tax havens and regions sensitive to corruption.
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors; Orbis ID of Consortium members; Private links (directors/shareholders) from Orbis; Countries companies linked to directors/shareholders (Orbis)
Calculated data	Not applicable
Alert value	The alert gets a value from 3 to 10 depending on the risk level of the country in which the director/shareholder has involvements.
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)
Applicable project types	All

Pop-up information

In	nvolvement of directors/shareholders from sensitive regions					_×	
In	nvolvement of directors/shareholders from sensitive regions						
	Tables						
I٢	Company involved	Role in project	Person	Related company	Country	Risk level	
	0 Müller-Guttenbrunn Hulladékanyag Kereskedő és Feldolgozó Kft	Beneficiary	Mr Danny Vincenzo Steriti	METFER TRADING LIMITED	LIECHTENSTEIN	4	

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Director/shareholder linked to the company;
- Name of the company in which the director/shareholder has an involvement;
- Country of the company in which the director/shareholder has an involvement;
- Risk level of the country.

No detailed information is available in the values tab.

Links to further details



- Müller-Guttenbrunn Hulladékanyag Kereskedő és Feldolgozó Kft
- Mr Danny Vincenzo Steriti

The following links to further details are available:

- Link to the interactive report of the company (that has a role in the project);
- Link to the interactive report of the related director/shareholder (where his involvements are mentioned).

14.3.9.3.3 Incorporation in sensitive regions

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) that is registered in a sensitive region. The list of sensitive regions is based on official lists of tax havens and regions sensitive to corruption.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiary; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Countries of companies 		
Calculated data	Not applicable.		
Alert value	The alert gets a value from 3 to 10 depending on the risk level of		
	the country in which the related company is registered.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

1	Incorporation in sensitive regions					×
I	ncoŋ	poration in sensitive region	s			
Γ		Tables				
		Company involved	Role in project	Country	Risk level of the country	
	0	SANS SOUCI, s.r.o.	Beneficiary	CZECH REPUBLIC	0	
	1	BVD PECE spol. s r.o.	Contractor	CZECH REPUBLIC	0	
	2	CS PLUS LLC	Contractor	UNITED ARAB EMIRATES	4	

The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Country of the company;



• Risk level of the country of the company.

No detailed information is available in the values tab.

Links to further details

res plus LLC

The following links to further details are available:

 Link to the interactive report of the companies mentioned in the tables tab with an elevated risk level.

14.3.9.3.4 Group involvement in sensitive regions

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) that has companies in its group that are registered in a sensitive region. The list of sensitive regions is based on official lists of tax havens and regions sensitive to corruption. The group are companies that are linked to the company through direct or indirect ownership links.		
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiary; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Ownership links (Orbis) 		
Calculated data	Not applicable.		
Alert value	The alert gets a value from 3 to 10 depending on the risk level of		
	the country in which the company has group involvements.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

Group involvement in sensitive regions

Group involvement in sensitive regions

	Tables				
	Company involved	Role in project	Country related to the maximal risk level country	Company name related to the maximal risk level	Maximal risk level in the group
0	MOLENBERGNATIE	Beneficiary	VIET NAM	MOLENBERGNATIE GMD VIETNAM 2	3
1	MOLENBERGNATIE	Beneficiary	VIET NAM	MOLENBERGNATIE GMD VIETNAM	3
2	PORT REAL ESTATE	Contractor	VIET NAM	MOLENBERGNATIE GMD VIETNAM 2	3
3	PORT REAL ESTATE	Contractor	VIET NAM	MOLENBERGNATIE GMD VIETNAM	3

X



The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Country of the related company within the group of the company;
- Name of the related company within the group of the company, limited to 30 as a preview;
- Risk level of the country of the related company within the group of the company.

No detailed information is available in the values tab.

Links to further details

MOLENBERGNATIE

PORT REAL ESTATE

- Link for each company with an involvement in the project that is mentioned in the tables tab.
- Clicking on the link opens a new window in which the related companies within the group of the company (that are mentioned in the tables tab) can be selected. For each selected company, the interactive report will be opened.

Multiple elements found	
Multiple elements are available. Please chose the elements you want to display .	
MOLENBERGNATIE GMD VIETNAM 2 MOLENBERGNATIE GMD VIETNAM	
Cancel	



14.3.9.3.5 Inconsistent activities

Description	The objective of this check is to identify projects for which there		
Description	The objective of this check is to identify projects for which there		
	is related company (beneficiary, project partner, contractor or		
	consortium member) that is involved in many activity sectors.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiary; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Activity sector code (Orbis) 		
Calculated data	The following data is calculated for the alert:		
	 Number of activities per company 		
Alert value	The alert gets a value of 10 when the number of activities is		
	greater than 1.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

on	nsistent activities			
	Tables			
	Company involved	Role in project	List of activities	Number of sector activities
				Number of sector derivities
כ	PORT REAL ESTATE	Contractor	52	1
1	MOLENBERGNATIE	Beneficiary	52	1

The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Sector code of activities;
- Number of activities.

No detailed information is available in the values tab.

Links to further details

MOLENBERGNATIE



 Link to the interactive report of the companies mentioned in the tables tab with an elevated risk level.

14.3.9.3.6 Use of PO box address

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) that has a PO Box address.		
the state to the test of			
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiary; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Address (Orbis) 		
Calculated data	Not applicable		
Alert value	The alert gets a value of 5 when the address is a PO Box.		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

Use	Use of PO box address				
Use o	of PO box address				
	Tables				
	Company involved	Role in project	Address		
0	Contractor18 Powszechna Kasa Oszczednosci Bank Polski SA	Contractor Beneficiary	PO BOX 2 Pulawska 15 00-975 WARSAW		

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Address (Orbis)

No detailed information is available in the values tab.

Links to further details

Scontractor18

Powszechna Kasa Oszczednosci Bank Polski SA



The following links to further details are available:

• Links to the interactive reports of the companies mentioned in the tables tab that have a PO Box address.

14.3.9.4 Sanction

14.3.9.4.1 Involvement of individuals included in PEP lists

Description	The objective of this check is to identify projects for which there
Description	The objective of this check is to identify projects for which there
	is related company (beneficiary, project partner, contractor or
	consortium member) for which either the company or its
	management is listed as PEP (Politically Exposed Person) in the
	WorldCompliance database. This will include people that are in a
	political function, or that have close contacts (family member,
	close colleague,) to a politician.
Level of calculation	The check is performed for each beneficiary, project partner,
	contractor and consortium member.
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Orbis ID of Beneficiaries;
	 Orbis ID of Project partners;
	 Orbis ID of Contractors;
	 Orbis ID of Consortium members;
	 Private links of the companies (management) (Orbis)
Calculated data	The following data is calculated for the alert:
	 Links between Orbis data and World-Compliance;
	 Quality of the link
Alert value	The alert gets a value from 0 to 10 depending on the quality of
	the match between the Orbis entity and the entity in World-
	Compliance.
	The quality of the match depends on the number of elements:
	 Quality of the name match (exactly the same or similar);
	 Additional match on address or not;
	 Additional match on birthdate or not;
	Frequency of appearance of the name in the database
Project score	Highest alert value of any company linked to the project
	(beneficiary, project partner, contractor or consortium member)
Applicable project types	All



 \mathbf{X}

Involvement in PEP lists

In	volvement in PEP lists					
	Tables					
	Company involved		Role in project	Person ID	Is a Political Exposed Person]
	0 POWSZECHNA KASA 1 VADIS CONSULTING	OSZCZEDNOSCI BANK POLSKI SA - PKO BP SA	Contractor Beneficiary	Mr Peter Leyman	Entity matched as PEP listed with a quality score of 0.5 Entity matched as PEP listed with a quality score of 0.5	

The following detailed information is available in the tables tab:

- Name of the company;
- Role of the company in the project;
- Name of the related individual when applicable;
- Type of match between Orbis and World-Compliance, and quality of the match.

No detailed information is available in the values tab.

Links to further details

POWSZECHNA KASA OSZCZEDNOSCI BANK POLSKI SA - PKO BP SA

- World Compliance article #1701101
- Mr Peter Leyman

- Link to the interactive report for the related people mentioned in the tables tab.
- Link to the interactive report for each company mentioned in the tables tab.
- Link to WorldCompliance details and articles.

Name	PKO Bank Polski			
Source	Website			
Category	GovernmentLinkedCorp	Sub-category	NA	
Position(s)	State-linked enterprise	Date	2009-12-23	
Remarks				
	-	m /r294/Powezecho	a Kasa Ostoradonsoi Bank	, Pol
http://inwe	ts estor.msp.qov.pl/portal/se/for w.pkobp.pl/index.php/id=e_al		a Kasa Oszczednosci Bank	< Pol
http://inwe	estor.msp.qov.pl/portal/se/fon		a Kasa Oszczednosci Bank	
	estor.msp.qov.pl/portal/se/fon		a Kasa Oszczednosci Bank	<u> </u>
http://inwe	estor.msp.qov.pl/portal/se/fon		a Kasa Oszczednosci Bank	<u>Pol</u>



14.3.9.4.2 Involvement of individuals/entities included in sanction lists

Description	The objective of this check is to identify projects for which there		
	is related company (beneficiary, project partner, contractor or		
	consortium member) for which either the company or its		
	management is listed in sanction lists in the WorldCompliance		
	database. This will include people that are in a political function,		
	or that have close contacts (family member, close colleagu		
	to a politician.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiaries; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Private links of the companies (management) (Orbis) 		
Calculated data	The following data is calculated for the alert:		
	 Links between Orbis data and World-Compliance; 		
	 Quality of the link 		
Alert value	The alert gets a value from 0 to 10 depending on the quality of		
	the match between the Orbis entity and the entity in World-		
	Compliance.		
	The quality of the match depends on the number of elements:		
	 Quality of the name match (exactly the same or similar); 		
	 Additional match on address or not; 		
	 Additional match on birthdate or not; 		
	 Frequency of appearance of the name in the database 		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

Invo	nvolvement in sanction lists				
Involv	vement in sanction lists				
	Tables				
	Company involved	Role in project	Person ID	Is included in sanction lists	
0 1 2	NORDIK LIMITED EOOD ROKMAN EOOD KONSTANTIN VELYOV KIS 99 ET	Beneficiary Contractor Sub-contractor		Entity matched as sanction listed with a quality score of 0.5 Entity matched as sanction listed with a quality score of 0.5 Entity not matched as sanction listed	

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;



- Name of the related individual when applicable;
- Type of match between Orbis and World-Compliance, and quality of the match.

No detailed information is available in the values tab.

Links to further details

World Compliance article #1173675

World Compliance article #15/9035

The following links to further details are available:

- Link to the interactive report for the related people that resulted in the info in the tables tab.
- Link to the interactive report for each company mentioned in the tables tab.
- Link to WorldCompliance details and articles.

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14.3.9.4.3 Involvement of individuals/entities included in enforcement lists

Description	The objective of this check is to identify projects for which there		
Description	is related company (beneficiary, project partner, contractor or		
	consortium member) for which either the company or its		
	management is listed in enforcement lists in the		
	WorldCompliance database. This will include people that are in a		
	political function, or that have close contacts (family member,		
Level of coloriation	close colleague,) to a politician.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiaries; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Private links of the companies (management) (Orbis) 		
Calculated data	The following data is calculated for the alert:		
	 Links between Orbis data and World-Compliance; 		
	 Quality of the link 		
Alert value	The alert gets a value from 0 to 10 depending on the quality of		
	the match between the Orbis entity and the entity in World-		
	Compliance.		
	The quality of the match depends on the number of elements:		
	 Quality of the name match (exactly the same or similar); 		
	 Additional match on address or not; 		
	 Additional match on birthdate or not; 		
	 Frequency of appearance of the name in the database 		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		

Pop-up information

Invo	nvolvement in enforcement lists				
Invol	vement in enforcement lists				
	Tables				
	Company involved	Role in project	Person ID	Is included in enforcement lists	
0 1	TRUVO BELGIUM ETABLISSEMENTS JOSEPH ROYEN	Contractor Beneficiary	Mr Andrew John Day	Entity matched as enforcement listed with a quality score of 0.5 Entity not matched as enforcement listed	
•					

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Name of the related individual when applicable;
- Type of match between Orbis and World-Compliance, and quality of the match.



No detailed information is available in the values tab.

Links to further details

Mr Andrew John Day

- TRUVO BELGIUM
- World Compliance article #879341

The following links to further details are available:

- Link to the interactive report for the related people mentioned in the tables tab.
- Link to the interactive report for each company mentioned in the tables tab.
- Link to WorldCompliance details and articles.

14.3.9.4.4 Involvement of individuals/entities included in adverse media lists

Description	The objective of this check is to identify projects for which there		
Description	is related company (beneficiary, project partner, contractor or		
	consortium member) for which either the company or its		
	management is listed in adverse media lists in the		
	WorldCompliance database. This will include people that are in a		
	political function, or that have close contacts (family member,		
the state to be the	close colleague,) to a politician.		
Level of calculation	The check is performed for each beneficiary, project partner,		
	contractor and consortium member.		
Peer group	Not applicable		
Input data	The following data is used to calculate the alert:		
	 Orbis ID of Beneficiaries; 		
	 Orbis ID of Project partners; 		
	 Orbis ID of Contractors; 		
	 Orbis ID of Consortium members; 		
	 Private links of the companies (management) (Orbis) 		
Calculated data	The following data is calculated for the alert:		
	 Links between Orbis data and World-Compliance; 		
	 Quality of the link 		
Alert value	The alert gets a value from 0 to 10 depending on the quality of		
	the match between the Orbis entity and the entity in World-		
	Compliance.		
	The quality of the match depends on the number of elements:		
	 Quality of the name match (exactly the same or similar); 		
	 Additional match on address or not; 		
	 Additional match on birthdate or not; 		
	 Frequency of appearance of the name in the database 		
Project score	Highest alert value of any company linked to the project		
	(beneficiary, project partner, contractor or consortium member)		
Applicable project types	All		



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Involvement in adverse media

Tables				
Company involved	Role in project	Person ID	Is included in adverse media lists	
HEALTH STUDIO ET SERVICE CENTRE	Beneficiary	Mr Emin Sali Chamdere	Entity not matched as adverse media listed	
VADIS CONSULTING	Sub-contractor		Entity not matched as adverse media listed	
2 UNILEVER	Sub-contractor		Entity not matched as adverse media listed	
MELISA EMIN CHAMDERE ET	Contractor	Contractor	Entity matched as adverse media listed with a quality score of 0.8	
4 Меди Вега ООД	Sub-contractor		Entity not matched as adverse media listed	
5 ALBOUWMAT	Contractor		Entity not matched as adverse media listed	
PORT REAL ESTATE	Contractor		Entity not matched as adverse media listed	

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Name of the related individual when applicable;
- Type of match between Orbis and World-Compliance, and quality of the match.

No detailed information is available in the values tab.

Links to further details

Mr Emin Sali Chamdere

- MELISA EMIN CHAMDERE ET
- World Compliance article #2439409

- Link to the interactive report for the related people mentioned in the tables tab.
- Link to the interactive report for each company mentioned in the tables tab.
- Link to WorldCompliance details and articles.



14.3.9.5 Change

14.3.9.5.1 Newly created company

Description	The objective of this check is to identify projects for which there	
	is related company (beneficiary, project partner, contractor or	
	consortium member) that has been recently created.	
Level of calculation	The check is performed for each beneficiary, project partner,	
	contractor and consortium member.	
Peer group	Not applicable	
Input data	The following data is used to calculate the alert:	
	 Orbis ID of Beneficiary; 	
	 Orbis ID of Project partners; 	
	 Orbis ID of Contractors; 	
	 Orbis ID of Consortium members; 	
	 Company incorporation year (Orbis) 	
Calculated data	Not applicable	
Alert value	The alert gets a value between 0 and 20 depending on the age of	
	the company.	
Project score	Highest alert value of any company linked to the project	
	(beneficiary, project partner, contractor or consortium member)	
Applicable project types	All	

Pop-up information

ewly created company		
Tables		
Company involved	Role in project	Incorporated year of the company
0 MOB EXPRES SRL	Contractor	2001
1 ARHI PLAN S.R.L.	Contractor	2008
2 PROD.COM.SERV.GHIOANA S.R.L.	Contractor	1992
3 EREDAS SRL	Contractor	2006
4 BOROS IOSIE INTREPRINDERE INDIVIDUALA	Contractor	2013

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Incorporation year for the company.

No detailed information is available in the values tab.

Links to further details

, series and series an	ARHI	PLAN	S.R.L.
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- 🖫 EREDAS SRL
- BOROS IOSIF INTREPRINDERE INDIVIDUALA





The following links to further details are available:

• Link to the interactive report for each company in the tables tab that generated an alert value.

14.3.9.5.2 New shareholders/directors

Description	The objective of this check is to identify projects for which there
Description	is related company (beneficiary, project partner, contractor or
	consortium member) in which new shareholders or directors
	have been appointed in the past three years.
Level of calculation	The check is performed for each beneficiary, project partner,
	contractor and consortium member.
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Orbis ID of Beneficiary;
	 Orbis ID of Project partners;
	 Orbis ID of Contractors;
	 Orbis ID of Consortium members;
	 Private links (Orbis);
	 Change date of private links (Orbis)
Calculated data	Not applicable
Alert value	The alert gets a value between 3 and 10 depending on the
	number and timing of new directors/shareholders during the last
	3 years.
Project score	Highest alert value of any company linked to the project
	(beneficiary, project partner, contractor or consortium member)
Applicable project types	All

Pop-up information

ws	shareholders/directors					
	Tables					
						_
	Company involved	Role in project	New shareholders /directors' name	Change dates of shareholders/directors	Related company	,
n	Company involved	Role in project	New shareholders/directors' name	Change dates of shareholders/directors	Related company	/
0	OPUS Ingatlanszolgáltató és Kivitelező Kft	Beneficiary	Mrs Gyula Babus	20130717	HU10712740	/
0	OPUS Ingatlanszolgáltató és Kivitelező Kft OPUS Ingatlanszolgáltató és Kivitelező Kft	Beneficiary Beneficiary	Mrs Gyula Babus Mrs Bela Misnyovszki	20130717 20121011	HU10712740 HU10712740	/
0 1 2	OPUS Ingatlanszolgáltató és Kivitelező Kft	Beneficiary	Mrs Gyula Babus	20130717	HU10712740	/

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;
- Name of the new shareholder/director, limited to 30 as a preview;
- Date for change in new shareholder/director;
- VAT number of the company.

No detailed information is available in the values tab.



Links to further details

Persons in the company OPUS Ingatlanszolgáltató és Kivitelező Kft

The following links to further details are available:

- A link for each company mentioned in the tables tab.
- Clicking on the link opens a new window in which the names of the related shareholders/directors (from the tables tab) can be selected. The interactive reports of the selected shareholders/directors are subsequently opened.

14.3.9.5.3 High rotation of directors

Description	The objective of this check is to identify projects for which there
	is related company (beneficiary, project partner, contractor or
	consortium member) that had a lot of changes in directors in the
	past three years.
Level of calculation	The check is performed for each beneficiary, project partner,
	contractor and consortium member.
Peer group	Not applicable
Input data	The following data is used to calculate the alert:
	 Orbis ID of Beneficiary;
	 Orbis ID of Project partners;
	 Orbis ID of Contractors;
	 Orbis ID of Consortium members;
	 Private links (Orbis);
	 Change date of private links (Orbis)
Calculated data	Not applicable
Alert value	The alert gets a value between 3 and 10 depending on the
	number and timing of the changes in directors during the last 3
	years.
Project score	Highest alert value of any company linked to the project
	(beneficiary, project partner, contractor or consortium member)
Applicable project types	All

Pop-up information

h rotation of directors							
Tables							
Company involved	Role in project	Changed directors' names	Nb changes of director last year	Nb changes of director last 3 years	Change dates of directors	Change status	Related company
OPUS Ingatlanszolgáltató és Kivitelező Kít	Beneficiary	Mrs Gyula Babus	2	4	20130717	New	HU10712740
OPUS Ingatlanszolgáltató és Kivitelező Kft OPUS Ingatlanszolgáltató és Kivitelező Kft	Beneficiary Beneficiary	Mrs Gyula Babus Mrs Jacint Kendli	2		20130717 20130220	New New	HU10712740 HU10712740
			2 2 2	4			

The following detailed information is available in the tables tab:

- Name of the company;
- Role in the project;



- Name of the director that changed, limited to 30 as a preview;
- Number of changes in directors in the last year;
- Number of changes in directors in the last 3 years;
- Date of the change;
- Change status (new or previous);
- VAT number of the company.

No detailed information is available in the values tab.

Links to further details

PUS Ingatlanszolgáltató és Kivitelező Kft

The following links to further details are available:

• Link to the interactive reports of the companies mentioned in the tables tab.

14.3.9.5.4 Activity changes

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) for which the sector activity code has changed in the past three years.
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors; Orbis ID of Consortium members; Sector activity code (Orbis).
Calculated data	Not applicable
Alert value	The alert gets a value between 3 and 10 depending on the number and timing of the changes in activity code during the last 3 years.
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)
Applicable project types	All

Activity changes			
Activity changes			
Tables			
Company involved	Role in project	Previous sector	New sector
 GET Kereskedelmi és Szolgáltató Korlátolt Felelősségű Társaság GET Kereskedelmi és Szolgáltató Korlátolt Felelősségű Társaság 		Manufacture of electricity distribution and control apparatus Shaping and processing of flat glass	Wholesale of electrical household appliances Manufacture of electricity distribution and control apparatus
2 GET Kereskedelmi és Szolgáltató Korlátolt Felelősségű Társaság		Wholesale of electrical household appliances	Shaping and processing of flat glass
•			,



X

Activity changes

Activity changes				
Tables				
	Number of different sectors last year	Number of different sectors in the last 3 years	Change date of sectors	Related company
appliances	3	3	20130918	HU13375542
on and control apparatus	3	3	20130320	HU13375542
;S	3	3	20130220	HU13375542
•				4

The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Previous sector (activity code), limited to 30 as a preview;
- New sector (activity code), limited to 30 as a preview;
- Number of different sectors (activity code) in the last year;
- Number of different sectors (activity code) in the last 3 years;
- Date of the change in sector (activity code);
- VAT number of the company.

No detailed information is available in the values tab.

Links to further details

I GET Kereskedelmi és Szolgáltató Korlátolt Felelősségű Társaság

The following links to further details are available:

 Link to the interactive reports of the companies mentioned in the tables tab with activity change.



14.3.9.5.5 Address changes

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) for which the address has changed in the past three years.
Level of calculation	The check is performed for each beneficiary, project partner, contractor and consortium member.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors; Orbis ID of Consortium members; Address (Orbis).
Calculated data	Not applicable
Alert value	The alert gets a value between 3 and 5 depending on the number and timing of the changes in address during the last 3 years.
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)
Applicable project types	All

Pop-up information

Address changes				_×
Address changes				
Tables				
Company involved	Role in project	Previous address	New address	
0 VRATSA INVEST GRUP OOD	Beneficiary	IZTOCHNA PROM ZONA BAZA KZU P K 293 3000 VRATSA	UL LUKASHOV 13 B 3000 VRATSA	
•	III			Þ

Address changes				6
Address changes				
Tables				
	Number of different addresses last year	Number of different addresses in the last 3 years	Change date of addresses	Related company
3 B 3000 VRATSA	1	1	20130220	BG106588682
<				

The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Previous address, limited to 30 as a preview;
- New address, limited to 30 as a preview;
- Number of different addresses in the last year;
- Number of different addresses in the last 3 years;



- Date of the change in address;
- VAT number of the company.

No detailed information is available in the values tab.

Links to further details

VRATSA INVEST GRUP OOD

The following links to further details are available:

 Link to the interactive reports of the companies mentioned in the tables tab with address change.

14.3.9.5.6 Name changes

Description	The objective of this check is to identify projects for which there is related company (beneficiary, project partner, contractor or consortium member) for which the name has changed in the
Level of calculation	past three years. The check is performed for each beneficiary, project partner,
	contractor and consortium member.
Peer group	Not applicable
Input data	 The following data is used to calculate the alert: Orbis ID of Beneficiary; Orbis ID of Project partners; Orbis ID of Contractors; Orbis ID of Consortium members; Name of the companies (Orbis).
Calculated data	Not applicable
Alert value	The alert gets a value between 3 and 15 depending on the number and timing of the changes in name during the last 3 years.
Project score	Highest alert value of any company linked to the project (beneficiary, project partner, contractor or consortium member)
Applicable project types	All

me changes			
Tables			
Company involved	Role in project	Previous name	New name
BISNODE BELGIUM HOLDING	Sub-contractor	WDM BELGIUM HOLDING	BISNODE BELGIUM HOLDING
1 PORT REAL ESTATE	Contractor	PORT REAL ESTATE	4STOX



Name changes X Name changes Tables Number of different names last year Number of different names in the last 3 years Change date of names Related company BE0418893510 JM HOLDING 1 20130320 1 1 20131024 BE0465933065 0 0 BE0475080462

The following detailed information is available in the tables tab:

- Company name;
- Role in the project;
- Previous name, limited to 30 as a preview;
- New name, limited to 30 as a preview;
- Number of different names during the last year;
- Number of different names during the last 3 years;
- Date of the change;
- VAT number of the company.

No detailed information is available in the values tab.

Links to further details

P BISNODE BELGIUM HOLDING

PORT REAL ESTATE

The following links to further details are available:

 Link to the interactive reports of the companies mentioned in the tables tab with name change.