

An aerial photograph of a lush green wetland landscape with a winding river and several ponds, serving as the background for the slide.


The Water Risk Filter

waterriskfilter.org


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09 July, 2012

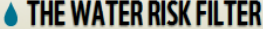


Waterriskfilter.panda.org launched March 28




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The Water Risk Filter


First tool to quantify water-related risks for all industries in all countries




Bridge the gap between risk assessment and action on the ground



Assess your exposure to water risks in a matter of seconds




Find out how the Water Risk Filter works




Water Stewardship

34 publications



Water Risk video


What do you know about water risk?



User Manual

23 pages

WATER RISK NEWS



The Ceres Aqua Gauge

4 Mar


Water is becoming a hot topic for business, yet most companies don't know where to start in understanding and responding to water issues. This tool is designed to help companies and investors to ask the right questions about water - to assess risks and give guidance on what to do in response. The Water Risk Filter is designed to be easy to use, yet highly robust in the results that are generated. We want to enable users to plan and create strategies for their own company, suppliers or investments to drive down risk and become proactive in responding to water issues they face - and by doing so, become better water stewards.

For WWF and DEG, estimating the perfect risk score is not the end goal. The scores are instead the best and most accurate reflection of the multiple issues that companies face around water and should guide a company into a position of proactive engagement on water. We believe that by generating interest and guidance on water actions, we can improve how water is managed, measured and improved for society, the economy and the environment.


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TESTIMONIALS



UNEP FI
'The Water Risk Filter helps FIs to assess the different components of water risks throughout the due diligence processes and regular risk assessments'



Chiquita
'Based on clear insights and data demonstrating Chiquita's level of exposure to water risks, WWF helps us to build the business case for change.'

This tool is evolving

[Feedback](#)



The Water Risk Filter: Quick View

‘Too easy not to do’!

Only three parameters needed per facility:

- Name of the facility
- Industry (list of 35)
- Location

• The high level Industry related risk is based on the typical water related risks to this specific industry. A high Industry risk tells you that the facility can reduce risks by going through internal improvements.

in the Full Assessment.

ment

Quantity related Quality related

PLEASE SELECT LOCATION

Gland, Switzerland Search

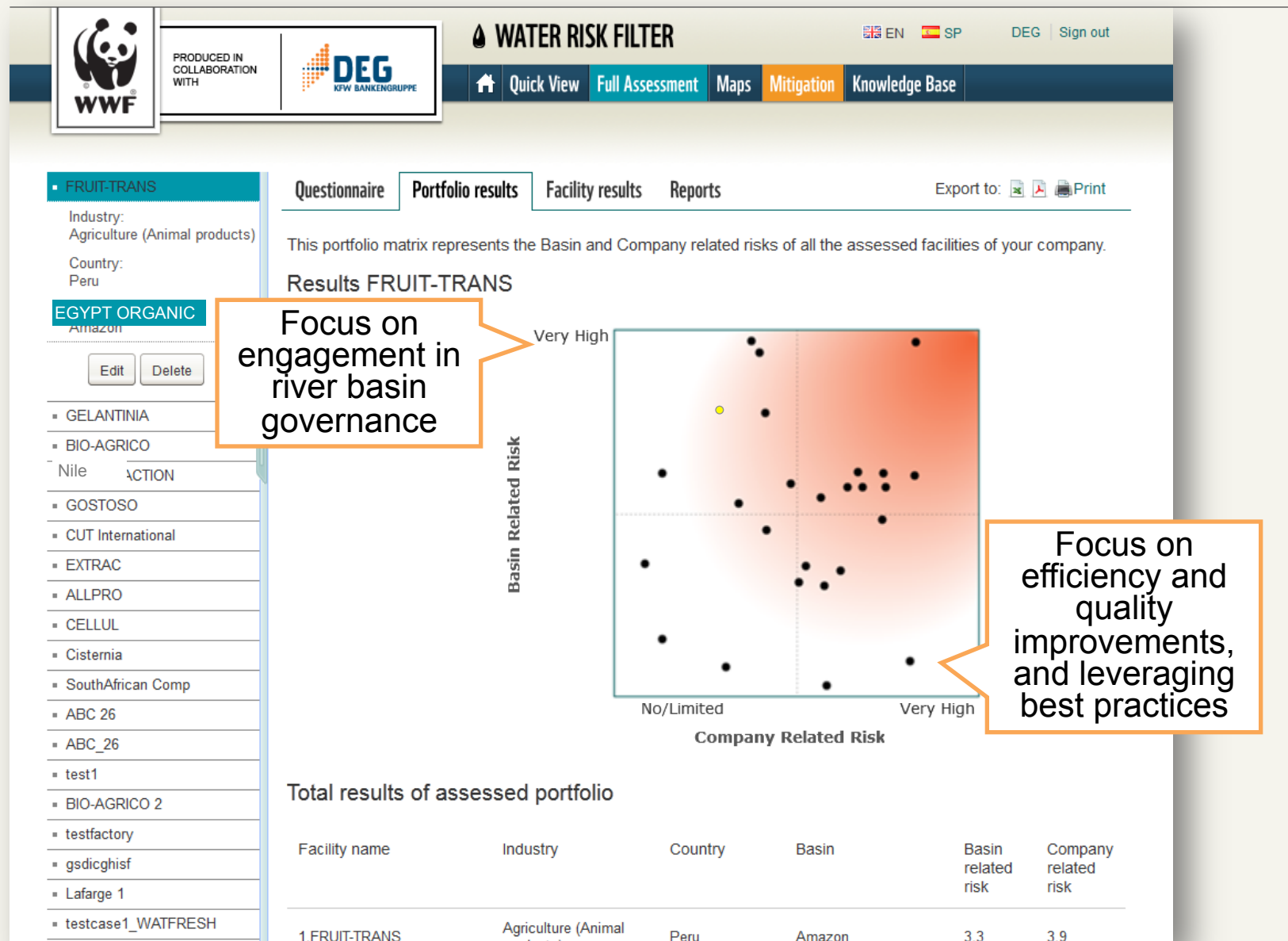
Map Satellite

Low 27 31 49 High Industry related risk

Map data ©2012 GeoBasis-DE/BKG (©2009), Google, Tele Atlas Terms of Use

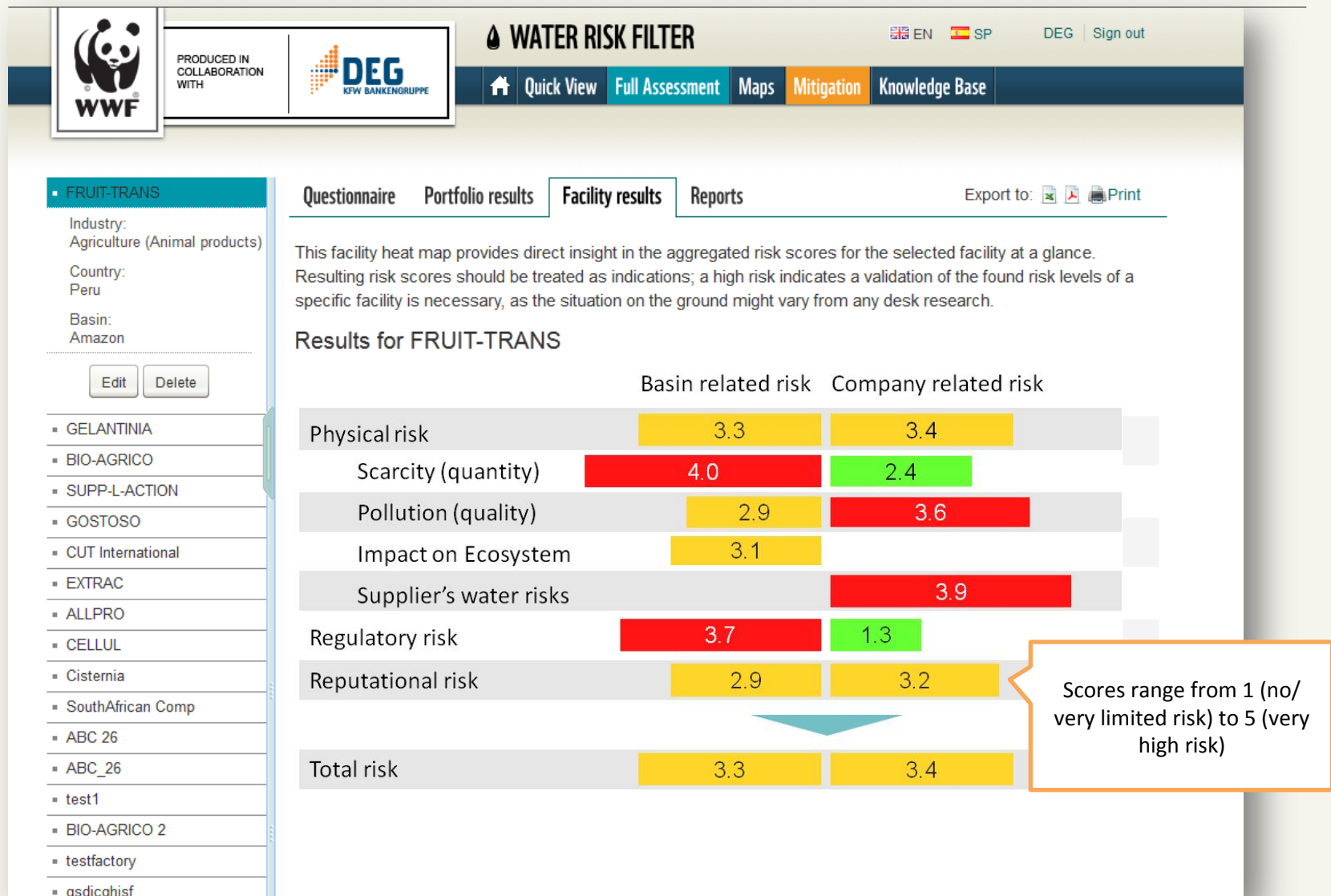


Results on portfolio level provide high level strategic direction





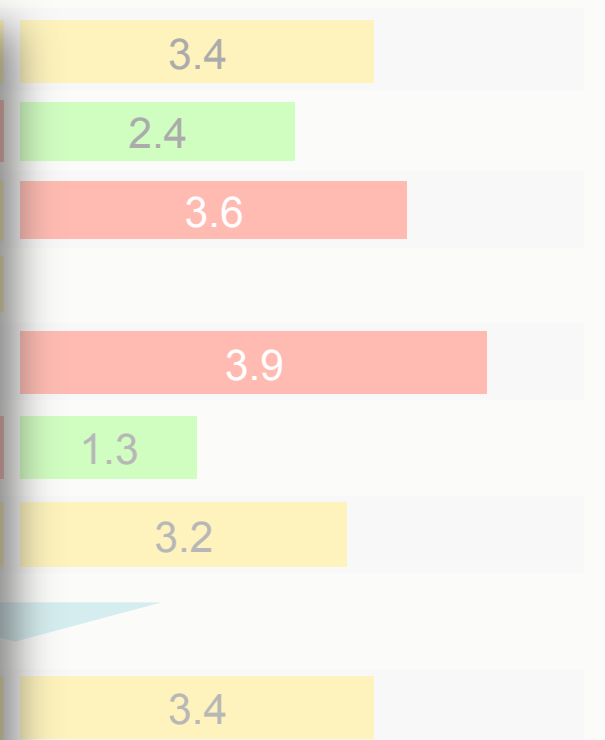
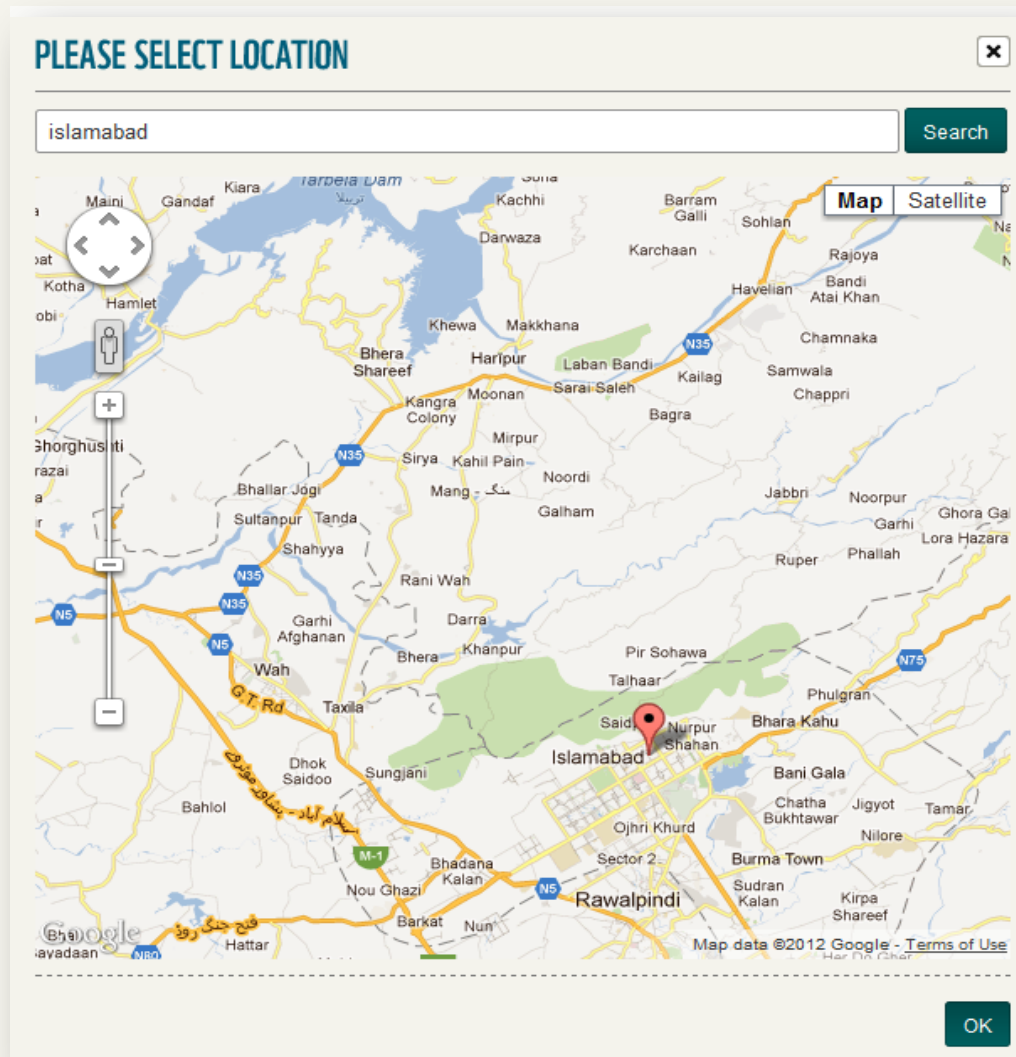
Results on facility level





Basin related risks based on GPS location

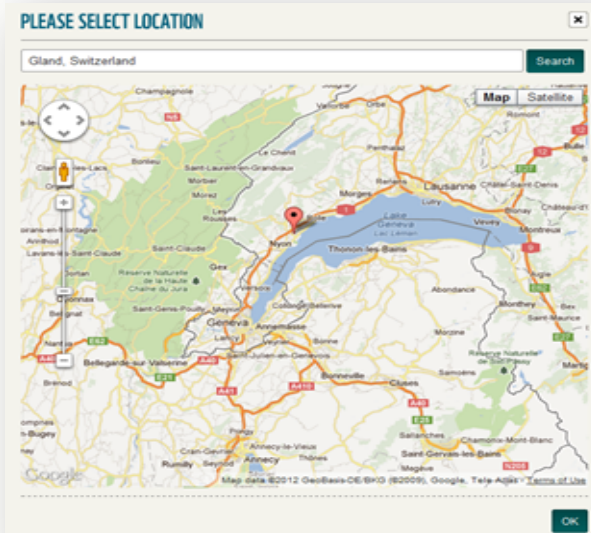
Basin related risk Company related risk





Company related risks based on company specific input

Basin related risk



Company related risk

Questionnaire

Portfolio results

Facility results

Reports

Export to: Save Open Print

To make the high level Industry related risk facility specific, this questionnaire can be filled in. The questionnaire can be saved at any time. You can also send it fully secured to another user, for example a plant manager, who will be able to enter only this page to fill in and save the questionnaire for you. The questions with numbers are direct input for the risk indicators. Other questions do not influence risk scores, but may help you better understand the water situation of your company which will be helpful when defining what your company can do to mitigate part of the risks.

Company Specific Questionnaire

Save and show results

1 Physical

1.1 Scarcity (Quantity)

1.1.1. Importance of having sufficient amounts of clean freshwater available for the production/operational site's operations

Not important at all

1.1.2. Problems the company has/had withdrawing/obtaining the required amount of water for its operations

No

1.1.3. Total annual amount of freshwater withdrawn either directly from a water source or through the municipal supply (m3/year)

<10.000 m3/year

1.1.4. Percentage of the total amount of withdrawn water that is recycled or reused (used more than once). Maximum answer for this indicator is 100%

>90%



Detailed results: user can view each indicator, (links to) sources and explanations

All the risk indicators for this facility are stated below. The Basin related risk indicators have been generated automatically based on its GPS position, while most of the Company related risk indicators are based on the questionnaire. All answers can be adjusted by clicking on them, if you feel that better information is available. More information on each indicator can be found under the i icon. The weightings per indicator can be viewed and tailored to your company. Resulting risk scores should be treated as indications; a high risk indicates a validation of the risk levels of a specific facility is necessary, as the situation on the ground might vary from any desk research.

Detailed results for FRUIT-TRANS

Company related risk

No	Score	Risk	Risk item	Indicator
1	3 Some risk	Physical	Scarcity (Quantity)	Importance of having sufficient amounts of clean freshwater available for the production/operational site's operations
2	2 Limited risk			Problems the company has/had withdrawing/obtaining the required amount of water for its operations
3	2 Limited risk			Total annual amount of freshwater withdrawn either directly from a water source or through the municipal supply (m3/year)
4	3 Some risk			Percentage of the total amount of withdrawn water that is recycled or reused (used more than once). Maximum answer for this indicator is 100%
5	4 High risk	Pollution (Quality)		Typical level of water pollution caused by this industry
6	5 Very high risk			Requirement of treatment/purification of the water the company withdraws before use in operations

All risks related to the company's own performance (what it can influence itself)

Basin related risk

No	Score	Risk	Risk item	Indicator
1	3 Some risk	Physical	Scarcity (Quantity)	Annual average monthly water scarcity in this river basin
2	5 Very high risk			Number of months per year with water scarcity exceeding 100 days
3	5 Very high risk			Blue water scarcity in the month in which blue water scarcity is the highest in this river basin
4	2 Limited risk			Forecasted impact of climate change
5	2 Limited risk			Estimated occurrence of droughts
6	3 Some risk			Estimated occurrence of floods
7	4 High risk		Pollution (Quality)	General situation of water pollution around the facility

All risks related to the GPS location of the company (it needs stakeholder engagement)

Source:
Water Footprint Network (WFN)

Explanation:
Maximum monthly blue water scarcity value in the year. Blue water scarcity is defined as the ratio of blue water footprint to blue water availability – where the latter is taken as natural runoff minus environmental flow. Blue water resources are surface water and ground water. 1996-2005.

100 - 150%

Severe: > 200%

Explanation and (link to) sources

Vulnerability Index: 2 of 4: Limited impact

90% of the country affected by a severe drought in the last 3 years

Moderate risk of flooding

High risk of surface water contamination

These scores have weightings that are industry specific, but can be tailored by the user

Full list of indicators in Appendix



Three reports are automatically populated

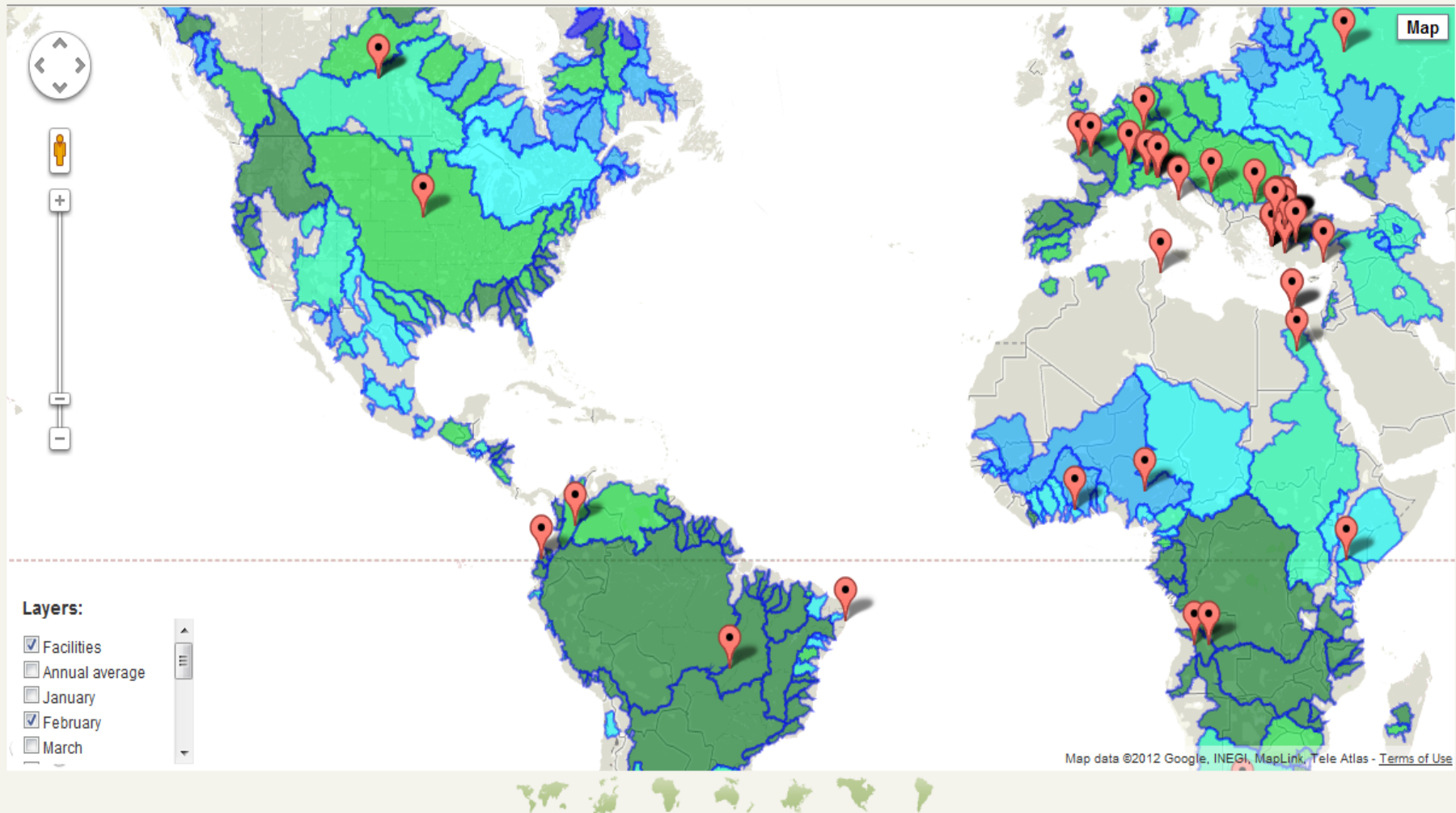
Three reports can be viewed and downloaded and all include information on the risk assessment results, maps with the relevant facilities marked, and links to relevant mitigation activities.

1. Report on **Portfolio** level, with overview of all assessed facilities of the company
2. Report on **Facility** level, with detailed overview of all available water information of the facility
3. CDP Report – report in same format as the **Carbon Disclosure Project** Water Questionnaire. The information available in the Water Risk Filter enables the user to fill in almost all CDP questions automatically.



The Water Risk Filter: plot facilities on maps with 27 different overlays

AVERAGE ANNUAL AND MONTHLY WATER SCARCITY





>200 country profiles with quantitative indicators and description of local context

The screenshot displays the 'THE WATER RISK FILTER' website. The main navigation bar includes 'Quick View', 'Full Assessment', 'Maps', 'Mitigation', and 'Knowledge Base'. The left sidebar shows a 'Maps' section with various water scarcity and pollution indicators, and a 'Countries' list with Kenya highlighted. The main content area shows the 'Kenya' profile, which includes a description, source, link, and a list of quantitative indicators. A callout box points to the indicators, stating: 'Each country profile includes >25 quantitative indicators, including descriptions and sources'. Below the indicators, there are four sections: '1. PHYSICAL ASPECTS', '2. GOVERNANCE ASPECTS', '3. GEOPOLITICAL ASPECTS', and '4. RELIGIOUS AND CULTURAL ASPECTS'. A second callout box points to these sections, stating: '...as well as 4-10 pages qualitative description of local context for the largest 140 countries'. The bottom right shows a 'United States of America' profile with a 'Water Poverty Index' table.

Kenya Profile Data:


- Description:** Annual average of the twelve monthly blue water scarcity values per basin, equally weighted.
- Source:** Water Footprint Network
- Link:** www.waterfootprint.org
- Capital:** Nairobi
- Population:** 40.5m
- GDP:** \$31,408.6m
- Indicators:**
 - Water Scarcity (Water Footprint Network): 90
 - Water resources; total renewable per capita (actual): 792
 - Water availability (Total water withdrawal per capita): 72.44
 - Water Footprint (internal + external): 70
 - Severe Water Stress Index: 1.1
 - Water Poverty Index: 47.3
 - Drought Incidence Severity (%): 17.3

Water Poverty Index Table (United States of America):


Country	Value
1 Africa	82.2
2 Brazil	80.2
3 Gabon	78.3
4 Guinea	74.1
5 India	72.3
6 Madagascar	70.1
7 Kuwait	67.8
8 Paraguay	66.7
9 United States of America	65.0
10 Samoa	63.2
11 Uganda	60.1
12 Croatia	58.4
13 Algeria	56.7
14 South Africa	53.1
15 Japan	52.5
16 Finland	50.9
17 Sudan	46.4
18 Palau	40.7
19 Nicaragua	39.8
20 Niger	38.6




Mitigation responses - bridging gap from risk to action



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HAS BEEN
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[Mitigation Tool](#) [Case Study](#)

	Company Related Risk			Basin related Risk	
	Water Awareness	Knowledge of Impact	Internal Action	Stakeholder Engagement	Influence Governance
Physical					
Regulatory					
Reputational					

>250 mitigation responses
>90 case studies
Highly structured



Thank you

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Thank you for visiting

www.waterriskfilter.org

