

An aerial photograph of a lush green wetland landscape. A winding river or stream flows through the center of the frame, surrounded by dense green vegetation and patches of water. The background shows a vast expanse of forest under a cloudy sky.

Water Scarcity as a risk indicator

*CEO Water Mandate
Mumbai, 6 March, 2013*

Jochem Verberne
Head, Corporate Relations
WWF International



The Water Risk Filter

waterriskfilter.org

Free available online tool

- For initial due diligence, regular risk monitoring, disclosure and as starting point for a water strategy

The screenshot displays the homepage of 'THE WATER RISK FILTER'. At the top, a large blue water drop icon precedes the title 'THE WATER RISK FILTER' in bold, black, sans-serif capital letters. Below the title, a navigation bar includes the WWF logo, a 'PRODUCED IN COLLABORATION WITH' badge for DEG (German Development Cooperation), and language options for EN (English) and SP (Spanish). The main navigation menu features links for 'Quick View', 'Full Assessment', 'Maps', 'Mitigation', and 'Knowledge Base'. The central content area features a large image of a young girl in a brown dress pouring water from a yellow bucket. Overlaid on this image is a white box with the text 'Best available data sets' and a sub-headline 'Only the best information will help you make the right choices to mitigate...'. To the right of the main image, three smaller cards provide additional information: 'Bridge the gap between risk assessment and action on the go...', 'Plot your company on interactive maps', and 'Get the best available global water data in one tool'. Below the main content area, there are three columns. The left column, titled 'OOSKANews', lists recent news items such as 'UN Pushes for Niger Delta Clean-Up' and 'Carbon Trust Launches Water Reduction Awards'. The middle column contains three links: 'Water Stewardship' (with a blue water splash icon), 'Water Risk Video' (with a video player icon), and 'User Manual' (with a blue circular icon). The right column includes a 'LOG IN' section with a 'Log in' button and a 'Register' link, followed by a 'TESTIMONIALS' section featuring quotes from SABMiller and UNEP FI.

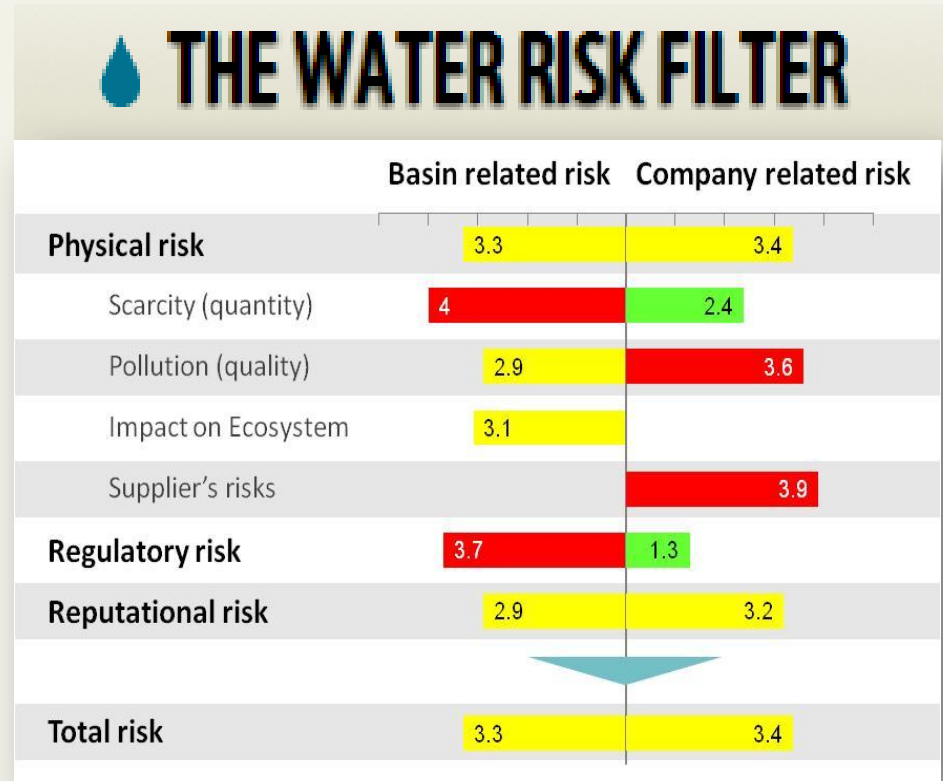


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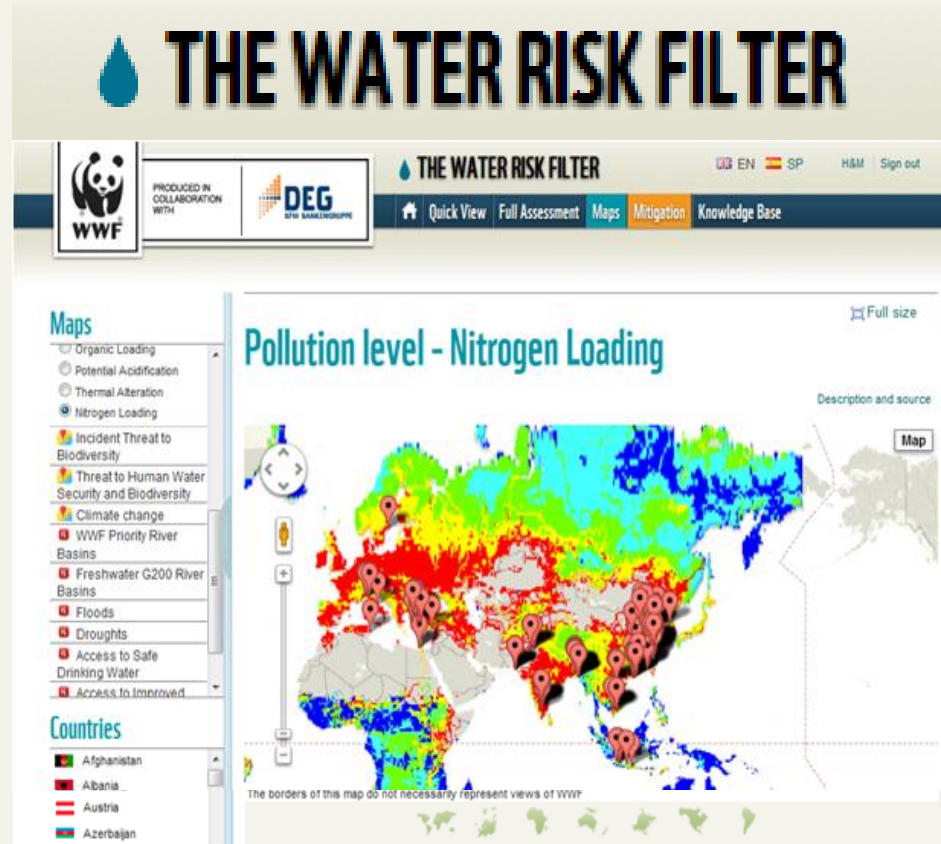


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The screenshot displays the 'THE WATER RISK FILTER' website. The header features the WWF logo, a 'PRODUCED IN COLLABORATION WITH DEG' badge, and navigation links for 'Quick View', 'Full Assessment', 'Maps', 'Mitigation', and 'Knowledge Base'. The main content area is titled 'China' and includes a 'Back to Map' button and a 'Download full country profile' button. A sidebar on the left shows 'Maps' (Average annual and monthly Water Scarcity) and 'Countries' (listing various countries with China selected). The main profile for China includes the national flag, capital (Beijing), population (1,338.3m), and GDP (\$5,926,610.0m). Below this, three sections are listed: '1. PHYSICAL ASPECTS', '2. GOVERNANCE ASPECTS', and '3. GEOPOLITICAL ASPECTS'. A table on the right provides specific data points for various water risk indicators.

Indicator	Value
Water Scarcity (Water Footprint Network)[%]	30
Water resources: total renewable per capita (actual)	2112
Water availability (Total water withdrawal per capita)	414,6
Water Footprint (internal + external)	883,39
Severe Water Stress Index [%]	44,7
Water Poverty Index (0-100)	51,1
Drought Incidence and Severity [%]	10-25% of country affected by droughts in last 12 months
Incidence of Floods [no. of incidences]	> 10 large floods between 1985 and 2005 in this country
Climate Vulnerability [0: No data; 1: No vulnerability - 10: Extrem]	3
Water Quality Index [0-100]	67,96



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THE WATER RISK FILTER

Results after 11 months



- Tens of thousands of assessed facilities
- Users from >130 countries
- Most have no relation with WWF
- Standard starting point for consultancies



But...

Action on the ground requires local understanding

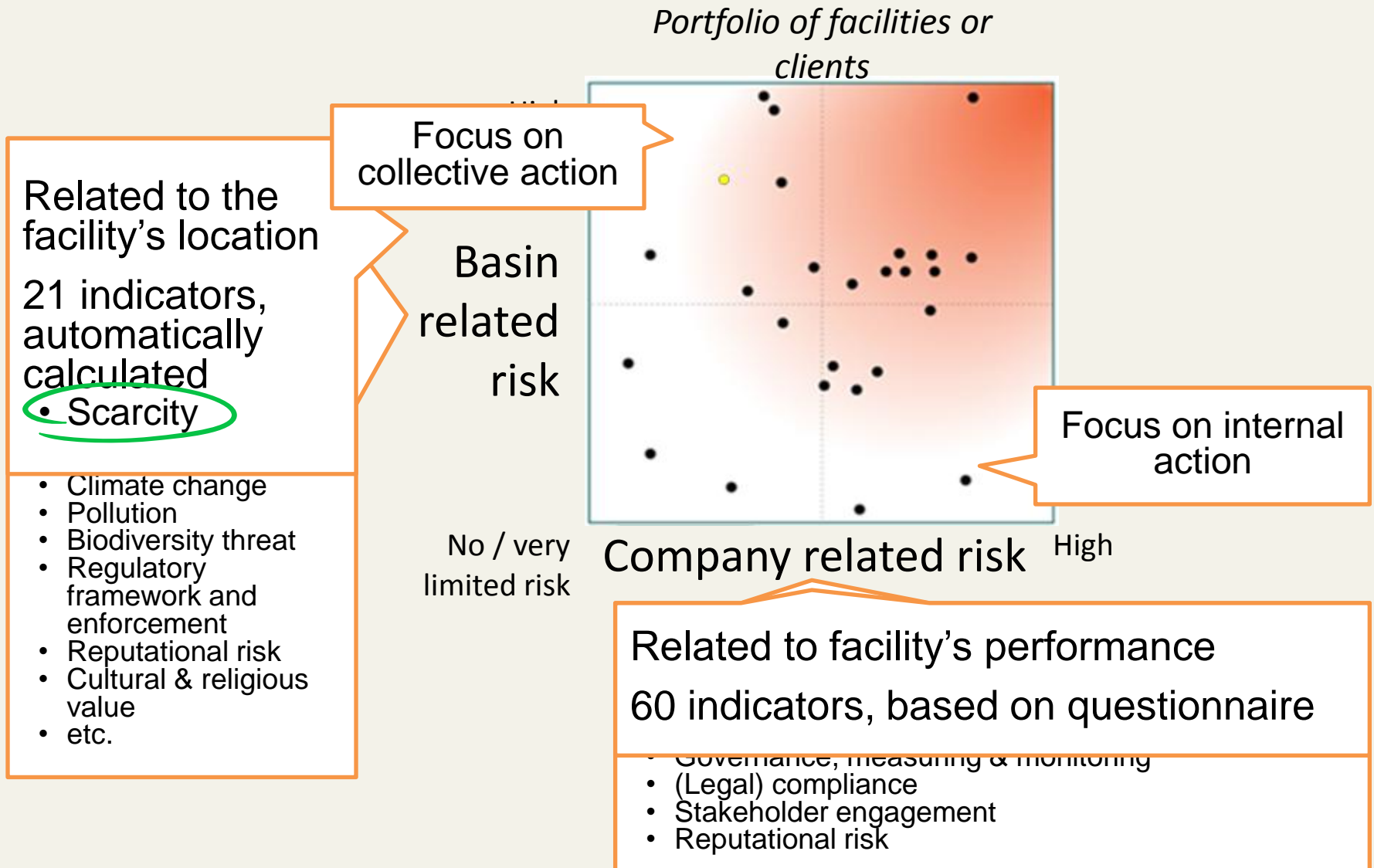


Global tools are good for:

- Risk indication
- Awareness
- Education



Water scarcity arguably most important risk indicator, but not the only one





Water scarcity indicators in the Water Risk Filter (1/2)

Blue water scarcity

Definition

- Ratio of blue water footprint (based on consumption rather than withdrawal) to blue water availability – where the latter is taken as natural runoff minus environmental flow.
- Blue water resources: surface water

*There are independent reviews available of water tools for business:
e.g. from DEFRA (UK)*

Why?

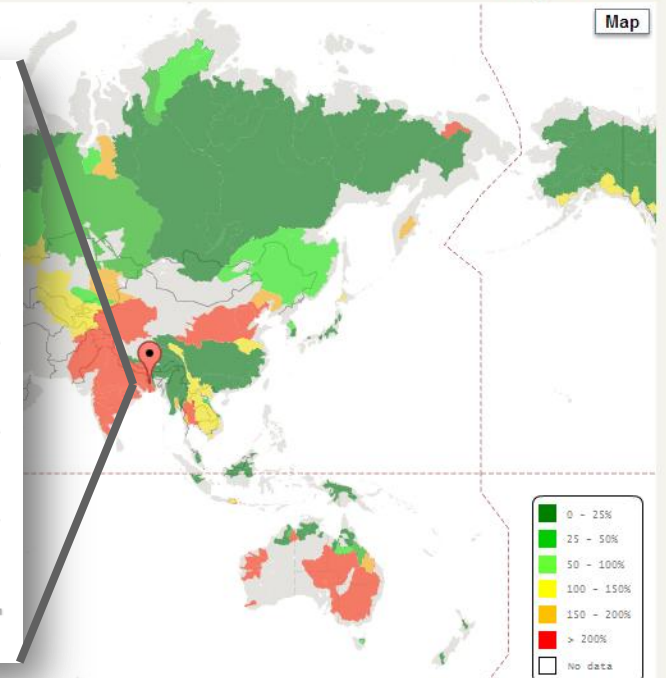
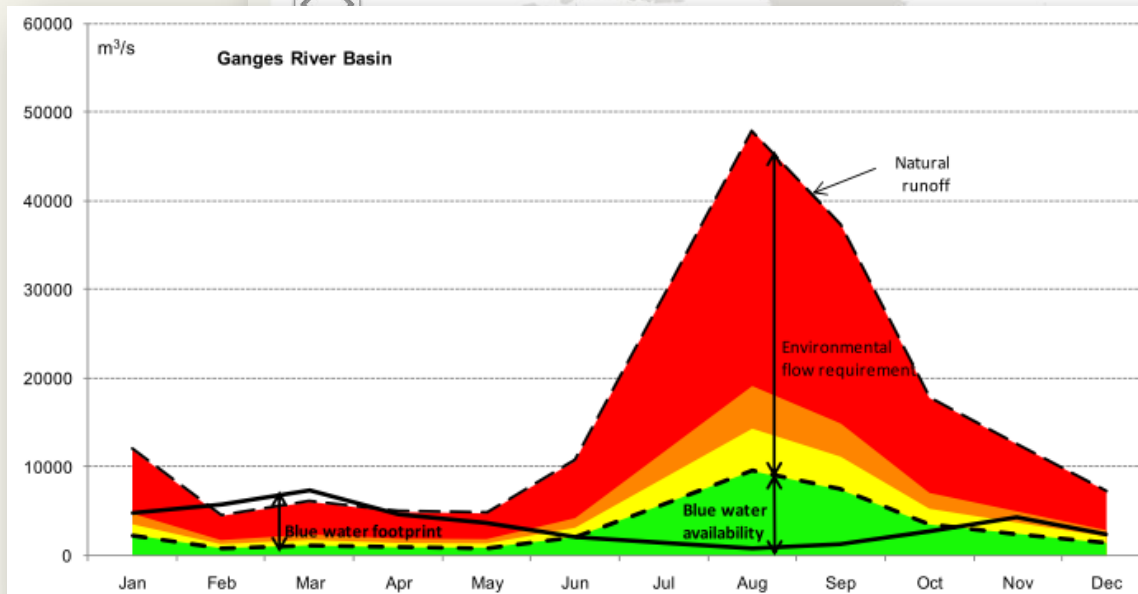
- Taking into account water consumption on monthly basis and environmental flows directly
- Widely accepted and fully transparent definition
- Up-to-date and global data

Future improvements: groundwater and spatial detail

Water scarcity indicators in the Water Risk Filter (2/2)

1. Annual average monthly blue water scarcity
2. Blue water scarcity in the month in which blue water scarcity is the highest
3. Number of months per year water scarcity exceeding 100%

AVERAGE ANNUAL AND MONTHLY WATER SCARCITY





Further development & cooperation

- Ongoing review of new (scarcity) datasets
- Agricultural water risk add-on on 142 crops
- More detailed local datasets and maps
- Industry specific questionnaires



- Leverage improved data through direct online link
- WWF founding and funding partner of WFN



- Exploring a close and deepening collaboration.
 - Share data and maps
 - Joint research on robust regulatory indicators



- Automatic CDP report in the Water Risk Filter
- WWF works closely with CDP on Water questionnaire



- Direct link with the Water Action Hub
- WWF active on most advisory panels



Thank you

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Thank you for visiting

www.waterriskfilter.org