

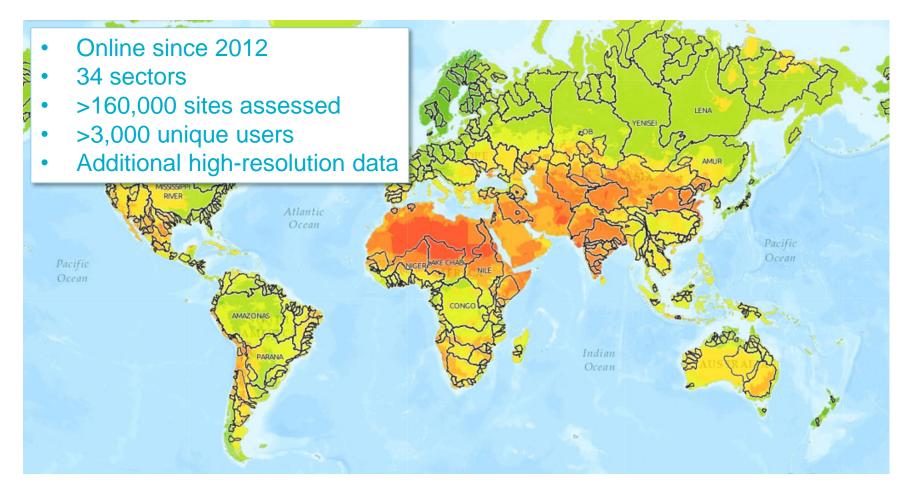


The Water Risk Filter



A free online tool to:

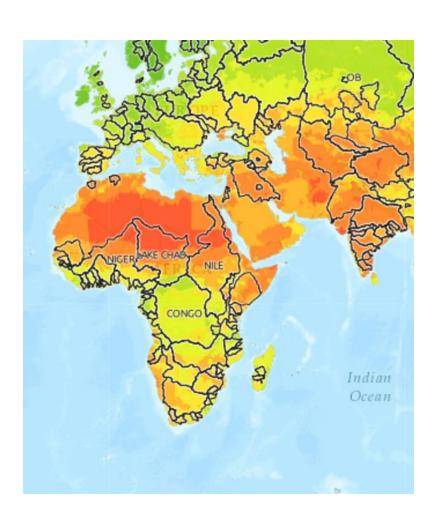
- Assess water risk
- Analyse results
- Explore mitigation options & country profiles





What have we learned about water risk, context and improvement opportunities?



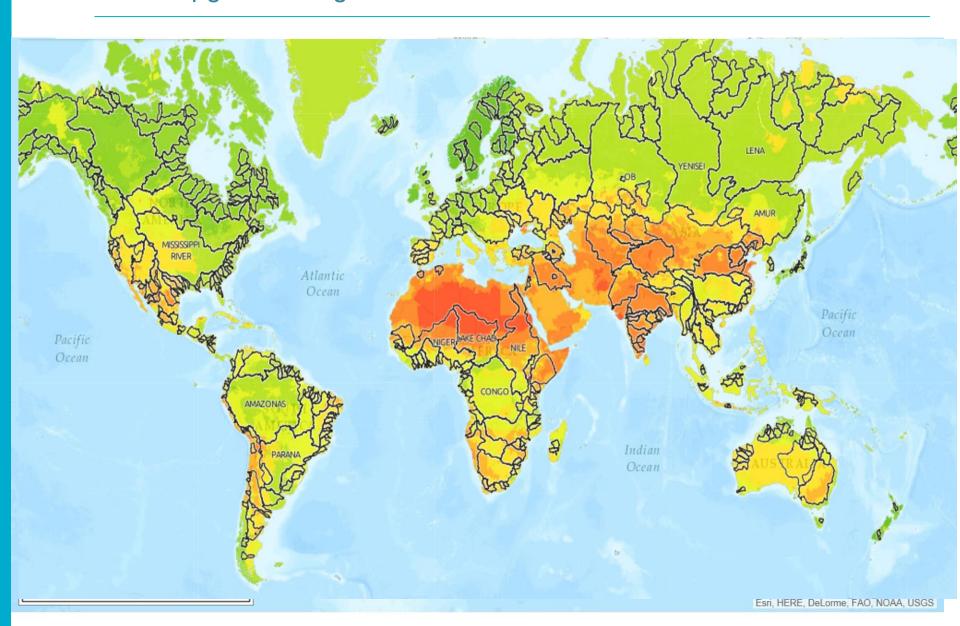


- 1. Assessing water risk is a global and local process
- Water risk is both basin and operational
- 3. Water risk needs to be about assessment **and** mitigation
- 4. Water risk models should be considered in combination
- 5. Water risk = context (& can help move towards context-based water targets)
- 6. Water risk is more meaningful if it links to value.



1) Assessing water Risk is Global & Local WRF Upgrade: > high resolution data

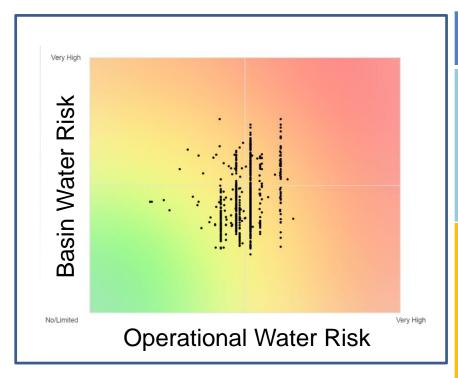






2) Water Risk is both Basin & Operational WRF Upgrade: Data & indicator overhaul





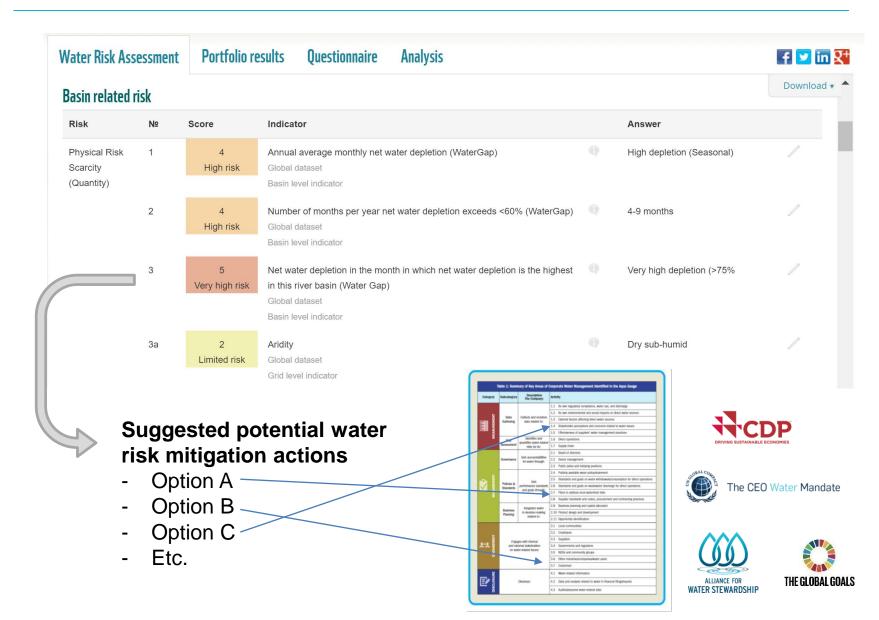
Risk Type	Risk Sub-Type
Physical	Quantity – scarcity*
	Quantity – flooding*
	Quality*
	Ecosystem service status*
Regulatory	Enabling environment (laws & policy)
	Institutions & governance
	Management instruments
	Infrastructure & finance
Reputational	Cultural importance of water
	Media scrutiny
	Corporate trust
	Water conflicts

*Climate change projections (coming)



3) Water risk = assessment **and** mitigation WRF Upgrade: Customized mitigation recommendations







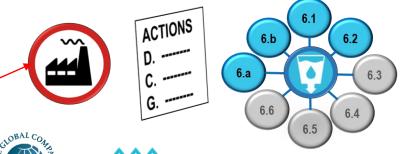
3) Water risk = assessment and mitigation WRF Upgrade: Customized mitigation recommendations



ASSESS



MITIGATE







Basin & Operational Risk Results



Corporate or Facility?

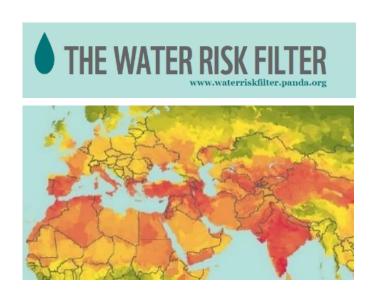
Country or Basin?

New or Experienced?

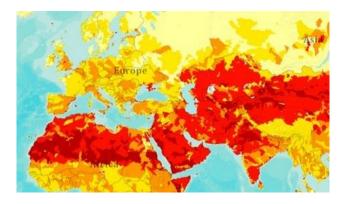
Specific Risk you want to mitigate?



4) Consider water risk models in combination WRF Upgrade: Water Risk Filter AND (not or) Aqueduct







4th IPCC Assessment highlights 23 (!!!) and uses 15 models, why wouldn't we use at least two?





5) Water risk = context



WRF Upgrade: Linking to Context Based Water Targets

Sustainability & Water Risk Mitigation





CONDITIONAL WATER TARGETS

Draws from basin & operational water risk conditions to inform focus

INITIAL CONTEXT-BASED WATER TARGETS

Draws from a specific "CBWT method" and a hydrological model to inform quantitative thresholds.

BUSINESS AS USUAL

Top-down, global targets for facility water use, efficiency & pollution reduction

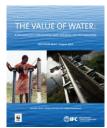
Time & Resources



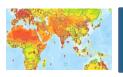
6) Water Risk needs to tie to value WRF Upgrade: Valuation Module







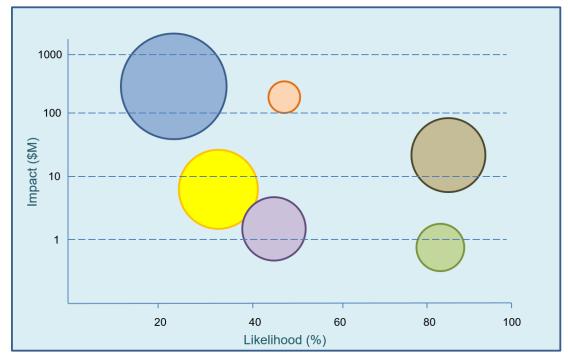
- Logic model to link water risk events to financial impacts ("stress testing")
- User guided
- Informed by WWF, Veolia, Equarius +
- Excel → Online



WATER RISK EVENT

FINANCIAL IMPACT

WATER RISK VALUE



<u>Financial Value Elements:</u> 1. Operational & Maintenance costs | 2. Administrative & Regulatory Costs | 3. Capital costs | 4. Lost Revenue impacts | 5. Financial Costs | 6. Social & Natural Capital Costs



Bubble size reflects average aggregate total value for each financial value element

A new tool to more rigourously think through how water risk can affect the financial value of assets



Summary & overview of upcoming upgrades

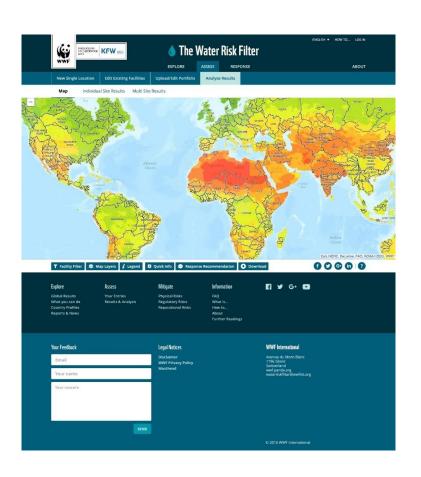


- New interface (cleaner, simpler, intuitive, more powerful)
- Indicator updating (basin & corporate) with improved questionnaire
- New, assessment-linked risk mitigation toolbox
- 4. Additional high-resolution areas
- 5. Additional (WWF) basin data
- 6. New business model
- Enhanced communications (& links with Aqueduct)
- 8. Valuation module



What have we learned about water risk, context and improvement opportunities?





THANK YOU!

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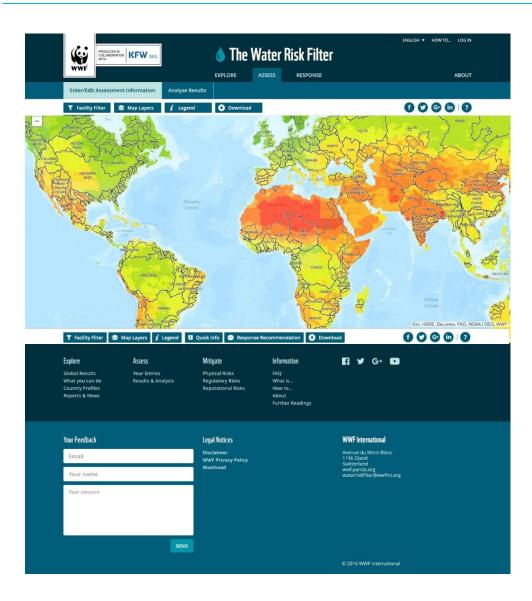


ADDITIONAL BACKGROUND SLIDES



Water Risk Filter Major Change #1 – New Interface





- Simpler
- Intuitive
- Flexible
- Faster
- New colours
- New branding
- In short: easier & more powerful

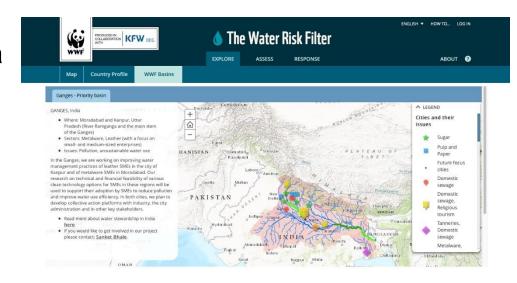


Water Risk Filter Major Change #5 – Data & WWF Basins



Serve additional basin data WWF basin story maps

- Details about WWF basins (what, why, how)
- Stories + pictures + videos + maps to illustrate our work



Explore Global Results What you can do Country Profiles Reports & News	Assess Your Entries Results & Analysis	Mitigate Physical Risks Regulatory Risks Reputational Risks	Information FAQ What is How to About Further Readings	ਜ ¥ G+ □	
Your Feedback Email Your name Your concern		Legal Notices Disclaimer WWF Privacy Policy Masthead		WWF International Avenue du Mont-Blanc 1196 Gland Switzerland wwf.panda.org waterriskfilter@wwfint.org	
	SEND			© 2016 WWF International	

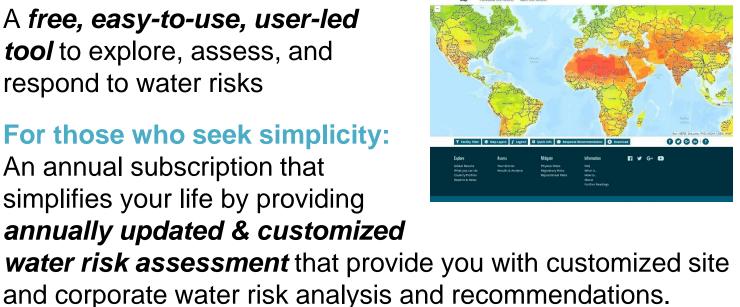


Water Risk Filter Major Change #6 – New Business Model



We will offer external users 3 services:

- For those who have time: A free, easy-to-use, user-led tool to explore, assess, and respond to water risks
- For those who seek simplicity: An annual subscription that simplifies your life by providing annually updated & customized



For those who need details: A bespoke, in-depth water risk analysis that draws upon our water stewardship experts to create a detailed report customized to your specific needs (e.g., supply chains).



Water Risk Filter Major Change #7 – Communications



We will be enhancing our communications efforts:

1. Water Risk reports: WWF will begin to generate a series of water risk reports & maps to create interest and grow awareness of water risk & stewardship.

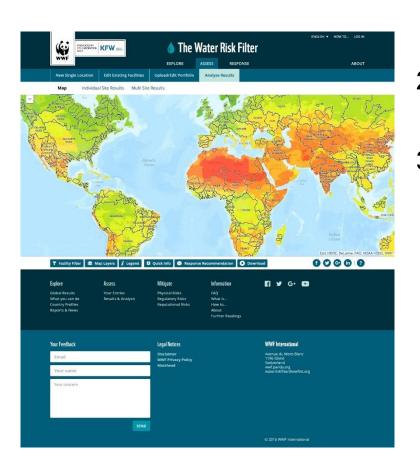


2. Collaboration:

WWF is working with WRI to engage in joint communications, projects (e.g., CBWTs), publications to align and explain how our tools complement one another.







- Water risk assessment as a field continues to learn, shift, and grow
- Tool developers are responding to user needs and lessons learned
- 3. Water Risk Filter will be rolling out a major shift this fall/winter



Water Risk Filter Developing a sub-structure



Risk Type	Risk Sub-Type
Physical	Quantity – Scarcity*
	Quantity – Flooding*
	Quality*
	Ecosystem Service Status*
Regulatory	Enabling Environment (Laws & Policy)
	Institutions & Governance
	Management Instruments
	Infrastructure & Finance
Reputational	Community cultural importance
	Media Scrutiny
	Corporate trust
	Community conflict / Tenure Risk

These elements are the master variables in determining flows/consistency of availability, physical impairment and general water use

These elements are generally recognized as the drivers of water governance (be it via SDG 6.5 framework/IWRM principles, or OECD framework)

These elements are some of the key environmental drivers of reputational risks (most of which is driven by operational water risk)

^{*}Climate change projections (coming)



Water Risk Filter Developing a sub-structure – why?



Risk Type	Risk Sub-Type
Physical	Quantity – Scarcity*
	Quantity – Flooding*
	Quality*
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Reputational	Community cultural importance
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	Community conflict / Tenure Risk

^{*}Climate change projections (coming)

Sub-structure allows for:

- Adaptation of the WRF to highresolution country/regional versions in a manner that maintains the integrity and aims of the system while enabling flexibility of indicators
- Balanced approach across the three risk areas (presently the other areas are underdeveloped in the WRF, as well as within competing tools)
- Supports Freshwater Practice integration (via Governance in Regulatory Risk, as well as Finance – covered in Regulatory aspect)
- Enables new data, innovation & partnerships with players like Globescan, UNEP-DHI, RepRisk, etc.



Structuring Regulatory Water Risk

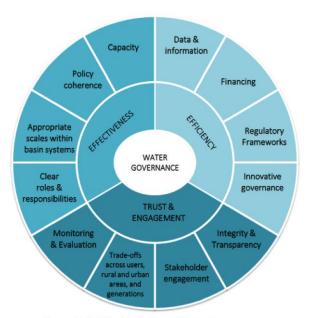


Figure 2. OECD's Principles on Water Governance

Two Primary Governance Frameworks

1. IWRM framework (SDG 6.5.1):

Pro: In theory, populated with data in the future by countries; alignment with UNGC (CEO WM) & corporate contributions to SDGs. **Con:** Technically an IWRM framework

2. OECD framework:

Pro: A dedicated water governance framework with extensive input. **Con:** Not populated with data & less amenable to spatial mapping.

Water Risk Area	Water Risk Sub-Area (per SDG 6.5.1)	Water Risk Sub-Area (per OECD framework)
Regulatory	Enabling Environment (Laws & Policy)	Regulatory frameworks (efficiency); Policy coherence (effectiveness)
	Institutions & Governance	Innovative governance (efficiency); stakeholder engagement + integrity & transparency (trust & engagement); Capacity + clear roles & responsibilities + appropriate scales (effectiveness)
	Management Instruments	Data & Information (efficiency); monitoring & evaluation + trade-off mechanisms (trust & engagement)
	Infrastructure & Finance	Financing (efficiency);