


Water Footprint Assessment and Disclosure

CDP and WFN

Ruth Mathews, Water Footprint Network
Sarah Robertson, CDP

Agenda

- ▼ CDP's water program and 2014 questionnaire
- ▼ Water Footprint Assessment: why it's important to corporate water stewardship
- ▼ How to use the Water Footprint Assessment Tool to calculate a corporate water footprint
- ▼ How Water Footprint Assessment can help when disclosing to CDP's water questionnaire
- ▼ Q&A

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CDP's water program

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An unprecedented global crisis

▼ Our climate is changing and we are facing unprecedented global economic challenges

▼ By 2030 the global population is expected to increase by **18.5%** to **8.3 billion**

▼ This demands:

- **50%** more food
- **50%** more energy
- **30%** more fresh water

Global
shortfall of
water supply
vs. demand
of 40% by
2030

Table 1: Ten Global Risks of Highest Concern in 2014

No.	Global Risk
1	Fiscal crises in key economies
2	Structurally high unemployment/underemployment
3	Water crises
4	Severe income disparity
5	Failure of climate change mitigation and adaptation
6	Greater incidence of extreme weather events (e.g. floods, storms, fires)
	Global governance failure
	Food crises
	Failure of a major financial mechanism/institution
	Profound political and social instability

Global Risks Perception Survey 2013-2014.

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What do we know?

- ▼ Water will have more rapid and unavoidable consequences for some businesses than carbon
- ▼ **70%** of Global 500 companies reported exposure to substantive water related risks in 2013
- ▼ **65%** of Global 500 companies report impacts from water related risks to impact now or in the next five years

Water is a business issue now

▼ \$24 million bottling plant sits idle for 8 months as Coca-Cola waits for access to water from India's Central Ground Water Authority

February 2, 2014 6:08 am

Coke bottles go unfilled in central India

By Amy Kazmin in New Delhi



Coca-Cola has been forced to mothball a bottling line in India for the second time, a warning of challenges the US-based soft drinks company faces in its \$5bn expansion plan in a country it has dubbed a “focus market.”

The company applied to India's Central Ground Water Authority in June for permission to begin running a new \$24m bottling line at an already operating plant in Medhiganj. Local farmers have already protested against the plant and blame Coke for causing water shortages.

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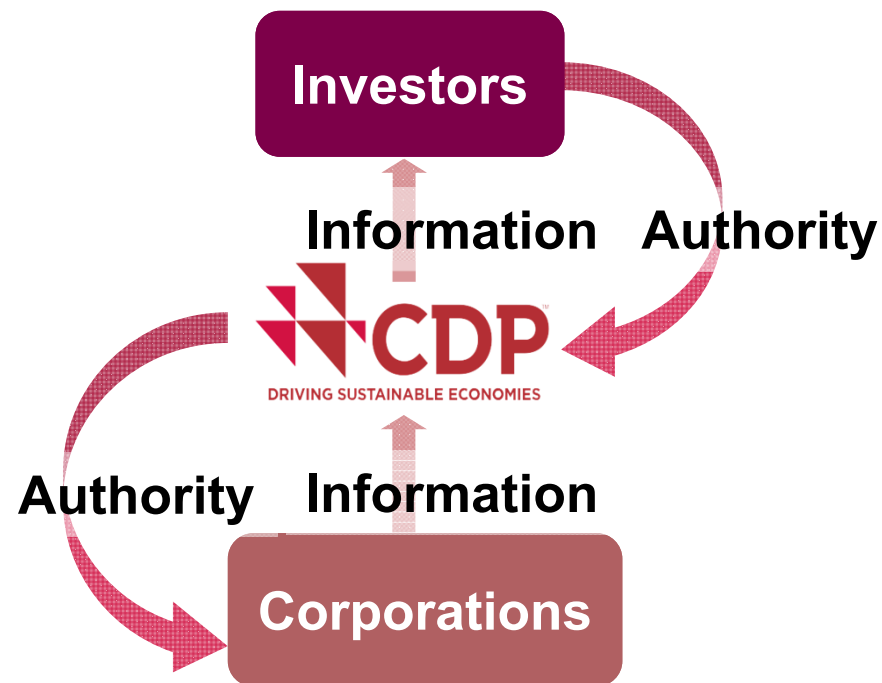
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Realizing the true value of water



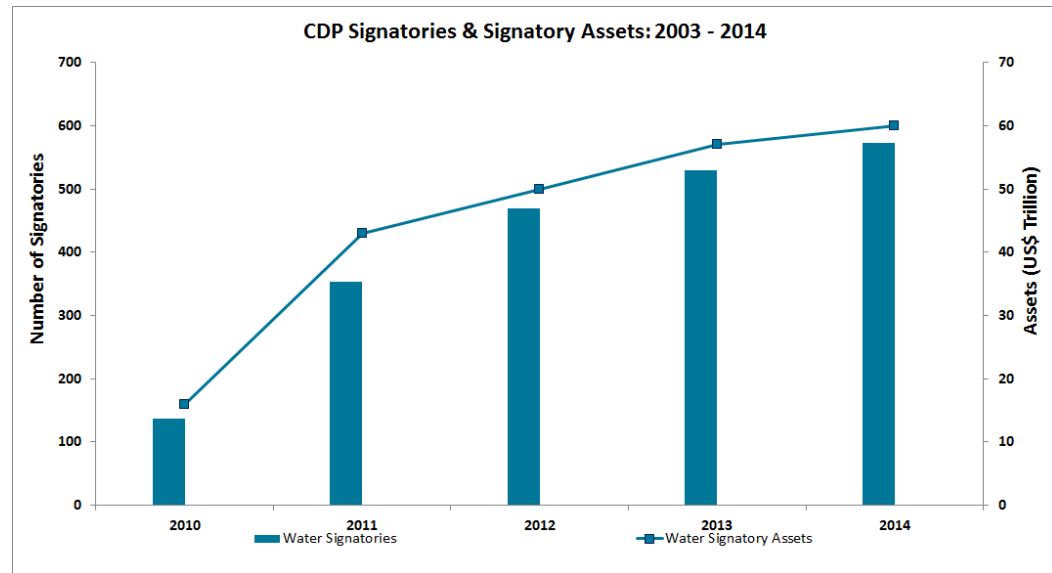
How CDP works



Investors are waking up to water risk

▼ CDP investor signatories hold companies accountable for the economic, environmental and human consequences of their water use and management.

▼ CDP uses their significant voice to move companies beyond business as usual, to protect assets from current and future water-related risk.



Water 2014

573 investor signatories

US\$60 trillion in assets

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CDP's 2014 water information request

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Principles

- ▼ Drive greater transparency of water issues
- ▼ Facilitate informed decision making
- ▼ Encourage action to mitigate water risk
- ▼ Promote competent and robust governance of water issues



CDP's water information request

▼ Five modules

1. Current state (Context)
2. Risk assessment (Procedures and requirements)
3. Implications (Water risks & opportunities)
4. Accounting (Water accounting)
5. Response (Governance & Strategy, Compliance, Targets and initiatives)

CDP's 2014 Water Information Request

CDP's 2014 Water Information Request

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Water Footprint Assessment

Ruth Mathews, Water Footprint Network

Water Footprint Network: Founded in 2008



UNESCO-IHE
Institute for Water Education



University of Twente
Enschede - The Netherlands



Fair and smart water use of the world's freshwater

Strategic Pillars:

- Sharing Knowledge: methodology, tools, databases, research & development, training
- Providing Solutions: WFA applications, quality assurance, technical assistance
- Building Community: partner programmes, linking to other initiatives

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Water Footprint Network: Hundreds of Partners Worldwide



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What is a Water Footprint?

The '**water footprint**' is a measure of human's appropriation of freshwater resources.

- ▶ Water footprint is a measurement of the **volume of water consumed** (evaporated or otherwise not returned) or **assimilation capacity used**.
- ▶ The water footprint is a **geographically** & **temporally** explicit indicator.
- ▶ The water footprint is an indicator of water use that looks at **both direct** & **indirect** water use of a consumer or producer.
- ▶ A water footprint can be calculated for a **process**, a **product**, a **consumer**, **group of consumers** (e.g. municipality, province, state or nation) or a **producer** (e.g. a private enterprise, public organization).

[Hoekstra et al., 2011]

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Water Footprint Components

[Hoekstra et al., 2011]

Green water footprint

- ▶ volume of rainwater evaporated or incorporated into product



Blue water footprint

- ▶ volume of surface or groundwater evaporated or incorporated into product, lost return flow



Grey water footprint

- ▶ volume of water needed to assimilate pollutants



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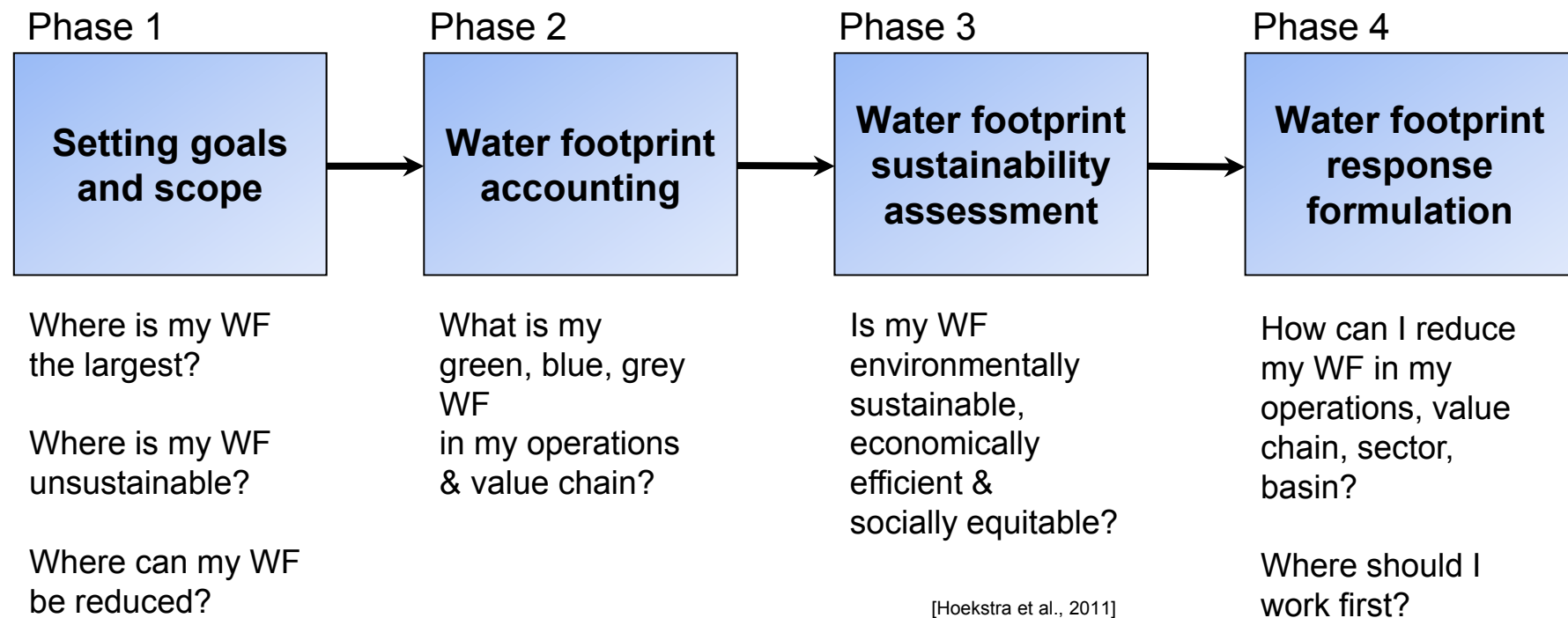
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Water Footprint Assessment

Water Footprint Assessment is a framework which enables us to:

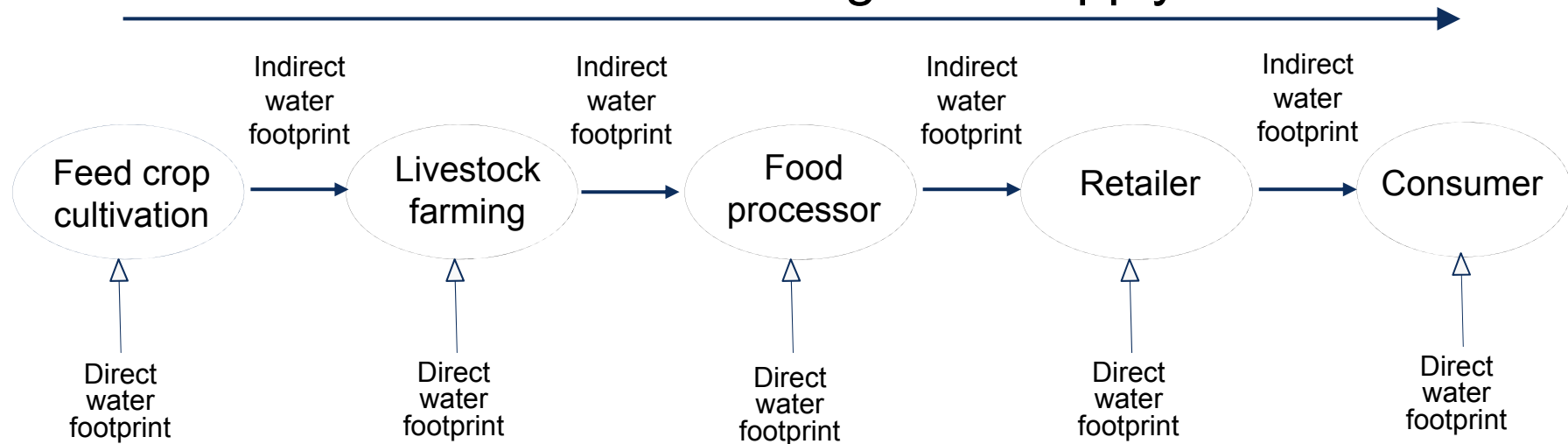
- Understand the ***geographic and temporal allocation of water resources*** for industry, agriculture and domestic water supply
- Assess the ***sustainability, efficiency and equitability of water use***: consumption & pollution
- Identify the most ***strategic actions*** to be taken in local, regional, national and global scales, individually and collectively

Water Footprint Assessment: Four Phases



Water Footprint Along a Supply Chain

Virtual water flow through the supply chain



[Hoekstra et al., 2011]



Selecting Priority River Basins

Priority basins are selected using the following two criteria:

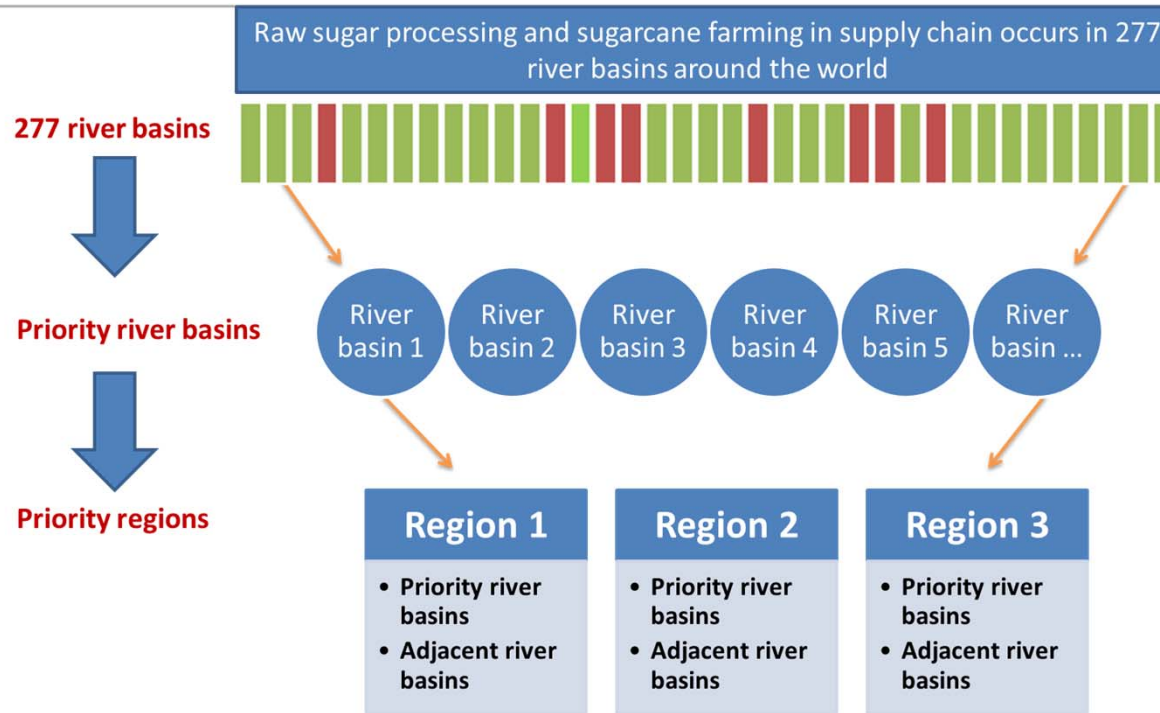
1. Share of the WF (Accounting):

The basin's share relative to the company's total WF (direct operations & supply chain) is above 1%; and

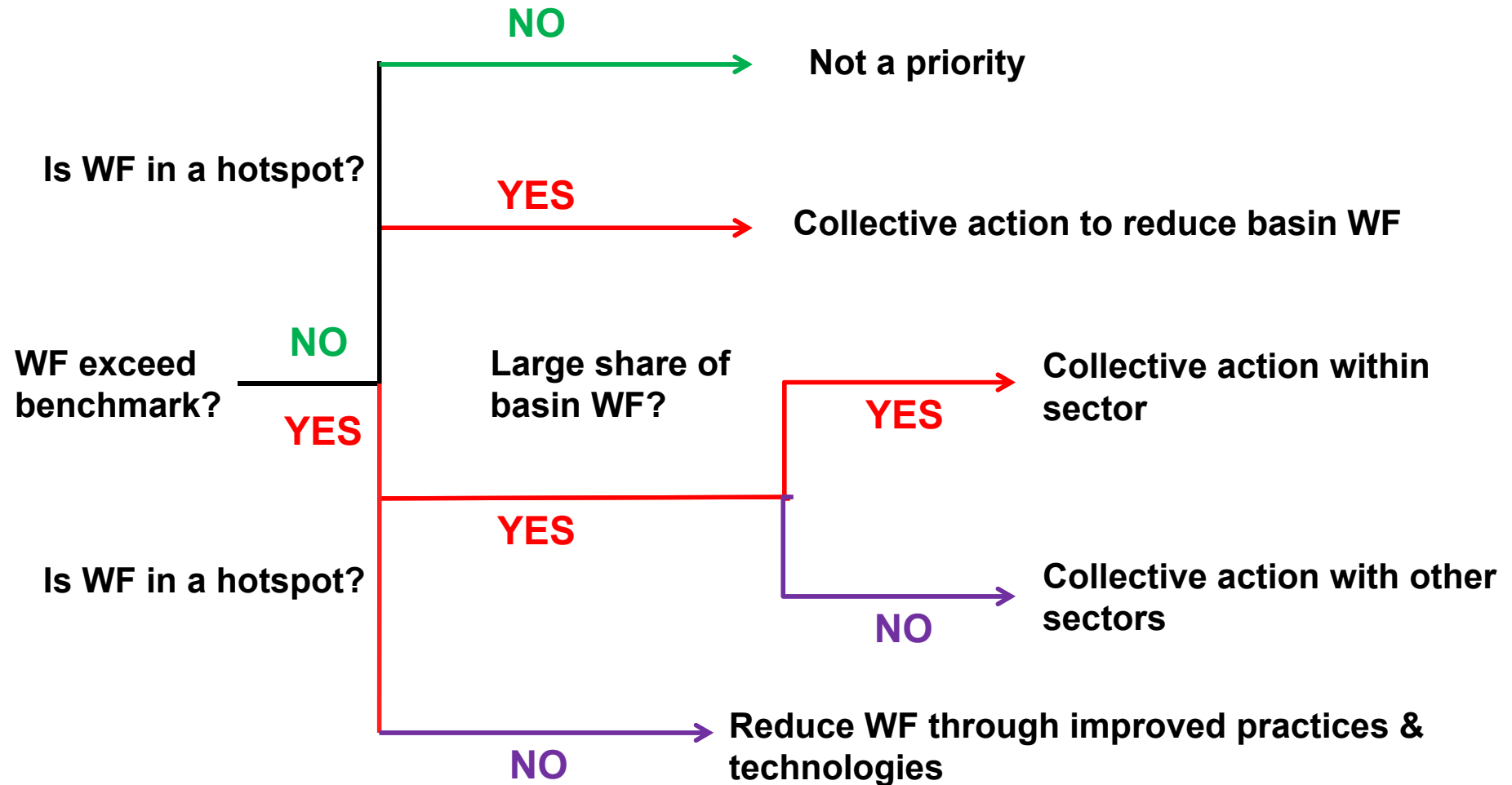
2. Sustainability Assessment:

Product WF is above the global benchmark (for green+blue WF & grey WF) or the basin is a hotspot (for blue water scarcity or water pollution levels), or both.

Strategic Assessment of Priority River Basins



Response Formulation Guidance for Priority River Basins



Water Footprint Assessment Tool

The screenshot displays the Water Footprint Network website. At the top, a blue navigation bar includes the 'Water Footprint NETWORK' logo, a 'Home' button, and links for 'About the Tool', 'Assessment', 'Contact', and 'Donate'. The main header image shows four men in yellow hard hats and light blue shirts, engaged in a discussion. Below this, the text reads: 'Water Footprint Assessment Tool Building Communities: Working Together for Healthy Economies and Thriving Ecosystems'.

On the left, a section titled 'Tool for Water Stewardship' features a profile picture of Ruth Mathews, Executive Director of WFN. The text describes the network's mission: 'The Water Footprint Network is passionate about its mission - engaging companies, governments, NGOs, investors and international organizations in taking strategic action toward solving the world's water scarcity and water pollution problems. Bringing together the internationally recognized Global Water Footprint Standard and the most comprehensive water footprint database - WaterStat - the Water Footprint Assessment Tool provides results based on sound methods and best available data.' A link 'Read more about the tool' with a right-pointing arrow is at the bottom of this section.

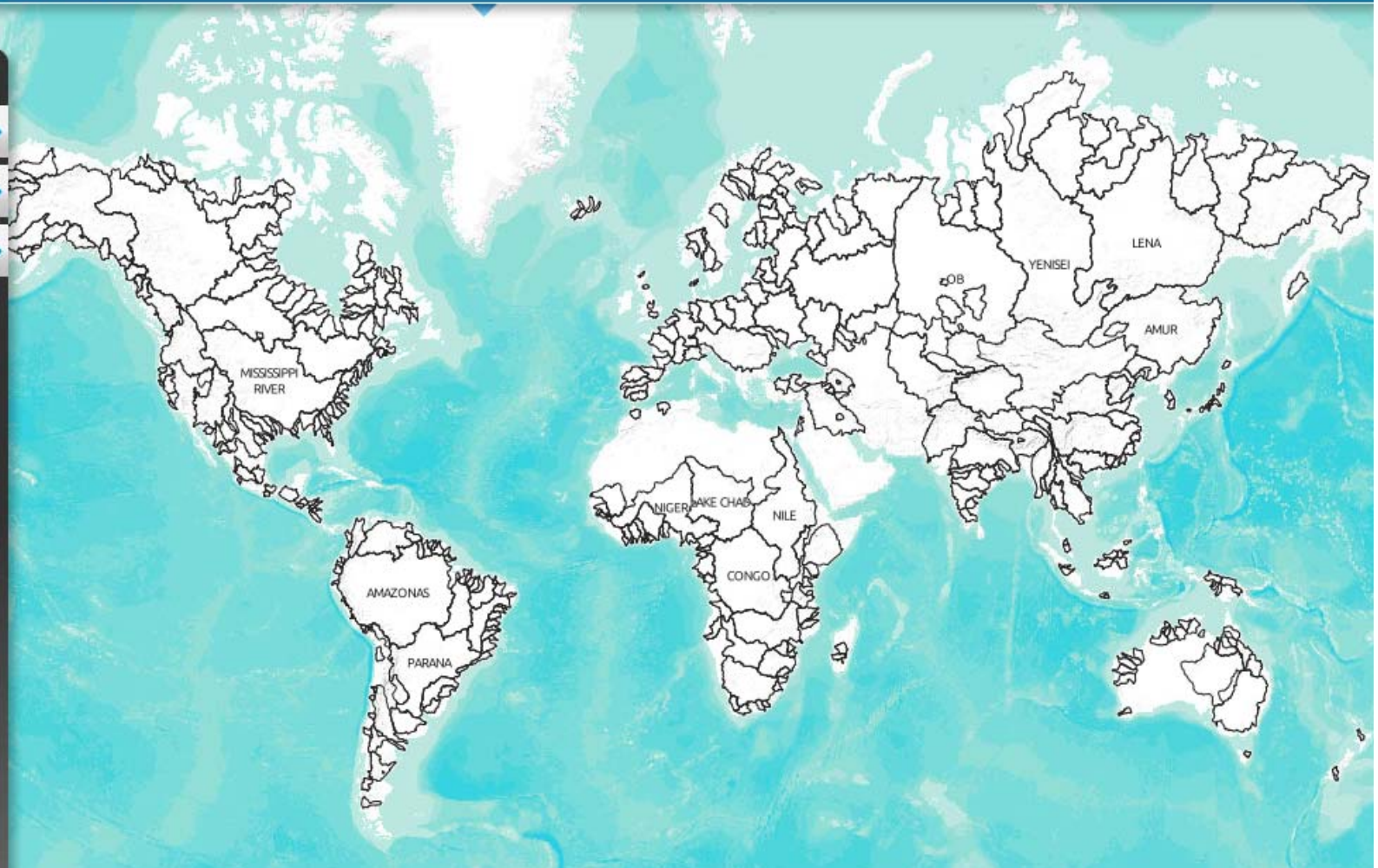
On the right, a blue box titled 'Start the Water Footprint Assessment Tool' contains the text: 'To fulfill its commitment to a sustainable future, the Water Footprint Network offers the Water Footprint Assessment Tool for free, online, for everyone to use.' Below this text are icons for a world map, a calculator, and a balance scale. A prominent orange button labeled 'Start Assessment' with a right-pointing arrow is circled in red. Below the blue box, there is a small graphic of a water footprint and a link 'Read more about the water footprint' with a right-pointing arrow.

What would you like to do?

 [Water Footprint Highlights](#) →

 [Geographic Assessment](#) →

 [Production Assessment](#) →



Goal & Scope → Accounting → Sustainability → Response

What would you like to do?

Water Footprint Highlights →

Geographic Assessment →

Production Assessment →

1 Goal & Scope

Production Assessment X

WFN1

production: 5000000 pcs

Your Facilities

- All Facilities
- Chemical Plant
- Kiev
- No Basin
- test

Your Supply Chain

- All Commodities
- Cotton from IN,PK
- Jute from IN

I would like to:

- ☐ start a new production assessment
- ☐ open an existing production assessment
- ☒ continue the current production assessment

The code of my production assessment is:

test

Copy to Clipboard

My scope of interest is:

- ☒ my business
 - ☒ the operational water footprint of my facilities
 - ☒ the supply-chain water footprint of my facilities
- ☐ a commodity

The name of my business is:

WFN1

- ☒ I know the amount of product that my business produces

The amount of production is:

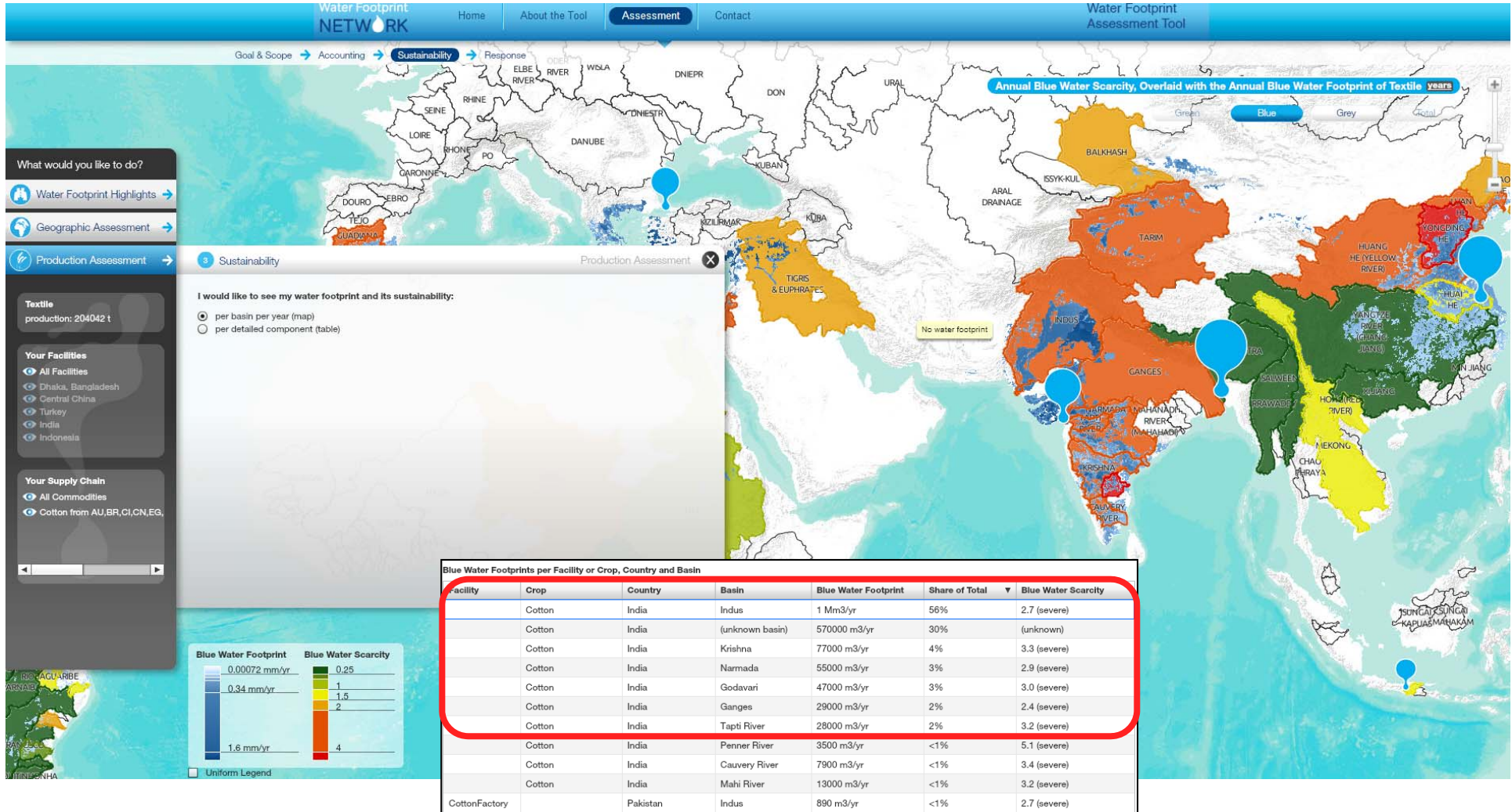
5000000

pcs

per year

← Previous

→ Next



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HomeAbout the ToolAssessmentContact

Water Footprint
Assessment Tool

Goal & ScopeAccountingSustainabilityResponse

What would you like to do?

Water Footprint Highlights

Geographic Assessment

Production Assessment

Scope

basin: Indus

1 Goal & Scope

Geographic Assessment

My place of interest is:

River Basin Selection

Indus

☐ the world

☐ a specific country

☐ a specific region within a country *(not yet available in this version)*

☒ a specific river basin

☐ my own customized area *(not yet available in this version)*

← Previous

→ Next

KURA

DARYACHEH-YE

TARIM

INDUS

GANGES

MAHI RIVER

NARMADA

TAPTI RIVER

GODAVARI

MAHANADI RIVER (MAHAHADI)

BRAHMANI RIVER (BRAHMANI)

Water Footprint NETWORK

HomeAbout the ToolAssessmentContact

Water Footprint Assessment Tool

Goal & Scope → Accounting → Sustainability → Response

What would you like to do?

Water Footprint Highlights →

Geographic Assessment →

Accounting

Scope

basin: Indus

Accounting

water footprint, spatial distribution
agricultural sector

I would like to see the water footprint:

☒ distributed spatially (map)
☐ of the Indus basin, compared to other basins (bar chart)
☐ per crop or sector, in the Indus basin (pie charts)
☐ per crop or sector, in the Indus basin (table)

My sector of interest is:

☐ all sectors
☒ agriculture
☐ industry
☐ domestic water supply

Crop Selection

→ Select Crop

Select Crop

Select a crop from the list below or look up a crop in the search box:

Cereals Wheat Rice Barley Maize Rye Oats Millet Sorghum Buckwheat Triticale Mixed Cereals Other Cereals	Garlic Beans, Green Peas, Green String Beans Okra Green Corn (Maize) Other Vegetables Watermelons Cantaloupes and... Cashew Nuts Chestnuts Almonds Walnuts Pistachios Hazelnuts (Filberts) Other Nuts Bananas Plantains Oranges Tangerines, Man... Lemons and Limes Grapefruit and P... Other Citrus Fruit Apples Pears
--	--

 Apricots Sour Cherries Cherries Peaches and Ne... Other Stone Fruit Strawberries Raspberries Gooseberries Currants Blueberries Cranberries Other Berries Grapes Figs Mangoes Avocados Pineapples Dates Kiwi Fruit Other Tropical Fruit Other Fruit Oilseed Crops Soya Beans Groundnuts Coconuts |

 Oil Palm Fruit Olives Castor Beans Sunflower Seed Rapeseed Safflower Seed Sesame Seed Mustard Seed Melonseed Linseed Other Oilseed Cr... Potatoes Sweet Potatoes Cassava Taro (Coco Yam) Yams Other Roots and ... Coffee Cocoa Tea Hops Black, White and ... Chillies and Pepp... Vanilla Nutmeg, Mace a... |

Other, Badian an...

Ginger

Other Spices

Leguminous Crops

Beans, Dry

Broad Beans

Peas, Dry

Chick Peas

Cow Peas

Pigeon Peas

Lentils

Vetches

Lupins

Other Leguminou...

Sugar Crops

Sugar Cane

Sugar Beet

Fodder Crops

Cotton

Flax

Jute

Jute-Like Fibres

Sisal

Other Fibre Crops

Tobacco

Rubber

→ OK

Goal & Scope → Accounting → Sustainability → Response

What would you like to do?

[Water Footprint Highlights →](#)

[Geographic Assessment →](#)

Scope

basin: Indus

Accounting

water footprint, spatial distribution
crop: cotton

[Production Assessment →](#)

Green

Blue

Grey

Total

INDUS

GANGES

0.0017 mm/yr

2 mm/yr

12 mm/yr



Goal & Scope → Accounting → Sustainability → Response

What would you like to do?

Water Footprint Highlights →

Geographic Assessment →

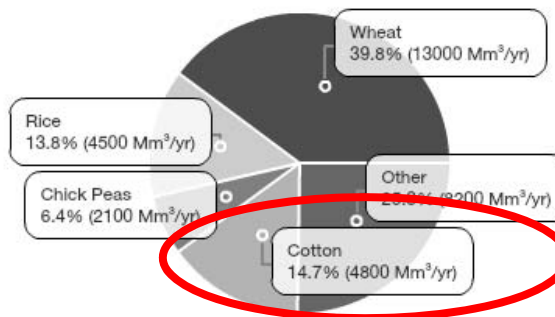
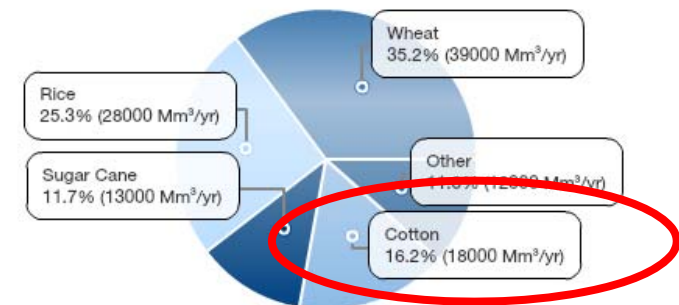
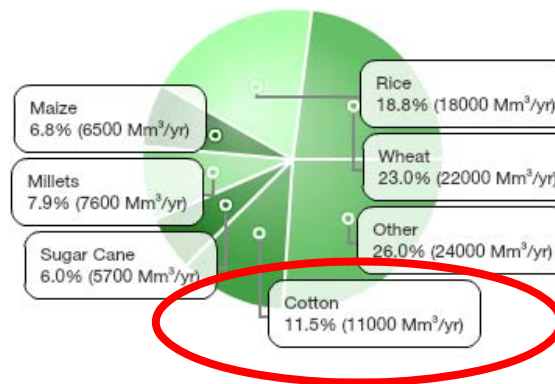
Scope

basin: Indus

Accounting

water footprint, per crop or sector

Production Assessment →



Threshold: 5 %

All values below the threshold are included in "Other".

Goal & Scope → Accounting → Sustainability → Response

Order By: Total WF ▼

What would you like to do?

Water Footprint Highlights →

Geographic Assessment →

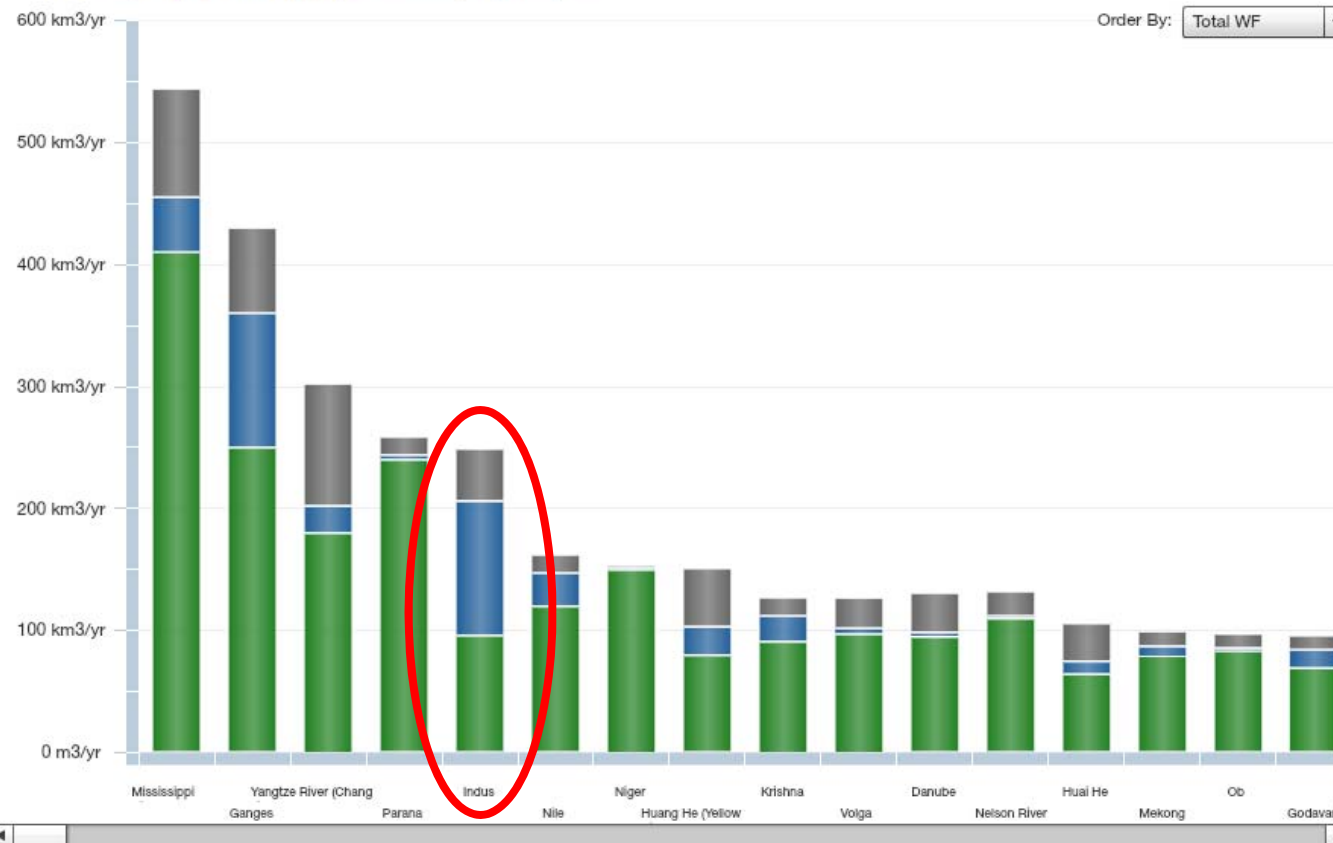
Scope

basin: Indus

Accounting

water footprint, per basin

Production Assessment →



Goal & Scope → Accounting → Sustainability → Response

What would you like to do?

Water Footprint Highlights →

Geographic Assessment →

Scope

basin: Indus

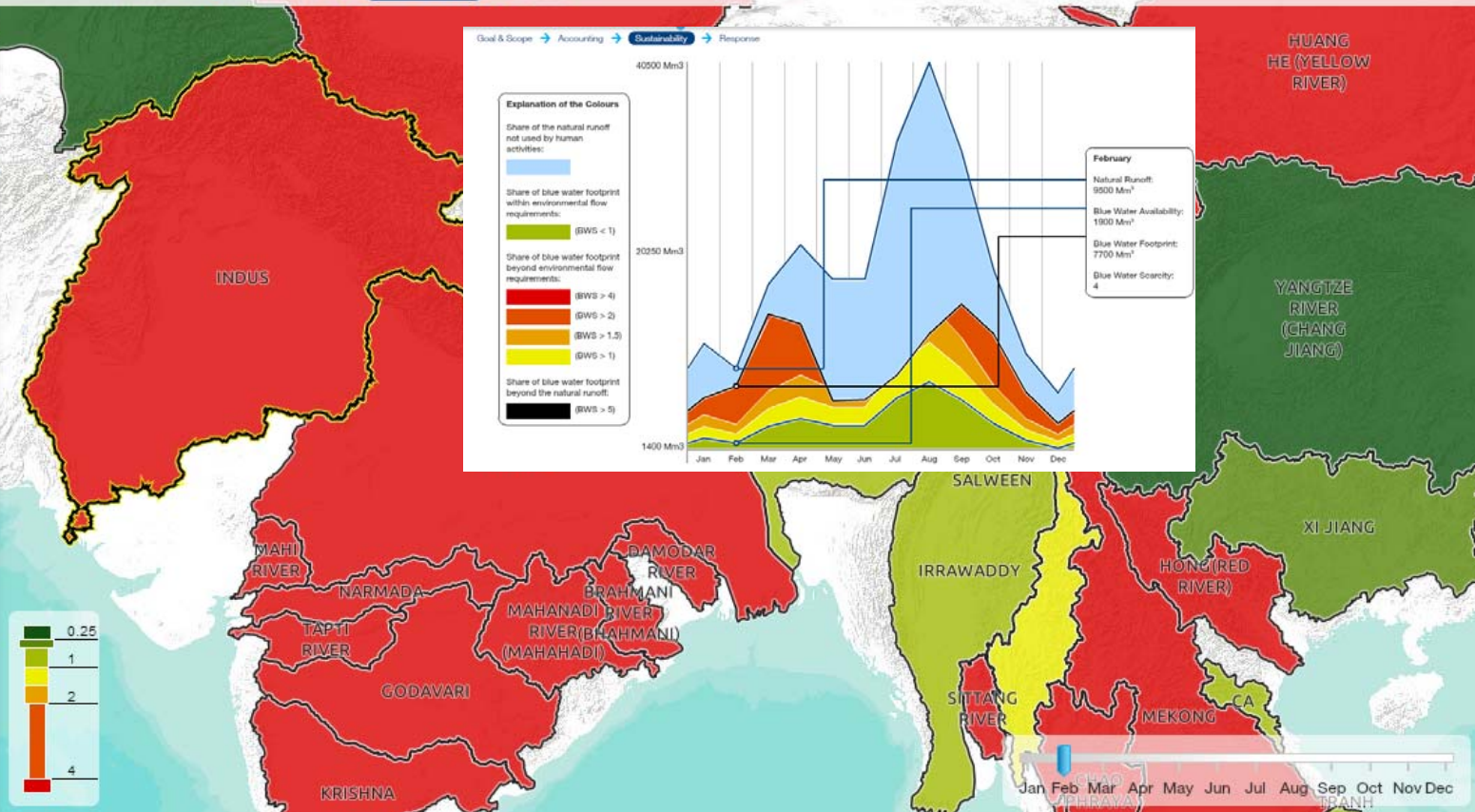
Accounting

water footprint, spatial distribution
crop: cotton

Sustainability

blue water scarcity, per month

Production Assessment →



How will Water Footprint Assessment help companies do CDP water disclosure?

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CDP's water information request

▼ Five modules

1. Current state (Context)
2. Risk assessment (Procedures and requirements)
3. Implications (Water risks & opportunities)
4. Accounting (Water accounting)
5. Response (Governance & Strategy, Compliance, Targets and initiatives)

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CDP's water questionnaire

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Guidance on responding to each of the columns is provided below:

- **Country**

- In the first column, please select from the drop down menu the country where your organization experienced the detrimental impact related to water.

- **River basin**

- Please select the appropriate river basin from the drop down menu provided. If you do not see the basin required, please select 'Other, please specify' and write in the correct river basin using the text box provided. If you do not know the river basin in which your facility resides, the following tools have the functionality to map the river basin locations of facilities:
 - The Water Footprint Network (WFN) [Water Footprint Assessment Tool](#)
 - The Water Risk Filter <http://waterriskfilter.panda.org/> developed by WWF and DEG;
 - The [WRI Aqueduct Water Risk Atlas Tool](#); and
 - The [WBCSD Global Water Tool](#)

You might want to put a sub-basin of a bigger river basin identified in the drop-down menu. Please feel free to do it by using the "Other, please specify" and inputting your value and the main basin, e.g. "Putumayo, Amazon".

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CDP's water questionnaire

W2.3 Please select the methods used to assess water risks

- FAO/AQUASTAT
- GEMI Local Water Tool
- Internal company knowledge
- IPIECA Global Water Tool for Oil & Gas
- Life Cycle Assessment
- Maplecroft Global Water Security Risk Index
- Regional government databases
- UNEP Vital Water Graphics
- Water Footprint Network
- WBCSD Global Water Tool
- WRI water stress definition
- WRI Aqueduct

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W3. Water risks

W3.1 Is your organization exposed to water risks, either current and/or future, that could generate a substantive change in your business, operations, revenue or expenditure?

- Yes, direct operations and supply chain
- Yes, direct operations only
- Yes, supply chain only
- No
- Don't know

Each of these tools plus the Water Footprint Network (WFN) has the functionality to map the river basin locations of facilities. While it is not a water risk assessment tool, however it can play a vital role in identifying risks.

W3.2 Please provide details as to how your organization defines substantive change in your business, operations, revenue or expenditure from water risk [open text with 2,400 characters max]

If Yes, direct operations and supply chain; if Yes, direct operations only

W3.2a Please complete the table below providing information as to the number of facilities in your direct operations exposed to water risks that could generate a substantive change in your business, operations, revenue or expenditure. Please also provide either the proportion of cost of goods sold, global revenue or global production capacity that could be affected across your entire organization at the river basin level

Country	River basin	Number of facilities within the river basin exposed to water risk	Reporting metric	Proportion of chosen metric that could be affected within the river basin
[Country drop down list]	• List of basins • Not known • Other, please specify	[numeric response]	• % cost of goods sold • % global revenue • % global production capacity • % other, please specify	• Less than 1% • 1-5 • 6-10 • 11-20 • 21-30 • 31-40 • 41-50 • 51-60 • 61-70 • 71-80 • 81-90 • 91-100

W3.2b Please list the inherent water risks that could generate a substantive change in your business, operations, revenue or expenditure, the potential impact to your direct operations and the strategies to mitigate them

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of strategy	Details of strategy and costs
[Country drop down list]	[list of basins] Not known Other, please specify	Physical: • Climate change • Declining water quality • Dependency on hydropower • Drought • Ecosystem vulnerability • Flooding • Inadequate infrastructure • Increased water scarcity • Increased water stress • Pollution of water supply • Projected water scarcity • Projected water stress • Seasonal supply variability/inter annual variability Regulatory: • Changed product standards • Higher water prices • Increased difficulty of operations per • Lack of transport • Limited or no management • Mandatory water recycling or production • Poor coordination between regulatory bodies • Poor enforcement of water regulation • Regulation of discharge quality/volumes leading to higher compliance costs • Regulatory uncertainty • Statutory water withdrawal limits/changes to water allocation • Unclear and/or unstable regulations on water allocation and wastewater discharge. Reputational: • Changes in consumer behavior • Community opposition • Cultural and religious values • Inadequate access to water, sanitation and hygiene • Litigation • Negative media coverage Other, please specify	• Brand damage • Closure of operations • Constraint to future growth • Decrease in shareholder value • Delays in permitting • Higher operating costs • Fines/penalties • Litigation • Loss of	[open text: 500 characters max]	• Current - up to 1 year • 1-3 years • 4-6 years • >6 years • Unknown	• Highly probable • Probable • Unlikely • Unknown	• Low • Low-medium • Medium • Medium-high • High • Unknown	• Alignment of public policy positions with water stewardship goals • Comply with local legal requirements or company own internal standards, whichever is more stringent • Engagement with customers • Engagement with public policy makers • Engagement with suppliers • Establish site-specific	• Low • Low-medium • Medium • Medium-high • High • Unknown Other, please specify	[open text: 2000 characters max]
Each of these tools plus the Water Footprint Network (WFN) Water Footprint Assessment Tool has the functionality to map the river basin locations of facilities. (Please note that the WFN tool is not a water risk assessment tool, however it can play a vital role in understanding impacts which can then be translated into risks).										
		• disruption • Other, please specify						• new technology • Infrastructure investment • Infrastructure maintenance • Implement minimum performance standards • Implement regulatory requirements • New products, markets • Strengthen links with local community • Supplier diversification • Water management incentives • Other, please specify		

W5.2 For those facilities exposed to water risks that could generate a substantive change in your business, operations, revenue or expenditure, the number of which was reported in W3.2a, please detail which of the following water aspects are regularly measured and monitored and an explanation as to why or why not.

You are requested to respond to this question in the table provided in the ORS, reproduced below.

Water aspect	% of facilities	Please explain
Water withdrawals – total volumes	• Less than 1% • 1-25 • 26-50 • 51-75 • 76-100	[open text: 500 characters max]
Water withdrawals – volume by sources		
Water discharges – total volumes		
Water discharges – volume by destination		
Water discharges – volume by treatment method		
Water discharge quality data – quality by standard effluent parameters		
Water consumption – total volume		
Water recycling / reuse – total volume		

W5.5 Water consumption: for the reporting period, please provide water consumption data for all facilities reported in W5.3

You are requested to respond to this question in the table provided in the ORS, reproduced below.

Facility reference number	Consumption (megaliters/year)	How does this compare to the last reporting period?	Please explain the change if substantive
[drop down reference number]	[numeric]	• Much Lower • Lower • About the same • Higher • Much Higher • This is our first year of estimation	[open text: 500 characters max]

W5.6 For the reporting period, please provide any available water intensity values for your organization's products or services across its operation

You are requested to respond to this question in the table provided in the ORS, reproduced below. A sample response is included below.

Country	River basin	Product name	Product unit	Water unit	Water intensity (Water unit/ Product unit)	Water use type	Comment
[Country drop down list]	[drop down list of river basin] Not known Other, please specify	[open text: 500 characters max]	• Liters • Mega-liters • Kilogram • Ton • Other, please specify	• Liters • Mega-liters	[numeric]	• Withdrawals • Water use in operations • Other, please specify	[open text: 1000 characters max]

Box 15: Water intensity

This measurement is suitable when aggregating or comparing across businesses that have similar products. This is represented as:

$$\text{Water intensity} = \frac{\text{Volume of water used in making product (water unit)}}{\text{Output or volume of product created (product unit)}}$$

Example: Company A uses six liters of water to produce one liter of orange juice. Company B uses eight liters of water to produce one liter of orange juice. Company A is less water intensive (or more water-efficient) than Company B for that product.

Questions?



Thank you for joining!
Contact us...

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