The CEO Water Mandate

Water-related Business Risks and Water Stewardship in a Post-2015 World

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Oslo Water Initiative Inaugural Meeting

Oslo, Norway

October 14, 2014

United Nations Global Compact

25 YEARS PACIFIC INSTITUTE

CEO Water Mandate Overview

Launched by UN Secretary General in 2007 as partnership between companies and the UN Global Compact.

Function

1. Constitutes a call-to-action and forum for companies to improve their water stewardship practices
2. Provides a strategic framework, good practice guidance, and enabling tools designed to advance corporate water stewardship

Sectors Represented

Apparel	**Agri-Business**	**Beverage**
Chemicals	**Construction**	**Consumer Products**
Cosmetics	**Energy**	**Engineering**
Finance	**Food**	**Footwear**
Forest Products	**Hospitality**	**Pharma**
Mining-Metals	**Water Services**	**Water Technologies**

Roughly 125 endorsing companies as of October 2014

Priority Workstreams

Mandate currently advances four aspects of corporate water stewardship:

- Corporate Water Disclosure
- Water and Human Rights
- Public Policy Engagement → Collective Action
- Water Stewardship in the Supply Chain → Sustainable Ag Focus

Commitment Areas

Direct Operations:
water-use assessments; targets for conservation and waste-water, etc.

Supply Chain and Watershed Management:
supplier sustainability strategies; assess and respond to watershed risk, etc.

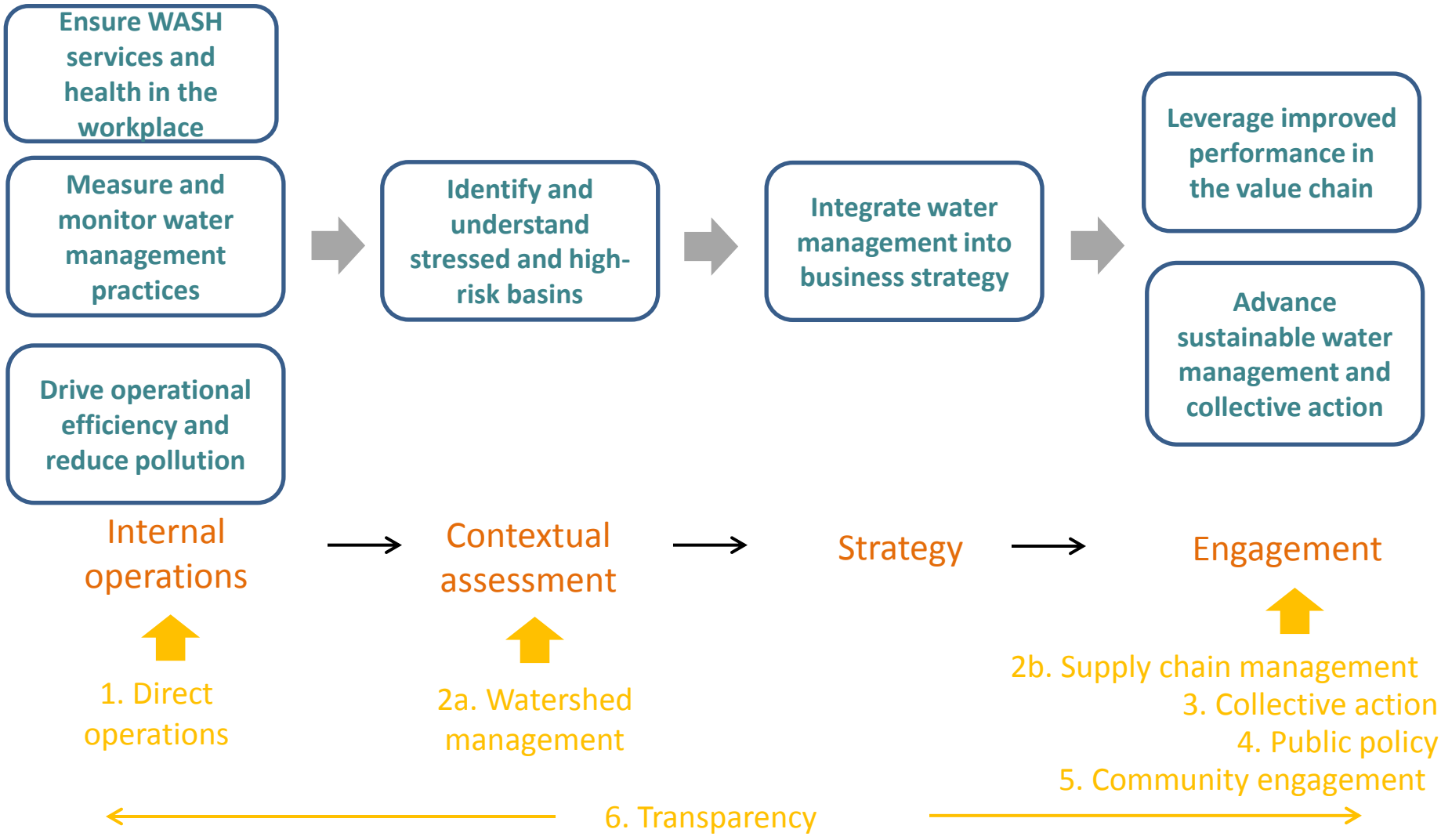
Collective Action:
civil society, governments, UN, other water initiatives, etc.

Public Policy:
inputs to public-policy making; advocacy on water sustainability, etc.

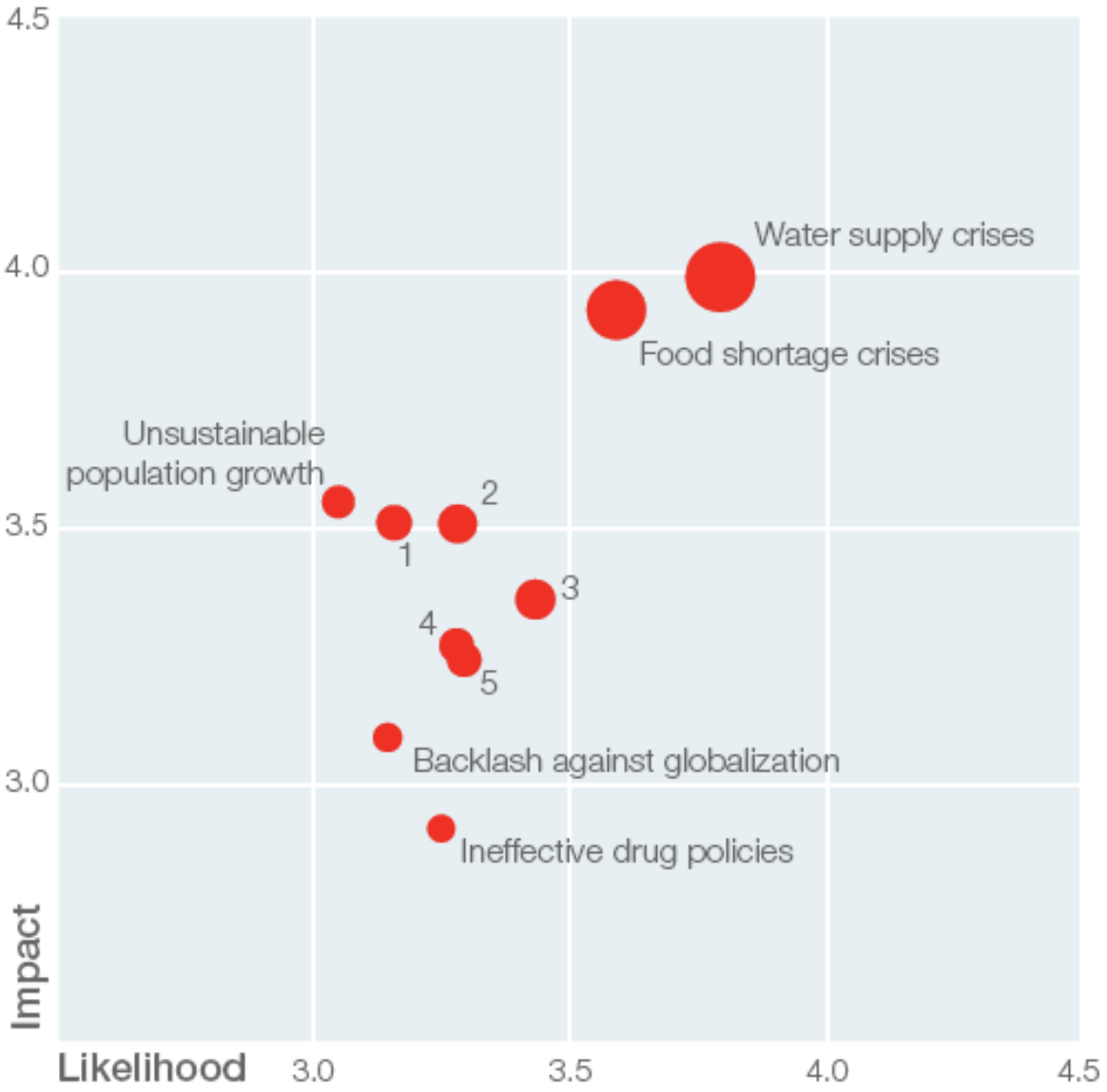
Community Engagement:
support local groups; water education; infrastructure, etc.

Transparency:
report on implementation and progress

Corporate Water Stewardship Maturity Progression

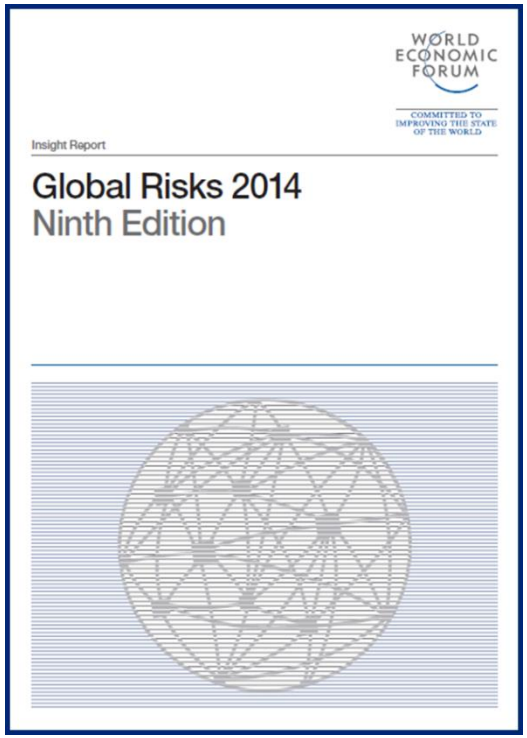


Societal Risks by Severity and Likelihood



1. Vulnerability to pandemics
2. Rising religious fanaticism
3. Mismanagement of population aging
4. Unmanaged migration
5. Rising rates of chronic disease

Source: World Economic Forum 2012



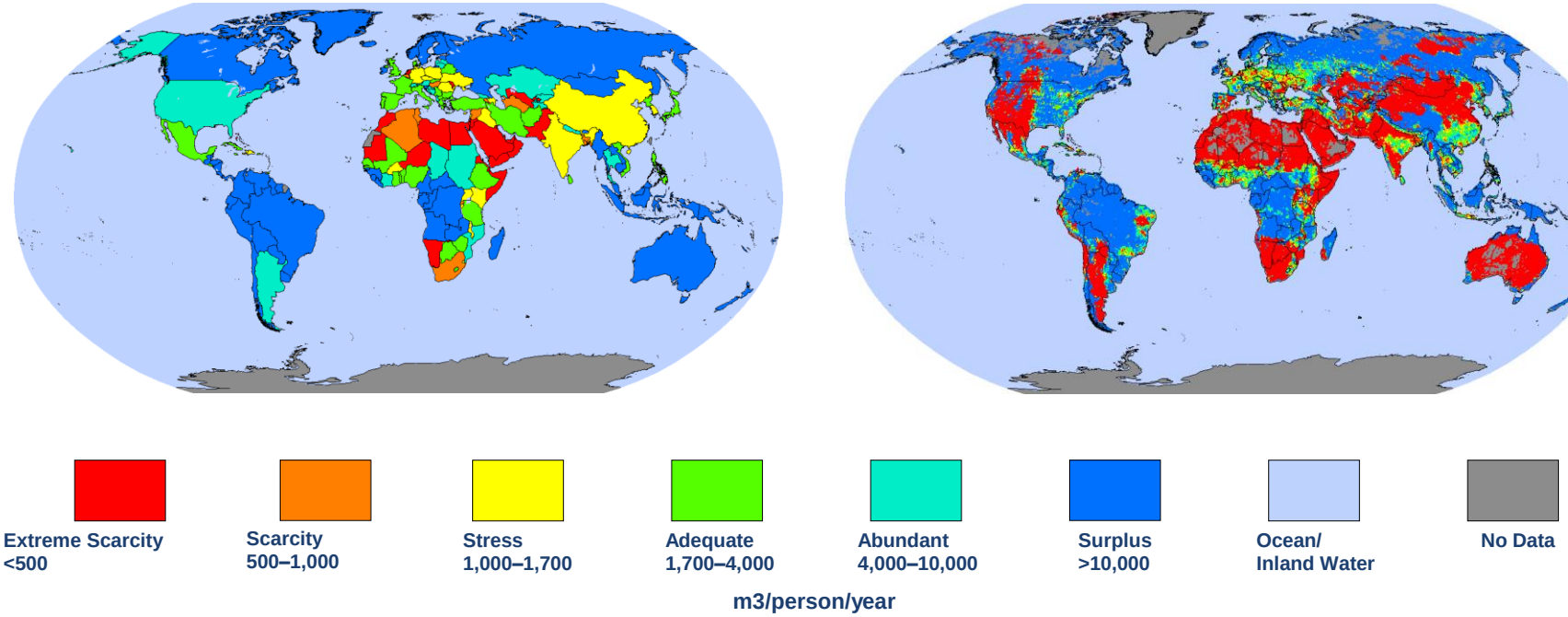
Scarcity is Projected to Increase – *Value Chain* Risks

Water Availability: 2000[1]

- Regions of water stress, scarcity, and extreme scarcity across Asia, Africa, and Europe

Water Availability: 2025[1]

- Extreme water scarcity projected to be widespread across all continents

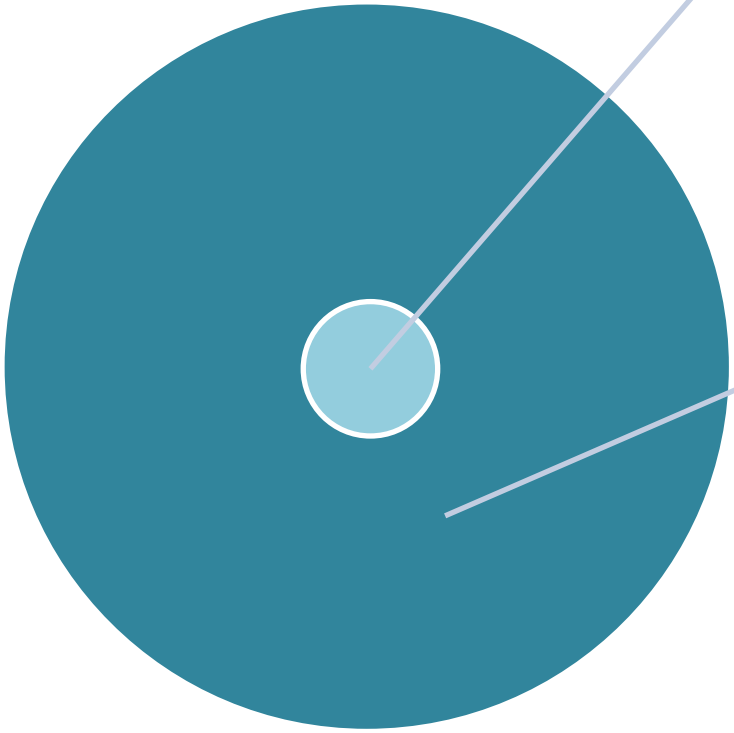


Water withdrawals are predicted to increase by 50% in developing countries, and 18% in developed countries by 2025.[2]

1 – Center for Environmental Systems Research, University of Kassel.
2 – "Water Use Statistics", UN Water.

Source: Will Sarni 2014

Water Risk and the External Engagement Imperative



Company

- Water use efficiency
- Wastewater treatment
- Compliance
- Impacts on communities and ecosystems

Basin / Watershed

- Water stress
- Water pollution
- Inadequate infrastructure
- Lack of government capacity
- Climate change
- Lack of community access to safe drinking water

Often, the greatest risks come from conditions over which the company has the least influence

Business Case: Internal versus External Action

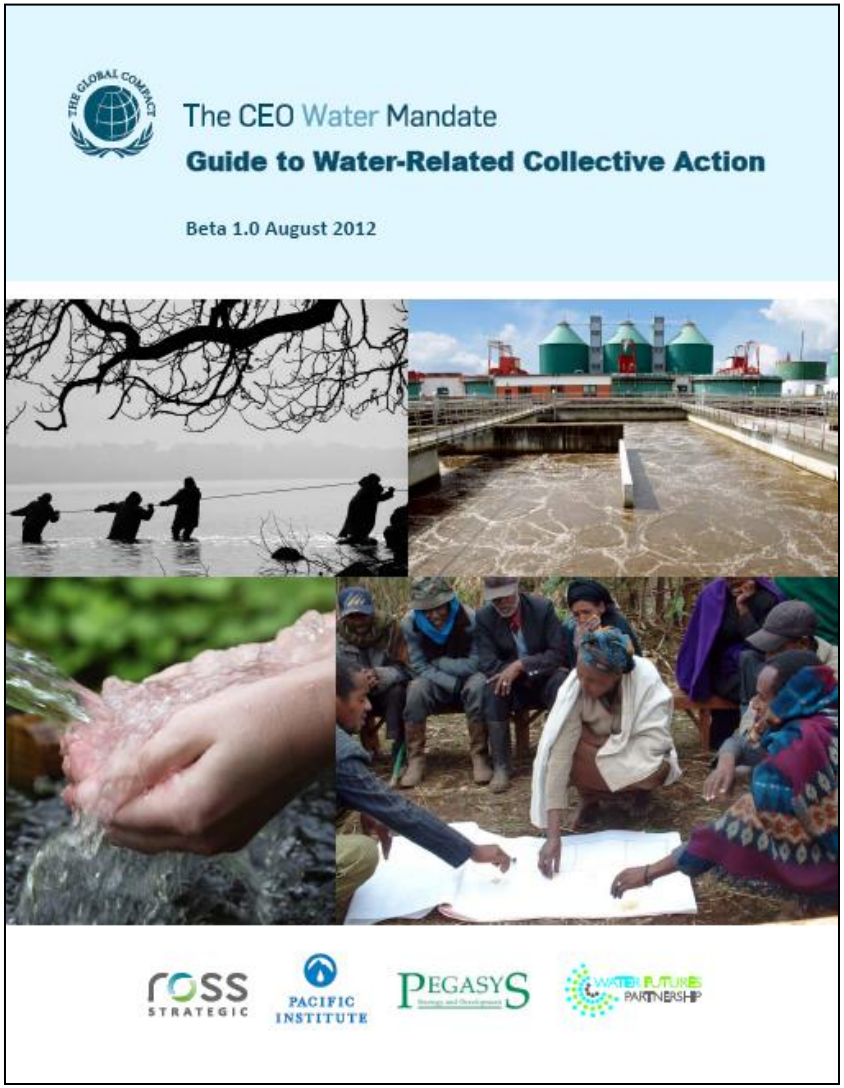
Example 1:
Sasol cooling tower blow down recovery plant

Sasol plant		Sebokeng facility
$ 50 mill	capital	$ 0.5 mill
18 Ml/day	saving	28 Ml/day
$ 2.00/m^3	o & m	$ 0.02/m^3

Example 2:
Sebokeng pressure management system

Shared Risk and Collective Action

Water risk creates a strong driver for collective action among companies and others to address common water challenges



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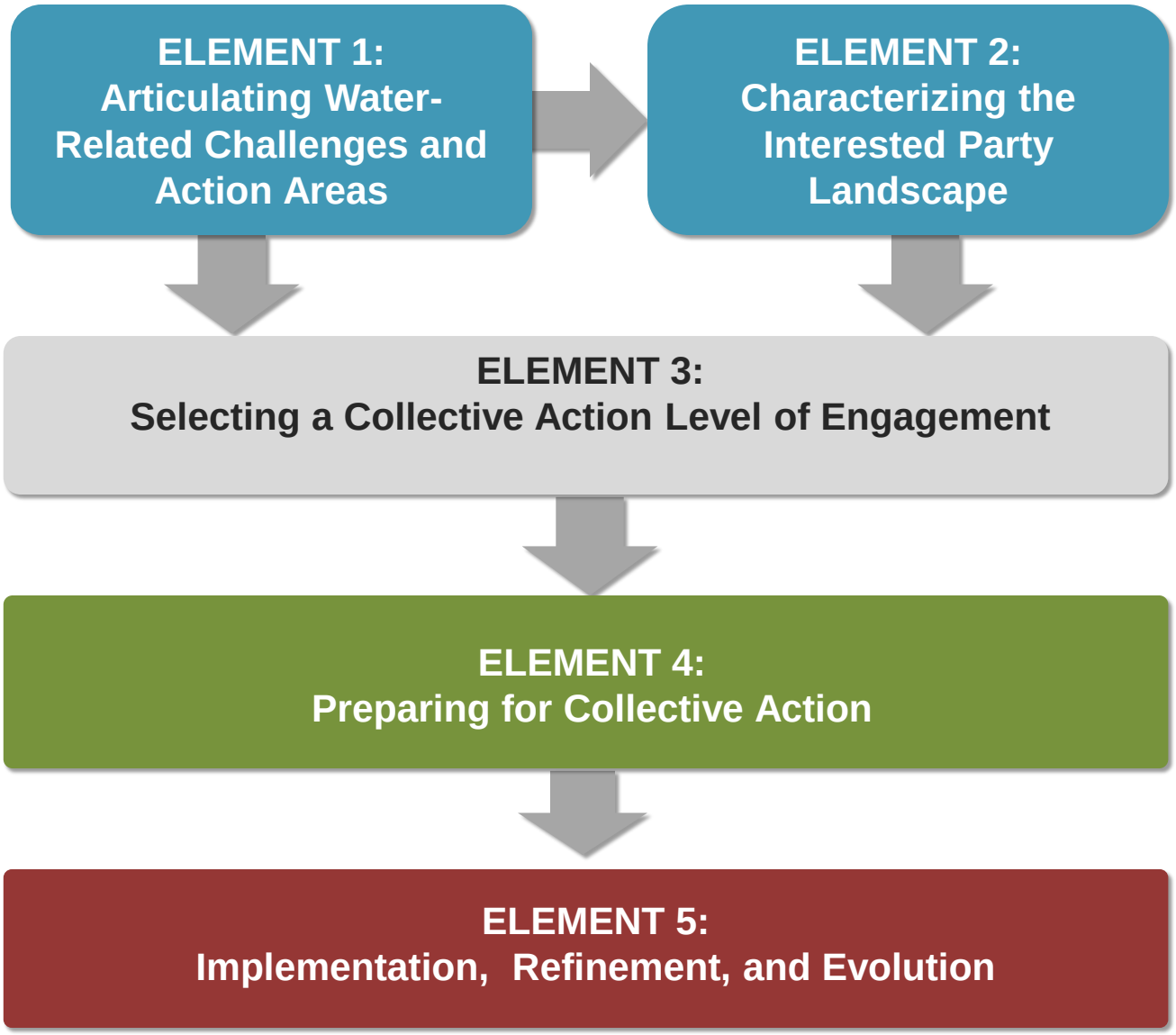
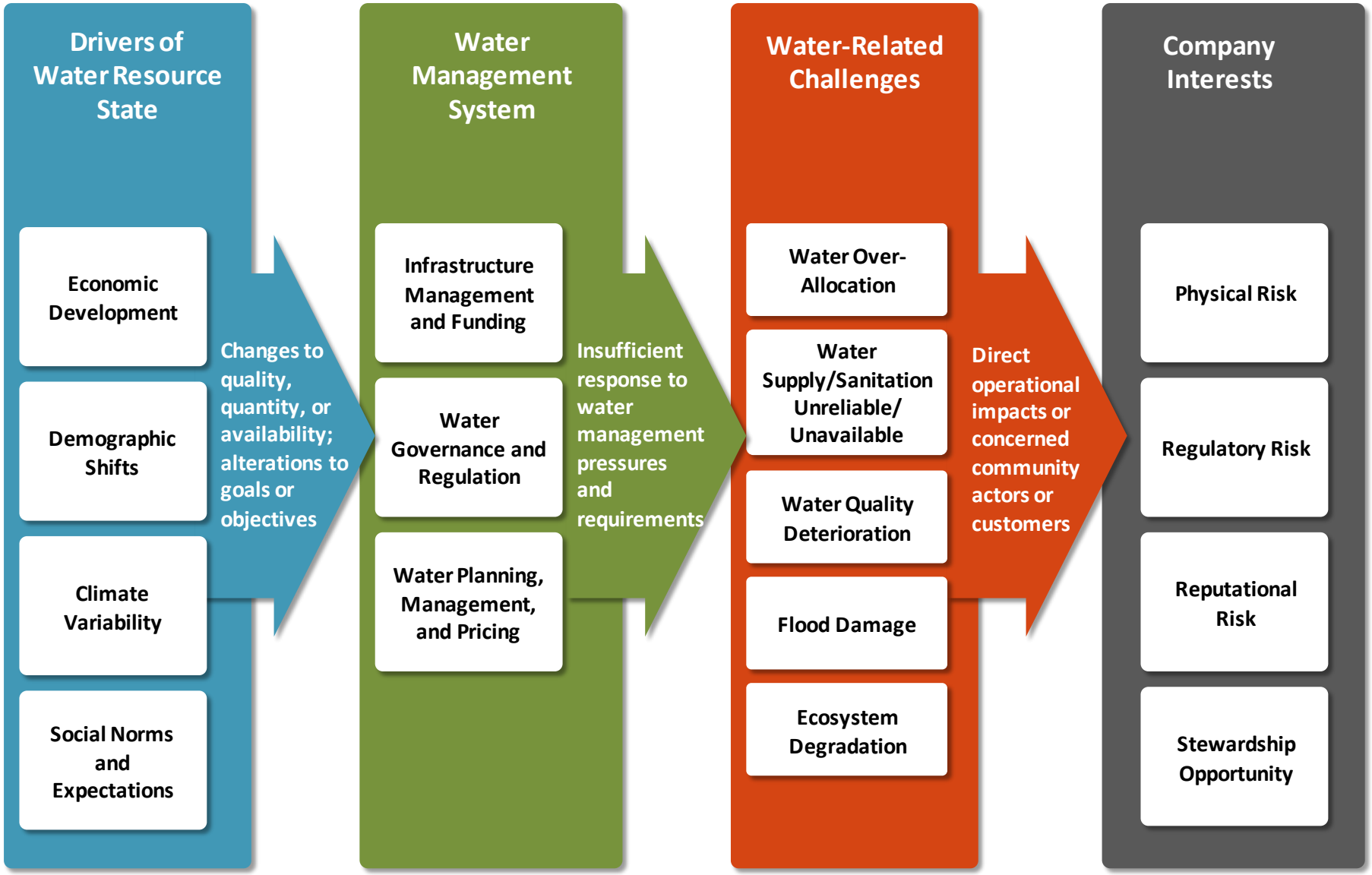
Collective Action Preparation and Implementation



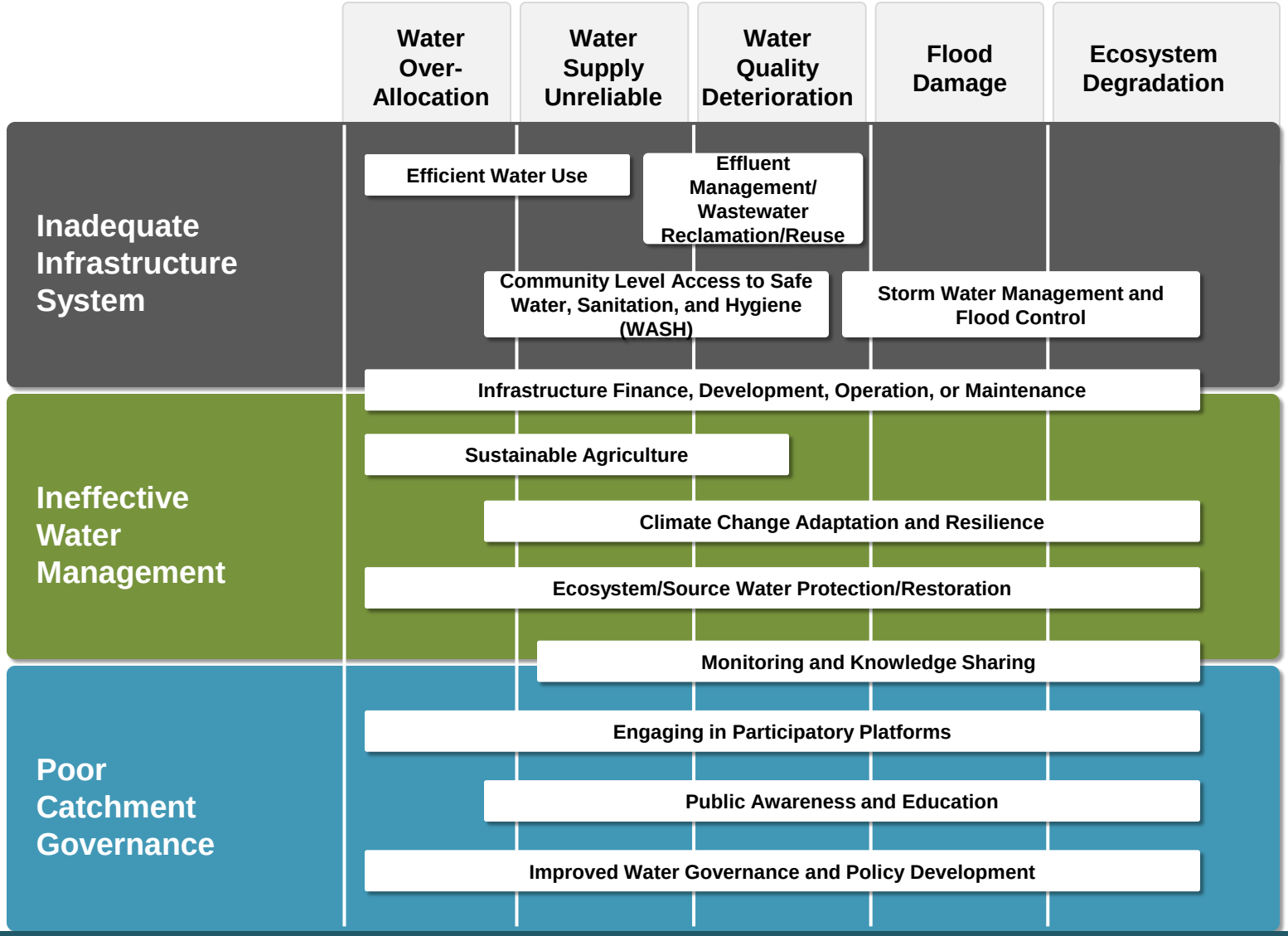
Characterizing Water-Related Challenges, Causes, and Risks



Collective Action Areas and the Water Action Hub

- Efficient Water Use
- Effluent Management, Wastewater Reclamation, Reuse
- Community-Level Access to Safe Water, Sanitation, and Hygiene
- Storm Water Management and Flood Control
- Infrastructure Finance, Development, Operation, or Maintenance
- Sustainable Agriculture
- Climate Change Adaptation and Resilience
- Ecosystem, Source Water Protection, Restoration
- Monitoring and Knowledge Sharing
- Engaging in Participatory Platforms
- Public Awareness and Education
- Improved Water Governance, Policy Development, and Implementation

Connecting Actions to Underlying Causes




Water Action Hub
The CEO Water Mandate
Home
Organizations
Projects
River Basins
Action Areas
Resources
Search
Log In
About Us
Welcome to the Water Action Hub!
Welcome to the Water Action Hub, an online platform designed to assist stakeholders to efficiently identify potential collaborators and engage with them in water-related collective action to improve water management in regions of critical strategic interest.
Latest Updates
LWI joined the Hub on Oct 03, 2012.
Philadelphia Global Initiative joined the Hub on Oct 03, 2012.
aa WA Water Campaign was added to the Hub on Sep 26, 2012.
Organizations
Find Organizations that are interested in or currently engaged in water-related collective action activities.
Explore Organizations
Projects
Explore projects in a particular river basin, by organizations, or by collective action areas.
Explore Projects
River Basins
Explore River Basins across different geographies and look at active projects, organizations, and challenges in those basins.
Explore River Basins
Action Areas
Explore water Action Areas that are of interest to an organization or are the focus of specific projects in various river basins.
Explore Action Areas
Project Map
Map
Satellite
Finland
Sweden
Iceland
Norway
Russia
United Kingdom
Poland
Canada
Germany
Ukraine
Kazakhstan
Mongolia
France
Italy
Spain
Turkey
China
South Korea
Japan
United States
Afghanistan
Iraq
Iran
Pakistan
Algeria
Libya
Saudi Arabia
Thailand
Mexico
Mali
Niger
Chad
Sudan
Nigeria
Ethiopia
Venezuela
Colombia
Kenya
DR Congo
Indonesia
Papua New Guinea
Brazil
Peru
Angola
Namibia
Botswana
Madagascar
Australia
Chile
Argentina
New Zealand
North Pacific Ocean
North Atlantic Ocean
South Pacific Ocean
South Atlantic Ocean
Indian Ocean
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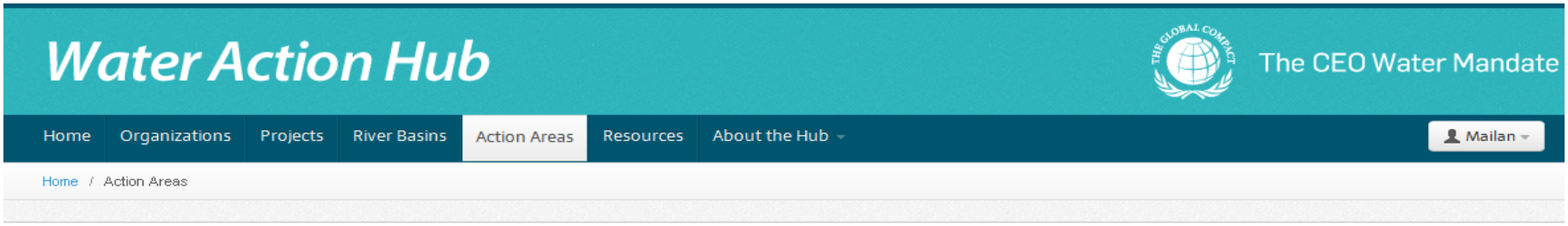
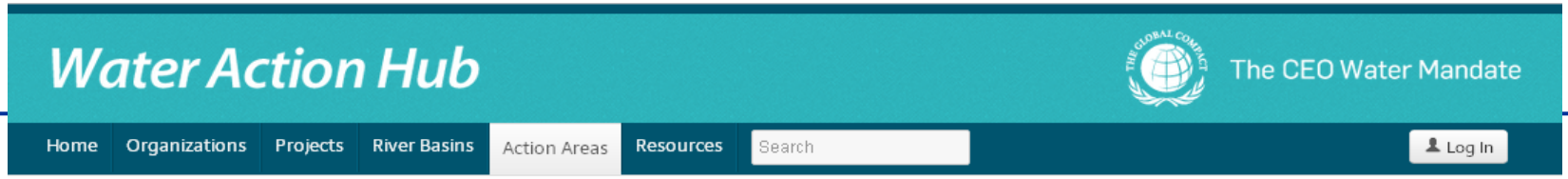
Action Areas



Action Areas

The Water Action Hub provides information on specific collective Action Areas that are of interest to different organizations at the global level or river basin level.

Action Area
Climate Change Adaptation and Resilience
Community Level Access to Safe Water, Sanitation, and Hygiene (WASH)
Ecosystem / Source Water Protection / Restoration
Efficient Water Use
Effluent Management / Wastewater Reclamation / Reuse
Engaging in Participatory Platforms
Improved Water Governance and Policy Development
Infrastructure Finance, Development, Operation, and Maintenance
Monitoring and Knowledge Sharing
Public Awareness and Education
Storm Water Management and Flood Control
Sustainable Agriculture



Efficient Water Use

Overview

Developing, adopting, and/or disseminating innovative technologies (e.g., water-efficient industrial processes, cooling systems, drip irrigation, commercial/residential fixtures and appliances), encouraging changes in management practices and behavior that lead to increase efficiency (e.g., leak monitoring, drought-tolerant landscaping, etc.), reducing losses/leaks within the water system, advancing commercial incentives that promote water efficiency, or collecting and sharing data on water use that can inform organizations' and people's water use decisions.

Increased water efficiency is a way of easing water demand pressure/water user conflict by more effectively utilizing every unit of existing supply. Efficient water use can lead to the overall reduction of total water consumption, to greater economic productivity, or other benefits (e.g., households served, crop yield, or revenue) per unit of water.

River Basins with projects linked to this Action Area

Primary River Basins appear in Blue.

- Amazon
- Colorado
- Krishna
- Mekong
- Murray-Darling
- Orange-Senqu
- Rio Grande
- Tigris Euphrates
- Wami Ruvu

Organizations interested in this Action Area

- Allergan
- Bloem Water
- Challenge21: Water for People, One Peak at a Time
- Citizens for Dixie's Future
- Dagaz Environmental Inc.
- De Beers Group
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
- Diageo
- Environment Now
- Eskom Holding SOC Pty Ltd
- European Water Stewardship
- High Country Citizens' Alliance
- ICLEI Water Campaign
- LMI
- Molson Coors Brewing Company
- Nike, Inc.
- Recharge Colorado

Projects focusing on this Action Area

Projects in Primary River Basins appear in Blue.

- aa WA Water Campaign
- Center for Environmental Leadership in Business
- Colorado River Project
- Cyan Project
- Farming for the Future Programme
- Focus on Irrigation Efficiency
- Monitoring Groundwater Quality and Levels in Dar es Salaam
- Rainwater Harvesting Projects Across India
- Restoring the Rio Conchos
- Southeast Asia Apparel Water Action
- Southern California Orange County Reclaimed Water Program and Groundwater Replenishment Project
- Starbucks Coffee and Farmer Equity (C.A.F.E) Practices
- Water Futures Partnership South Africa
- Water Harvesting and Soil Conservation Techniques in the Mountains of Syria

Organization Profile Example
Citizens for Dixie's Future Profile

Citizens for Dixie's Future

Organization Overview

Citizens for Dixie's Future (CDF) is a grassroots coalition of local citizens committed to protecting the natural resources and quality of life in Washington County through Smart Growth planning for the benefit of present and future generations. Our work in Southern Utah includes efforts to increase water conservation and sustainable use. We are working to stop the Lake Powell Pipeline, a proposed 86,000 AF diversion from the Colorado River. This water would feed two of the most wasteful water using counties in the western US, Washington and Kane County Utah. Currently Washington County reports use of 323 gpcd and Kane reports use of 424 gpcd. This project has been pursued based on the "right" to the water regardless of actual need.

Action Areas of Interest

- Efficient Water Use
- Improved Water Governance and Policy Development
- Monitoring and Knowledge Sharing
- Public Awareness and Education

Projects on the Hub

Projects in Primary River Basins appear in Blue.

None Found

River Basins of Interest

Primary River Basins appear in Blue.

+ Colorado

Quick Info

Website:
Citizens for Dixie's Future

Organization Type:
NGO / Civil Society

Organization Contact:

Christi Wedig
Email: christi@citizensfordixie.org
Phone: 435-215-8619

Actions

Contact this Organization

Create New Organization

Project Profile Example
Woolworths South Africa Farming for the Future Programme

Farming for the Future Programme

Project Overview
Farming for the future is a Woolworths developed sustainable farming methodology that focuses on soil health, water efficiency and waste water management, amongst others. The program includes some farmers in the Orange-Senqu catchment, as well as in the Breede and Berg catchments.

Beneficiaries / Outcomes
Sustainable farming methodology

Action Areas
Efficient Water Use
Effluent Management / Wastewater Reclamation / Reuse
Sustainable Agriculture

Project Partners
Woolworths Holdings (South Africa)
Enviroscientific [No Website]
WWF [No Website]

Approximate Project Location


Quick Info
River Basin:
Orange-Senqu

Start and End Dates:
July 19, 2009 - Ongoing

Cities:
All across South Africa, and includes suppliers in Kenya

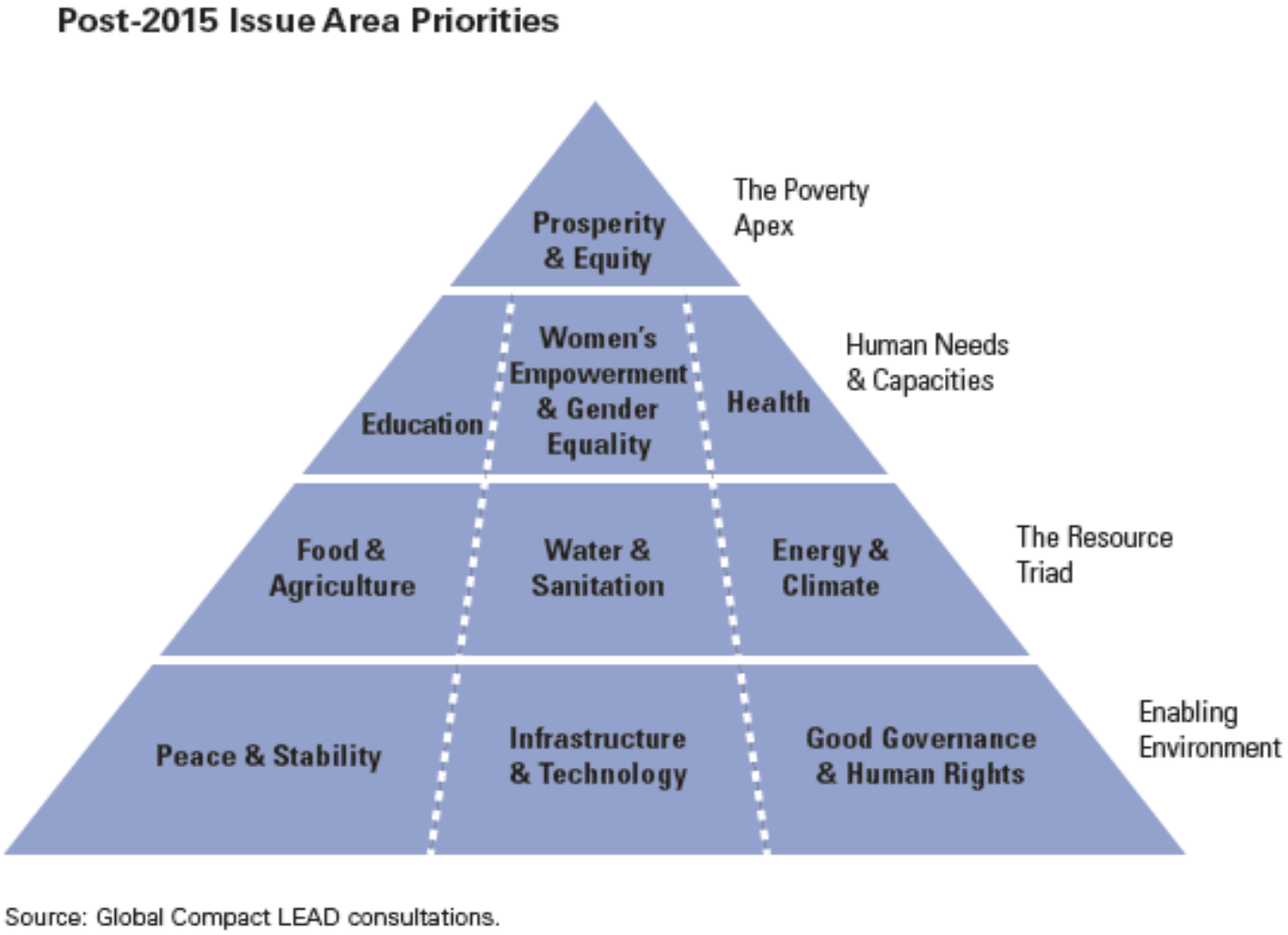
Countries:
South Africa

Project Website:
http://www.woolworths.co.za/

Project Contact:
Justin Smith
Email: ********
Phone: ********

Actions
Contact this Project
Create New Project

Possible 'Sustainable Development Goals'



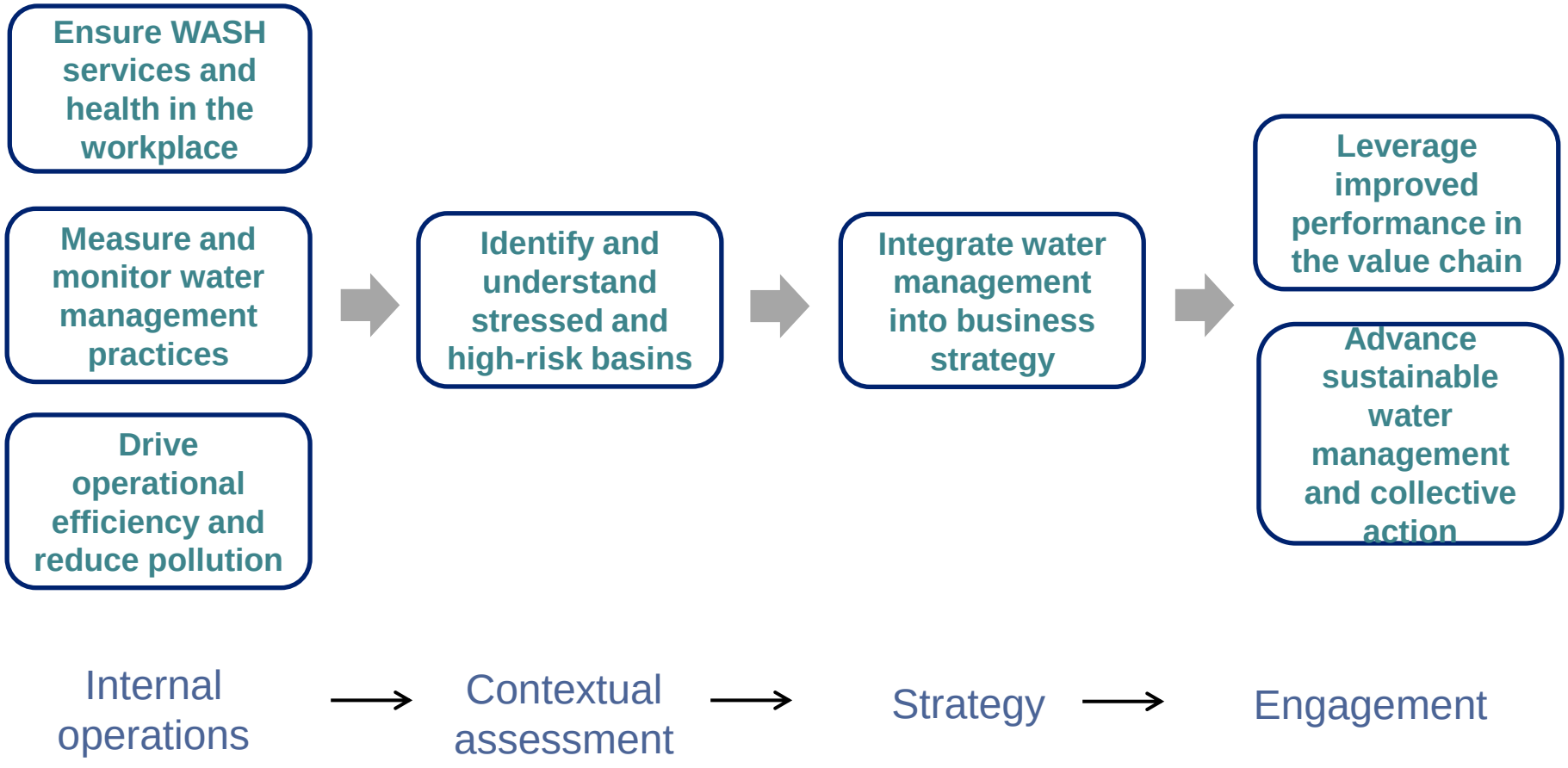
Source: Global Compact LEAD consultations.

UN Global Compact Perspective on Global Priorities and How to Engage Business

UN Global Compact report suggests four targets for water specifically:

- Universal access to affordable fresh water
- Universal access to basic sanitation facilities by 2020 and improved sanitation facilities by 2030
- Freshwater use brought in line with supply
- Ensure establishment and full implementation of national water effluent standards

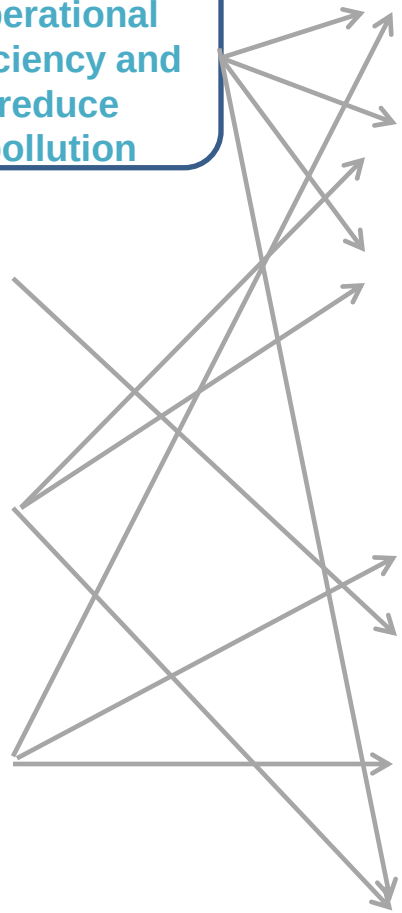
Corporate Water Stewardship Maturity Progression



Linking post-2015 goals and approaches to stewardship practice

Stewardship practice

- WASH in the workplace
- Water management accounting
- Drive operational efficiency and reduce pollution
- Integrate water management into business strategy
- Leverage improved performance in the value chain
- Advance sustainable water management and collective action



Post-2015 goals

1. **Access to safe drinking water, sanitation, and hygiene**
2. **Water resources management**
3. **Wastewater and water quality**

Post-2015 approaches

- **Partnerships**
- **Linking business strategy and development**
- **Focus on systems and institutions**
- **Sustainable production**

The CEO Water Mandate

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www.ceowatermandate.org