



Delivering information
on water risk

AQUEDUCT

World Resources Institute

What is AQUEDUCT ?

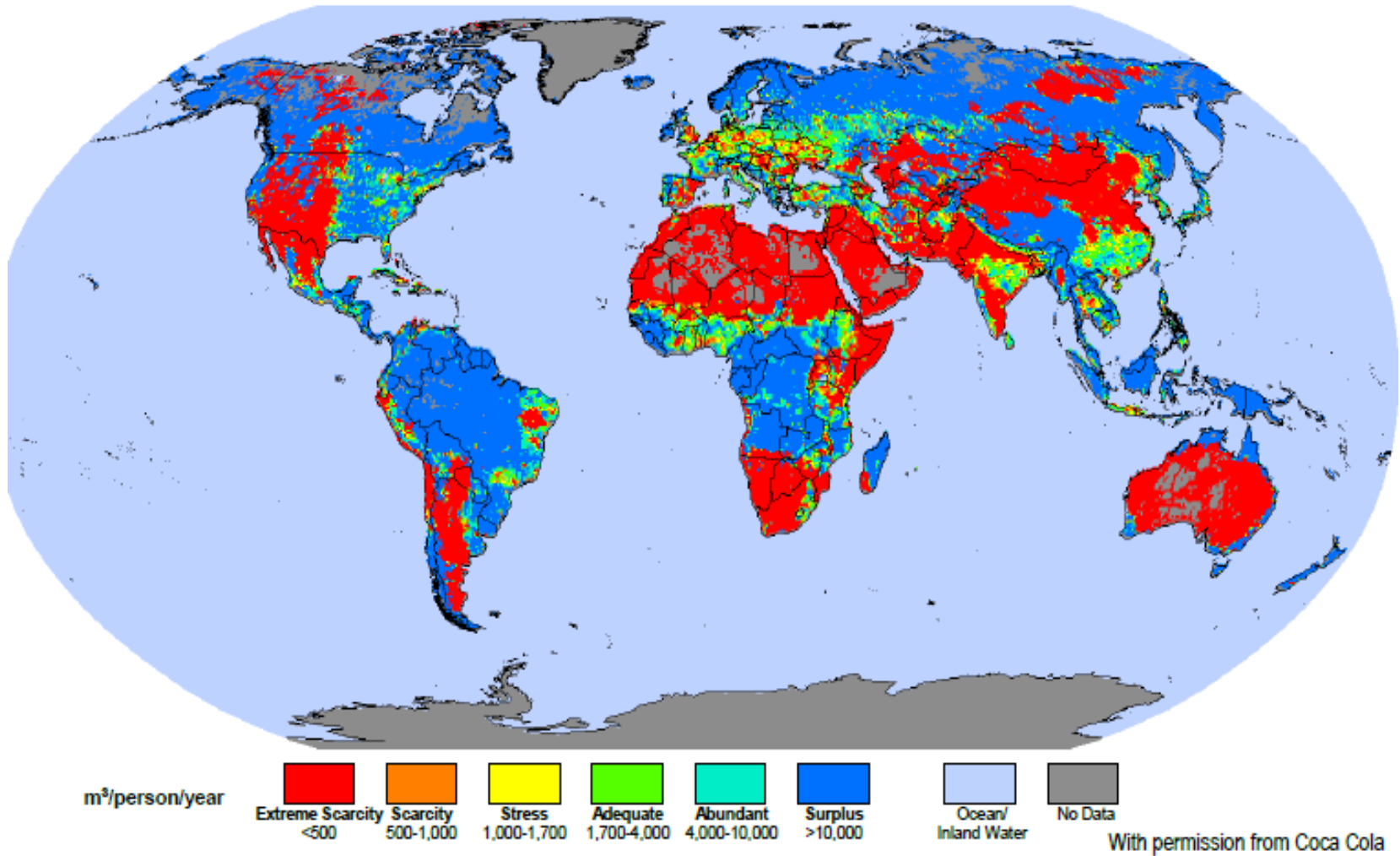
An information **platform** for public-private action for more efficient and sustainable water management

A **standard** to measure, map and compare local water risk and opportunity

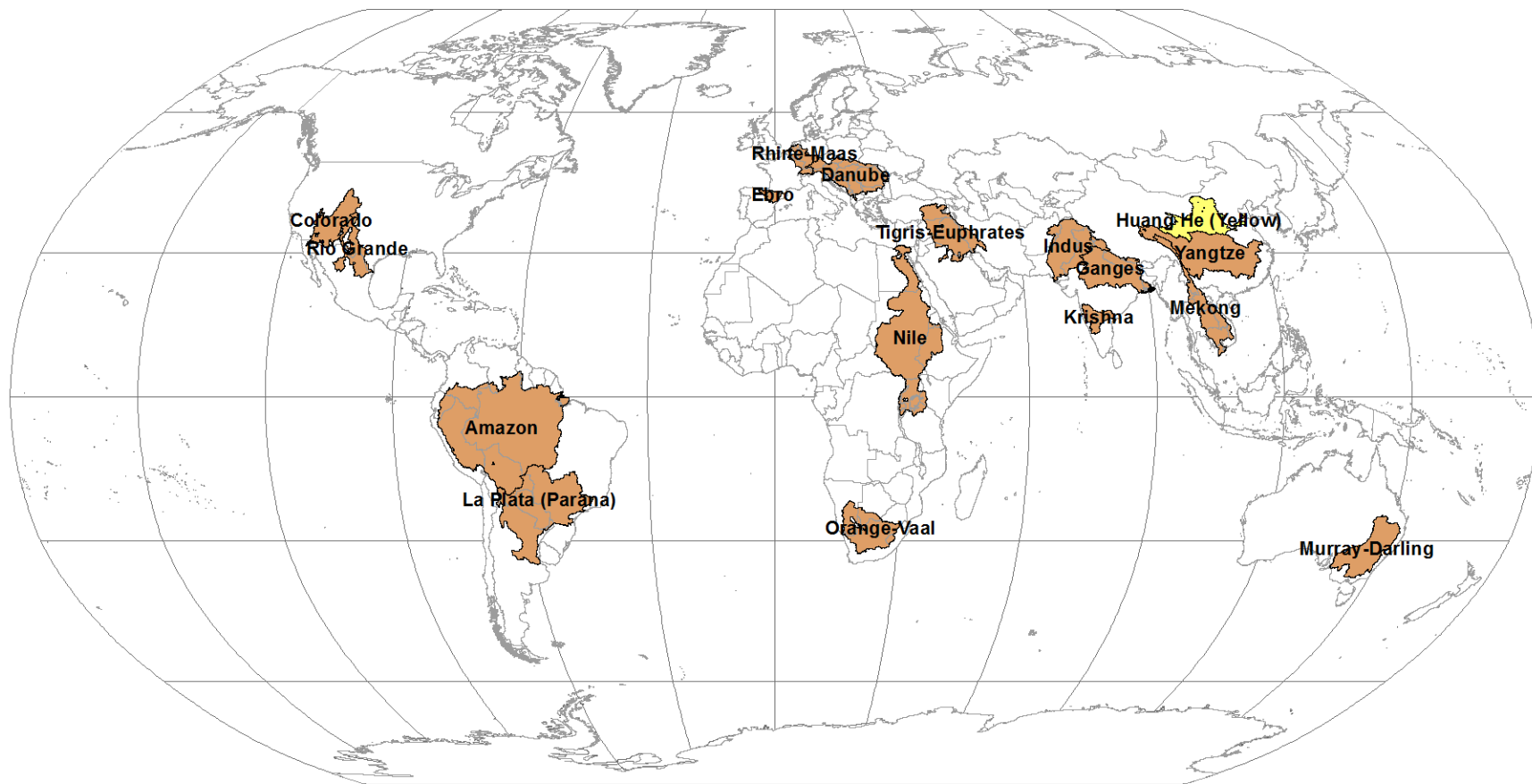
The world's best **database** with localized data on water risk and opportunity

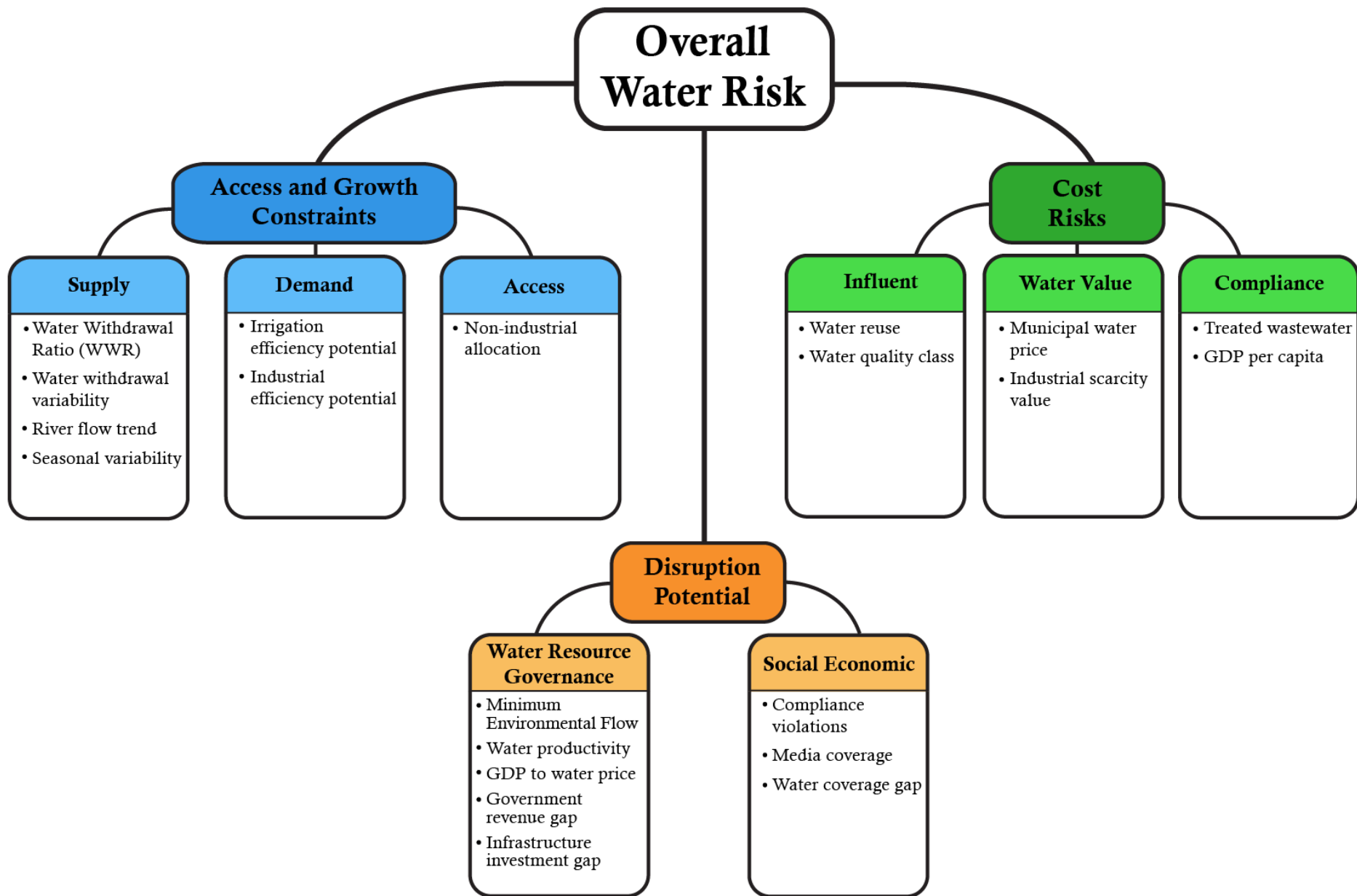


Baseline water stress

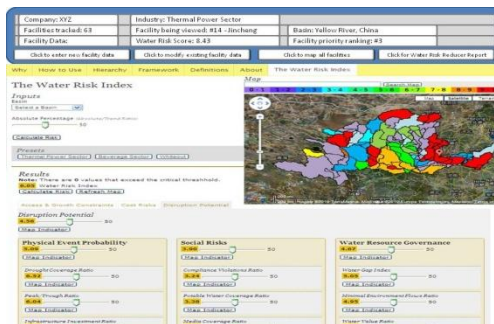


Tentative “deep dives”





Water Risk Reporter



Outside
Water
Risk
Index

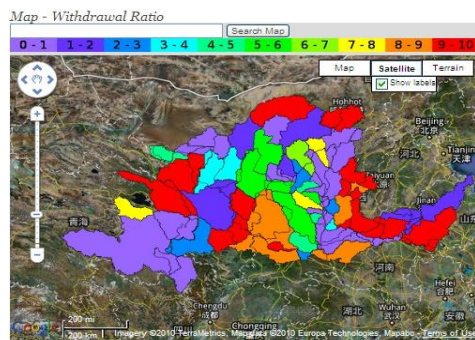
Water Risk Atlas

Physical
data

Socio-economic,
governance data

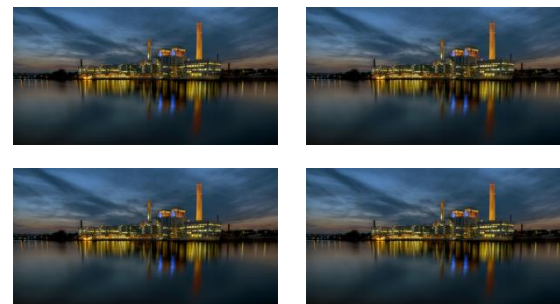
Company
facility risk data

Other stakeholder
risk data



Water Risk Collector

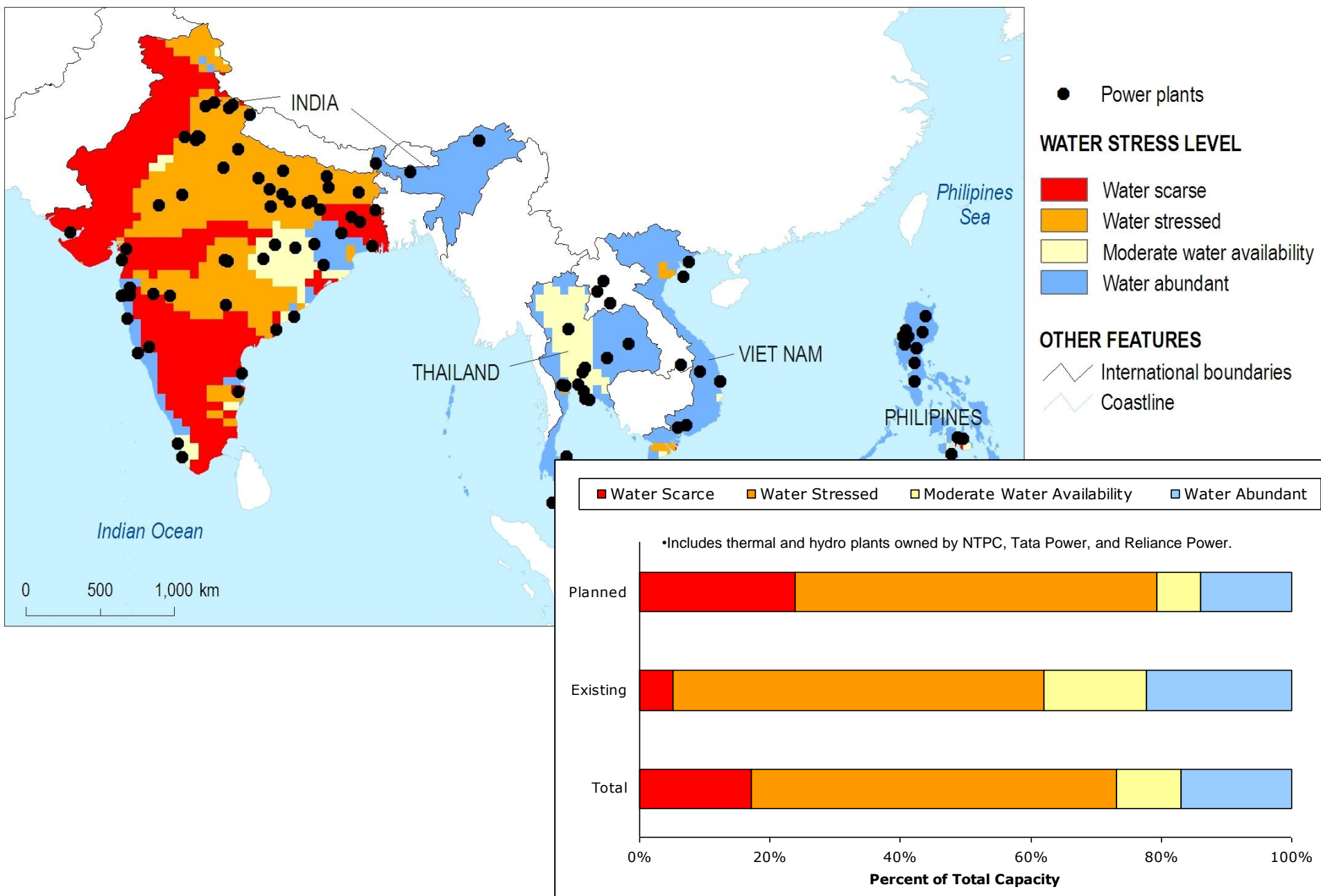
Facility performance
data ("water footprint")



Impact by the environment

Impact on the environment

Waterproofing corporate strategy



Water stress and power plants

<HELP> for explanation.

ComdtvOSI

1) Export 2) Alerts

Environmental Impact Overview

Environmental Impact

Rising Sea Level

Water Scarcity

United States

Midwest

Northeast

Southeast

Utilities

Alabama Power

Cinergy Corp

Florida Power &

Florida Power Co

Georgia Power Co

JEA

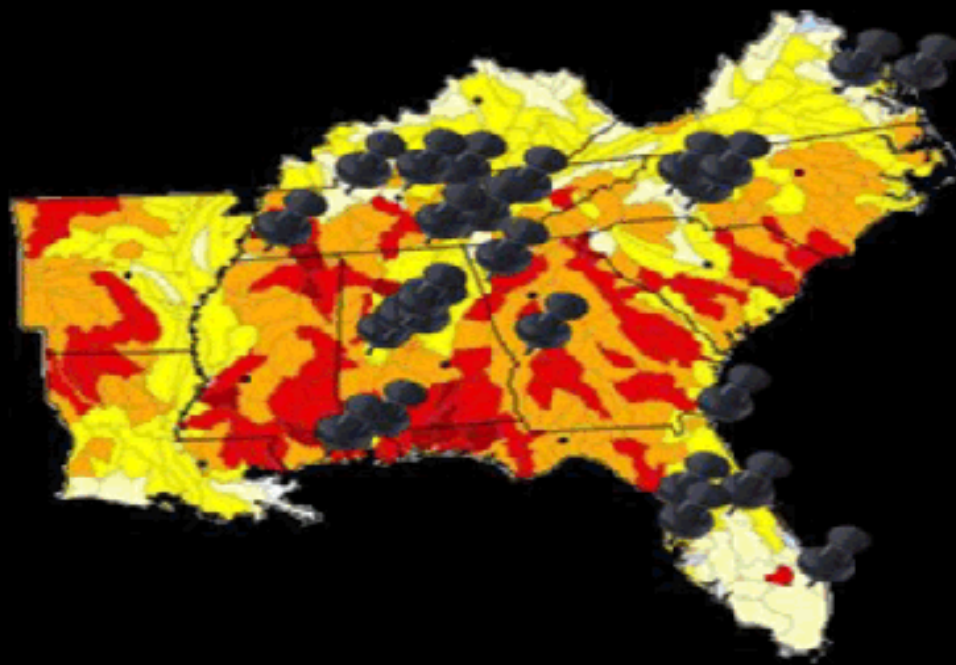
Mississippi Power

Norfolk Energy

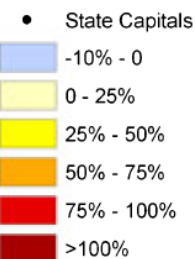
Ohio Valley

Florida Electric

Water Scarcity > United States > Southeast > Utilities



%Δ in water stress - 2020



Map Assets Assets by Company Assets by Risk Level

Ranking companies at risk

<HELP> for explanation.

ComdtyOSI

1) Export 2) Alerts

Environmental Impact Overview

Water Scarcity > United States > Southeast > Utilities

Parent Company	% of Regional Capacity by Risk Level				% of Total Capacity
	Very High	High	Medium	Low	
1) Georgia Power C	68.58	31.42	0	0	43.61
2) Alabama Power	50.26	23.08	26.66	0	46.74
3) Mississippi Powe	0	100	0	0	23.45
4) Tennessee Valle	0	42.31	25.76	31.92	64.13
5) Cinergy Corp	0	20.11	79.89	0	19.33
6) Florida Power Co	0	0	100	0	84.68
7) Florida Power &	0	0	62.71	37.29	81.31
8) Progress Energy	0	0	0	100	1.40
9) JEA	0	0	0	100	13.11
10) Virginia Electric	0	0	0	100	72.29



Map Assets Assets by Company Assets by Risk Level



Lead Sponsors



Sector Sponsors

Bloomberg

TALISMAN
ENERGY



Supporters

- Dutch Government
- United Technologies (UTC)

Data by 

Design working group

(led by Aqueduct Analysis Associate)

- Selection of river basins
- Refinement of structure and definition of “universal” indicators
- Ensure access to raw data
- Review of aggregation algorithm
- Validation of risk scores
- Quality control incl. feedback mechanism
- Development of applications: Overlays; News; Collector
- Members include water risk, database and modeling experts from companies (eg. Coca Cola, Cisco), related initiatives (eg. WWF), prospective users (eg. Water Resources Group)

Sector working group

(led by Aqueduct Alliance Sr. Associate)


- Establishment of standard indicator weights (“presets”) for specific sectors:
 - Power
 - Oil & gas
 - Mining
 - Food & beverage
 - Agribusiness
 - Manufacturing
- Members include: corporate representatives of above sectors, sector and issue experts.

Application working group

(led by Aqueduct Director)

- Road-testing of applications for relevance and usability by companies, investors, governments
- Expanding scope to non-business interests/issues:
 - Water, development policy
 - Food, energy security
- Members: prospective users, river basin management authorities & stakeholders, eg:
 - Yellow River Conservancy Commission; Institute of Water Resources and Hydropower Research
 - International Boundary and Water Commission; USBR (Colorado)
 - Orange/Senqu River Commission (Vaal)
 - Mekong River Commission

Monumental outcomes



AQUEDUCT INFORMS PUBLIC-PRIVATE
ENGAGEMENT TOWARDS MORE
EFFICIENT, SUSTAINABLE AND
EQUITABLE WATER POLICIES

WATER RISKS TO COMPANY
PERFORMANCE AND ECONOMIC
GROWTH ARE MITIGATED THROUGH
MORE AND SMARTER INVESTMENTS IN
WATER TECHNOLOGIES AND
I N F R A S T R U C T U R E

INVESTORS RESPOND TO THE
DIFFERENCES IN COMPANY EXPOSURE
AND RESPONSE TO WATER RISK,
DIRECTING CAPITAL TOWARDS
“HYDRO-SAFE” REGIONS, COMPANIES,
T E C H N O L O G I E S

Thank you!

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