

SUSTAINABLE WATER PARTNERSHIP RAISING AWARENESS ON WATER SECURITY Betsy Otto, Director, WRI Global Water Program

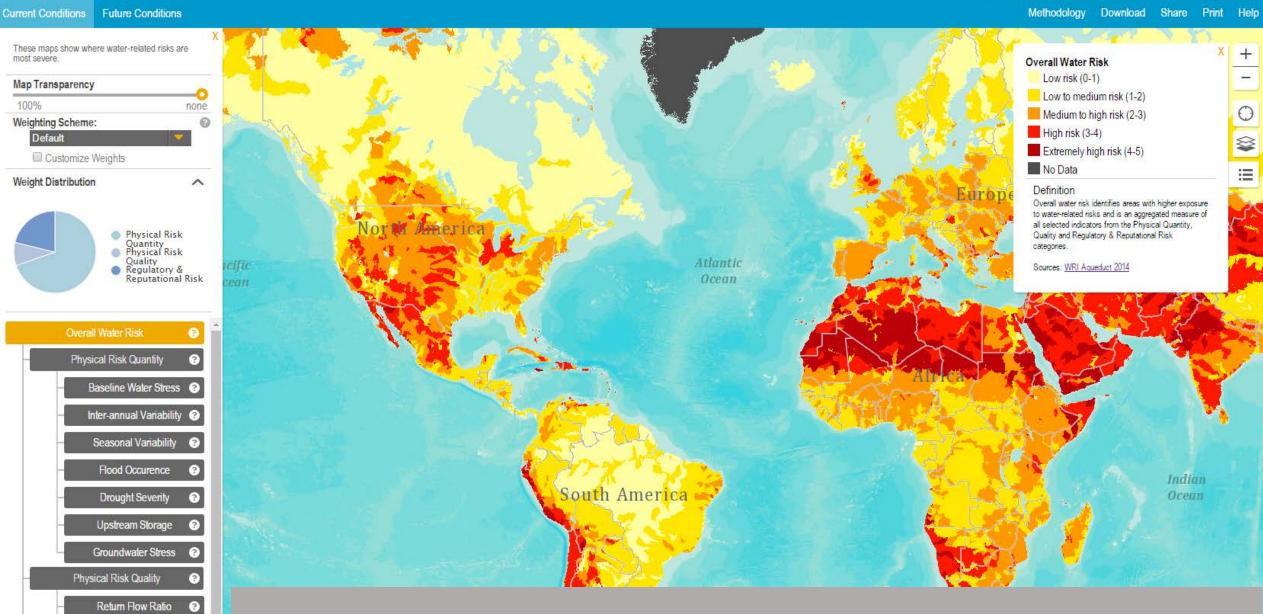
AQUEDUCT Water Risk Atlas

Upstream Protected Land ?

Ocean

Regulatory & Reputational Risk (2)

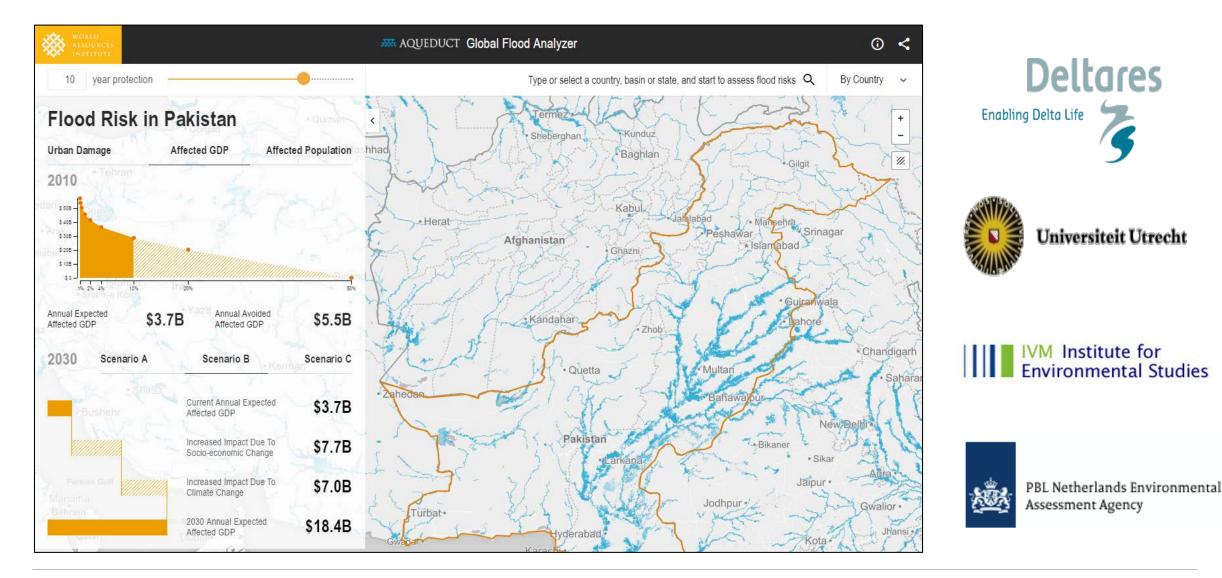
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15,000 CATCHMENTS. DEMAND-SUPPLY BALANCE BY SECTOR.



AQUEDUCT GLOBAL FLOOD ANALYZER



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NEW DATA



COMBINED SURFACE AND GROUNDWATER STRESS

GROUNDWATER STRESS

GROUNDWATER TABLE DECLINE

COASTAL STORM SURGE

FLOOD RISK

REPUTATIONAL RISK INDEX

WASTE WATER TREAMENT

INDEX OF COSTAL EUTROPHICATION POTENTIAL

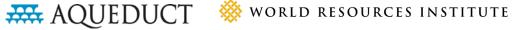
CROP AREA, YIELD, PRODUCTION, NET TRADE

FOOD DEMAND

WORLD PRICE

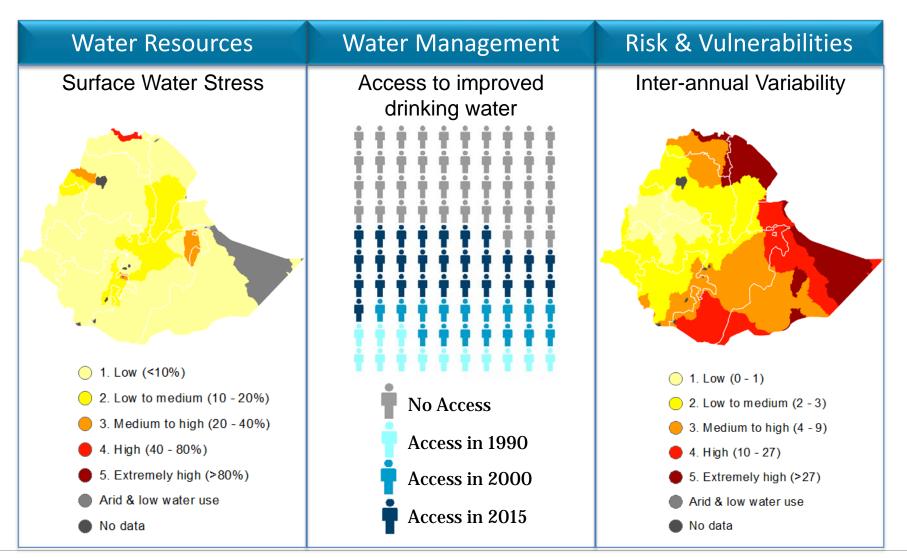
KILOCALORIES & RISK OF HUNGER

AQUEDUCT COUNTRY WATER SECURITY ASSESSMENTS



COUNTRY-LEVEL RISK ASSESSMENTS

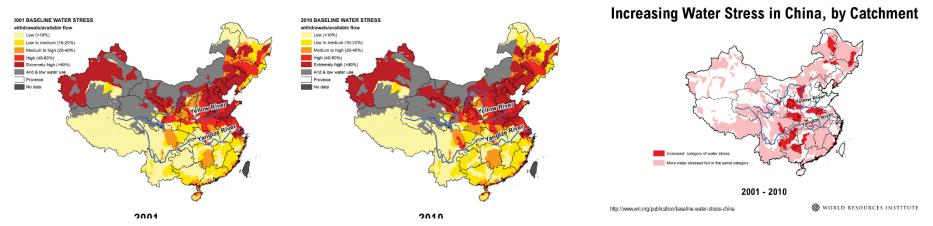
USAID Sustainable Water Partnership example: Ethiopia



Data sources: Aqueduct 2014; WHO/UNICEF Joint Monitoring Programme; Aqueduct 2014

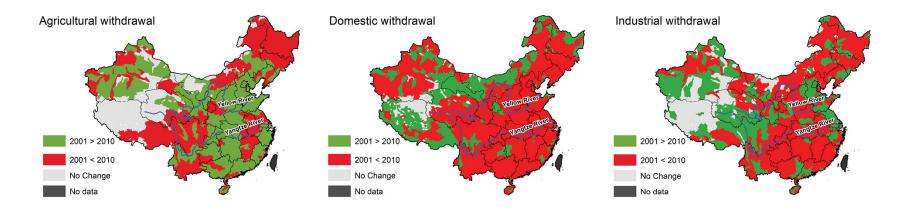


Progress: BWS 2001 vs BWS 2010 Blog: China's Water Stress is on the Rise



Baseline Water Stress in China

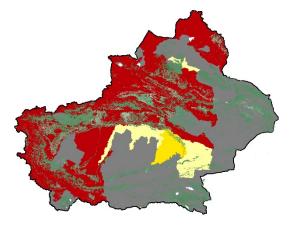
China's Water Withdrawal Changes by Sector, 2001-2010



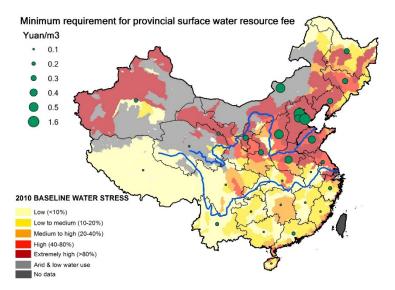
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Progress: Other Test for Applying BWS for Policy/SolutionAnalysis in progressBWS, Xinjiang cotton and textile

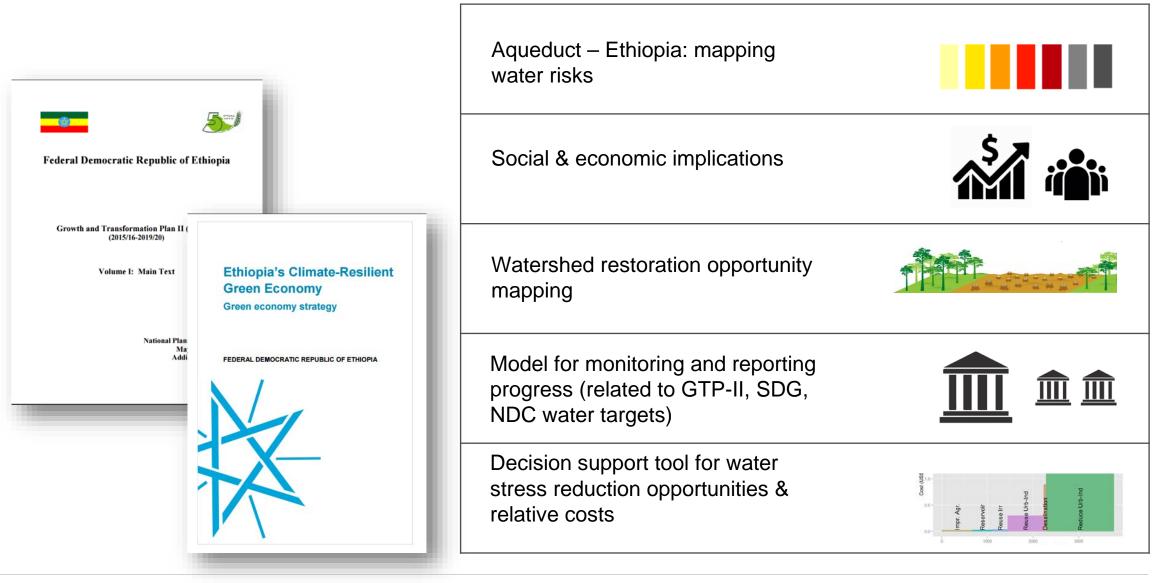




BWS and water resources fee



ETHIOPIA



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AQUEDUCT ASSESSMENT: ENERGY, FOOD

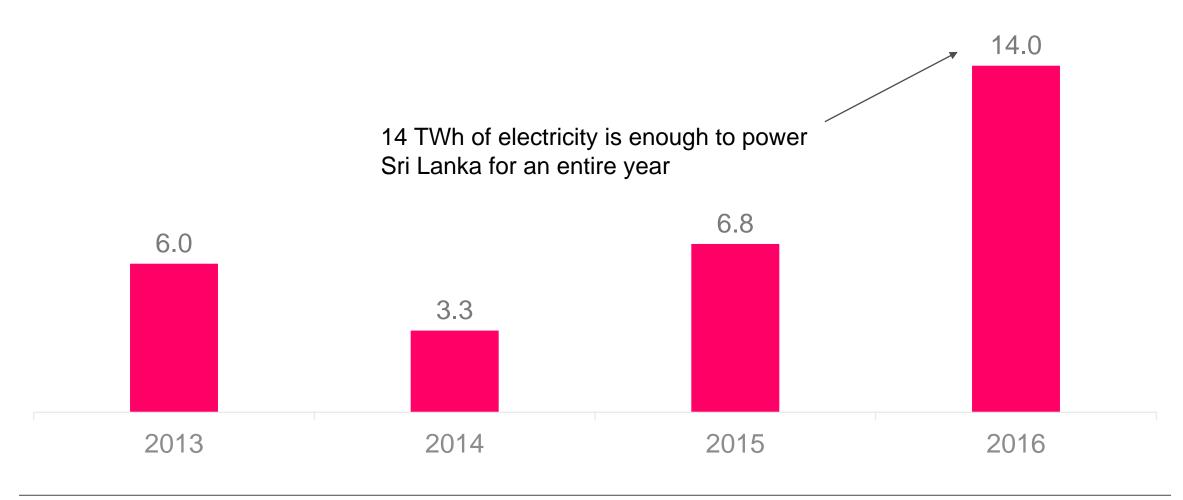


New method – Estimating water withdrawal and consumption for individual power plants in data scarce regions using satellite imagery



Image credit: Google 2017

More than 30 TWh of electricity in generation, or \$2.8 billion in revenue, was lost in India due to power plant shutdowns caused by water shortages over the past four years

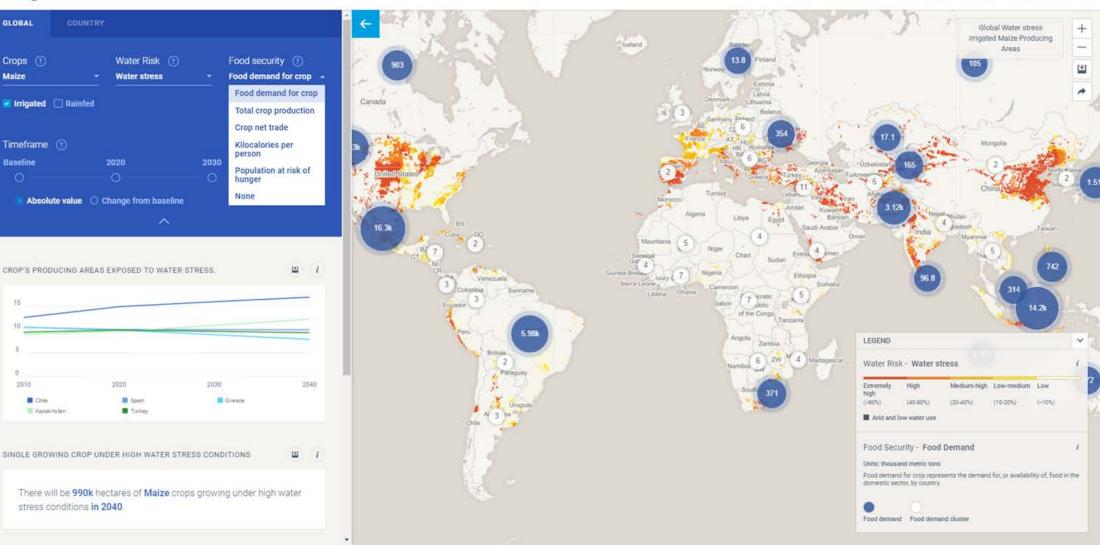


Sources: WRI Analysis; CEA 2016; Platts 2016; CIA 2014



Global Water Stress in Irrigated Maize Producing Areas in 2040

AQUEDUCT FOOD



HOW TO RESOURCE LIBRARY

TOOLS

ABOUT US GET INVOLVED

Q

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Thank you botto@wri.org

						NAMIBIN
Risk Categories Clear All Add Location (+ Import + Expor						
Overall Water Risk Physical Risk QUANTITY Physical Risk QUALITY				Regulatory & Reputational Risk	Projected Change	
				Overall Water Risk		
	Location Title	Country	Catchment	Overall Water Risk	Physical Risk QUANTITY	Physical Risk QUALITY
00	Location 1	Democratic Republic of the Congo	CONGO	2. Low to medium risk (1-2)	1. Low risk (0-1)	2. Low to medium risk
00	Location 3	India	INDUS	5. Extremely high risk (4-5)	5. Extremely high risk (4-5)	5. Extremely high risk

