World Water Summit 2022

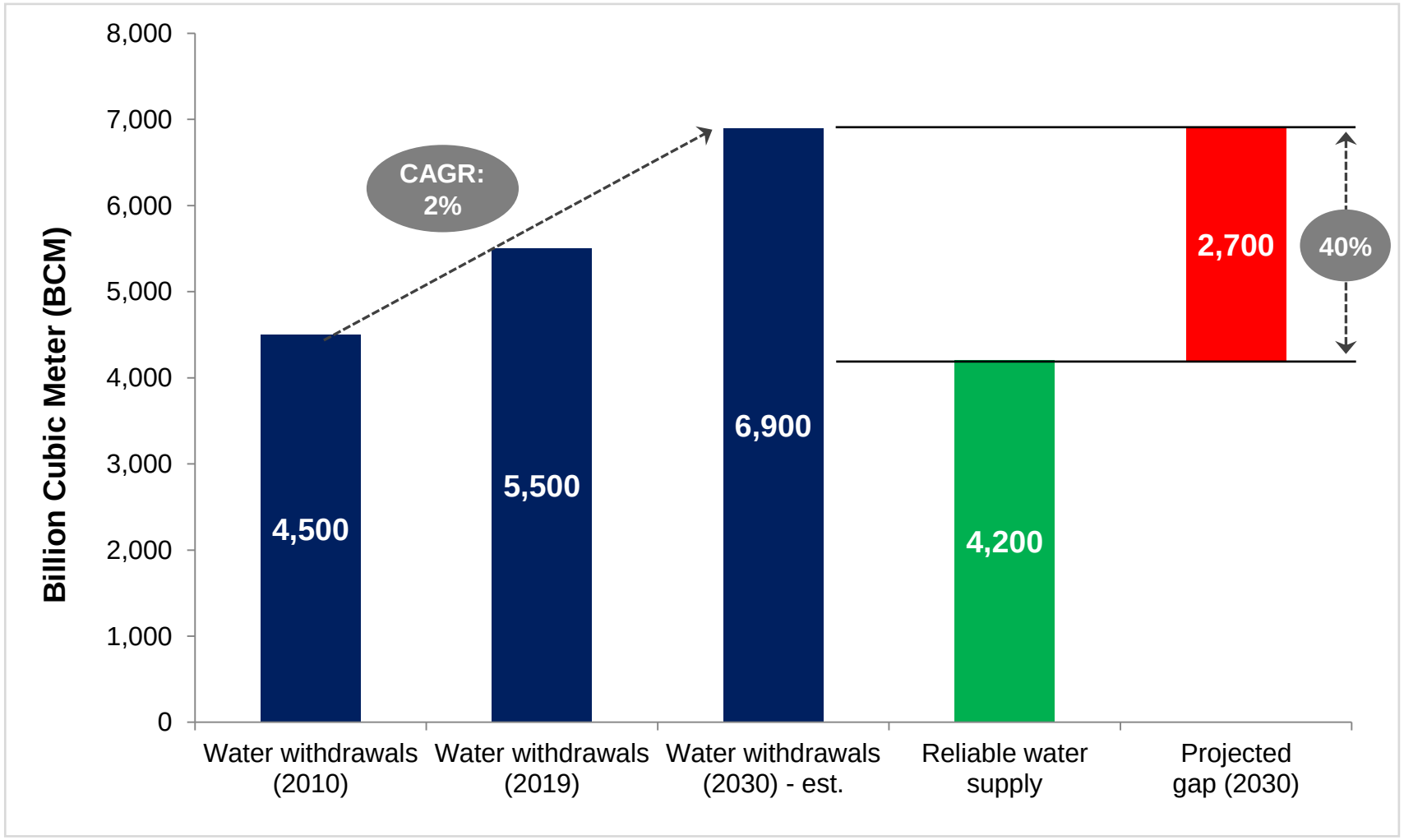
Innovation in the Water Sector

Keynote Address
Sundeep Singh

AUGUST 2022

Putting the Water challenge into perspective (1/2)

By 2030, the world is projected to face a demand-supply gap of ~40% with respect to ground water availability



6% GDP at risk by 2050 and 80% countries already reporting insufficient financing to meet WASH targets

A quarter of the world's population face extremely high-water stress

700 million people could be displaced by intense water scarcity by 2030

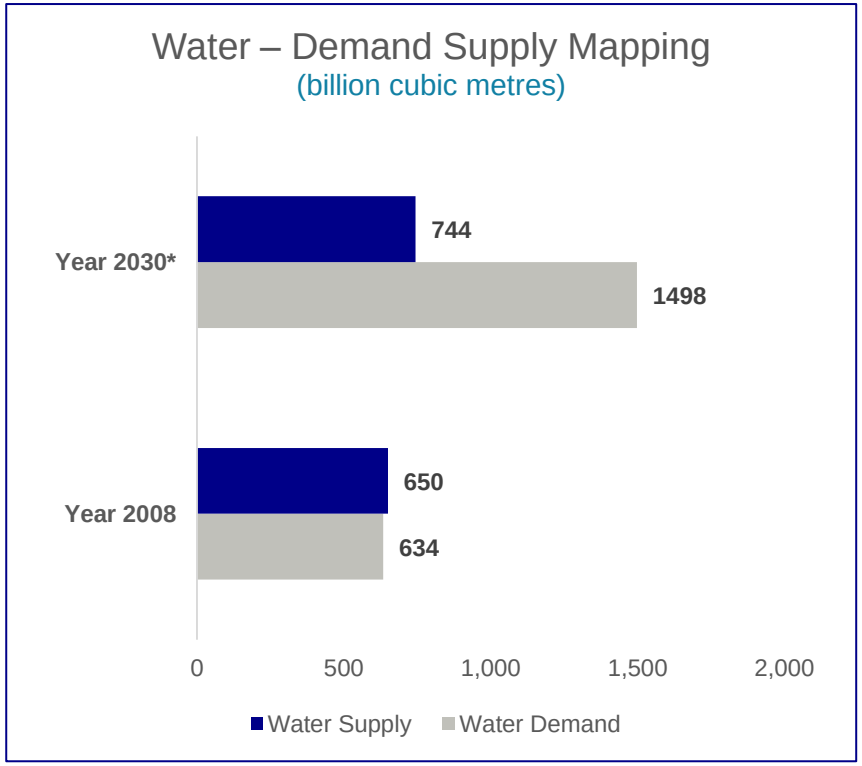
500+ dead ocean zones with insufficient oxygen for marine life to survive from untreated wastewater

Sources: Water Resource Group, World Research Institute, UN Water

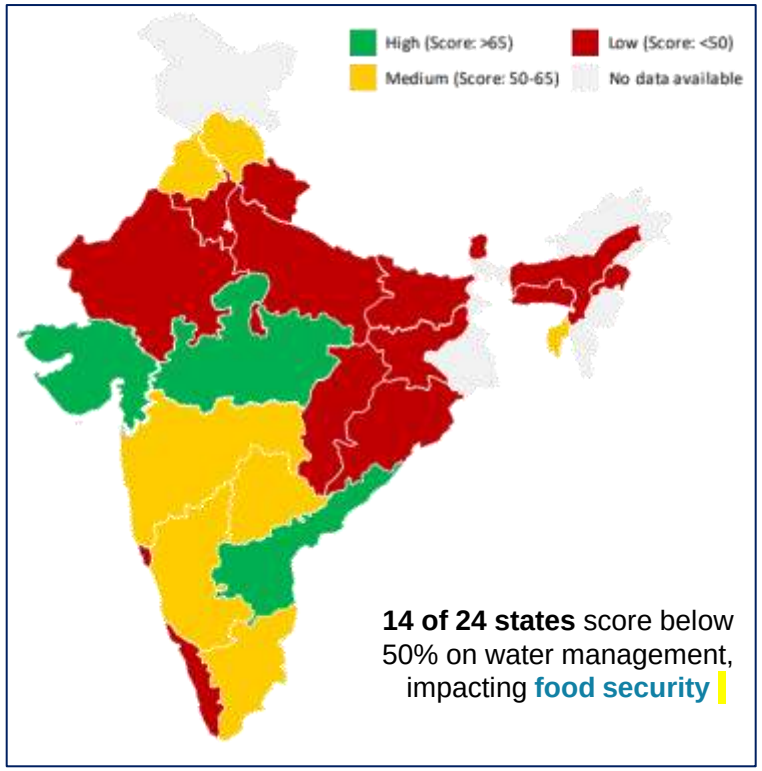
Putting the water challenge into perspective (2/2)

India too is suffering from the worst water crisis in its history and millions of lives and livelihoods are under threat

India's water supply in 2030 will only be **half** of demand



NITI Aayog Composite Water Management Index (CWMI)



600 million Indians face high to extreme water stress

40% of Indians will have NO access to drinking water by 2030

With ~ 70% of water being contaminated, India is placed at 120th amongst 122 countries in the water quality index
(source: Water Aid - 2019)

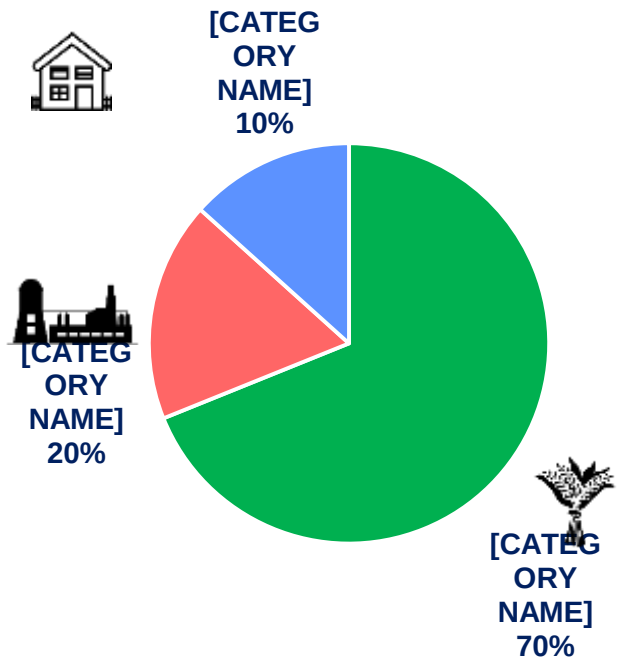
~ 6% loss in India's GDP is projected owing to severe water scarcity for millions

Sources: NITI Aayog, Water Resources Group, University of Texas Research

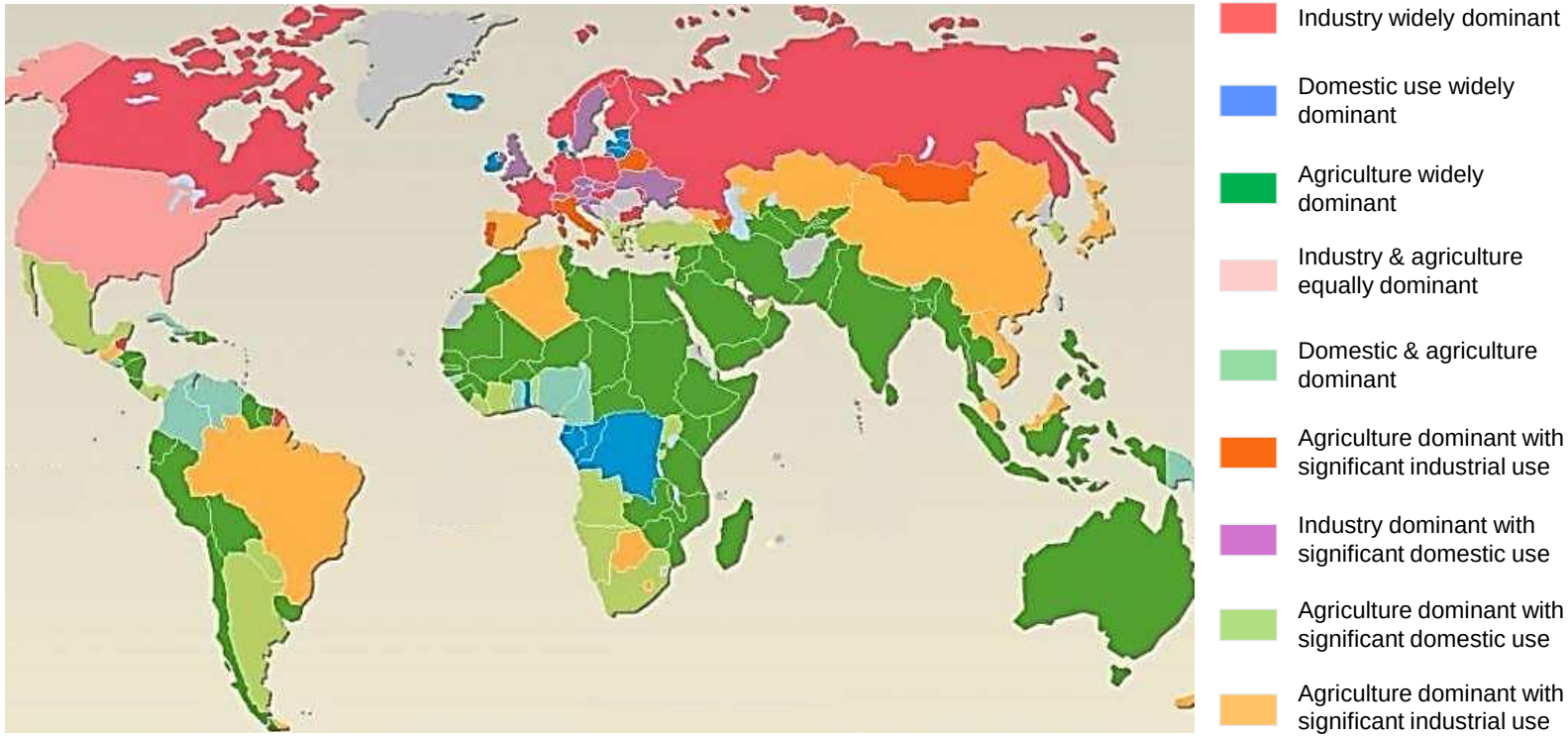
Macro view – need localized action for global crisis

There is significant variation in the water consumption pattern across the globe necessitating the need for localized region-specific water solutions

Globally, agriculture accounts for ~70% of fresh-water withdrawals..



..however, there is significant regional dispersion in water consumption trends (with ' industrial water accounting for significant share in NA and Europe)



Sources: Water in Agriculture, World Bank, UNEP

Micro view – lifestyle choices matter! (1/2)

A large share of the water consumed by an average human being is hidden or 'virtual', i.e., water that gets used during the upstream stages of production

Per capita water foot-print (liters of water per day)

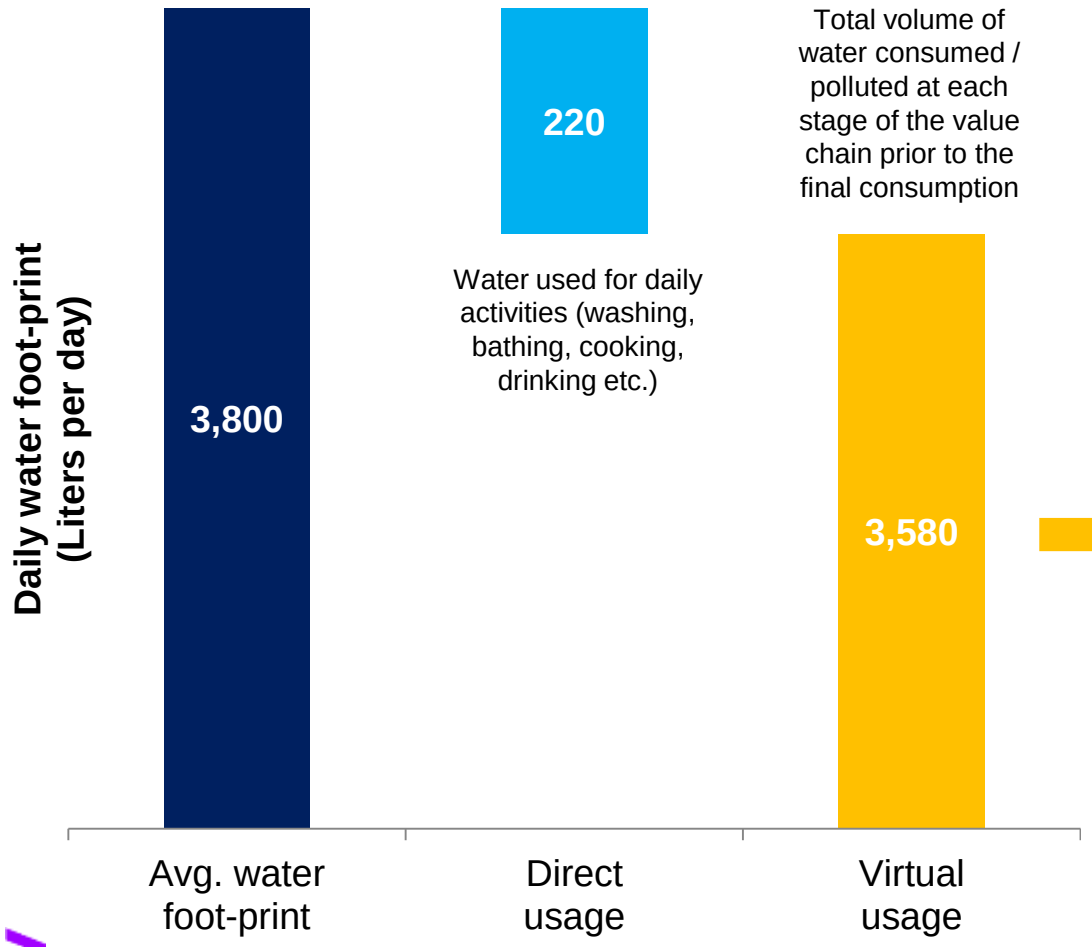


Illustration of 'virtual' water we consume

1 cotton T-Shirt: 2,700 liters water

1 kg chocolate: 17,196 liters water

1 tonne beef: 15,400 liters water

1 A-4 size sheet: 10 liters water

1 liter motor gasoline: 6 liters water

1 pair of leather shoes: 8,000 liters water

1 smart phone: 12,075 liters water

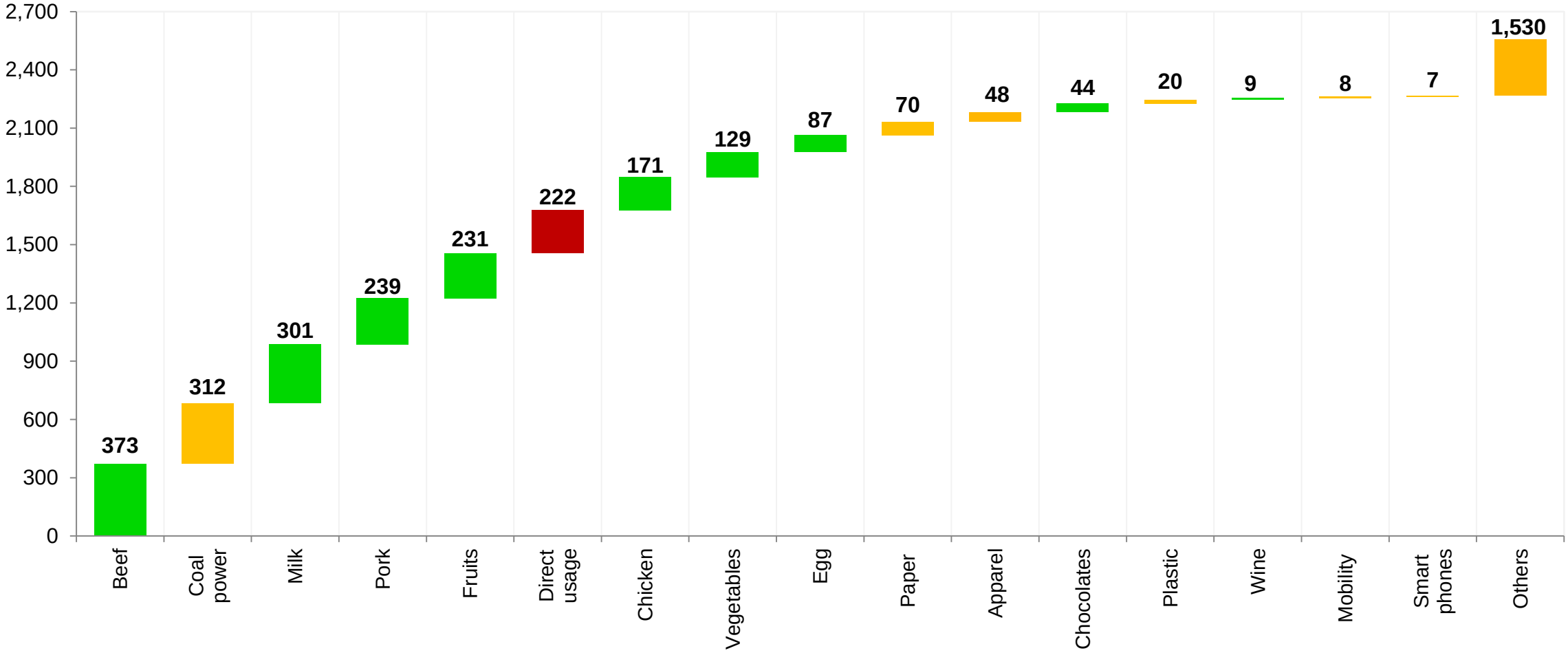
1 kg fruit: 962 liters water

1 liter plastic bottle: 16 liters water

Micro view – lifestyle choices matter! (2/2)

A large share of the water consumed by an average human being is hidden or 'virtual', i.e., water that gets used during the upstream stages of production

Per capita water foot-print (liters per day)



Sources: Accenture Analysis

Accenture's commitment to addressing the water challenge

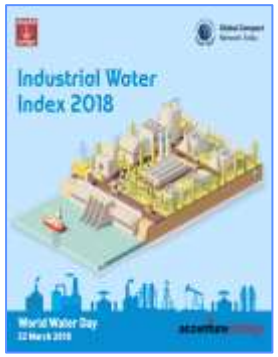
As a firm, we are committed to address our own water footprint and catalyze industry action through our partnerships

Our corporate commitments on Water

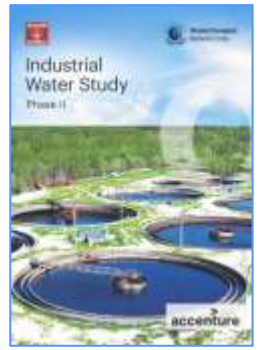
"...By 2025, we will develop plans to reduce the impact of flooding, drought and water scarcity on our business and our people in high-risk areas. We will also immediately begin to measure and reduce water use in these locations..."

JULIE SWEET
Chief Executive Officer, Accenture

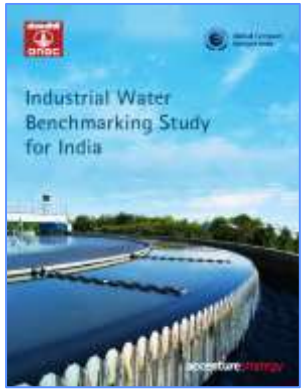
Our work with UNGC India and WWF



Water Index for companies to evaluate and measure their water footprint



Study of water use across Automobile, Paper & Pulp, Fertilizer, Oil & Gas and Textile sector



Study of water consumption across Thermal Power and Iron & Steel sectors

Indian industry underestimating water related risks - WWF-India & Accenture

Key enablers?

The action on water challenge can be accelerated through three key enablers

Technology

~300 BCM

Reduction in annual ground water withdrawals by increasing agri-yield by 30% using **ICT interventions**

~33 BCM

Reduction in fresh water demand by reducing water footprint of thermal power production in BRICS countries through **switching to Renewables**

Behaviour

~185 BCM

Reduction in fresh water demand through 50% **reduction in beef consumption**

~27 BCM

Reduction in annual water demand through 100% **reduction in single use plastic** consumption

Partnership

>95%

(water footprint beyond organization's boundaries)

Over 95% of the water footprint of passenger car outside the factory walls.

Auto manufacturers in India can influence only ~33 mcm of the annual water footprint through in-house Initiatives, but can influence over 1,200 mcm of water annually through **collaborative actions across the supply chain**

Sources: Accenture Analysis; Water: A human and business priority, May 2020;

BCM = Billion Cubic Meters

Thank You