

Asia

Water-nomics:

More GDP with Less Water & Pollution

Wednesday 29 August
14:00-15:30



CHINA WATER RISK is an initiative dedicated to addressing business and environmental risk arising from the country's urgent water crisis.

We aim to foster efficient and responsible use of China's water resources by engaging the global investment and business communities, civil society and individuals in understanding and managing China's water risk.

ACT NOW, visit us at www.chinawaterrisk.org



ENGLISH 简体中文

ABOUT **BIG PICTURE** **SECTORS** **REGULATIONS** **NETWORK** **RESOURCES**

LATEST FEATURES

Sharing Rivers: The Lancang-Mekong Case
Tsinghua University's Prof. Zhao shares research on the benefits of transboundary cooperation in river basins ... [more](#)

Financing Green Infrastructure In The GBA: Key Takeaways
Check out expert views from the HKUST event ... [more](#)

3 Things You Need To Know About Hunan
CWR's Low highlights why Hunan is important as China develops the Yangtze River Economic Belt ... [more](#)

China's Renewable Energy Quotas
We review the new quotas & Renewable Energy Power Certificates (REPCs); what impacts will they have? ... [more](#)

BIG PICTURE →

FIND OUT WHO'S RUNNING DRY IN THE BIG PICTURE

ANALYSIS →

Audit! Yangtze River Economic Belt
China's first ever basin-wide environmental audit on the Yangtze River Economic Belt is an unprecedented step towards balancing economy & environment. See the good & not so good findings ... [more](#)

SECTORS →

AGRICULTURE →
Rural population in China is shrinking & its water supply lags urban areas. Find out what the 8 key challenges are in China's rural water security...[more](#)

POWER →
China's current subsidy system for renewable energy is overburdened. How can Green Power Certificate trading alleviate this situation?...[more](#)

NEWS →

February 02 2016, Ministry of Agriculture of the People's Republic of China
China works for more efficient water use in agriculture
BEIJING, Jan. 30 (Xinhua) -- China plans to make the water use in agriculture more efficient with measures such as tiered pricing, wider...

January 07 2016, China Daily
Xi stresses 'green development' along Yangtze River - China - Chinadaily.com.cn
Chinese President Xi Jinping holds a symposium on improving the development of the Yangtze River Economic Belt in Southwest China's...

February 02 2016, Ministry of Agriculture of the People's Republic of China

OPINIONS →

Upper Yangtze: Integrated Water Management & Climate Adaptation
The Sino-Swiss cooperation project aims to enhance water management & climate adaptation in the Jinsha River Basin. What lessons have been learnt & what's next? ... [more](#)

FOOD & BEVERAGE →
Food & drink help create a festive atmosphere in Christmas but how much water do they use? What are the impacts on China & solutions?...[more](#)

METALS & MINING →
Demand for toxic rare earths is only going to increase. Will China be able to cater for its own growing needs let alone those of the world?...[more](#)

NOTICES & EVENTS →

New CWR Report! China Prioritises Environment: More Disclosure Needed To Match Rising Risks
What is the status of Chinese co's disclosure on the "E" of ESG?

World Water Week 2018
26 - 31 August, 2018
China Water Risk is convening a seminar titled "Asia Water-nomics: More GDP with Less Water & Pollution" ... [more](#)

TEXTILES →
China, the world's largest manufacturer of garments, wants to go circular but what challenges does it need to overcome first?...[more](#)

ELECTRONICS →
Transitional risks are abound as China says no to pollution and yes to a high tech future. What are top-5 'beware's' for critical raw materials?...[more](#)

SUBSCRIBE →

To receive the latest updates, please register below. Please note that the use of your personal data is set out in our [privacy policy](#).

* = required

Email *

Name *

Media Room | [Privacy Policy](#) | [Disclaimer](#) | [Sitemap](#)

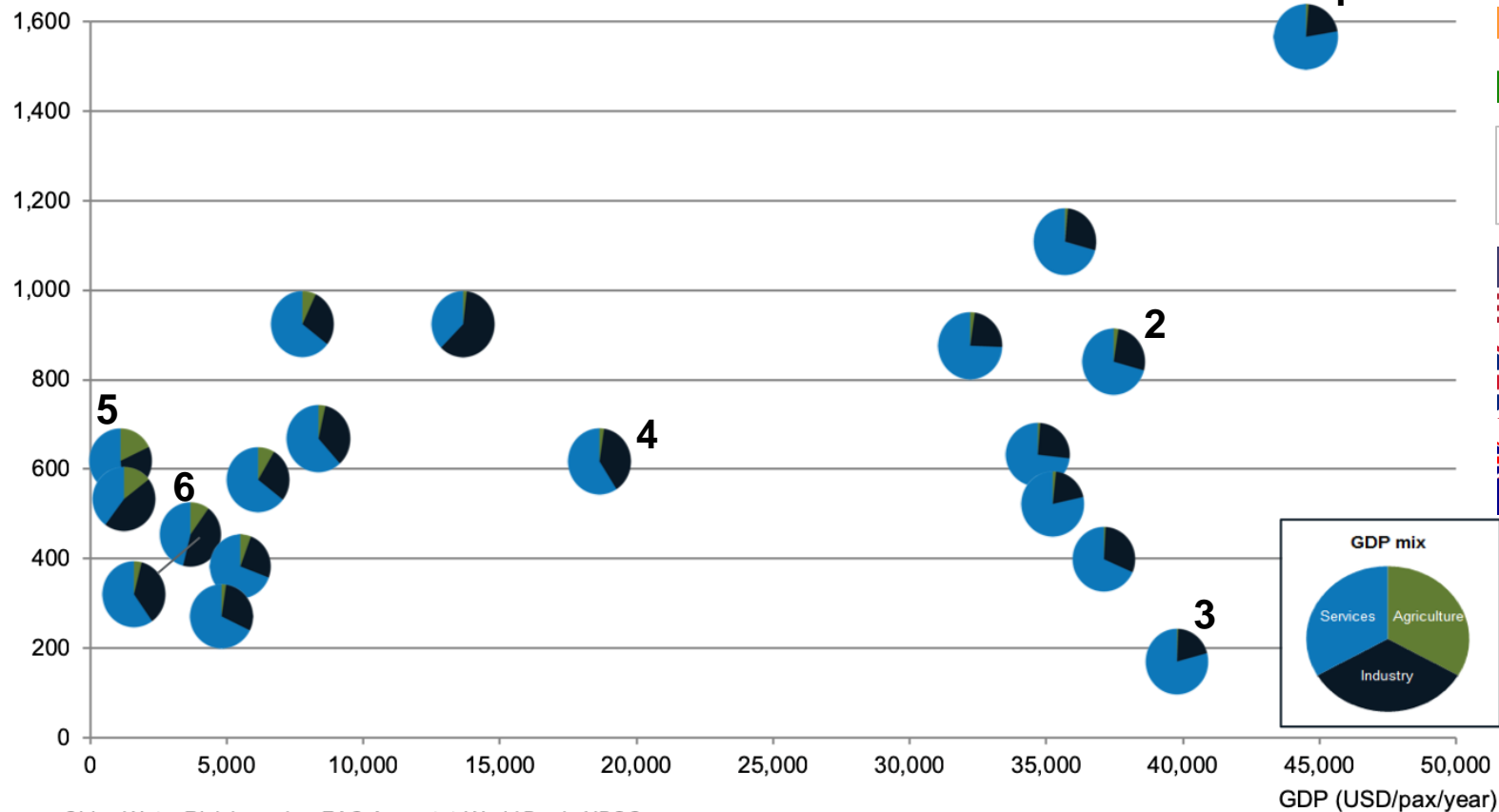
Sponsored by

FOLLOW US

G20 Water-nomics ...

Water use corresponds to economic development - changing GDP mix matters (G20 Per Capita Water Use vs. GDP)

Water use (m³/pax/year)

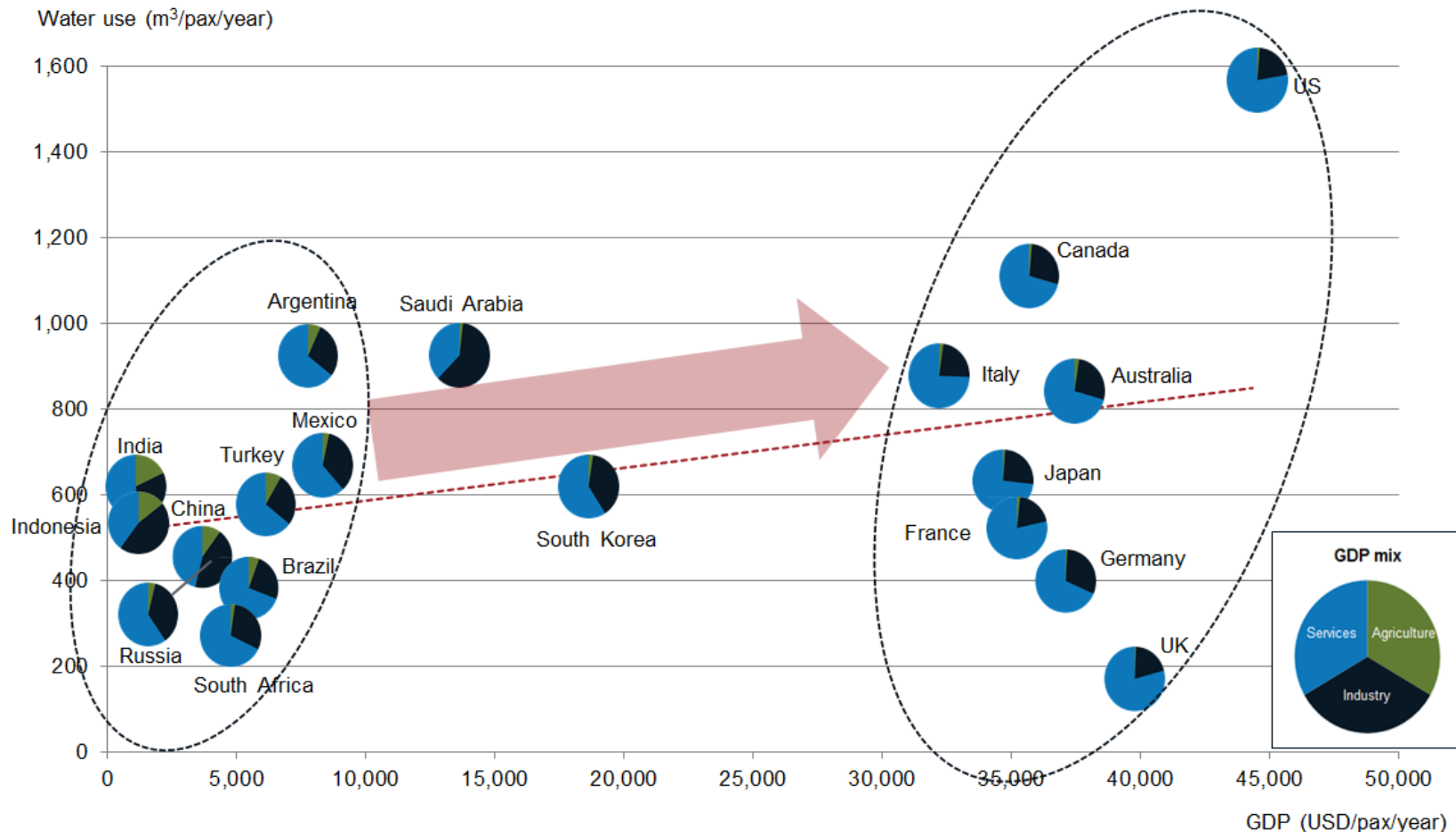


Source: China Water Risk based on FAO Aquastat, World Bank, NBSC

Note: For each country, the latest available data for water use is considered (ranging from 2000 to 2014). GDP at that year is expressed in Constant 2005\$

G20 Water-nomics ...

Water is needed for development - changing GDP mix matters (G20 Per Capita Water Use vs. GDP)

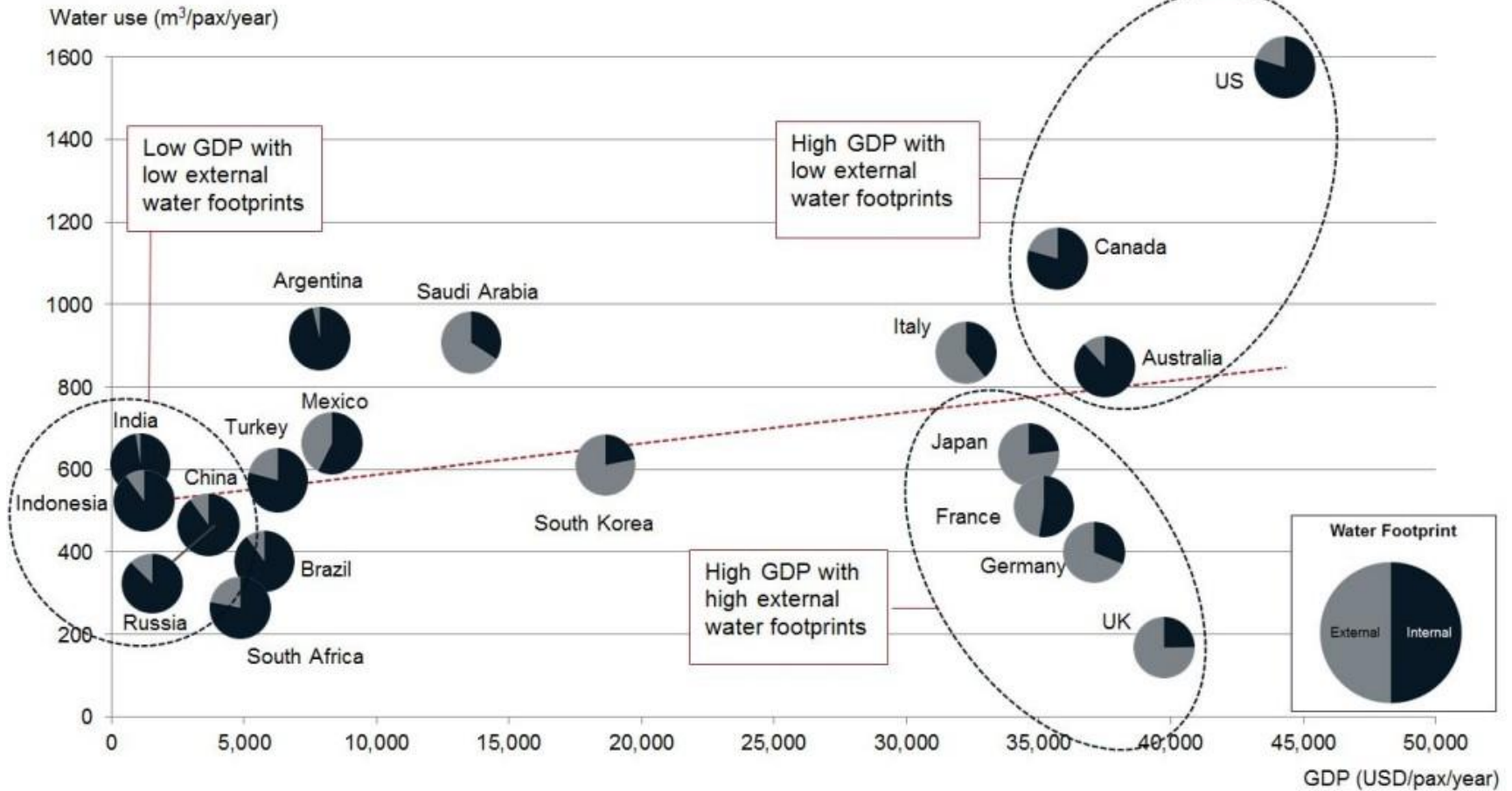


Source: China Water Risk based on FAO Aquastat, World Bank, NBSC

Note: For each country, the latest available data for water use is considered (ranging from 2000 to 2014). GDP at that year is expressed in Constant 2005\$

Use other people's water ...

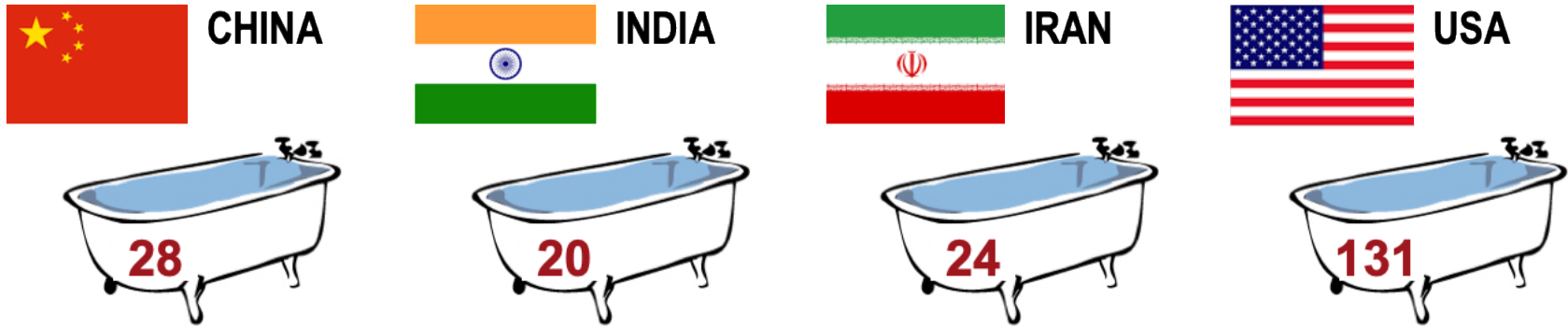
Outsourcing water - imports can help reduce domestic water use (G20 Per Capita Water Use vs. GDP)



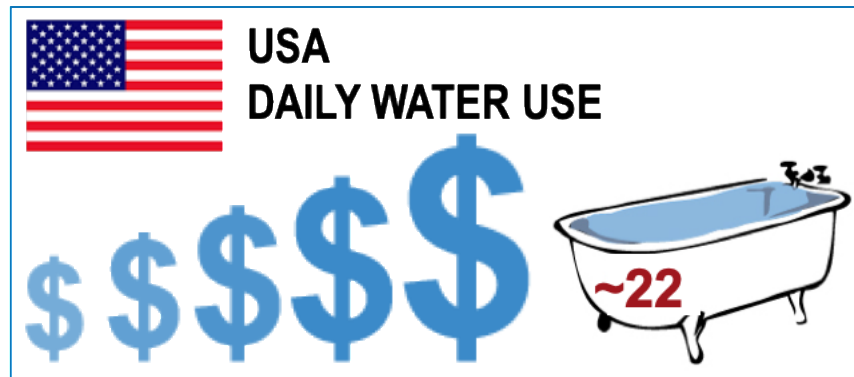
Source: China Water Risk based on FAO Aquastat, World Bank, NBSC, Water Footprint Network

Note: For each country, the latest available data for water use is considered (ranging from 2000 to 2014). GDP at that year is expressed in Constant 2005\$

Asia's real liquidity crunch...

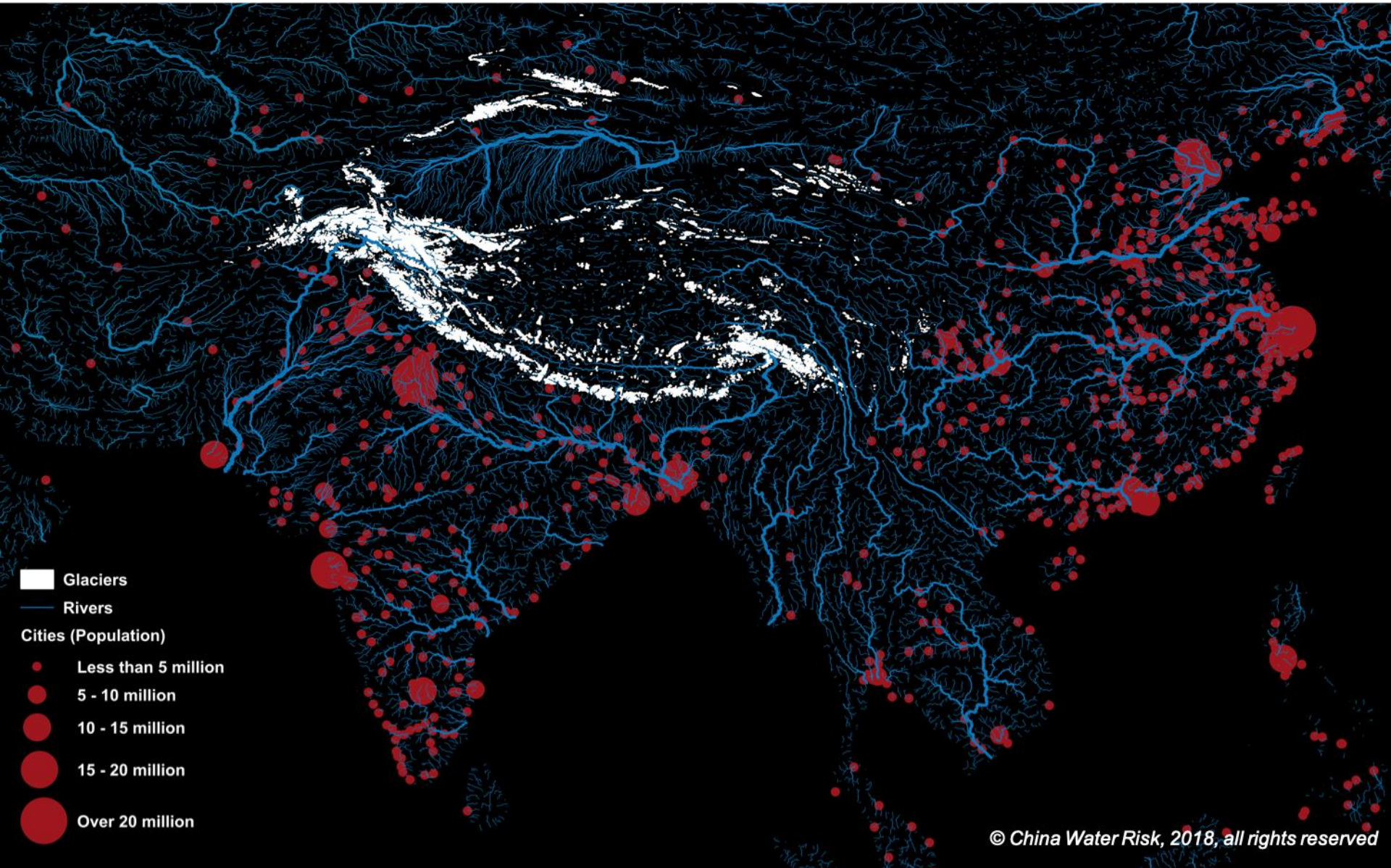


TOTAL RENEWABLE RESOURCES PER CAPITA PER DAY

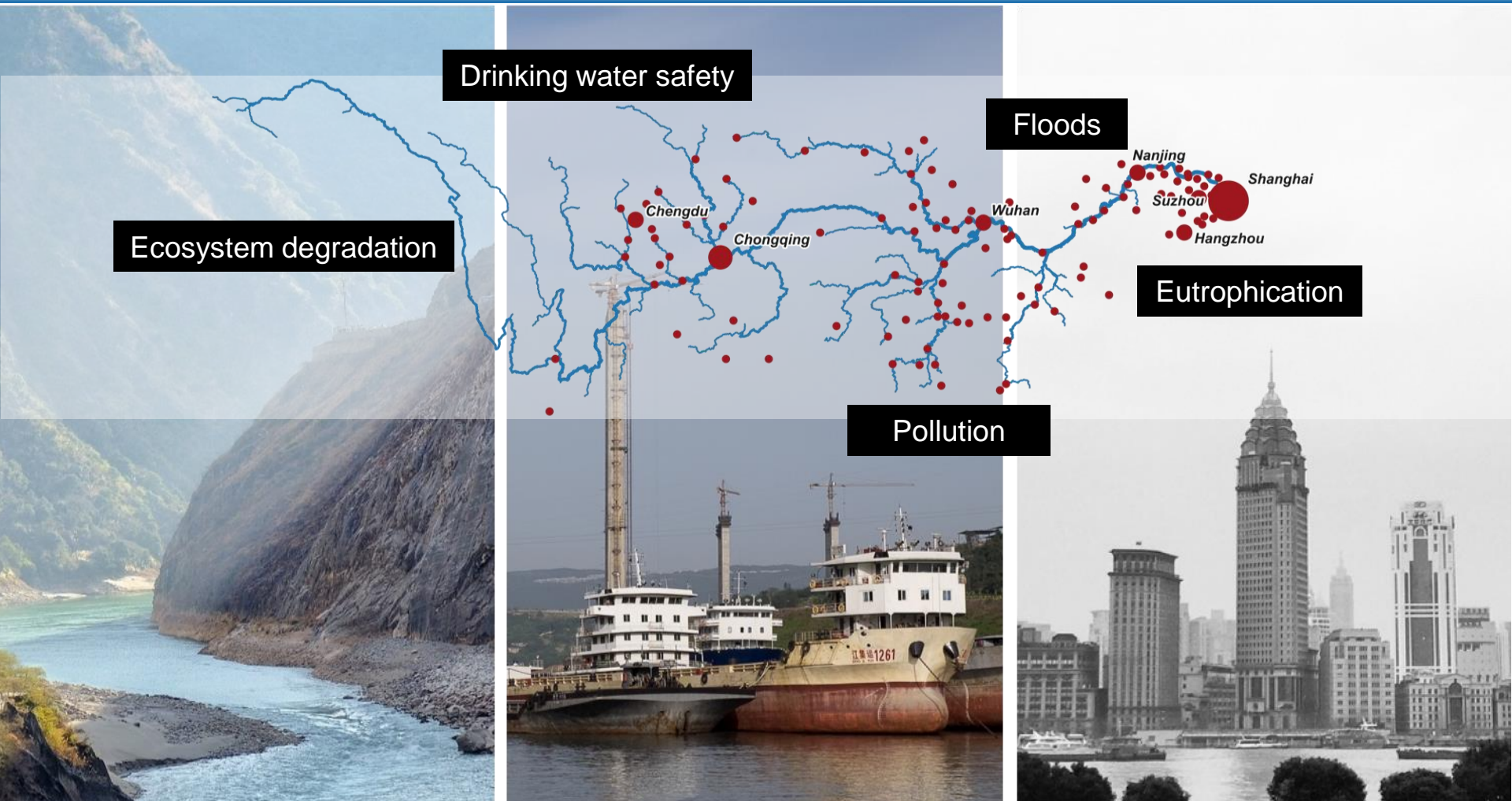


Asia's future = business unusual / Local risks = global disruption

Rivers are important for Asia

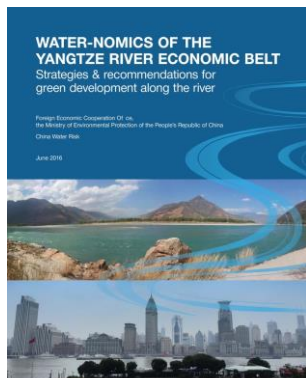


Case Study: the Yangtze River

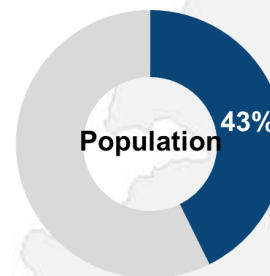


The need for basin-wide strategy to manage water & economy

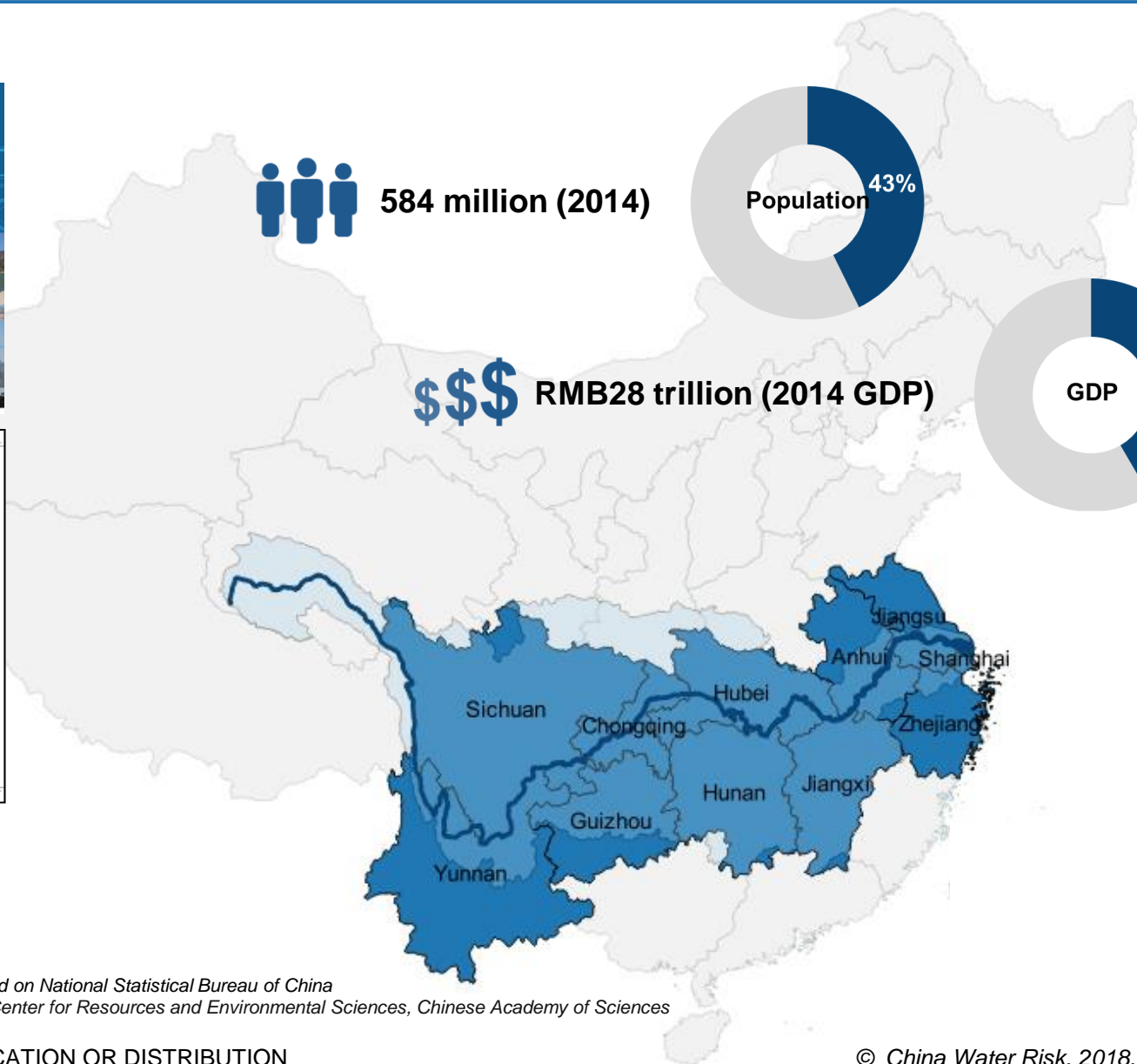
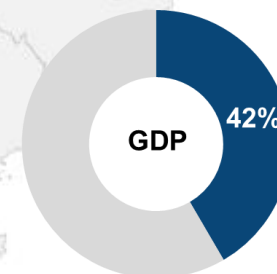
Yangtze River Economic Belt (YREB)



584 million (2014)



RMB28 trillion (2014 GDP)



Source: China Water Risk based on National Statistical Bureau of China
 Base map data are from Data Center for Resources and Environmental Sciences, Chinese Academy of Sciences

YREB's strategic importance to China

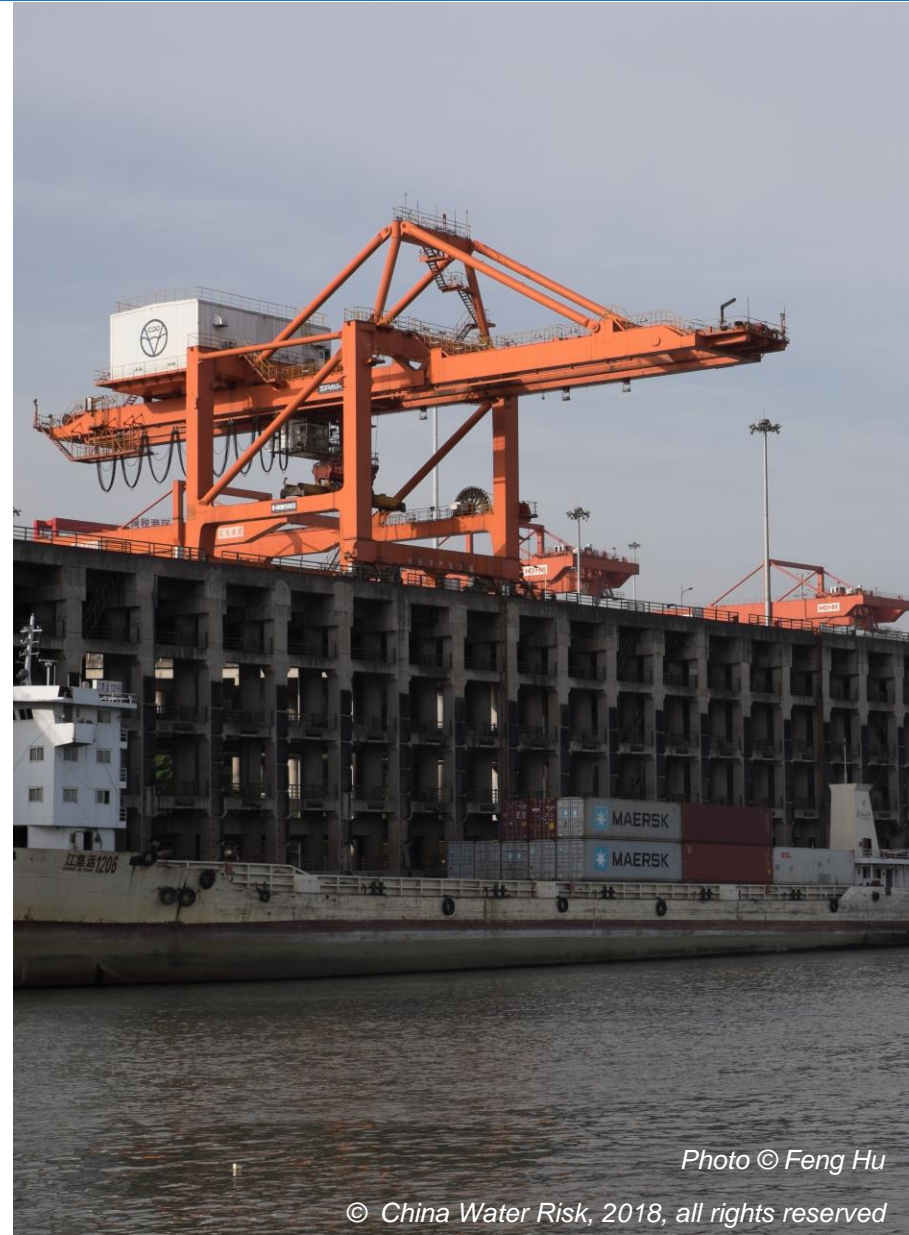
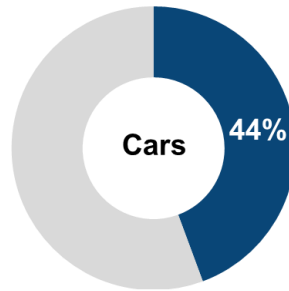
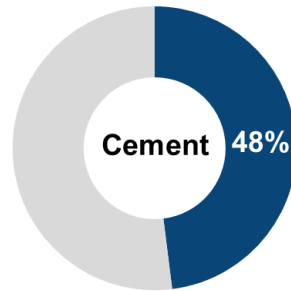
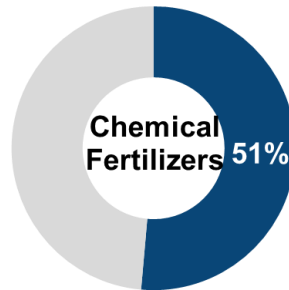
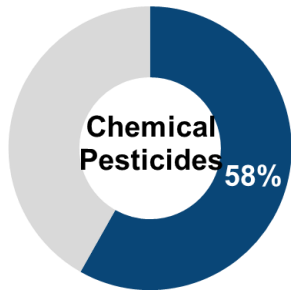
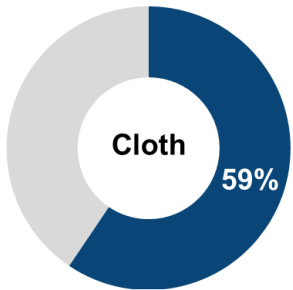
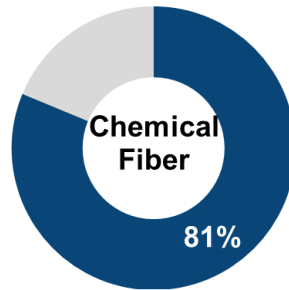
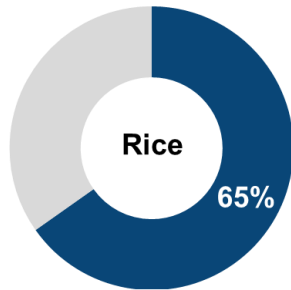
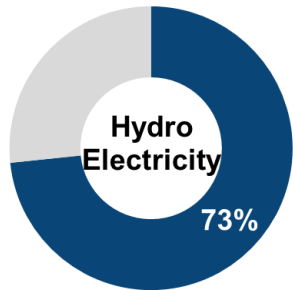
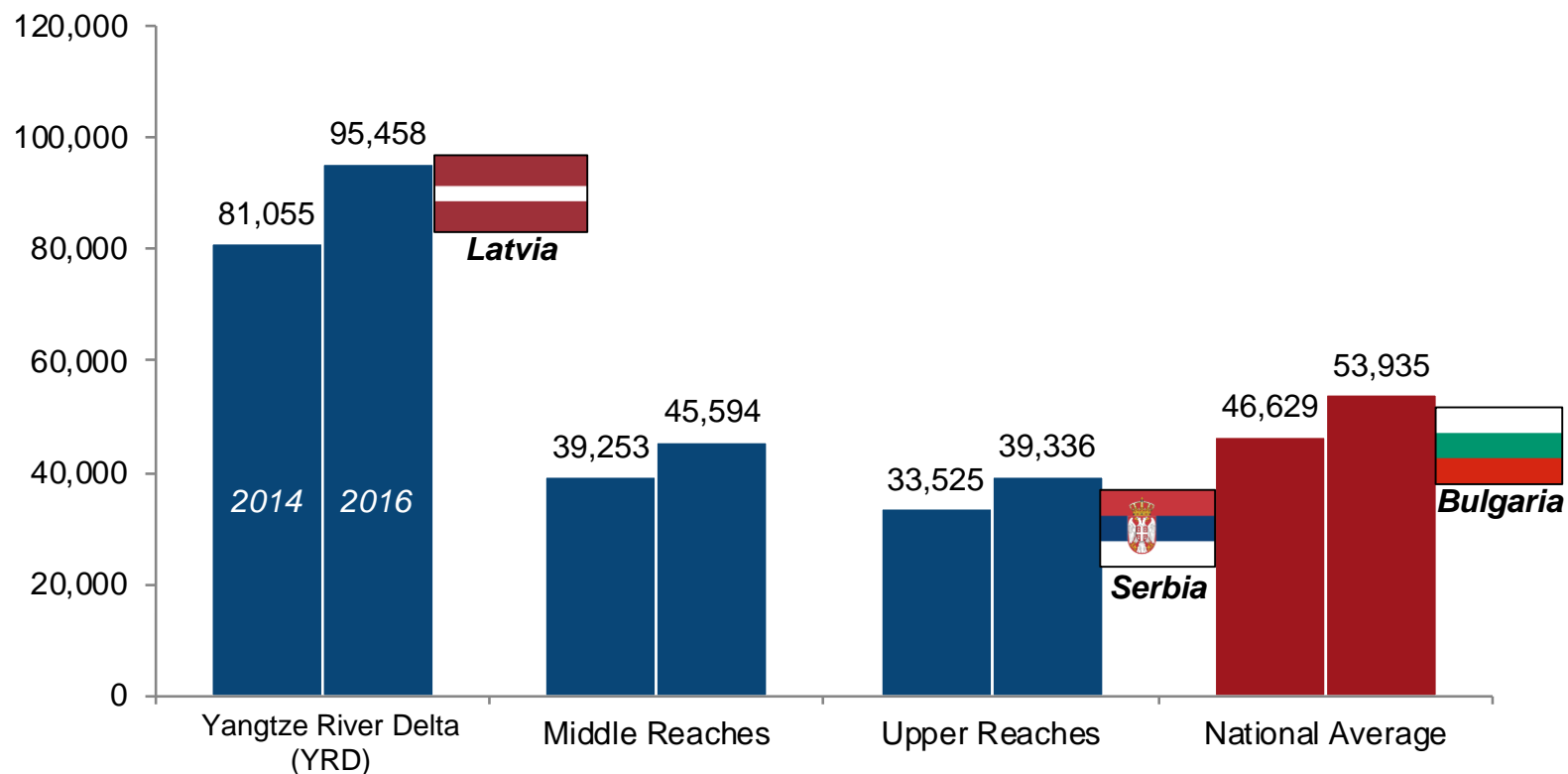


Photo © Feng Hu

Development varies across sub-basins

2014 & 2016 GDP Per Capita (Unit: RMB) Yangtze River Economic Belt (YREB) Regions vs National Average

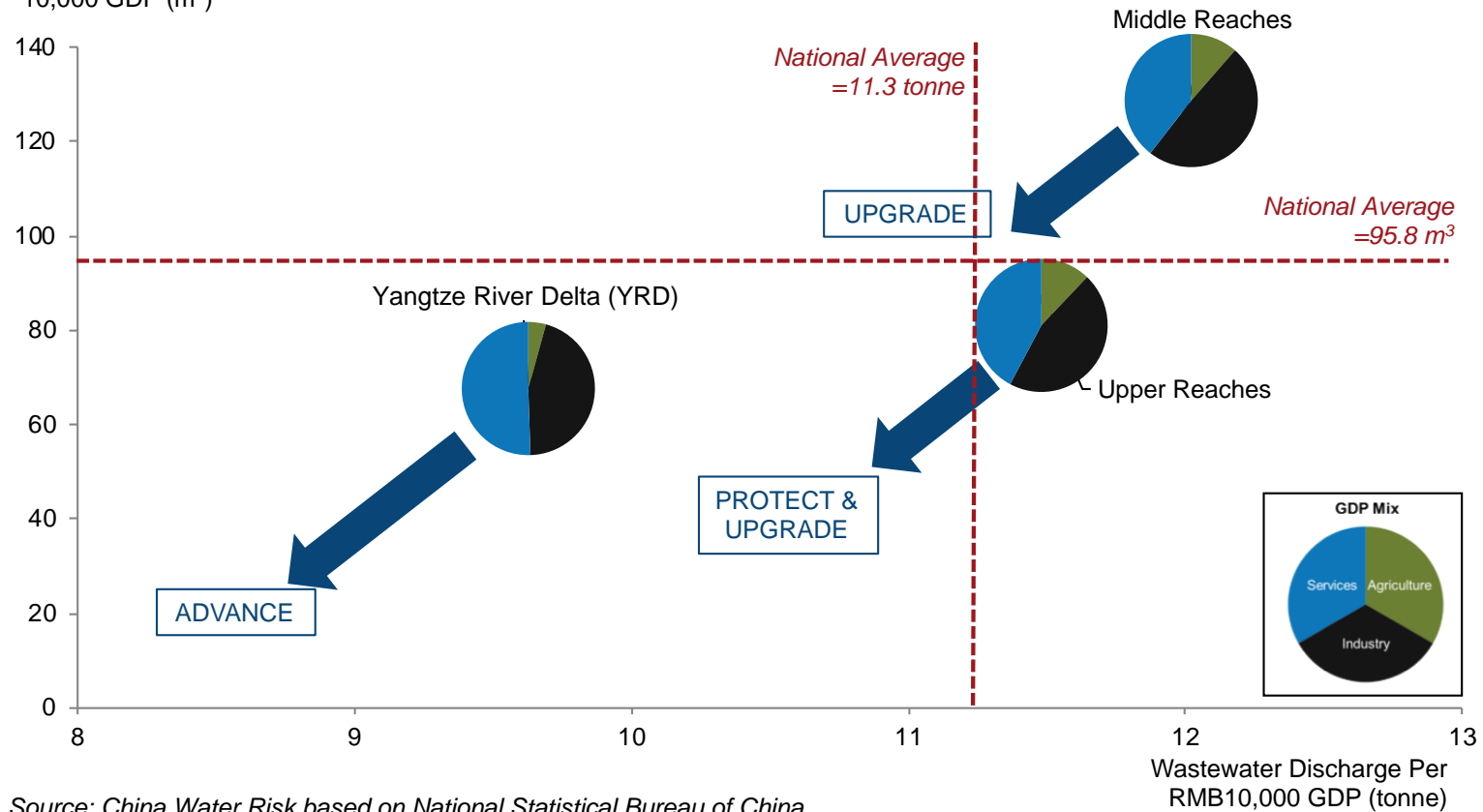


Source: China Water Risk based on National Statistical Bureau of China

Water-nomics performance also varies ...

2014 YREB Regions: Per RMB10,000 GDP Water Use and Wastewater Discharge

Water Use Per RMB
10,000 GDP (m³)

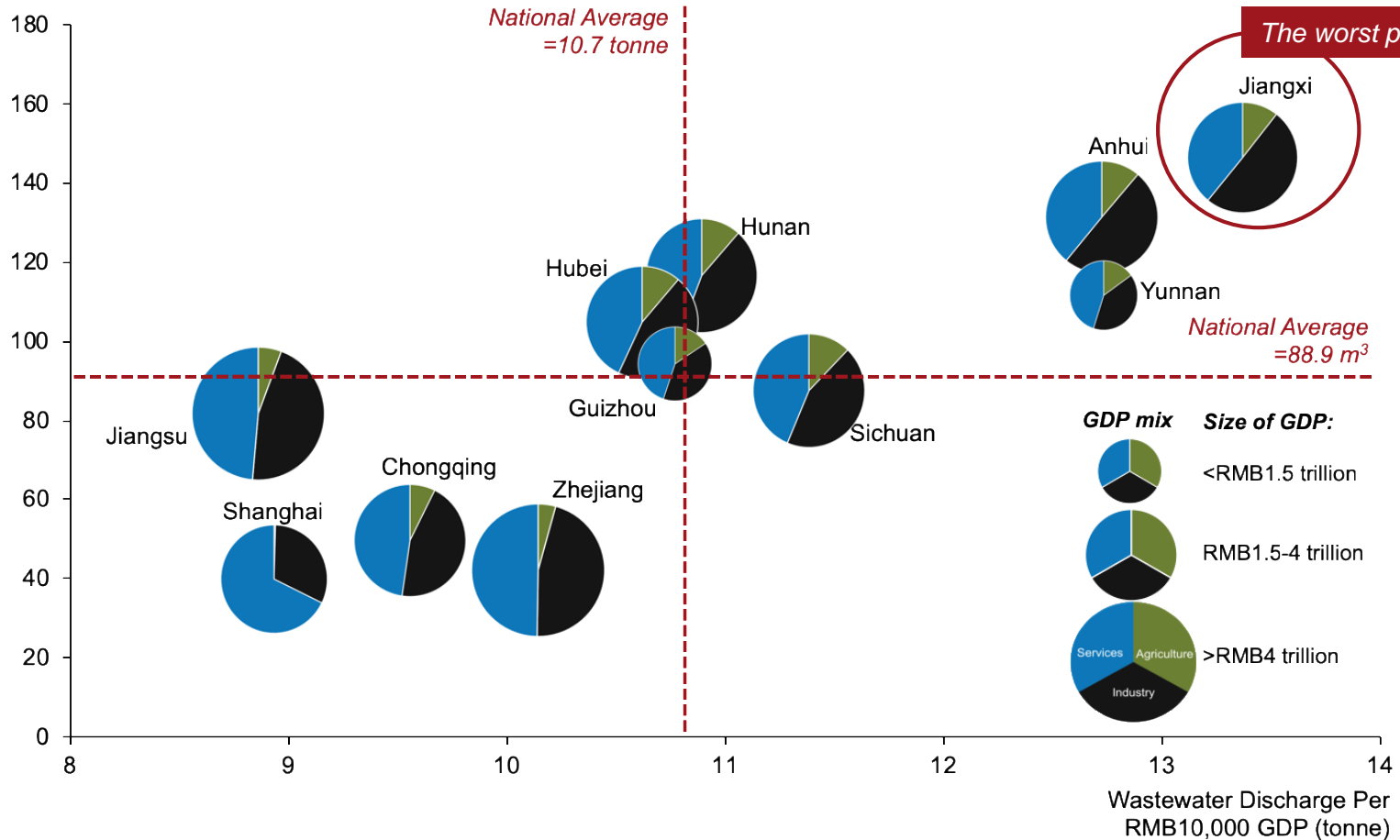


Source: China Water Risk based on National Statistical Bureau of China

Greater differences across provinces

2015 Yangtze River Economic Belt (YREB) Provinces Per RMB10,000 GDP Wate Use and Wastewater Discharge

Water use per RMB
10,000 GDP (m³)

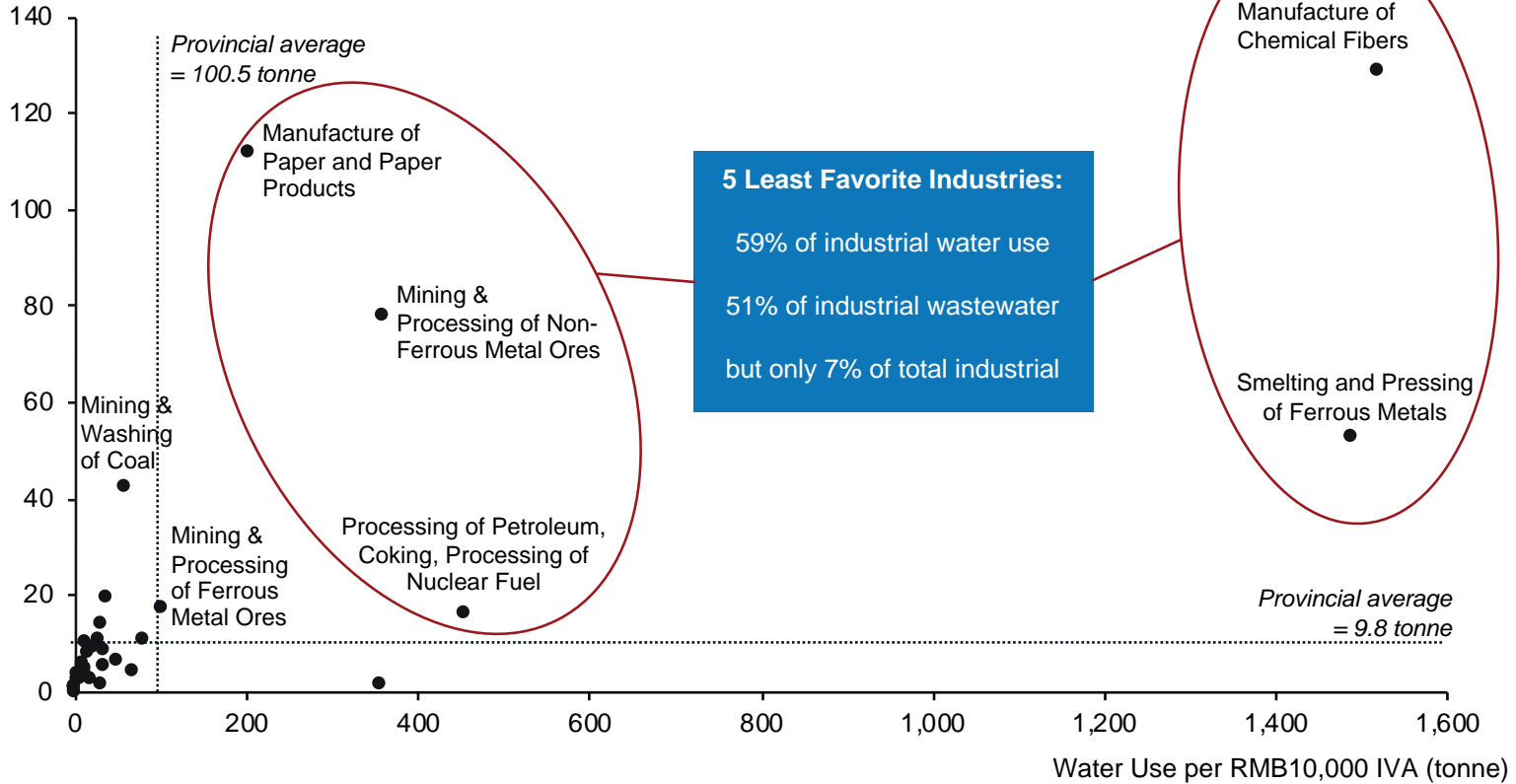


Source: China Water Risk based on NBSC

Choose the right industry mix ...

Jiangxi: Per RMB10,000 IVA Wastewater vs Water Use

Wastewater per RMB10,000 IVA (tonne)

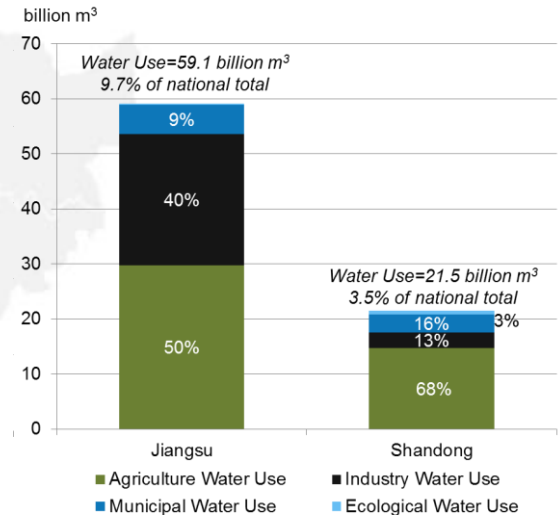


Source: China Water Risk based on Jiangxi Statistical Yearbook 2016

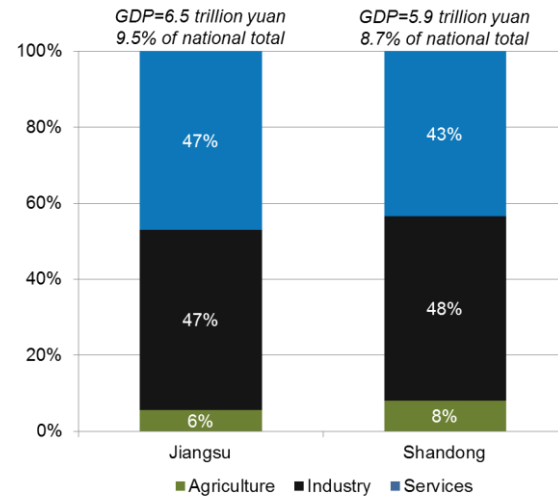
There's always room for improvement



2014 Water use mix: Jiangsu vs Shandong



2014 GDP mix: Jiangsu vs Shandong

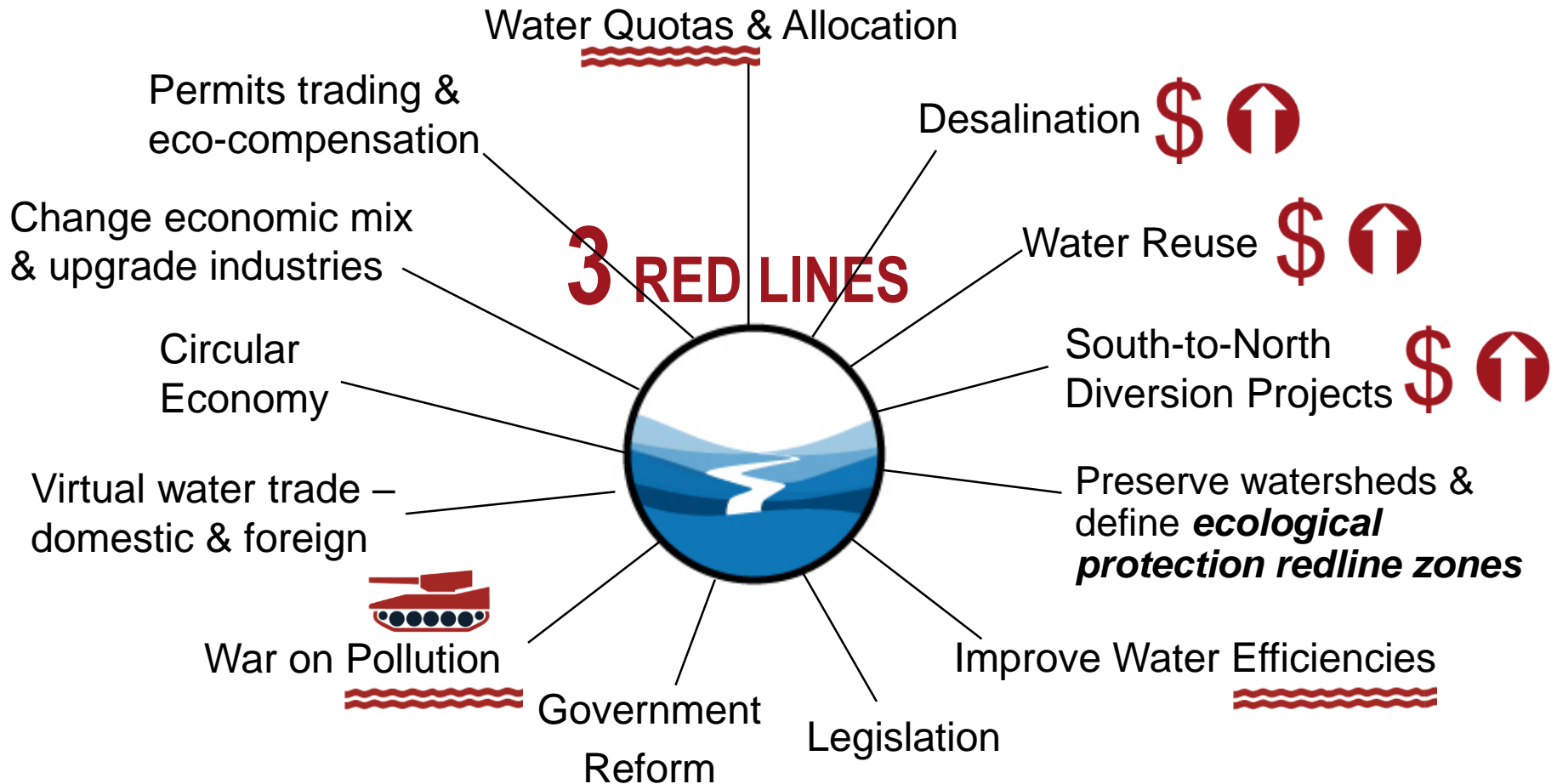


Base map data are from Data Center for Resources and Environmental Sciences, Chinese Academy of Sciences

Source: China Water Risk based on National Statistical Bureau of C

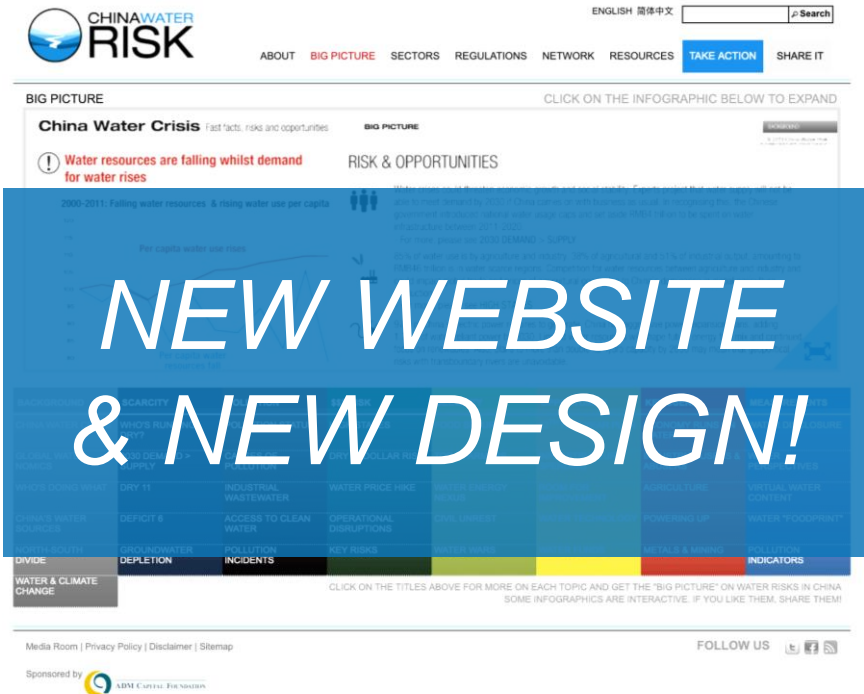
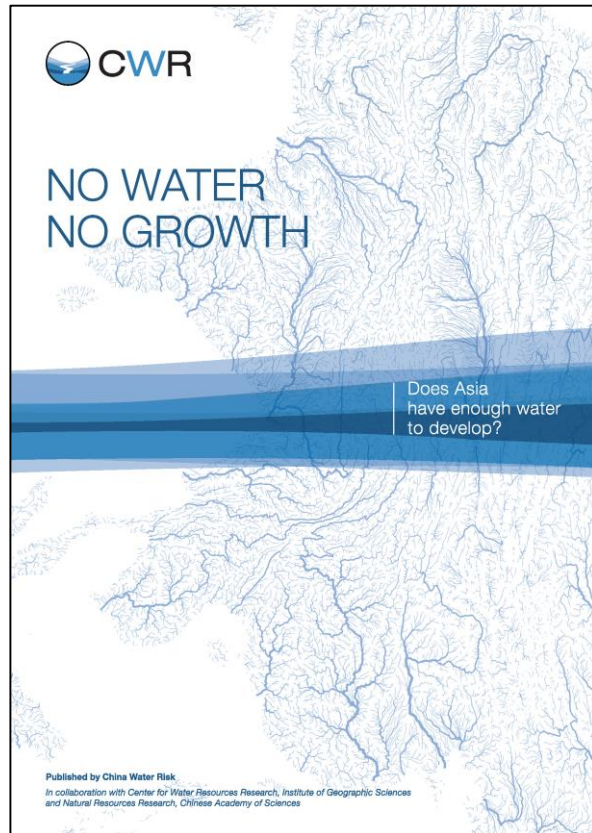
© China Water Risk, 2018, all rights reserved

China's multiple stratagems ...



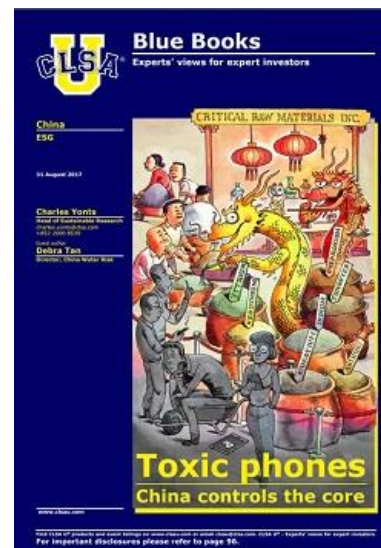
RMB 6 trillion war chest to hold the 3 Red Lines on Water by 2020

New website & new report



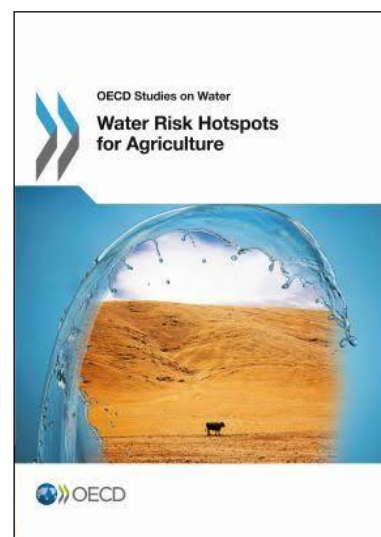
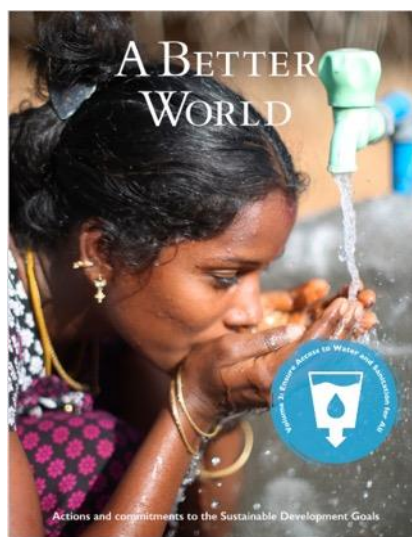
Stay tuned for CWR's September newsletter!

Decisions today for water tomorrow



2017 reports & publications

chinawaterrisk.org



WATER MATTERS
DECISIONS TODAY FOR WATER TOMORROW

Disclaimer



Information provided has been obtained from, or is based upon, sources believed to be reliable but has not been independently verified and no guarantee, representation or warranty is made as to its accuracy or completeness. Information contained in this document is current as of the date specified above and is subject to change without notice. Information contained in this document relating to investments, valuations, unrealised data, and projections is indicative only, and has been based on unaudited, internal data and assumptions which have not been independently verified or audited and are subject to material corrections, verifications and amendments.

This information is not intended to constitute a comprehensive statement of any matter, and it should not be relied upon as such. None of China Water Risk, its sponsors, affiliates, officers or agents provide any warranty or representation in respect of information in this document.

This document is for information purposes only and should not be construed as an offer, or solicitation of an offer, to buy or to make any investment.

This document, is strictly confidential. This document, graphics and illustrations must not be copied, in whole or in part or redistributed without written consent. (© China Water Risk, 2018, all rights reserved).