







The Financial System We Need
Aligning the financial system with sustainable development

A SYSTEMIC CHALLENGE

TOO MUCH OF THIS





NOT ENOUGH OF THIS





CRITICAL CHALLENGES

US\$16 trillion

Annual global investment All needs to be green and resilient

US\$ 5-7 trillion Annual investment needed for sustainable development goals e.g. in infrastructure, energy, agriculture

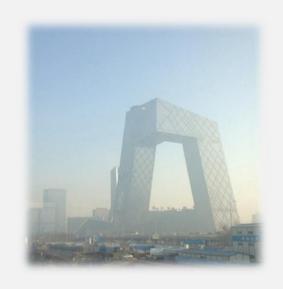


Annual environmental externalities –need to be costed into decision making



Reduction in fossil fuel and power investment need (2015-2030)

CHINA: Greening the financial system



Green credit criteria taking shape

Zheng Yanpeng (chinadaily.com.cn)

CHINADALY.com.cn

Green investment needs: US\$400bn p.a to finance green investment; only 15% from public sources.

Green financial system: The People's Bank of China co-authored a set of proposals with the Inquiry on closing the gap: green bonds, green ratings, lender liability, environmental insurance, stock market disclosure

International cooperation: Exploring areas of cooperation in green finance ahead of G20 in 2016, with Bank of England and Inquiry

"Greening a country's financial system is not an "additional" performance requirement but concerns the efficiency and effectiveness of the whole system" Development Research Council of the State Council, China

UK: Prudence, stability and green finance



'Carbon bubble' poses serious threat to

Fiduciary Duty: Law Commission review clarified that material sustainability factors part of prudent investing.

Prudential Regulation: The PRA has examined the impact of climate on safety and soundness of insurance companies: physical, transition and litigation risks.

Green Finance: The Green Investment Bank instrumental in creating a new class of 'renewable investment trusts'

"The central bank time horizon is relatively short. But the real challenges to prosperity and economic resilience from climate change will manifest well beyond this. We face a 'tragedy of horizons'." Mark Carney, Governor, Bank of England

FRAMEWORK FOR ACTION: Tools, policies and governance

Tools



Enhancing market practice: Disclosure, responsibilities, product criteria



Harnessing public balance sheet: Fiscal incentives, public institutions & central banks



Directing finance through policy: Priority sectors, regulatory calibration, liability frameworks



Transforming culture
Capacity building,
financial behaviour,
market structure

Policy packages



Banking: Extend risk based governance, improve access, enhance culture



Bonds: scale up green bonds, extend credit analysis



Equities: market disclosure, sell-side research



Investment: Pensions governance, transparency and incentives



Insurance: Access, prudential governance & investment role

Governance



Principles for a sustainable financial system



Compacts and pathways



Policy and legal frameworks

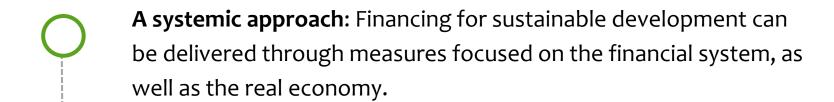


Regulatory mandates



Performance measurement

INQUIRY: conclusions



A quiet revolution: A growing number of policy innovations have been introduced by both developing and developed countries, demonstrating how the financial system can be better aligned with sustainable development.

A moment of opportunity: Systematic national action can now be taken to shape a sustainable financial system, informed by current trends and complemented by international cooperation.

















Project Partners

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(Examples)





















Approach

Combine Three Sources of Data

Global data on water stress

Data on water use by location of operations

Corporate credit information

WATER



Calculate shadow prices

COSTS FOR WATER



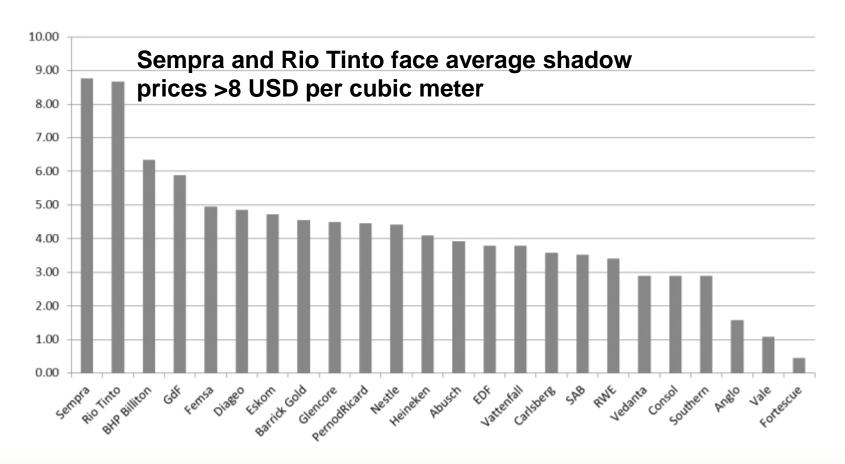
Combine company data with price at location



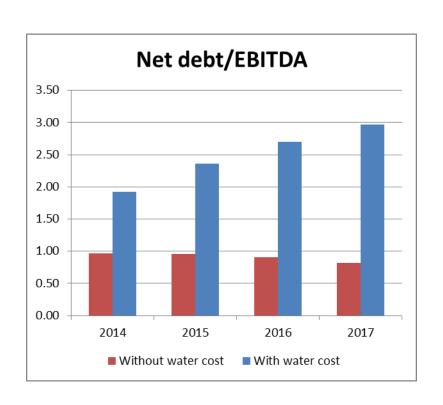
Assess financial impact

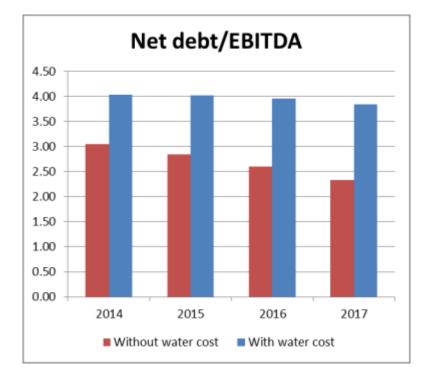
Blended Shadow Prices of Water

USD per cubic meter



Highlighted Results: Mining





Rio Tinto: ratio rises by 200% to

2.96x in 2017

Vedanta: ratio rises to 4x
→ non-investment grade?

Highlights

- Water stress in many regions is high and increasing
- Companies will face pressure to internalize costs
- Financial ratios of companies in certain sectors/regions may be negatively impacted
- Financial institutions face potential risks from financing companies with production in water stressed areas

Thank you!

Contact:

anders.nordheim@unep.org

www.naturalcapitaldeclaration.org www.unepfi.org www.unepinquiry.org