

Siem Riep, Cambodia

Regional Capacity Development Technical Assistance

Train-the-Trainers for Cambodia and Lao PDR

27 November to 1 December, 2017

Environment Law and Policy Reform

Asian Development Bank (ADB)

ADB R-CDTA-8616

**Strengthening Capacity for Environmental Law in the Asia-Pacific:
Developing Environmental Law Champions**

**Sonia Chand Sandhu
Sr. Advisor in the Office of VPKM
27 November 2017**

Thousands of scientists issue bleak
"second notice" to humanity





Sustainable Growth is Balanced Growth

“L A W”

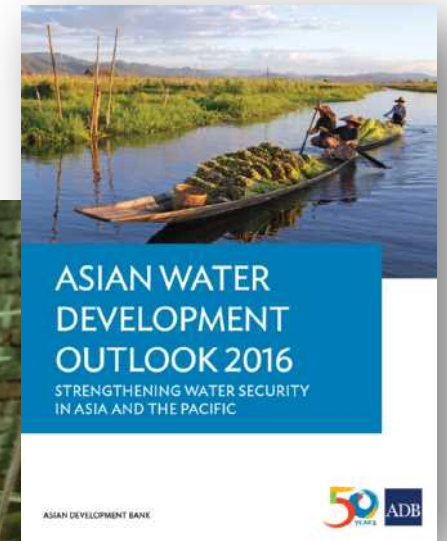


Livability Pyramid

Source: Sandhu Chand, S. and Naik Singru, R. 2014. *Enabling GrEEEn Cities: An Operational Framework for Integrated Urban Development*. Southeast Asia Working Paper Series No. 9. Asian Development Bank. Manila.

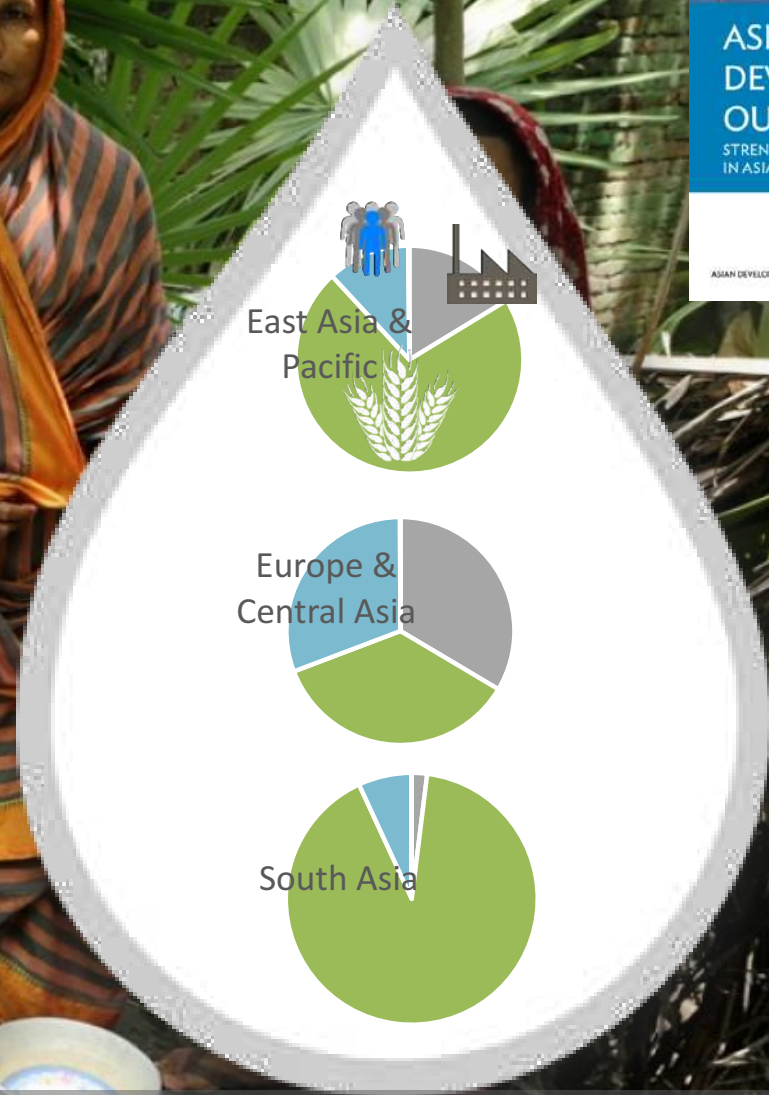


Water - Natural Capital Stress



- 75% of Asia water insecure.
- 80% of water for agriculture
- 3.4 billion people water stressed by 2050

Asian Water Outlook (ADB, 2016)



FRESHWATER WITHDRAWALS (World Bank, 2014)

Despite Economic growth, food and nutrition insecurity persists in Asia - Pacific

**LAND
STRESS !!**



Sustainable Agriculture & Food System Transformation:

- Engage Millions of Smallholder farmers
- From Farm to Folk

SUSTAINABLE DEVELOPMENT GOALS



Sustainable agriculture & food system development plays a major role in ensuring food and nutrition security

Air pollution is the tobacco of the 21st century and every single preventable death is a failure of government action (Darren Baxter, *The Independent*, 18 July 2017)



Beijing bans major construction projects in 'war against pollution'



London introduces T-Charge to tackle 'toxic' car pollution



New Delhi bans lorries amid public health emergency

Millions of people living in dozens of British cities are inhaling air considered too dangerous to breathe by the World Health Organisation, a report has shown. (Nina Massey, *The Independent*, 31 October 2017)



Air in 44 UK cities and towns too dangerous to breathe - UN report



Copenhagen's mayor plans to ban all new diesel cars in city by 2019



Air pollution is associated with poorer quality sperm, finds study

Source : <http://www.independent.co.uk/topic/Air-Pollution>

Changing Demand In Asia – Pacific

A Dynamic Landscape - Challenges to shared and balanced growth



Rapid growth -> middle-income status

Demographic changes -> ageing populations

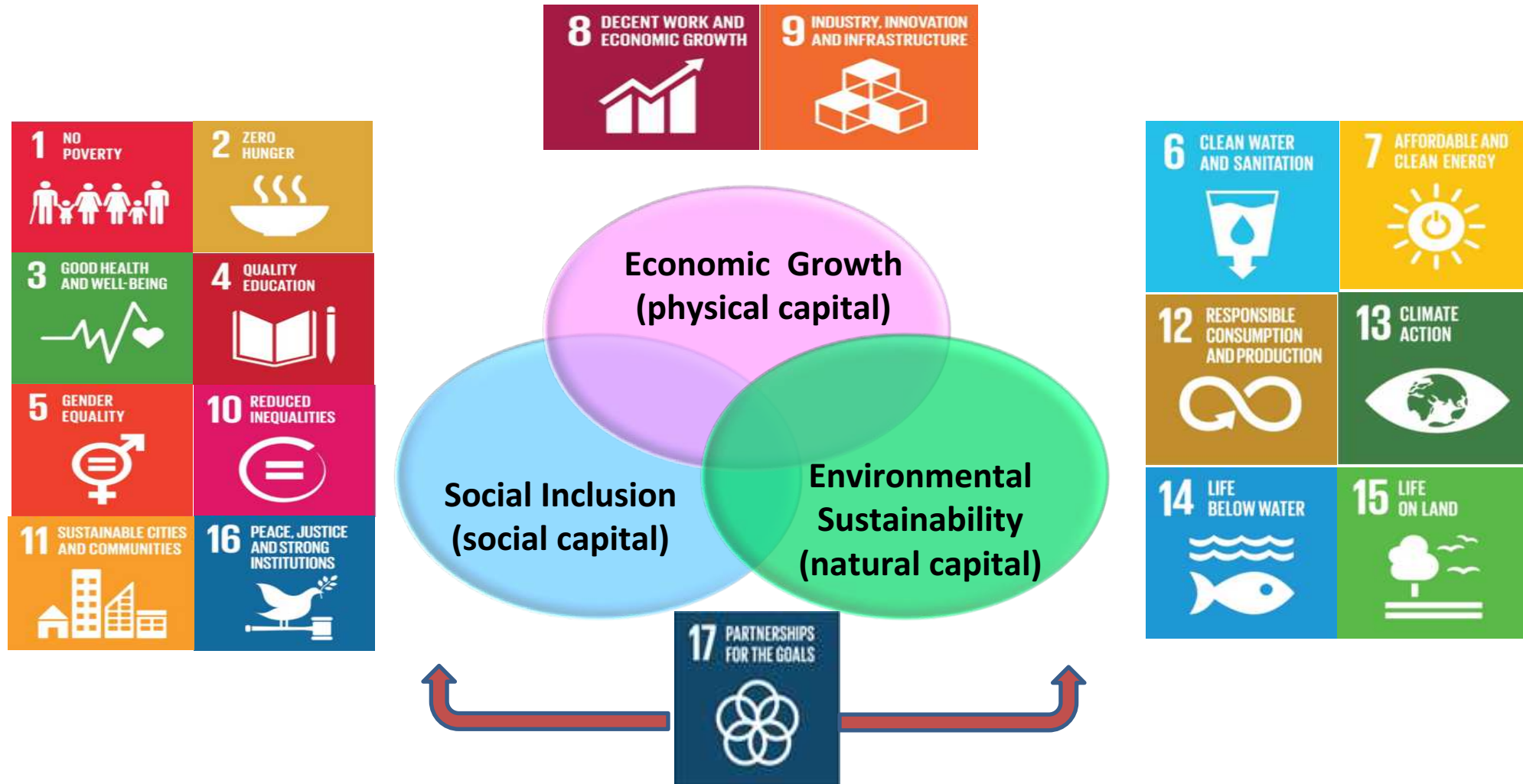
Rapid urbanization -> megacities & environment stress

Rising inequality in income and opportunities since the early 1990s resulting in less inclusive growth

Increased risks from climate change and increasing frequency of natural disasters.



SUSTAINABLE DEVELOPMENT GOALS



Source : ADB, IED 2017. Topical Paper Knowledge, Finance, and the Quality of Growth.

COP 21: Road through Paris and beyond...

From 1988 through 2017

Cooperative mechanisms for commitments for all countries.

Submit updated NDCs by 2020

Monitor, verify, and report GHG emissions system

Establish a global goal for adaptation strengthening resilience and reducing vulnerability

Mobilize climate finance from a variety of resources

COP 23 : BONN – November 2017

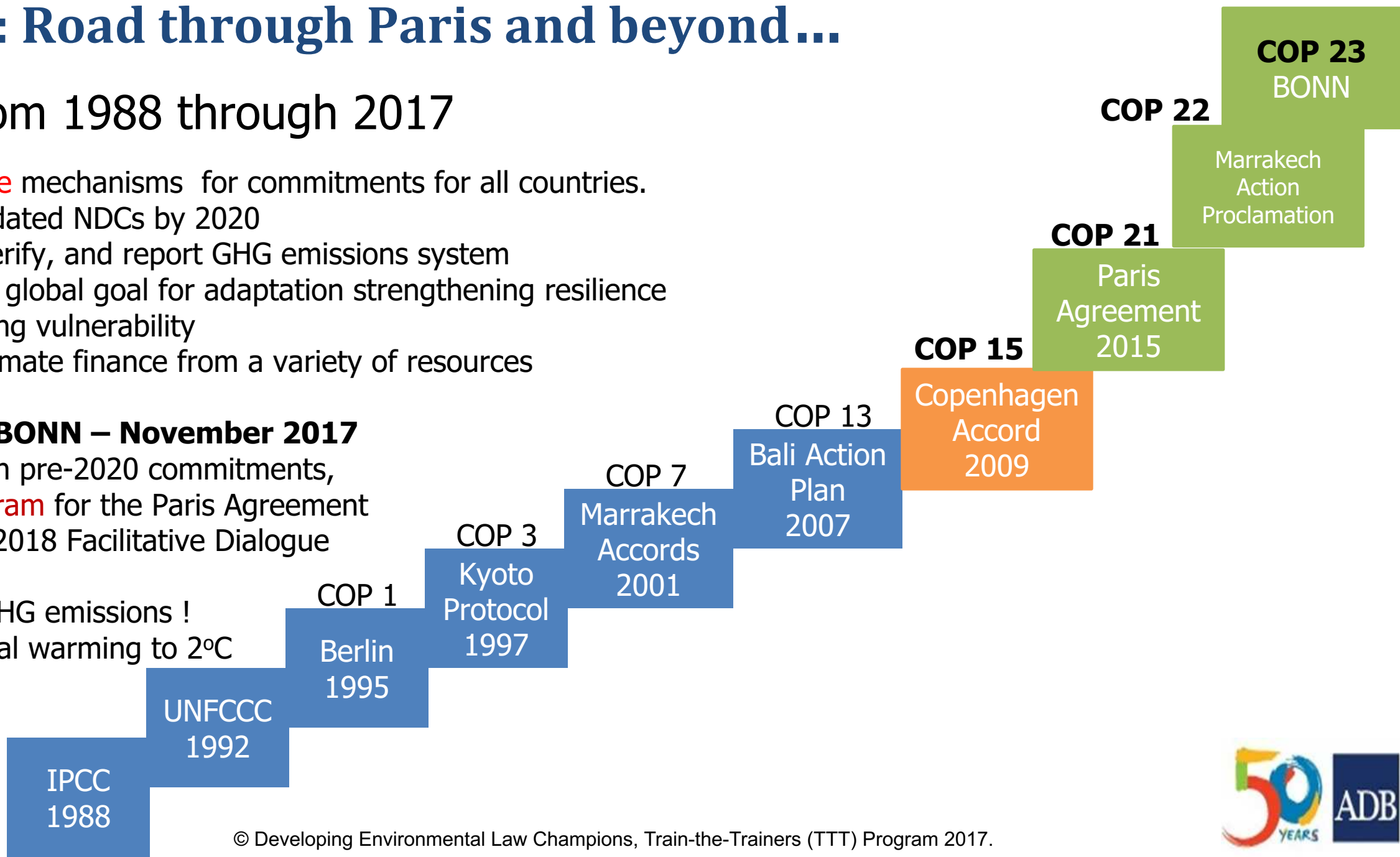
Progress on pre-2020 commitments,

Work program for the Paris Agreement

Guide the 2018 Facilitative Dialogue

Reduce GHG emissions !

Limit global warming to 2°C

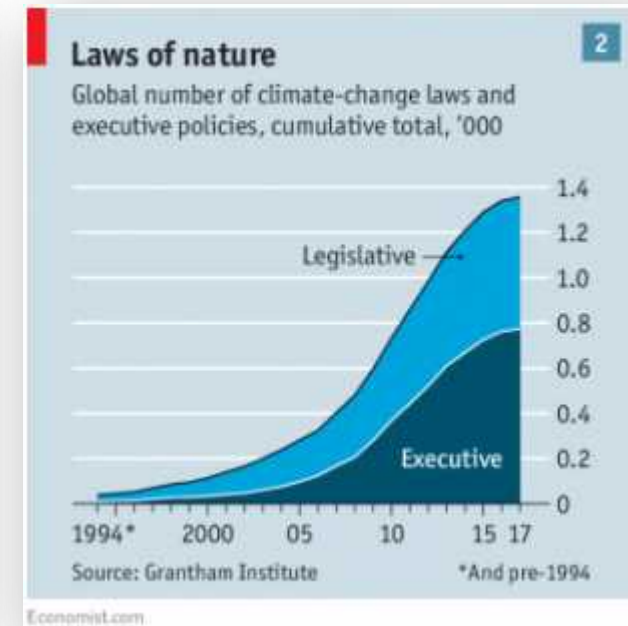
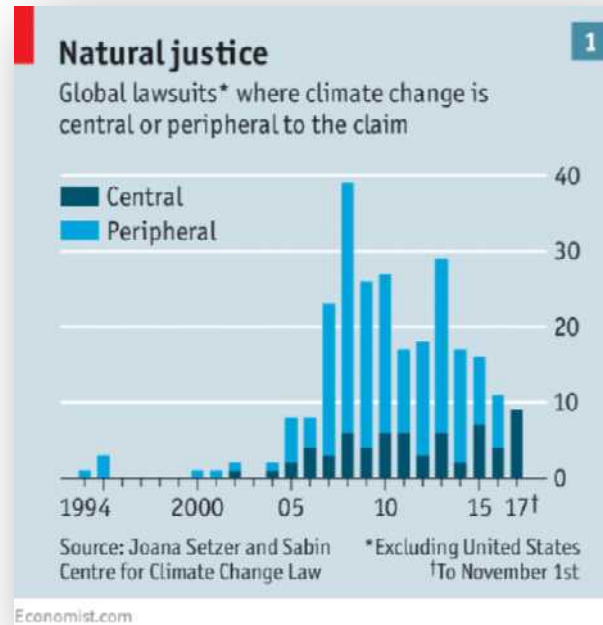


Prospect for climate-friendly verdicts is improving

- **Growing volume of climate-related commitments where governments can be held to account**
- **Advances in climate science**

Globally, the number of national climate change laws and policies has swelled from around 60 in 1977 to nearly 1400.

Based on a 2012 survey, there are 177 countries with laws, regulations or court rulings guaranteeing the right to a clean or healthy environment



Source : The Economist, "New green Advocates", Lawsuits against climate change. November 4th -10th 2017



Increasing demands - Persisting shortfalls - Increasing risks !

COMPREHENSIVE SOLUTIONS

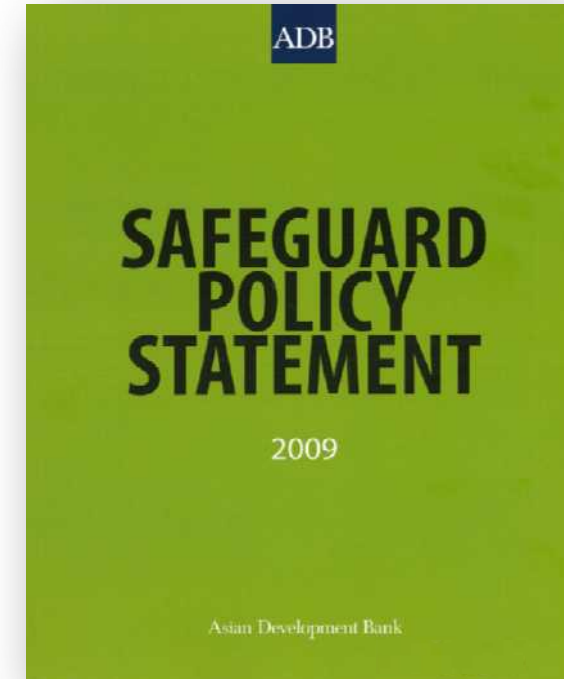
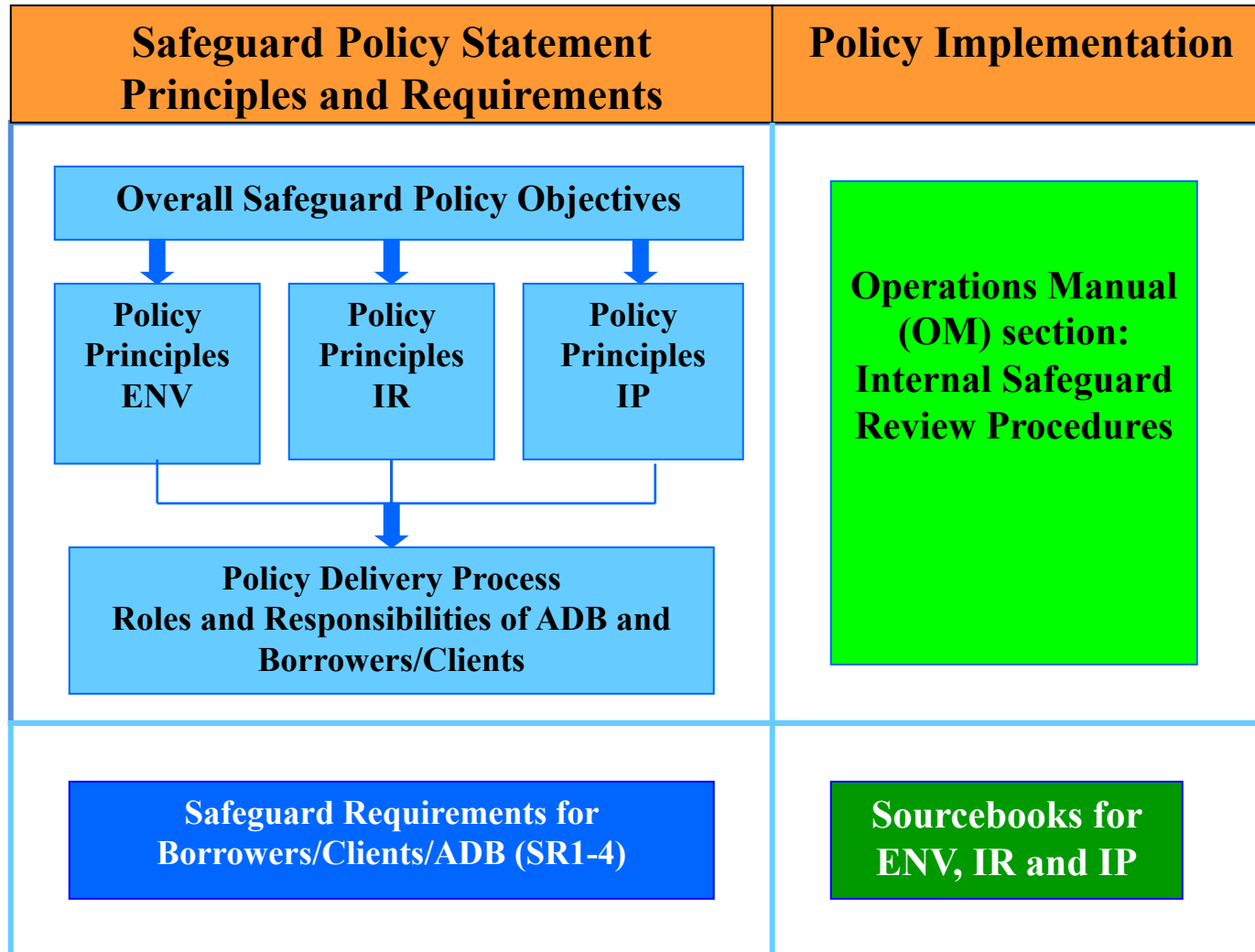


Developing Asia needs **\$1.7 trillion per year**, for infrastructure investment in 2016-2030

Without **climate change mitigation and adaptation**, the needs are \$22.5 trillion, or **\$1.5 trillion per year**

These are **more than double** ADB 2009 estimates

ADB Safeguard Policy Statement





what's needed.....?

Doing things differently & Business unusual

Money

Projects
Programs

Technology

**INSTITUTIONAL
PERFORMANCE
ENHANCEMENT**

Policies
Laws

Know-how
Vision - Leadership

Institutions
Incentives - Enablers

Financial
instruments



Planning & Implementation
discipline

ADB places high value on local, on the ground knowledge, and believes that it is you, our local partners, who can construct the most practical solutions. Together we can play complimentary roles to find sustainable solutions with the most lasting impacts on our planet.



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