Implementing Solutions to Air Pollution and Climate Change in Asia:

Building Capacities, Strengthening Policies, and Financing Technologies

Framing Presentation

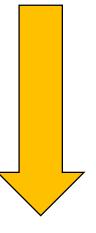
Eric Zusman Research Director Institute for Global Environmental Strategies (IGES)



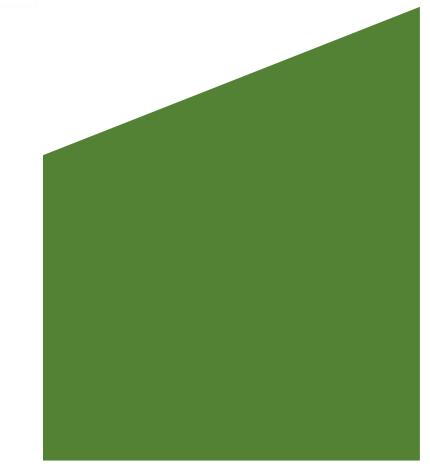
Diffusion and Scaling

Pilot & Prototype

Idea Generation



- 1. Lack of Finance
- 2. Fragmented Policy
- 3. Limited Capacity



Asian Co-benefits Partnership

- Launched at BAQ conference in 2010
- to enable a variety stakeholders to work together on co-benefits
- to support the mainstreaming of co-benefits into decision-making processes in Asia

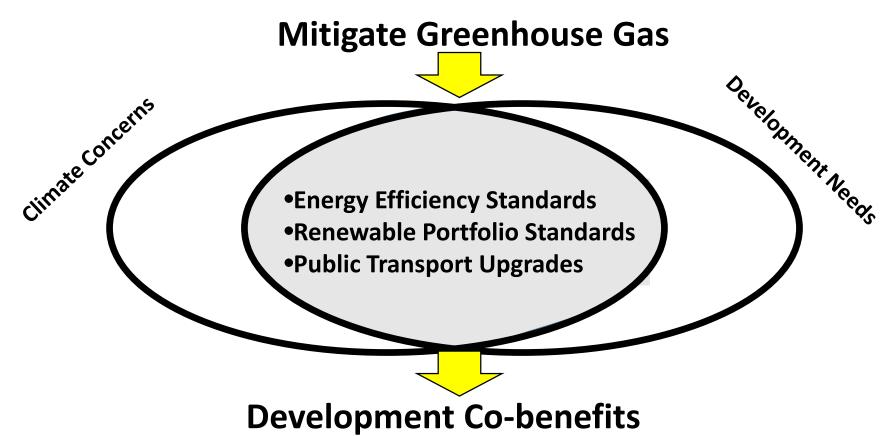
www.cobenefit.org



Major Functions of ACP

- Information sharing and knowledge management
- Enhanced communication among ACP members
- Support for co-benefits policies and projects in Asia
- Strengthening of regional cooperation to promote co-benefits

Interest in co-benefits focused on GHGs and other development benefits



Economic	Environmental	Social
•Cleaner Technologies •Faster Commutes	•Improved Air Quality •Reduced Waste	•Greater Energy Access •Enhanced Mobility

Interest in co-benefits has grown considerably over the past 10 years

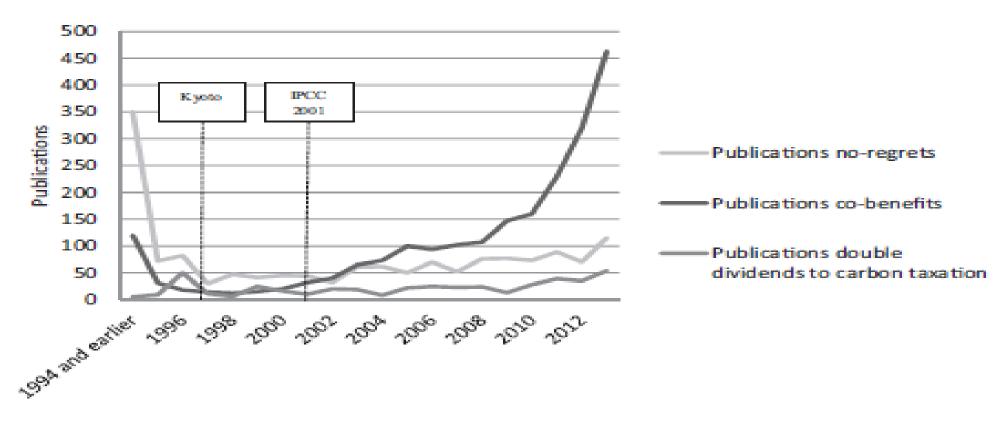
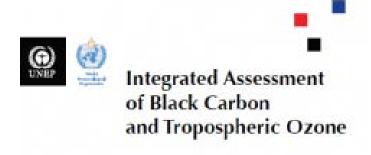
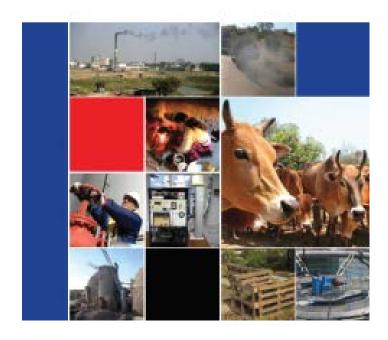


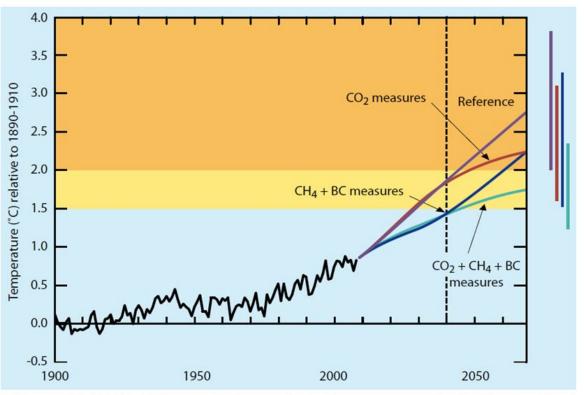
Fig. 2. Publications using co-benefits and related concept in the ScienceDirect database.

New air pollution perspectives on co-benefits also emerge over the past decade



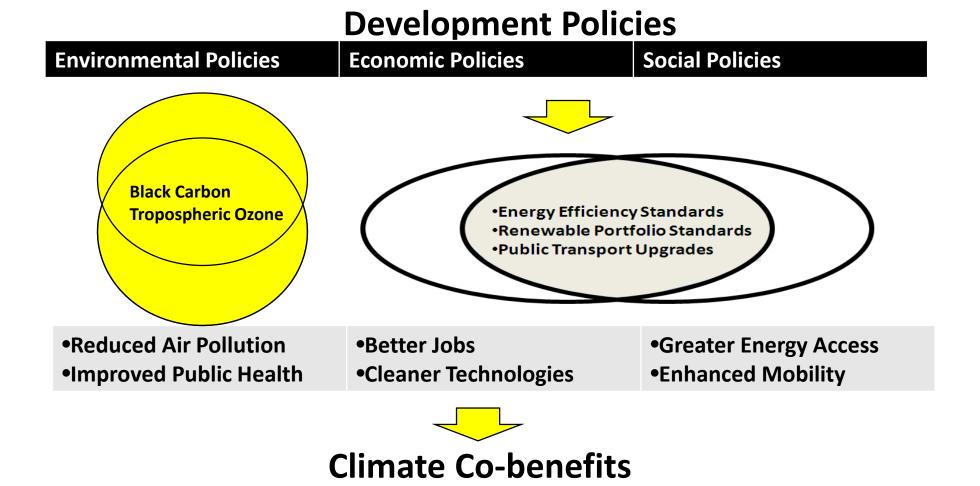


Temperature evolution for the scenarios

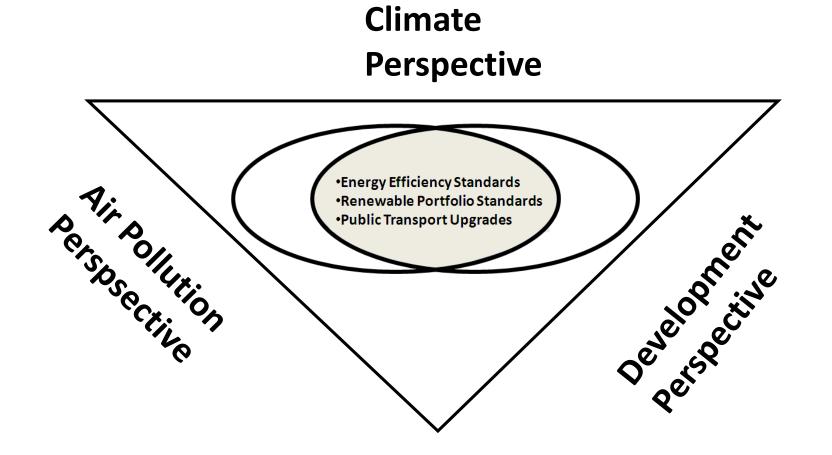


UNEP and WMO 2011 – Integrated Assessment of Black Carbon and Tropospheric Ozone: Summary for Decision Makers.

Newer Perspectives on Co-benefits

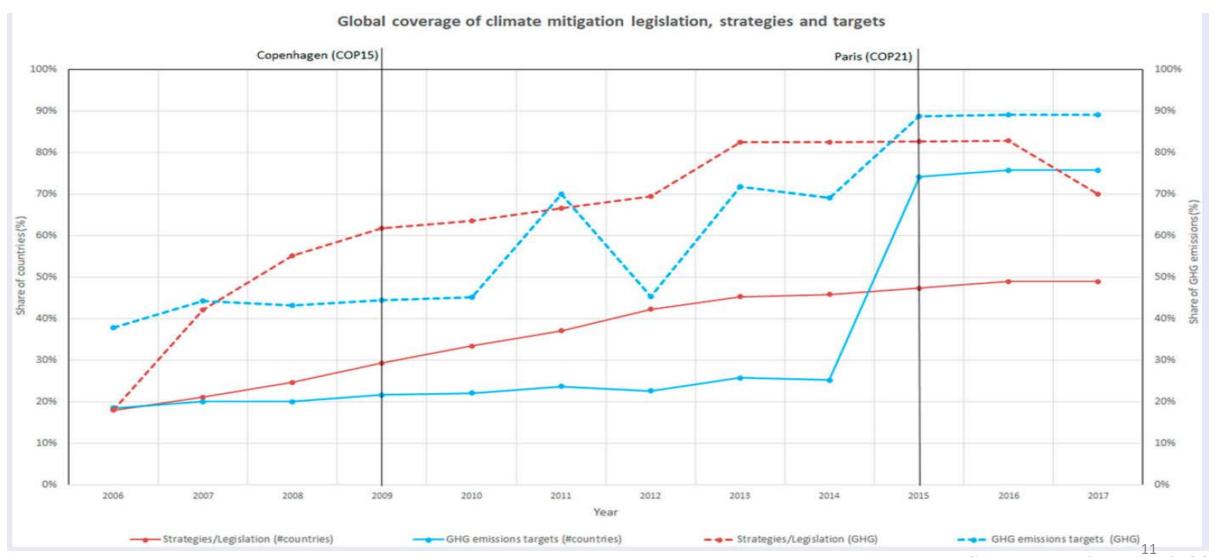


Viewing co-benefits from other perspectives can also enhance the usefulness of the concept





Increased Coverage of Climate Policies Have Also Added Interest



Source: Iacobuta et al. 2018

Recent report helped unify views on co-benefits: Air Pollution in Asia

and the Pacific: Science-Based Solutions

Three main chapters:

1. Why decisive action is needed to combat air pollution in Asia and the Pacific

- 2. Scenarios & Solutions (GAINS)
- 3. Closing the implementation gap: bringing clean air to the region
 - English

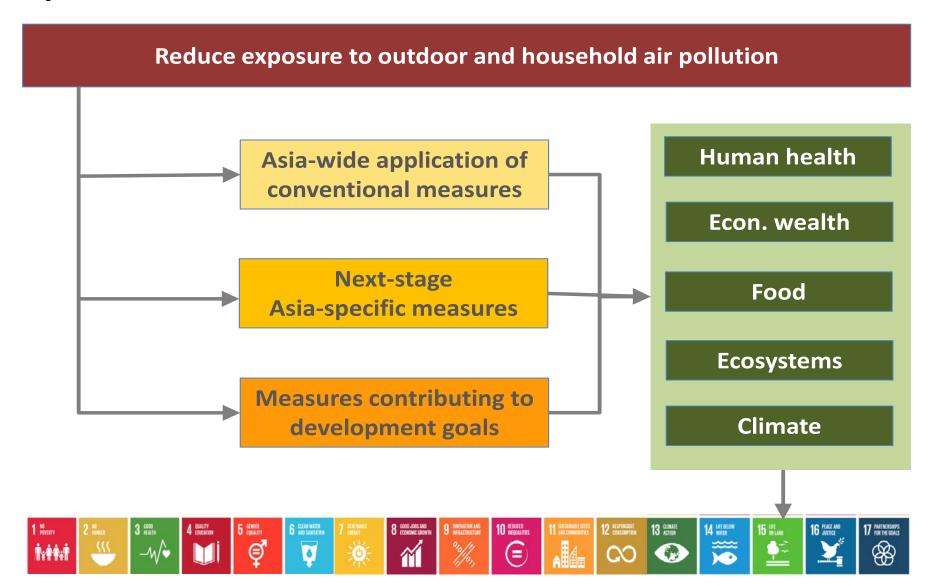
https://www.unenvironment.org/asia-and-pacific/asia-pacific-clean-air-partnership/25-clean-air-measures

Japanese



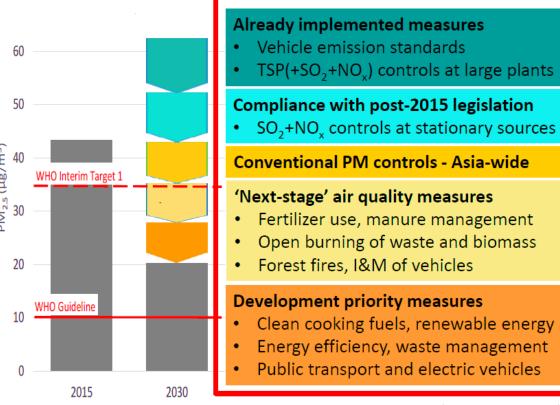
CE-BASED SOLU

Conceptual Framework



25 Clean Air Measures by UNEP in 2019

Potential Contributions of the Measures to Population-weighted mean exposure to PM_{2.5}





(Source: IIASA 2019)

The solutions report identified in the report fall into three main categories

ASIA-WIDE APPLICATION
OF CONVENTIONAL
MEASURES

NEXT GENERATION AIR
QUALITY MEASURES THAT
ARE NOT YET MAJOR
COMPONENTS OF CLEAN
AIR POLICIES

MEASURES WHICH
CONTRIBUTE TO
DEVELOPMENT PRIORITIES
WITH AIR QUALITY
BENEFITS

Looking for the measures that lead to the largest reduction in the population exposed to PM2.5 plus methane measures which will reduce tropospheric ozone and HFCs which reduce near-term warming

Key question: how can these solutions be implemented in Asia?

ASIA-WIDE APPLICATION
OF CONVENTIONAL
MEASURES

NEXT GENERATION AIR
QUALITY MEASURES THAT
ARE NOT YET MAJOR
COMPONENTS OF CLEAN
AIR POLICIES

MEASURES WHICH
CONTRIBUTE TO
DEVELOPMENT PRIORITIES
WITH AIR QUALITY
BENEFITS

Financing Technologies

Implementing Solutions

Strengthening Policies

Building Capacity

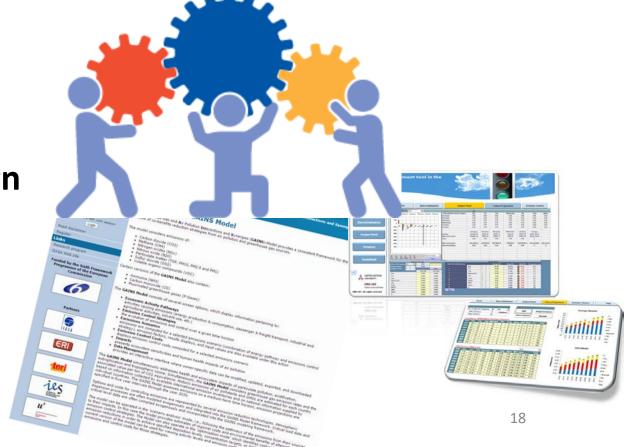


Building Capacity

 Audience: Policymakers, international organizations, and private sector

• Evidence-based assessment tools

Institutional and organizational design



Financing Technologies

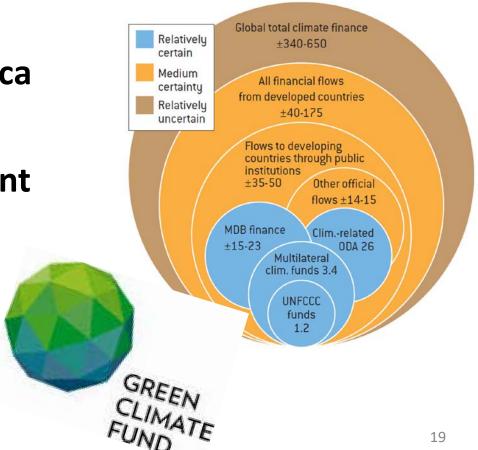
Climate finance: Green Climate Fund; JCM

• Development assistance: ADB; JICA; Koica

National accounts and private investment

Blended finance





Strengthening Policies

• Multi-Solutions Strategies

Enabling Policies

Co-production and Policy Learning

