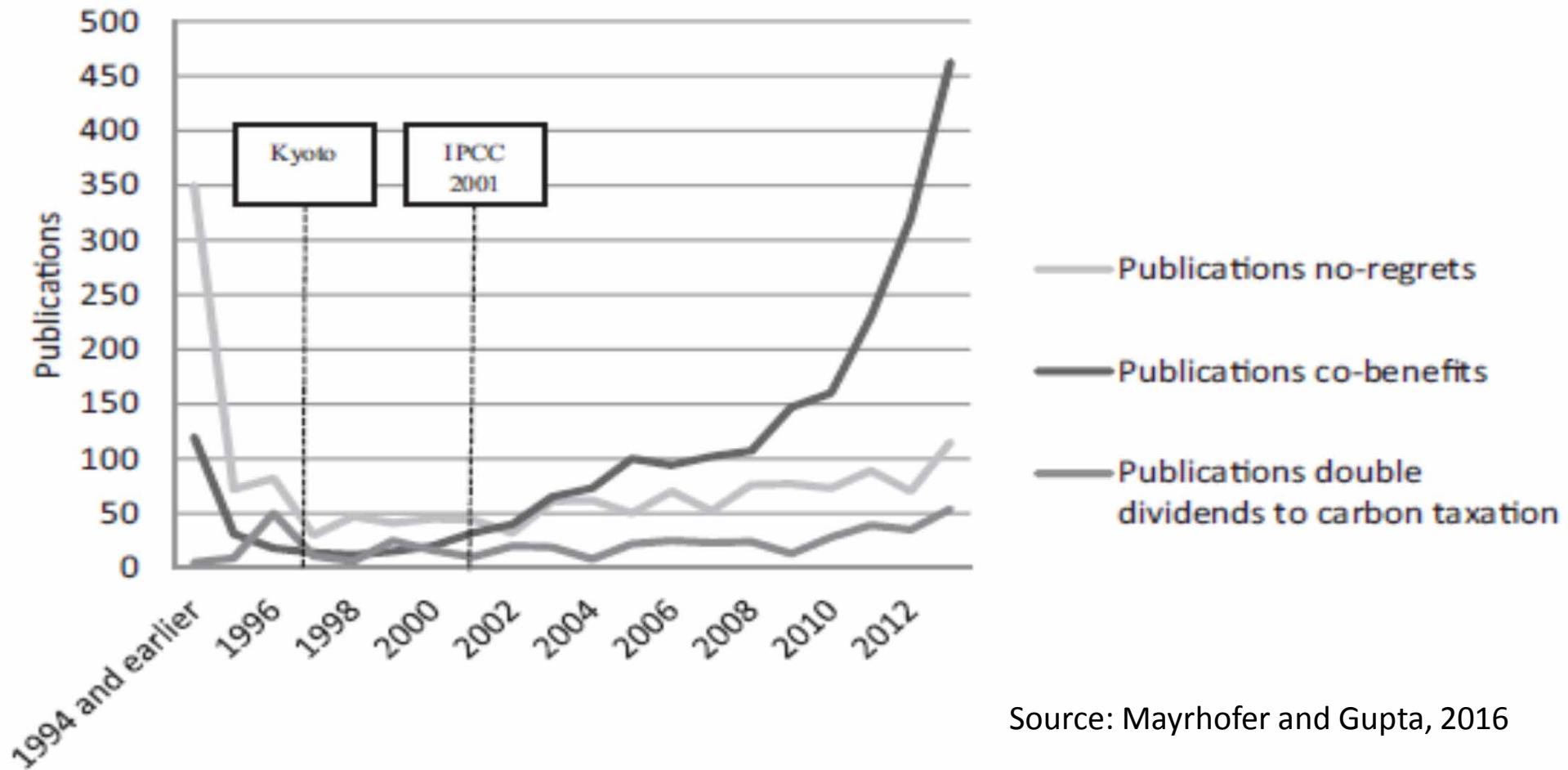


## The Co-benefits from Mitigating Climate Change and Air Pollution in Asia: From Quantification to Demonstration

**Eric Zusman**  
Institute for Global Environmental Strategies(IGES)/  
Asian Co-benefits Partnership

# Growing interest in co-benefits over past decade



Source: Mayrhofer and Gupta, 2016

# Starting point

- Early research on co-benefits: emphasized quantification
- Growing efforts to integrate that research into governance processes; this is critical for Asia
- Also seeing efforts to bring governance processes into research on co-benefits; this is also critical for Asia
- Bringing co-benefits into governance and vice versa can also help achieve achieve  
SDGs

# Asian Co-benefits Partnership (ACP)

## Launched in 2010

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

## Major Functions

- Information sharing and knowledge management
- Enhanced communication among ACP members
- Awareness raising on co-benefits in policies and projects
- Strengthening of regional cooperation to promote co-benefits

[www.cobenefit.org](http://www.cobenefit.org)

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**ACP** ASIAN Co-benefits Partnership

## Asian Co-benefits Partnership

**Bringing Climate and Development Together in Asia**

The Asian Co-benefits Partnership is an informal and interactive platform to facilitate information sharing and stakeholder dialogue on co-benefits in Asia.

### What's New?

- NEW** ACP White Paper 2016 - Putting Co-benefits into Practice: Case Studies from Asia
- NEW** The Co-benefits Corner Newsletter Vol.7 2016
- NEW** The Co-benefits Corner Newsletter Vol.5 2016
- NEW** The Co-benefits Corner Newsletter Vol.5 2015
- NEW** 6th Advisory Group Meeting

ACP released the first White Paper: Bringing Development and Climate Together in Asia

Good Practice Map : Case Studies from Asia

### About

- About the ACP
- Goals
- Major Functions
- Governance
- How to Become a Partner

### Activities

### Partners

### Join ACP

### Publications & Tools

- Newsletters
- Factsheets
- White Papers
- Reports
- Tools
- Co-benefits toolkit
- Other Publications Related to Co-benefits
- Work Plan
- Conference Proceedings
- Brochures & Flyers

### Contact us

Asian Co-benefits Partnership (ACP) secretariat  
The Institute for Global Environmental Strategies (IGES)  
2105-11 Kamiyamaguochi, Hayama, Kanagawa, Japan  
Tel: [+81-46-855-3815](tel:+81-46-855-3815) / Fax: [+81-46-855-3809](tel:+81-46-855-3809)  
email: [acp@iges.or.jp](mailto:acp@iges.or.jp)

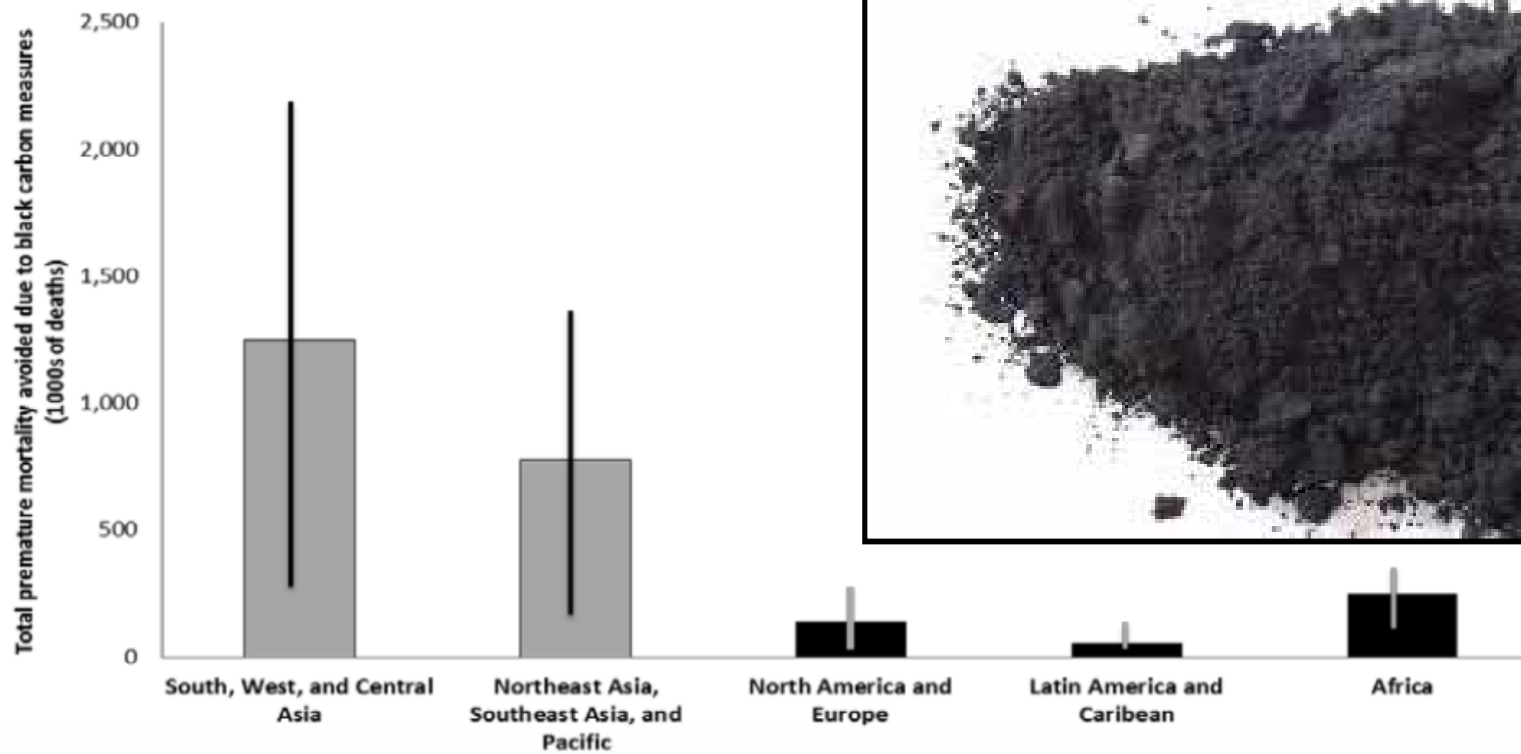
About this site Site map  The Asian Co-benefits Partnership (ACP) website is hosted and maintained by the Institute for Global Environmental Strategies (IGES) under the initiative of the Ministry of the Environment, Japan.

## ACP White Paper I: Unifying Different Views on Co-benefits

- **Governments in Asia should make co-benefits a core element of**
  - low carbon strategies;
  - air pollution policies; and
  - sector-specific plans.
- **to maximize cost-effectiveness.**
- **Development agencies should make co-benefits part of the evaluation criteria for financing low carbon, air pollution, and sector-specific projects in Asia.**



[http://www.cobenefit.org/publications/images/ACPwhitepaper\\_FY2013.pdf](http://www.cobenefit.org/publications/images/ACPwhitepaper_FY2013.pdf)

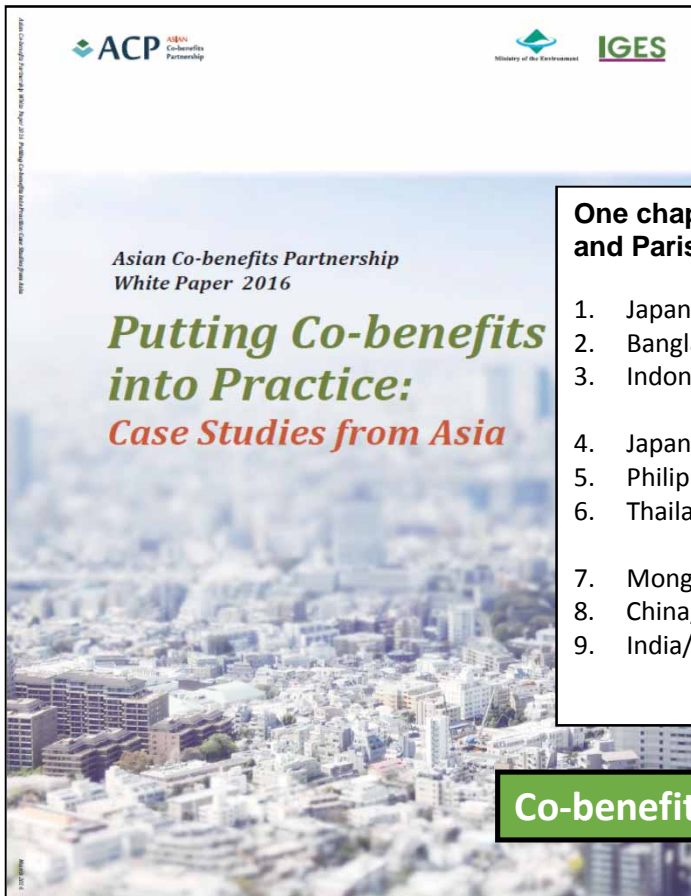


**Figure 1: Estimated Benefits in Avoided Premature Mortality for Black Carbon Measures by Region**

Source: Based on data from UNEP 2011

*Note: The black lines represent the range of uncertainty around the estimated benefits.*

# ACP White Paper II: Case Studies from Asia



**One chapter on links between co-benefits and Paris Agreement/SDGs.**

1. Japan/Waste Management in Kawasaki
2. Bangladesh/Waste Management in Dhaka
3. Indonesia/Palm Industry
4. Japan/Compact City in Toyama
5. Philippines/Bike Sharing Manila
6. Thailand/Transport NAMA
7. Mongolia/Industrial Boilers
8. China/Heat to Energy in Chongqing
9. India/Urban Energy Delhi

**Co-benefits White Paper**





# Air pollution big problem in Bandung

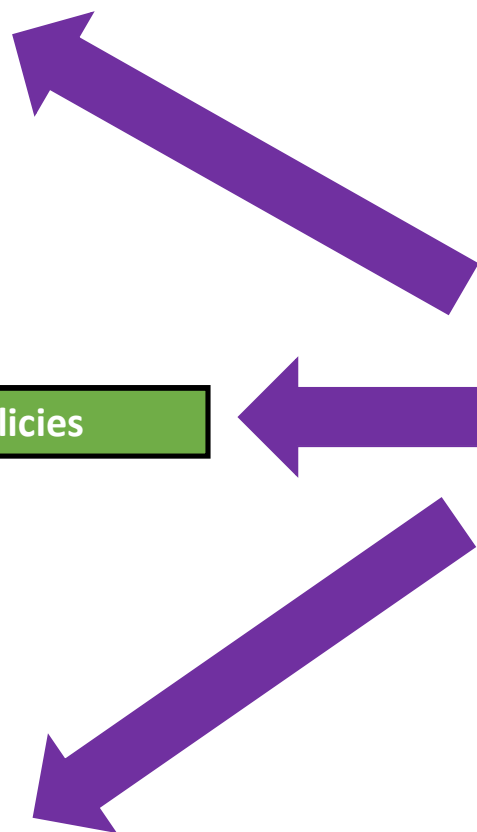




## Working with significant change in multiple pollutants

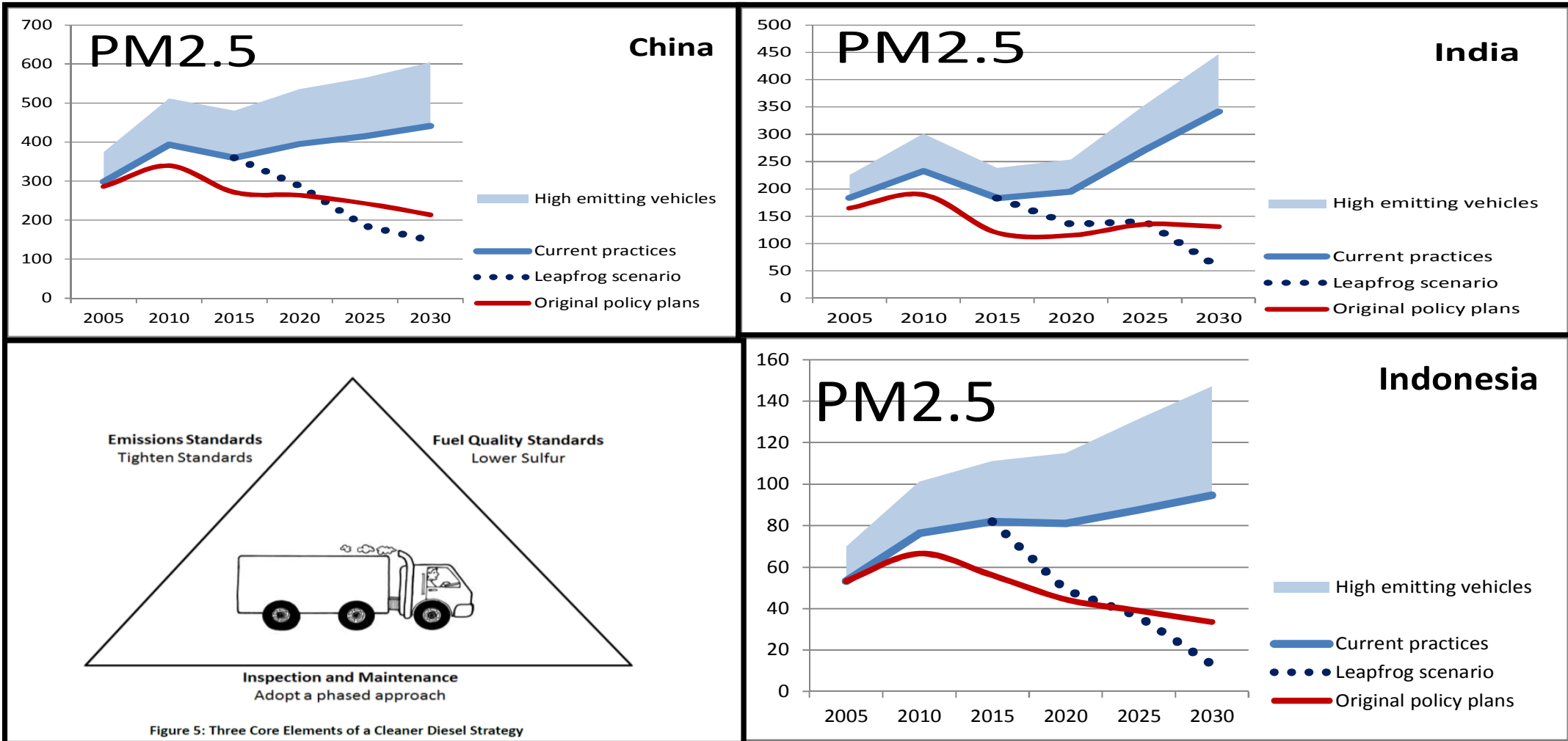
Species	Base case	Eco-driving		Scenario 2		Scenario 3	
	Emission (Gg/yr)	Emission (Gg/yr)	Reduction (%)	Emission (Gg/yr)	Reduction (%)	Emission (Gg/yr)	Reduction (%)
CO	173.14	145.33	16.06%	171.02	1.22%	168.68	2.58%
VOC	34.00	32.87	3.31%	33.57	1.25%	33.49	1.48%
NO <sub>x</sub>	20.59	16.30	20.85%	20.42	0.81%	20.10	2.35%
SO <sub>2</sub>	0.33	0.30	10.71%	0.33	1.62%	0.33	1.57%
PM	2.73	2.40	12.13%	2.73	0.24%	2.73	0.23%
BC	0.88	0.76	12.91%	0.88	0.16%	0.88	0.17%
OC	1.36	1.21	11.06%	1.36	0.34%	1.36	0.32%
CO <sub>2</sub>	3315	2966	10.54%	3281	1.04%	3271	1.34%
N <sub>2</sub> O	0.07	0.06	11.00%	0.07	0.83%	0.07	0.74%
CH <sub>4</sub>	5.02	4.79	4.70%	4.97	1.19%	4.92	1.99%
Air toxics	5.13	5.02	2.06%	5.08	1.00%	5.08	1.04%

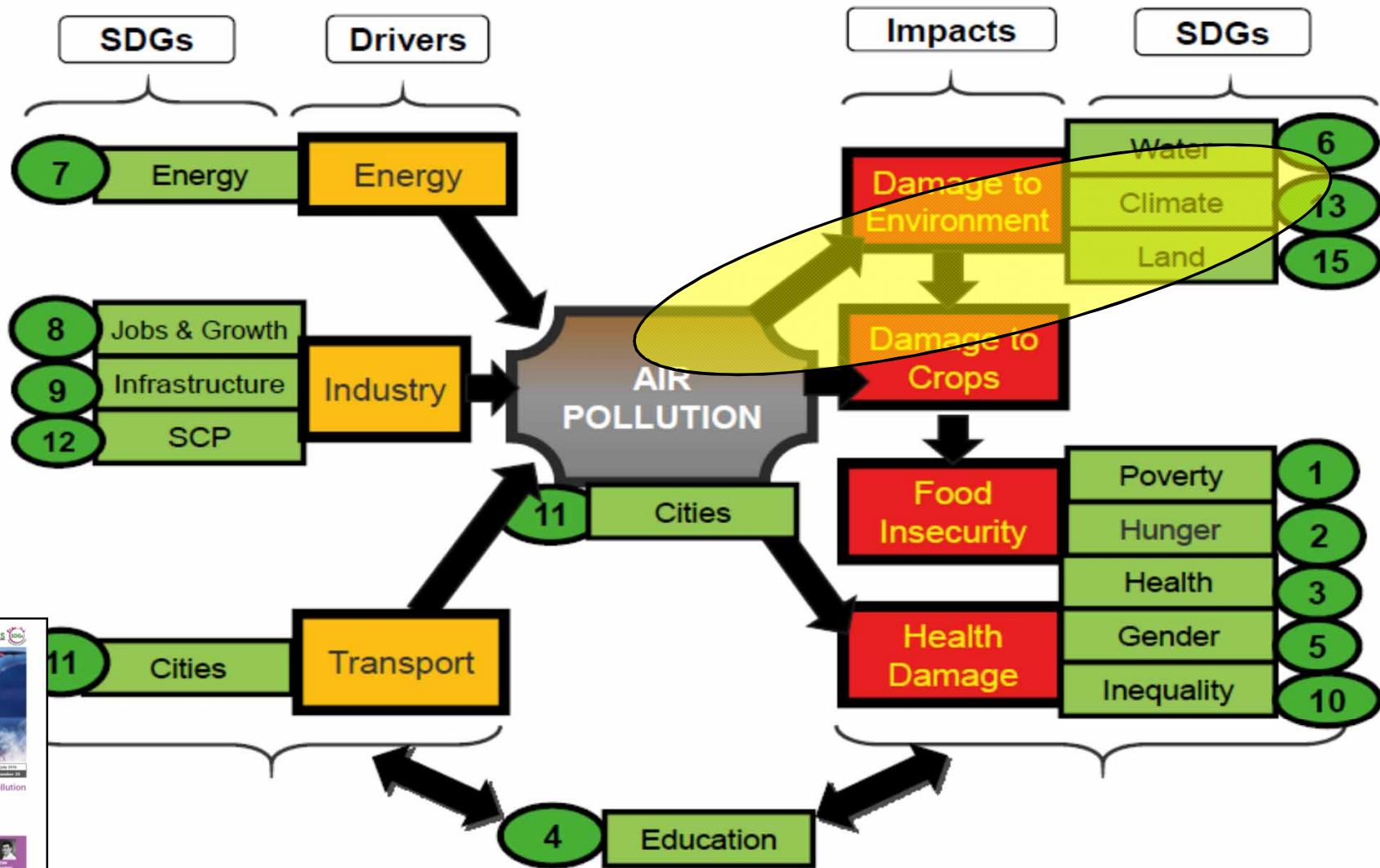
# Empowering Women to Earn Climate Finance from *Mitigation* Plans in Southeast Asia



It often helps to work at multiple levels to scale work on co-benefits

## The Case of Diesel in Asia: Governance Challenges Can Delay or Weaken Implementation





**Figure 1** Relation of SDGs to Air Pollution's Drivers and Impacts

