

# CAI-Asia: Activities on Co-benefits (AQ and Climate Change)



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**CAI-Asia Center**

Seminar on Co-benefits Approach: Emerging Trends and Needs

11-12 March 2010



# GHG and air pollutants emitted together from common anthropogenic sources



# Air pollutants and climate change interacting effects

GLOBAL CLIMATE CHANGE

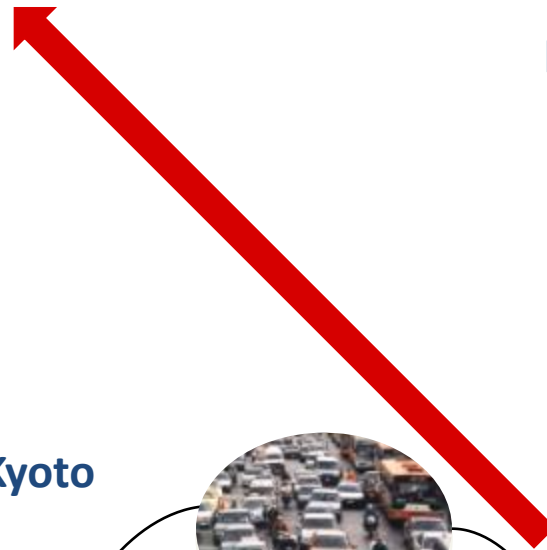
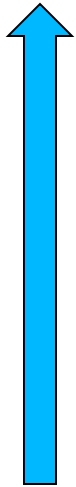
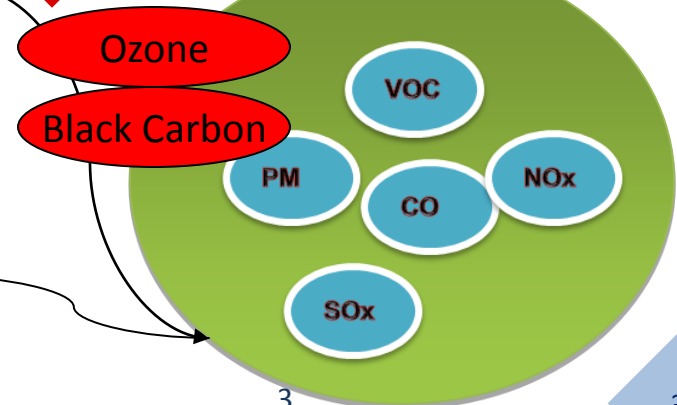
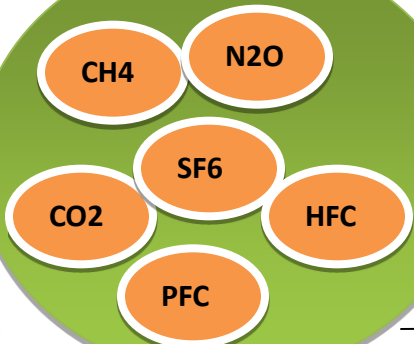
GLOBAL AIR POLLUTION

REGIONAL AIR POLLUTION

URBAN AIR POLLUTION

Greenhouse gases covered by Kyoto Protocol

Air Pollutants



## Other Reasons

- Shared solutions –e.g. energy efficiency, sustainable transport
- Institutional capacity and financial limitations both for air quality management and climate change mitigation.

# Clean Air Initiative – a new mission

**The Clean Air Initiative for Asian Cities** promotes better air quality and livable cities by translating knowledge to policies and actions that reduce air pollution and greenhouse gas emissions in transport, energy and other sectors



**CAI-Asia** began in 2001 as a multi-stakeholder initiative by ADB, World Bank and USAID

Since 2007, CAI-Asia is a **UN Type-II Partnership** with over 170 organizational members, **8 Country Networks**, and the **CAI-Asia Center** as its secretariat (a non-profit organization)



# Advancing co-benefits

1. Combined assessment and measurement tools
2. Integrated climate change and air pollution plans and policies
3. Alignment of institutional responsibilities for climate change mitigation and air quality management
4. Balanced consideration of donors and foundations for global benefits such CO<sub>2</sub> reduction and local objectives such as air pollution reduction, energy efficiency and sustainable transport

# 1. Combined assessment and measurement tools

- Clean Air Scorecard
- Integrated GHG/AP accounting tools for companies
- Transport Emissions Visioning-Backcasting model
- GHG/AP Indicators for Transport and Energy sectors

# Clean Air Scorecard

Assess current air quality and GHG management and develop plan to improve



- **Air Pollution and Health Index** – rating air pollution levels of cities against WHO guideline values and interim targets
- **Capacity Index** – rating a city's capacity to determine sources, levels and impacts and capacity to address air pollution and GHG emissions
- **Policies and Actions Index** – rating the presence and enforcement of policies and actions to address emissions from relevant sources (mobile, stationary, area and trans-boundary)

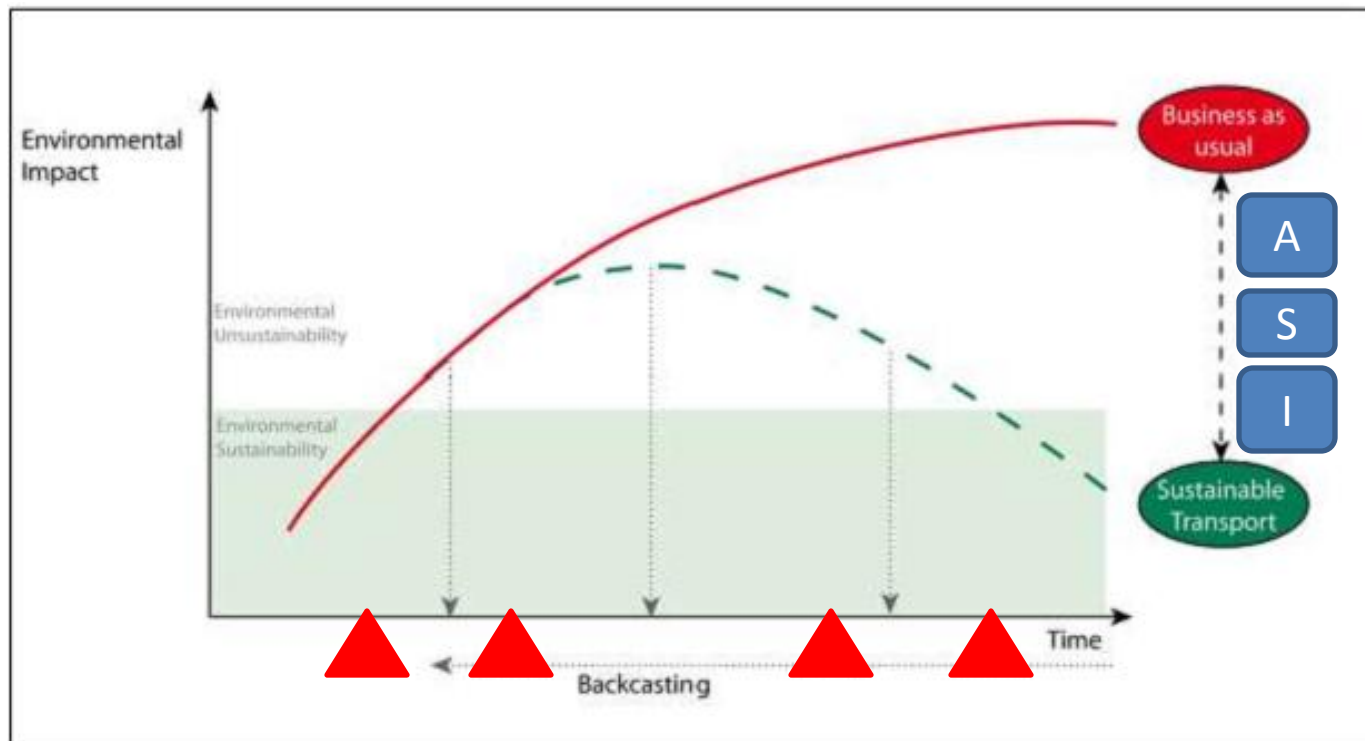
# Integrated GHG/AP Accounting Tool for Companies

- Based on World Resources Institute (WRI)-World Business Council for Sustainable Development (WBCSD)'s GHG Protocol
- Includes PM, SO<sub>2</sub>, NO<sub>x</sub>, VOC in addition to CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O
- Implemented/Ongoing for Philippine Companies
  - Brewery (San Miguel Corporation – San Fernando Brewery)
  - Water Utility (Maynilad Water)
  - Refinery (Petron Bataan Refinery)
- Partnered with Philippine Business for Environment (PBE) – the Secretariat of the Philippine Chapter of WBCSD
- Meeting in Washington March 2010 to include Integrated GHG/AP Tool as one of GHG Protocol tools
- Promoting for use in other countries – e.g. Thailand



# Visioning-backcasting Framework for Transport

Objective: Provide an alternative methodology to traditional forecasting techniques that identifies future, desirable, scenario(s) and traces pathways of in implementing various policies and measures to achieve this desirable future



- A – avoid or reduce un-necessary travel
- S – shift or retain mode share of cleaner and carbon efficient modes
- I – improve energy/carbon efficiency of motorized vehicles

# GHG and AP Indicators for Transport & Energy Sectors

Objective: GHG and local air pollutant indicators from transport and energy sectors are derived and compared/benchmarked for 13 Asian countries

- Determine input parameters for the transport and energy (power generation) sectors, design sustainable process of collecting and future updating
- Collect data and derive GHG and local air pollutant indicators
- Compare/benchmark for 13 Asian countries and 25 cities
- Make data readily available on Clean Air Portal

## 2 Integrated Plans and Policies

### 3 Alignment of Institutions

- Make Co-Benefits Work Project in China
- CAI-Asia activities in relation to SLOCAT
- Clean Air Network in COP 15
- Clean Air in Mega-Events website
  - Blue Skies Shanghai Expo 2010 and Beyond
  - Commonwealth Games 2010

# Make Co-benefits Work: Chinese City Workshops 2010 and Application in 2 Chinese Cities

## Objective:

To help CAI-Asia China network member cities understand how to integrate plans and identify policies and measures for air quality management and GHG emission reduction using the co-benefits approach.

Background: MEP focusing on co-benefits or co-control approach but cities have little experience or knowledge on how to integrate climate change into their air quality plans or on how to link their air quality measures to climate change mitigation.

Partners - CAI-Asia Center, ClimateWorks, and China Sustainable Energy Project (CSEP)



## 4. Balanced consideration for global CO2 reduction and local development objectives



### BAQ 2010 - “Air Quality in a Changing Climate”

[For information, email BAQ2010@cai-asia.org](mailto:BAQ2010@cai-asia.org)



# Continued – Air Quality and Co-benefits discussions

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To participate, you must be a registered member of the Clean Air Portal and also a member of any of our Communities of Practice. (Need assistance? Here's [how to join](#))

Communities	Topics	Replies	Last Post
<a href="#">Air Quality and Co-Benefits Discussions</a>	3	16	1000 Asian cities with PM10 data By may 04 Mar 2010
<a href="#">Sustainable Transport Discussions</a>	7	10	Pedestrian Budget? By Sudhir Gota 08 Mar 2010

**NEWS**

- Special Edition: "Un\*Sustainable Urban Mobility in Asia News Digest
- Indonesia E-newsletter
- Partnership for Clean Air (PCA) Newsletter
- Clean Air Network Nepal Newsletter
- Clean Air Sri Lanka Newsletter

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**EVENTS**

- Velo-City Global 2010  
22-25 Jun 2010 (Copenhagen, Denmark)
- UNEP / CAI-Asia Regional Clean Fleet management Toolkit Training  
11-13 May 2010 (Dubai, United Arab Emirates)
- The Energy Efficiency Global Forum and Exposition – EE Global 2010  
10-12 May 2010 (Washington DC, USA)
- 2nd Annual Integrated Urban Transportation Network Congress 2010  
22-23 Apr 2010 (Shanghai, China)
- Pakistan National Workshop on Clean Fuels and Vehicles  
13-14 Apr 2010 (Islamabad, Pakistan)

| 1 of 76 | >> | [View More](#)

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The Clean Air Portal was developed by the CAI-Asia Center with support from the Asian Development Bank through the Japan Special Fund together with CAI-Asia Partnership members.



# CAI-Asia Center

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



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