



Air Quality, Climate Change and Transport in Asian Cities

May Ajero

Air Quality Program Manager

Clean Air Initiative for Asian Cities (CAI-Asia)

3rd High Level Seminar on Environmentally Sustainable Cities

Siem Reap, Cambodia

6-8 March 2012





About CAI-Asia: Who we are

www.cleanairinitiative.org

CAI-Asia promotes **better air quality and livable cities** by translating knowledge to policies and actions that reduce **air pollution and greenhouse gas emissions** from transport, energy and other sectors.



CAI-Asia was established as the **premier air quality network for Asia** by the Asian Development Bank, **World Bank** and USAID in 2001, and operates since 2007 as an independent non-profit organization.

CAI-Asia us a **UN recognized Partnership** with more than 230 organizational members and **8 Country Networks**



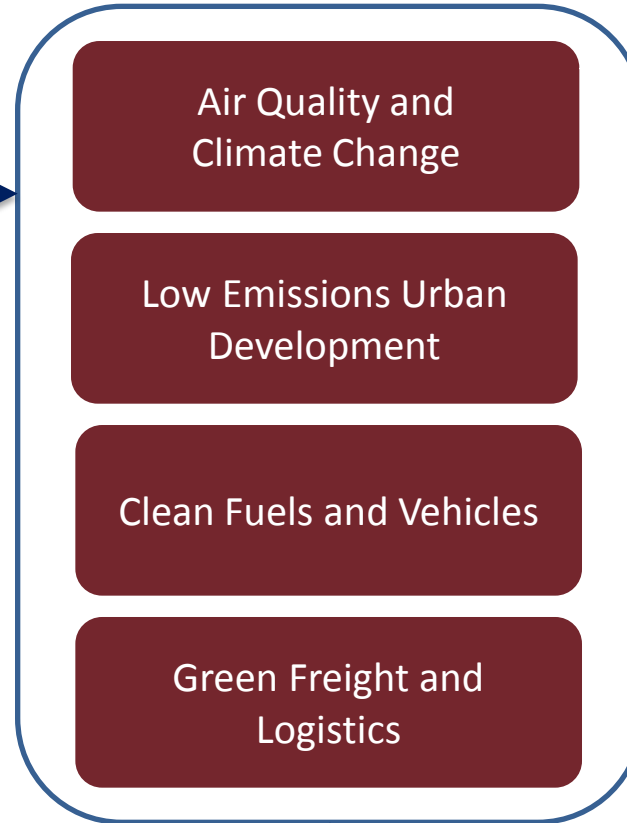
About CAI-Asia: How we work

www.cleanairinitiative.org

What we do

- Knowledge & Data
- Tools & Assessments
- Policy & Program Support
- Networking & Partnerships

CAI-Asia Programs



Air Quality and
Climate Change

Low Emissions Urban
Development

Clean Fuels and Vehicles

Green Freight and
Logistics

What we aim for

Reduced air pollution
and greenhouse gas
emissions

Improved health
Energy savings
Livable cities

Input from partners

Air Quality Management



- Clean Air Management Assessment Tool (Clean Air Scorecard)
- City Clean Air Reports
- City Clean Air Action Plans
- Air Quality Monitoring System Assessment



Tools for Estimating Emissions



- Transport Emissions Evaluation Models for Projects (TEEMP) Tool
- Rapid Assessment of City Emissions (RACE) Tool for
- AP and GHG Calculation Tools for Transport (Road)
- AP and GHG Calculation Tools for Energy (Electricity)
- Data and Emissions Factors – CitiesACT.org



Scenarios for ENERGY USE

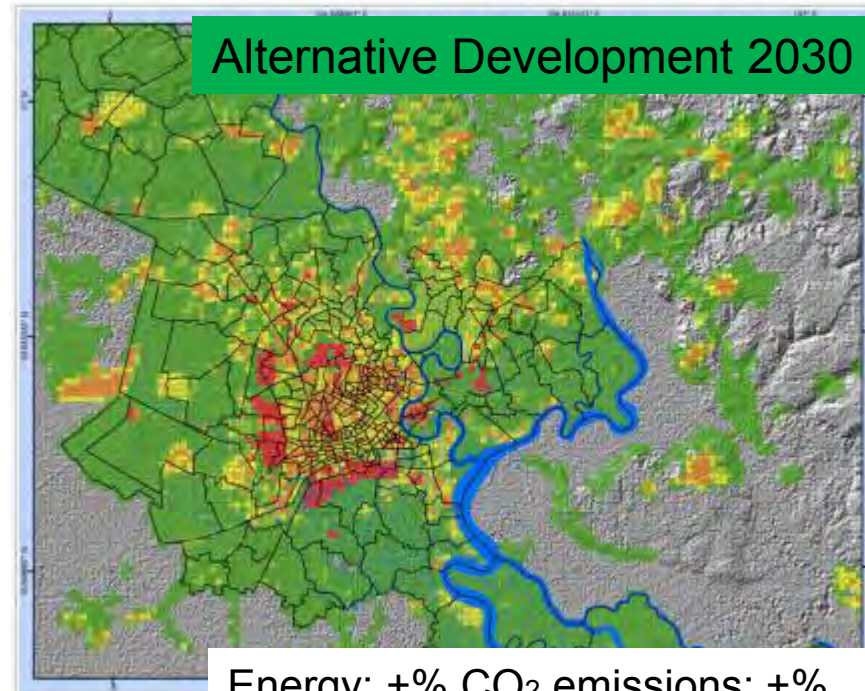
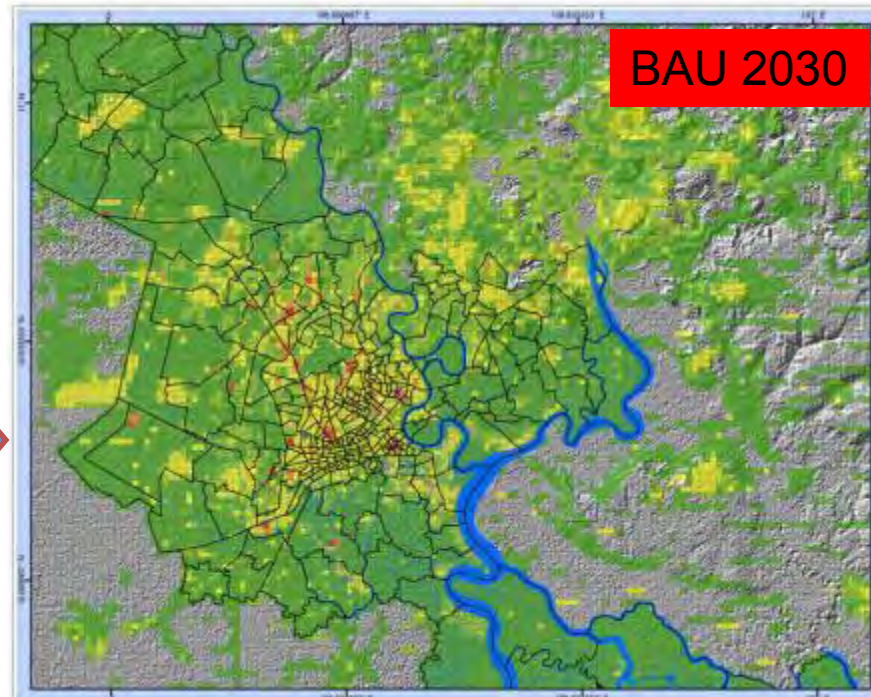
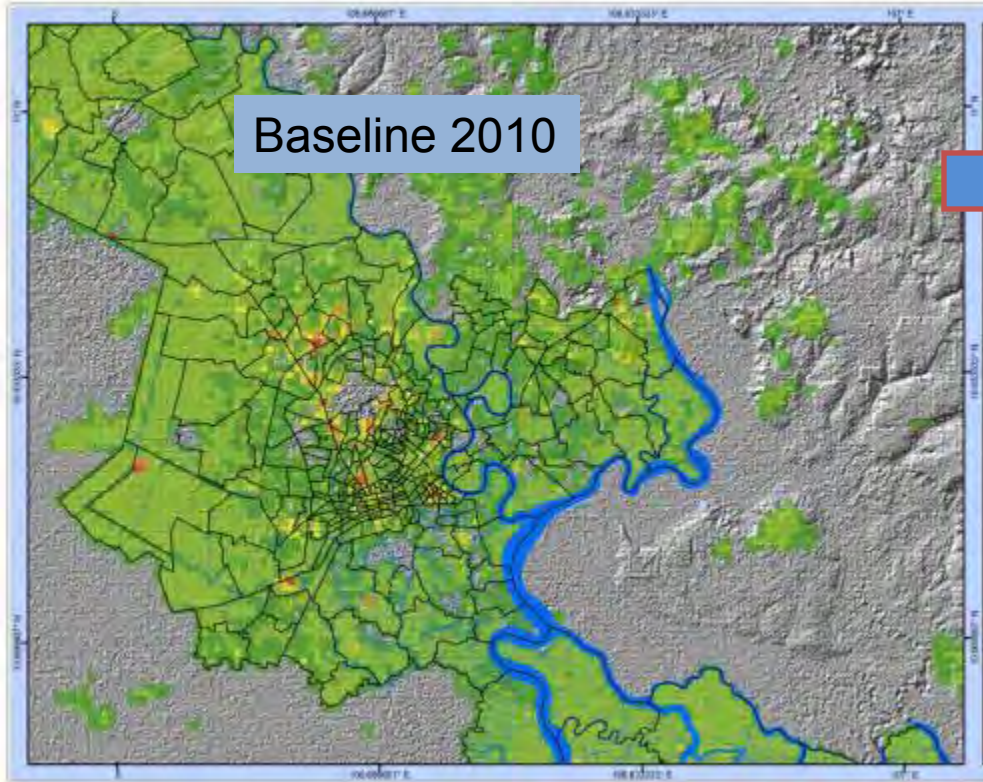
Baseline 2010

BAU 2030

Alternative Development 2030

Energy transport: 1.3 million TOE
Electricity: 15 million MWh
CO₂ emissions transport: 4.3 million tons
CO₂ emissions electricity: 6.1 million tons

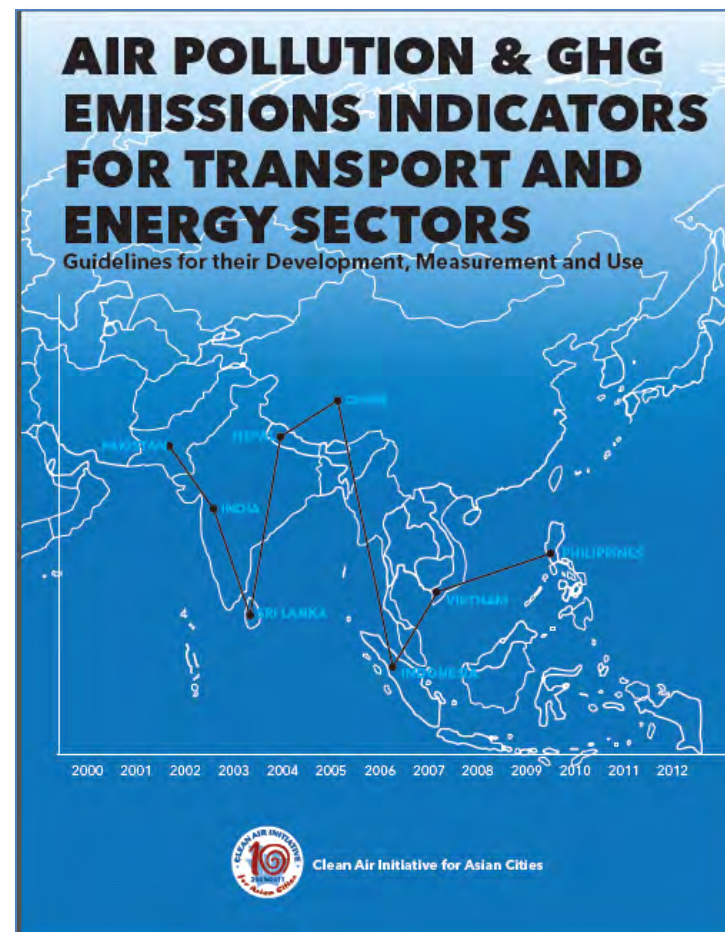
Energy: +% CO₂ emissions: +%



Guidelines for AP and GHG Data Indicators



- Introduction
- AP/GHG Indicators and input parameters selection
 - 24 transport indicators
 - 21 energy indicators
- Guidelines for Generation, interpretation and analysis of indicators
- Annexes
 - Indicator initiatives of international organizations
 - Default values for transport and energy input parameters



Other Tools - Walkability



<http://www.cleanairinitiative.org/portal/node/1470>





Clean Air Portal

www.cleanairinitiative.org

Clean Air Portal with organizations, projects, policies, news, publications, tools, and events relevant to air quality, climate change, energy and transport



CitiesACT database on air quality levels, CO₂ emissions, transport and energy data and indicators for 250 Asian cities and 22 countries. Users can search by location, topic, and create online charts and figures



Clean Air at Mega-Events website with information of past, present and future mega-events to guide future host cities on measures and strategies to improve clean air management in their cities

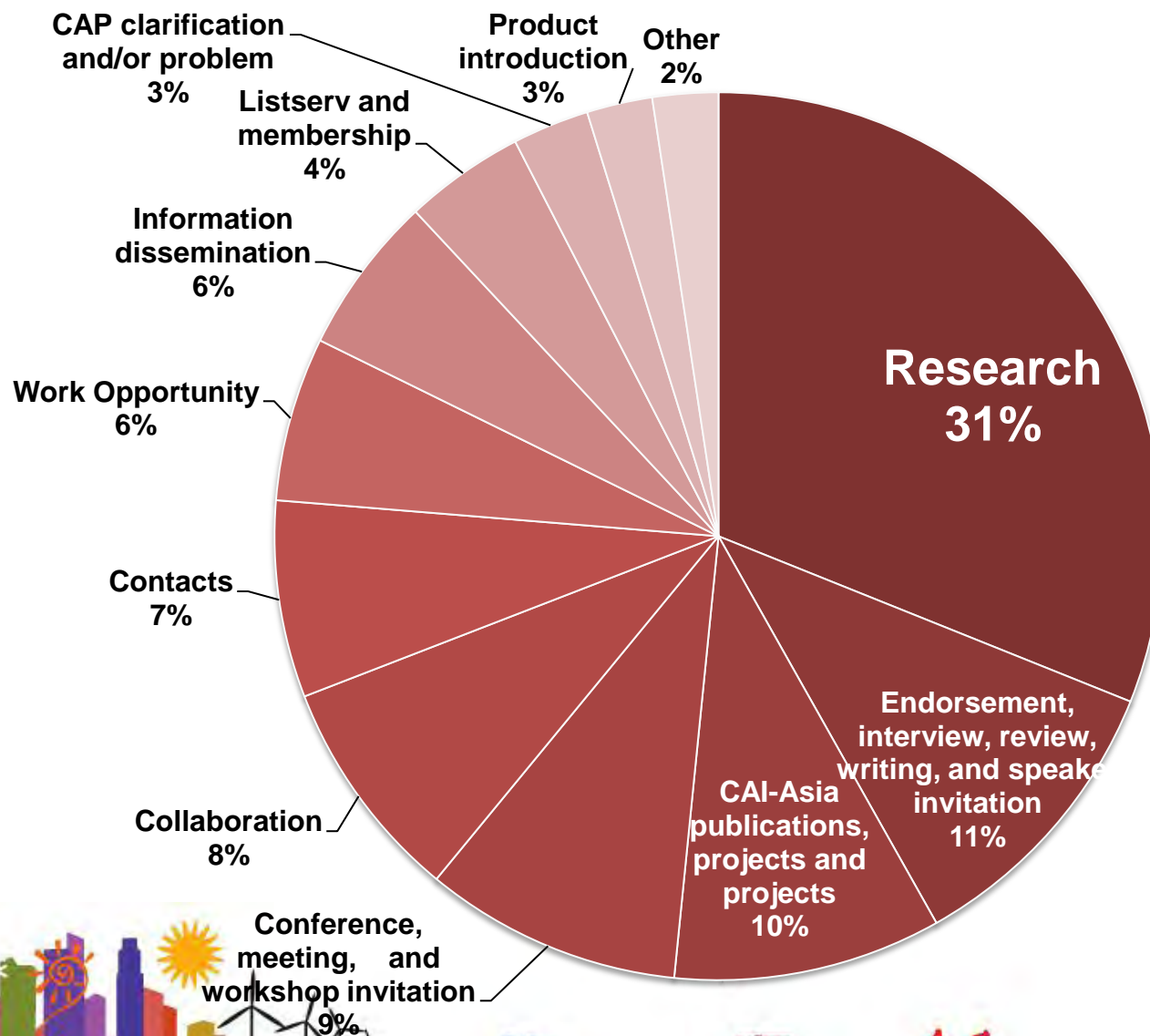


Green Freight and Logistics website

with information on policies and programs, technologies and logistics, and data relevant to the freight sector



CAI-Asia Helpdesk



Better Air Quality Conference 2012



GROWING CITIES, HEALTHY CITIES



For more information



www.cleanairinitiative.org

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CAI-Asia Country Networks

China • India • Indonesia • Nepal • Pakistan • Philippines • Sri Lanka • Vietnam

CAI-Asia Center Members



CORNING

231 CAI-Asia Partnership Members

- 45 Cities
- 19 Environment ministries
- 13 Other Government agencies
- 17 Development agencies and foundation
- 66 NGOs
- 37 Academic and research institutes
- 32 Private sector companies

Donors in 2011

Asian Development Bank • ClimateWorks Foundation • Energy Foundation
• Fredskorpset Norway • Fu Tak lam Foundation • German International
Cooperation (GIZ) • Guangdong Government • Institute for Global
Environmental Strategies (IGES) • Institute for Transport Policy Studies •
Institute for Transportation and Development Policy • International Union for
Conservation of Nature • Korea Transport Institute • MAHA • Philippine
Business for the Environment • United Nations Centre for Regional
Development (UNCRD) • United Nations Environment Program Partnership
for Clean Fuels and Vehicles (UNEP PCFV) • Veolia • World Bank