

Addressing the Challenge of Air Pollution- Insights from Clean Air Asia's City Action Strategy

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**CLEAN AIR
ASIA**



About Clean Air Asia



Clean Air Asia is an international NGO that works towards **achieving better air quality and livable cities by translating knowledge to policies and actions that enable Asia's 1,000+ cities to reduce air pollution and greenhouse gas emissions from transport, energy, other sectors.**

Air Quality and Climate Change

Key component: Guidance Framework for Better Air Quality in Asian Cities

Clean Air Asia offers its partners:

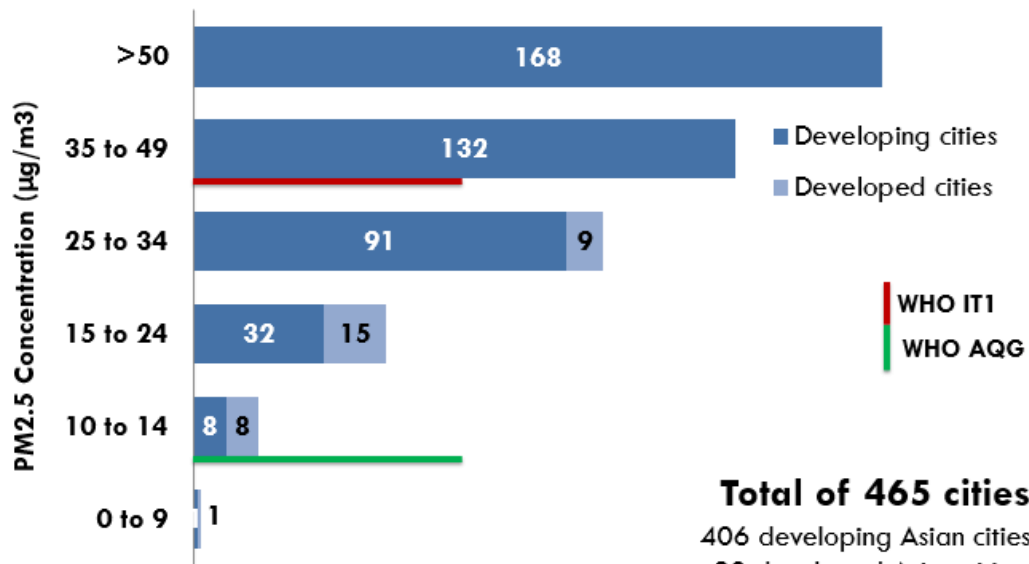
- **Actionable guidance** for administrators and policymakers
- **High-level expertise** in air quality management
- **An ethos of partnerships, collaboration, and cooperation** as key drivers for meaningful and lasting change

Sustainable Urban Transport

Lower Emission Urban Development

Clean Air Asia's country networks: China, India, Indonesia, Nepal, Pakistan, Philippines, Sri Lanka, Vietnam and Malaysia

State of Air Quality



Total of 465 cities
 406 developing Asian cities
 32 developed Asian cities

1

99% of cities in Asia
 with unhealthy air quality levels
 (PM2.5 levels above
 WHO Air Quality Guideline
 (463 of 465 cities in the survey))

2

35% of cities with PM2.5 levels
 within WHO Interim Target I
 (165 of 465 cities)



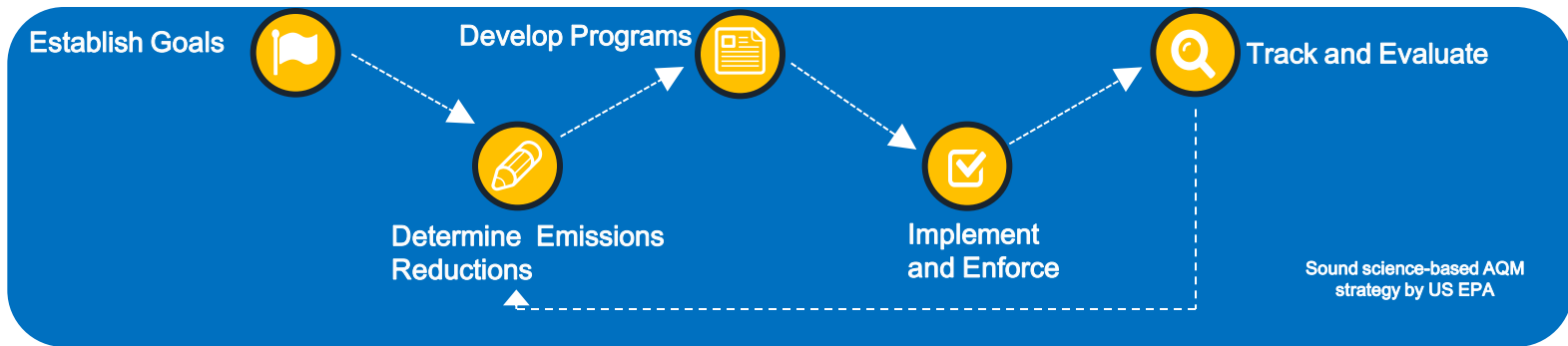
Data collected from publicly available sources compiled by WHO and CAA.
 Data for the last available year in the period 2012-2016
 Clean Air Asia, 2017

Where is India's Air Quality Management (AQM) now?

Situation Analysis



- ✓ Air Act 1981
Nation wide programme for prevention, control and abatement of air pollution
 - ⋯ Collect compile and publish technical data
 - ✓ Lay down standards for quality of air
 - ⋯ Air Action Plans
- | | | |
|-------------------|--|---|
| Stationary | <ul style="list-style-type: none"> ⋯ Power sector ⋯ Non-power industries | <ul style="list-style-type: none"> ✓ Developed ⋯ Developing ✗ To be developed |
| Mobile | <ul style="list-style-type: none"> ⋯ Petrol vehicles/EVs ⋯ Diesel (vehicles, vessels, non-road machinery) | |
| Area | <ul style="list-style-type: none"> ⋯ Construction and road dust ⋯ Waste Management | |
| Process | <ul style="list-style-type: none"> ⋯ Science-based policy-making ⋯ Stakeholder engagement ⋯ Cost-effective analysis | <ul style="list-style-type: none"> ✗ Action Plan attainment evaluation ✗ City attainment timeframe and plans ✗ Tracking Progress of Policy |



- | | |
|---|--|
| <ul style="list-style-type: none"> ⋯ Monitoring ⋯ Inventories Analysis & Modeling ✗ Health Impact Assessment | <ul style="list-style-type: none"> ✓ National /State inspection ⋯ Compliance ⋯ Enforcement ⋯ Permits |
|---|--|

Priority areas of AQM

Setting and strengthening AAQS to; ensuring sustainable AQ Monitoring

Developing and updating emissions inventories and modeling

Linking AQ levels with health and other impacts and corresponding costs

Communicating air quality, health and co benefits

Developing and implementing CAAPs

Governance approaches in air quality management

Guidance Areas

• Guidance Area 1: Ambient Air Quality Standards and Monitoring

• Guidance Area 2: Emissions Inventories and Modeling

• Guidance Area 3: Health and Other Impacts

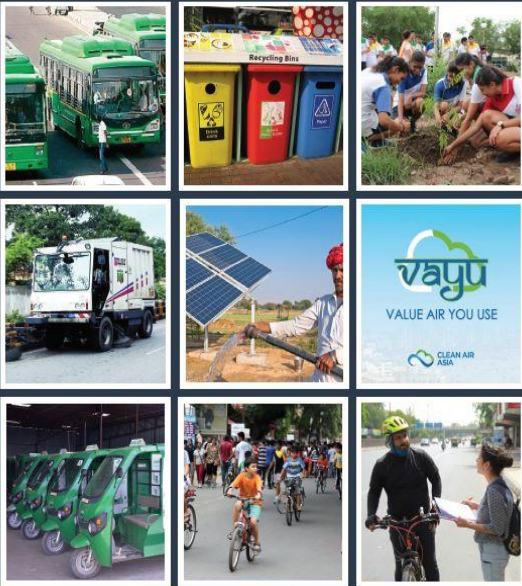
• Guidance Area 4: Air Quality Communication

• Guidance Area 5: Clean Air Action Plans

• Guidance Area 6: Governance

Areas of Work

Research for Policy Support-



 Air Quality Management in India
A Status of 30 Cities

Capacity Building



Public Engagement



CAA Approach in India



**CAPACITY
BUILDING**

Working with Cities

Facilitating Technology
Solutions

Knowledge Sharing between
Cities



Policy Research
and
Recommendation

Assessing Needs of Cities

Drive Knowledge/technology
transfer between India and
China/South Asia

Tracking Progress

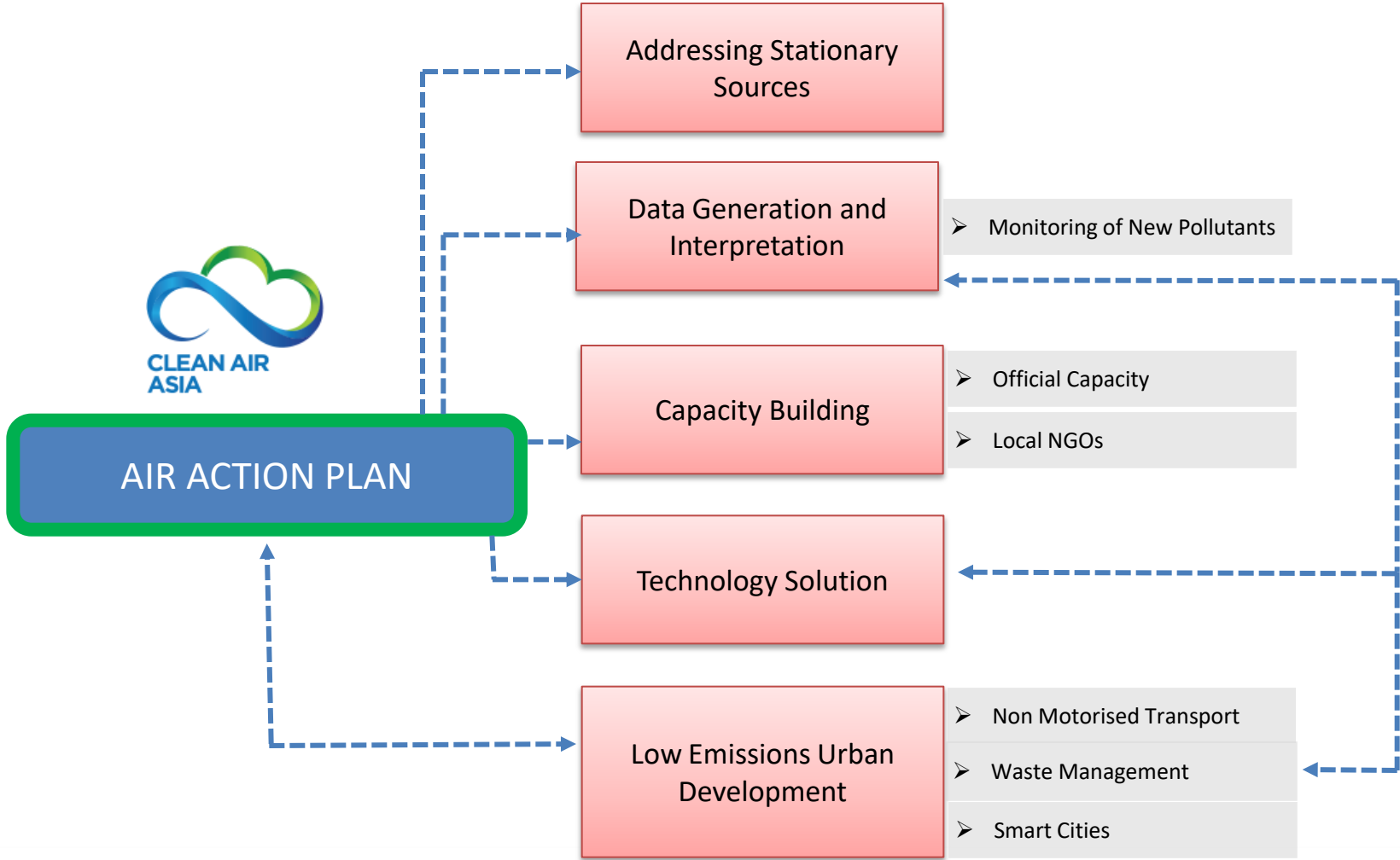


Public Engagement

Interpretation and Communicating
Data

Engaging Children and Youth

What is the City Air Action Plan?



Bhubaneswar

- Sensor based AQ Data Generation and Communication
- Tracking progress of air quality

Bhopal

- Data Interpretation and communication for public engagement
- Setting up of AQM cell

Dehradun

- Preparation and Implementation of Air Action Plan
- Sensor Deployment

Agra

- Preparation and Implementation of Air Action Plan



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