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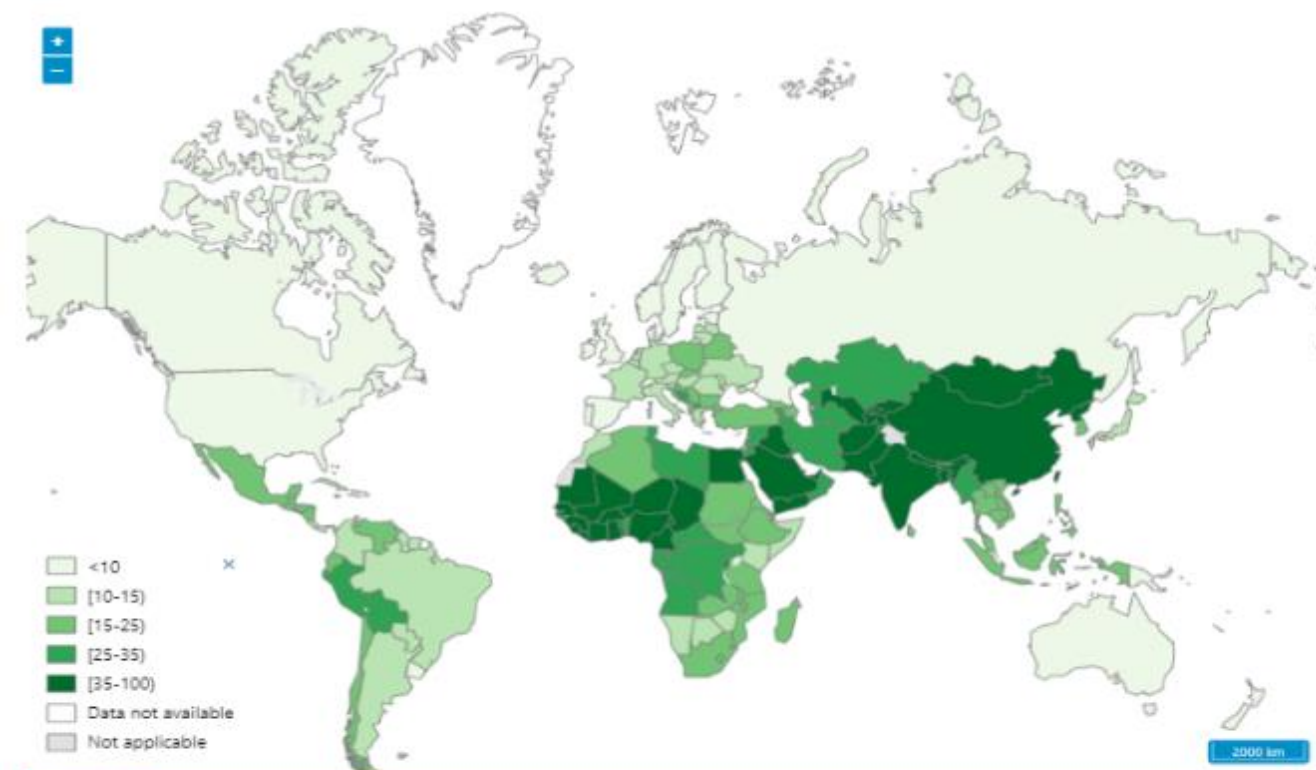
**ESCAP**

Economic and Social Commission  
for Asia and the Pacific

# **Asia-Pacific Regional Action Programme on Air Pollution (RAPAP)**

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## PM<sub>2.5</sub> Concentration



## Asia-Pacific Regional Context of Air Pollution

- High level of air pollution concentration and premature death
- Increasing awareness and commitment

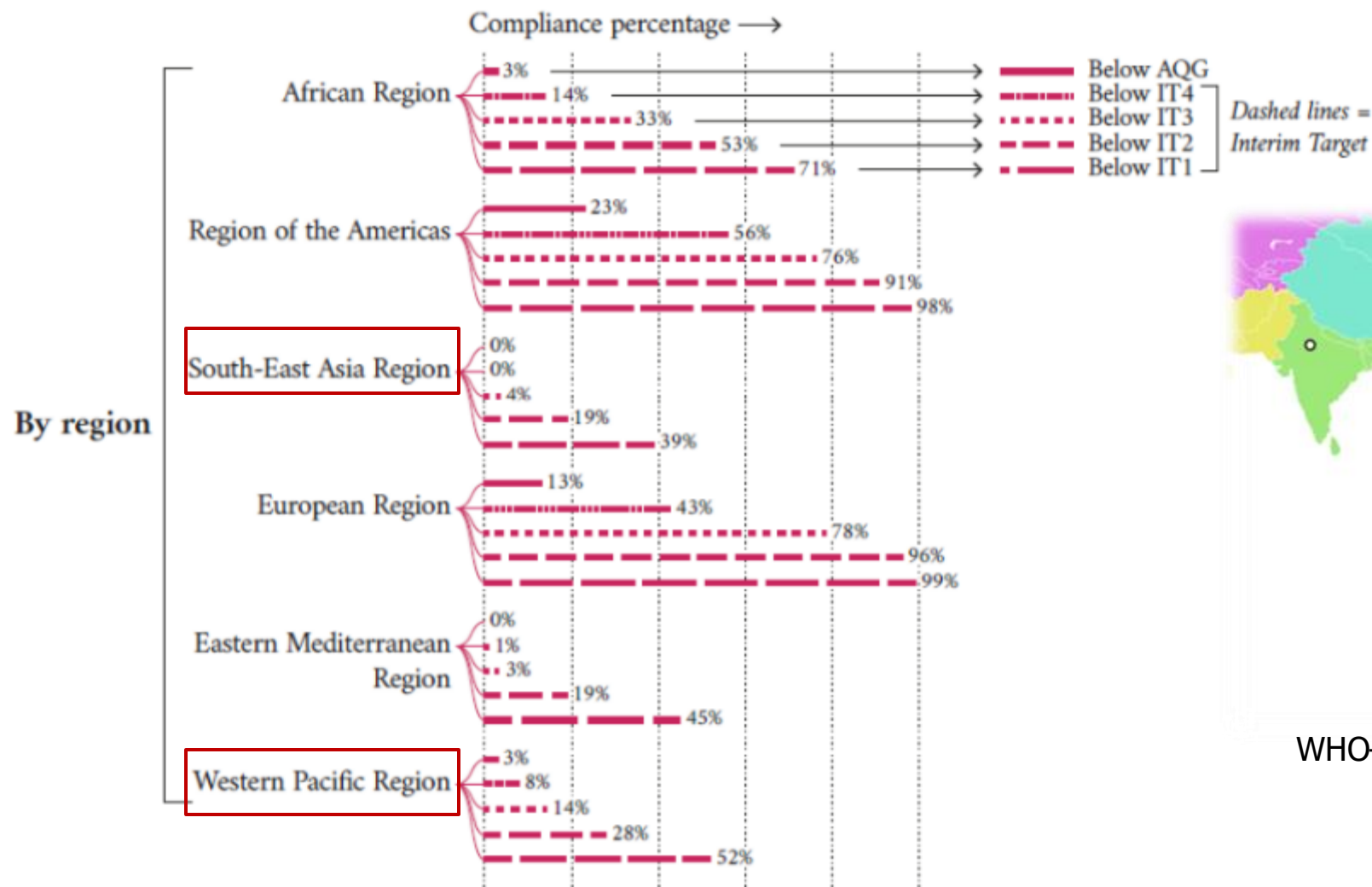
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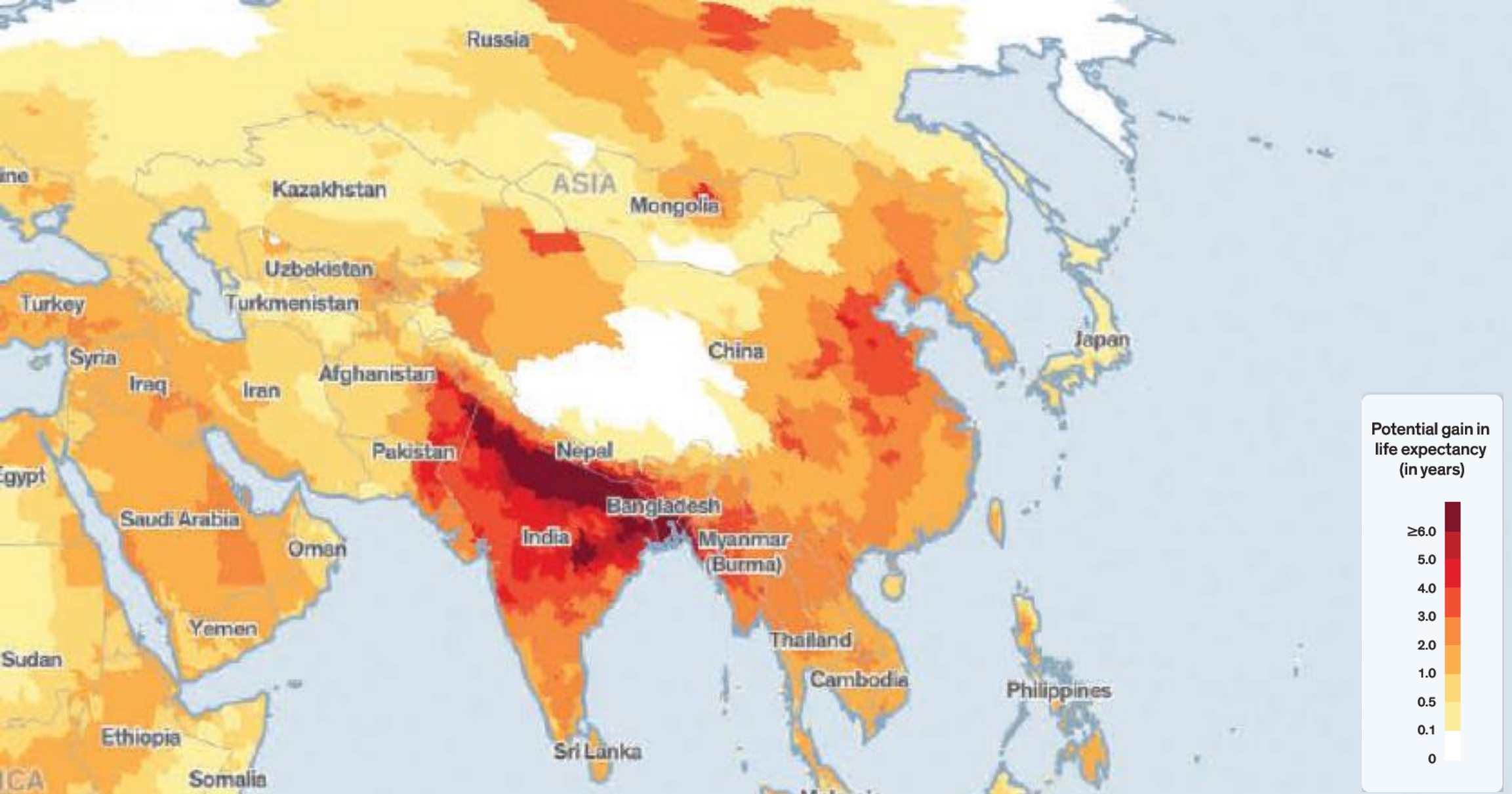
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# Compliance rate of settlements with the WHO air quality guidelines and annual PM targets



WHO-SEA and WP regions

# Potential gain in life expectancy from permanently reducing PM2.5 from 2021 concentration to the WHO guideline



Source: Air Quality Life Index 2023 Update, Univ of Chicago

# Multilateral cooperation on air pollution in Asia and the Pacific

## North-East Asia Clean Air Partnership (NEACAP)

(all 6 NEA countries)

## Acid Deposition Monitoring Network in East Asia (EANET)

(13 countries in East Asia, excl. DPRK)

## ASEAN Agreement on Transboundary Haze Pollution (Haze Agreement)

(10 ASEAN countries)

## Malé Declaration on Control and Prevention of Air Pollution and its Likely Transboundary Effects for South Asia (Malé Declaration)

(8 member countries)

- Diverse **subregional & multistakeholder cooperation mechanisms**
- However, most face significant constraints like **limited geographical & institutional mandate, insufficient technical & financial capacity**

# RAPAP

**Asia-Pacific**  
**Regional Action**  
**Programme on**  
**Air Pollution**

- Negotiated and adopted under auspices of ESCAP as the **only regional legislative organ** in the Asia-Pacific
- RAPAP **represents collective aspiration and consensus** among countries in the region to combat air pollution
- Adopted at ESCAP's **7th Committee on Environment and Development** in 2022
- Endorsed by member States through **resolution 79/6** at the 79th Commission Session in 2023

# RAPAP

## Asia-Pacific Regional Action Programme on Air Pollution

### Objectives



Promoting **science-based and policy-oriented cooperation**



Establishing an **open regional platform** for best practices exchange



Promoting **domestic actions and regional cooperation**



Identifying **technical and financial resources** for multilateral and cooperative action



Fostering **dialogue and technical cooperation**

## Action areas





# RAPAP Platform *(under development)*

- RAPAP provision: Para 6(b) *“To establish an **open regional platform** for the exchange of information and best practices on air pollution challenges and solutions, as may be deemed necessary and appropriate by members and associate members of ESCAP”*
- Online regional platform to **support partnerships and coordination** among existing multilateral, subregional and multistakeholder cooperation mechanisms
- Provide **repository** of collaborative work at regional and multilateral levels
- Catalyze **joint capacity building projects** on clean air



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# Enhanced capabilities to adopt innovative technologies for city air pollution control in select countries of the Asia-Pacific

Asian and Pacific Centre for Transfer of Technology  
(ESCAP-APCTT)

# Project objective: Strengthened policies to facilitate adoption of innovative technologies for controlling air pollution in the Asia-Pacific

## Main achievements

01

Nearly 600 city officials and national policy makers in 3 cities have **enhanced awareness** on air pollution as well as **technology and policy options** available for air pollution control

04

**Exposure** to advanced technology and policy strategies on air pollution in the **Republic of Korea** to 10 city officials and national policy makers from 3 cities

02

**Compendium of Air Pollution Control Technology** available for countries to identify and/or select appropriate technologies

05

Contextualized **assessment** of gaps and next steps to **strengthen City Action Plans** and policy frameworks in the 3 cities

03

**Contextualized analysis** of city-level air pollution technology needs and gaps for 3 cities provides a direction for technological way forward

06

Operational learnings from project shared through **Regional Workshop - 21 Dec 2023** and **knowledge products** to help scale up actions across Asia-Pacific region.



Thailand Stakeholder Consultation

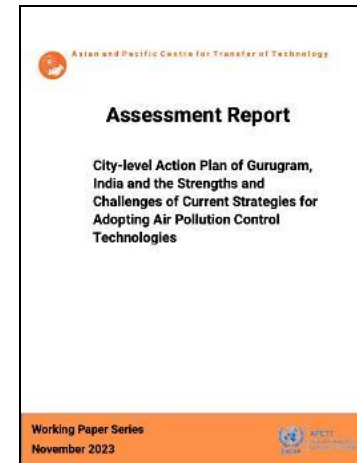
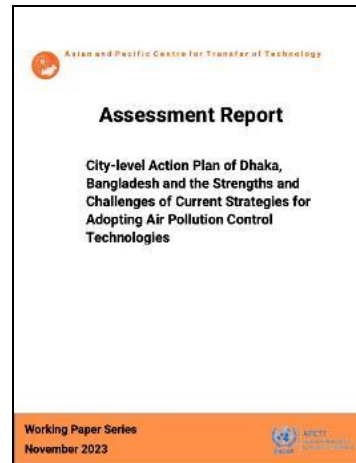
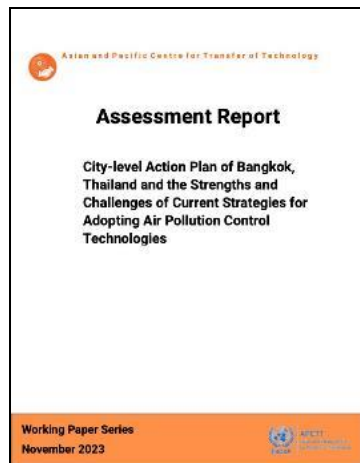
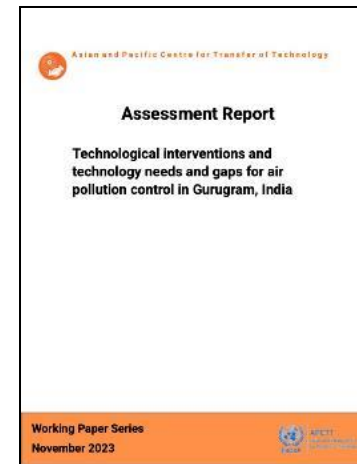
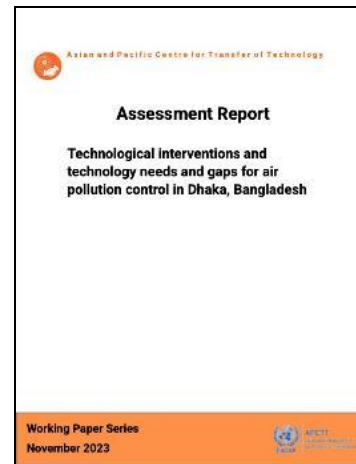


Study Tour on innovative technologies for air pollution control to the Republic of Korea

# Key findings from city level assessments

	Key Concerns	Critical Technologies	Critical Policy Areas
<b>Bangkok</b>	<ul style="list-style-type: none"> <li>• <b>Transport related pollution</b></li> <li>• Industrial Emissions</li> <li>• Agri Waste burning</li> <li>• Road Dust</li> <li>• Construction Dust</li> <li>• Street Food and Home Cooking</li> <li>• Air Shed effect</li> <li>• Cross Border Effect</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Diesel Particulate Filter</b></li> <li>• <b>Electric Vehicles</b></li> <li>• <b>Remote sensors - vehicles</b></li> <li>• Low-cost sensors</li> <li>• <b>Low Emission Zones</b></li> <li>• Continuous Emission Monitoring Systems (CEMS) for Industries</li> <li>• Apps to monitor Agri waste burning</li> <li>• Cleaner Cooking Fuels</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Retire old vehicles; Incentives, Infra for EV</b></li> <li>• <b>Move from Diesel to EV – Govt./ Pub. Trans.</b></li> <li>• <b>Subsidize public transport.</b></li> <li>• Control Agri waste burning / cleaner cooking fuels</li> <li>• Alternate use for straw</li> <li>• Tech to monitor Agri burning</li> <li>• Self Monitoring, CEMS – Industries</li> <li>• Put in place higher emission norms</li> <li>• Closer monitoring of PM2.5</li> </ul>
<b>Gurugram</b>	<ul style="list-style-type: none"> <li>• <b>Transport related pollution</b></li> <li>• Power Plants , DG Sets</li> <li>• Industrial Emissions</li> <li>• Waste collection, waste burning</li> <li>• Road and Construction Dust</li> <li>• Agri Waste burning</li> <li>• Brick Kilns</li> <li>• Air Shed effect</li> <li>• Cross Border Pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Airshed Approach</li> <li>• <b>Diesel Particulate Filters</b></li> <li>• <b>Electric Vehicles; Public E-transport</b></li> <li>• <b>Remote sensors - vehicles</b></li> <li>• Low-cost sensors</li> <li>• <b>Intelligent traffic management systems</b></li> <li>• CEMS for Industries</li> <li>• Water fogging – construction</li> <li>• Dust Collection Machines/ Tech</li> <li>• Solid Waste Disposal</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Cleaner Fuels, Retire old vehicles, Higher Norms</b></li> <li>• <b>Strengthen EV, Pub. Trans.</b></li> <li>• Stop Agri Waste burning</li> <li>• Strict Monitoring of polluting industries</li> <li>• Higher Emission Norms for industries</li> <li>• Enhance Green Cover</li> <li>• Enforce Dust control and collection</li> <li>• Road Sweeping systems</li> <li>• Dust control in construction sites</li> </ul>
<b>Dhaka</b>	<ul style="list-style-type: none"> <li>• <b>Transport related pollution</b></li> <li>• Brick Kilns</li> <li>• Industrial Emissions</li> <li>• Biomass for cooking</li> <li>• Agri Waste burning</li> <li>• Road and Construction Dust</li> <li>• Air Shed effect</li> <li>• Cross Border Pollution</li> </ul>	<ul style="list-style-type: none"> <li>• Continuous Air Monitoring Stations (CAMS)</li> <li>• <b>Diesel Particulate Filters</b></li> <li>• <b>Electric Vehicles; Public E-transport</b></li> <li>• <b>Remote sensors - vehicles</b></li> <li>• Low-cost sensors</li> <li>• CEMS for Industries</li> <li>• Water fogging – construction</li> <li>• Anti-smog guns</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Cleaner Fuels, Retire old vehicles, Higher Norms</b></li> <li>• <b>Strengthen EV, Public Transport</b></li> <li>• Stop Agri Waste burning; Cleaner Cooking Fuels</li> <li>• Higher Emission Norms, monitoring for industries</li> <li>• Move Brick Kilns to Zig Zag Technology</li> <li>• Enhance Green Cover</li> <li>• Enforce Dust control and collection</li> <li>• Road Sweeping systems</li> <li>• Dust control in construction sites</li> <li>• Source Apportionment Studies; Promote Solar Technologies</li> </ul>

# Key Knowledge Products



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