

URBAN AIR POLLUTION MITIGATION PROJECT

*STRENGTHENING REGIONAL
COOPERATION TO TACKLE AIR
POLLUTION CHALLENGES IN
ASIA AND THE PACIFIC*

**This project is funded through the
Korea-ESCAP Cooperation Fund (KECF)**

UNITED NATIONS TEAM

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PROJECT PARTNERS

- UN Environment
- North-East Asia Clean Air Partnership
- World Health Organization
- United Nations Country Teams
- Asia Pacific Clean Air Partnership (APCAP)
- ASEAN Secretariat
- CityNet
- ESCAP SRO-ENEA
- *Other relevant institutions at local/regional level to support local data/analysis*

PROJECT CONTEXT

The Asia-Pacific region is **rapidly urbanising** and will become mostly urban in the next decades.

This rapid urban expansion increases:

- Increases infrastructure development and energy consumption
- Raises demands for fossil fuel in the transport sector
- Adds to household pollution from cooking and heating/cooling
- Gives room for improper waste management

All of which unavoidably contribute to the region's worsening air pollution...



PROJECT GOALS

INCREASE
KNOWLEDGE
BASE OF AIR
POLLUTION IN
THE REGION

INCREASE
CAPACITY TO
MITIGATE AIR
POLLUTION AT
THE CITY LEVEL

ENHANCE
POLICIES TO
MITIGATE AIR
POLLUTION AT
THE CITY LEVEL

The Urban Air Pollution Mitigation project is fighting air pollution by applying science-based clean air measures to identify sources of pollution.

Pilot Programs in regional cities in 2022

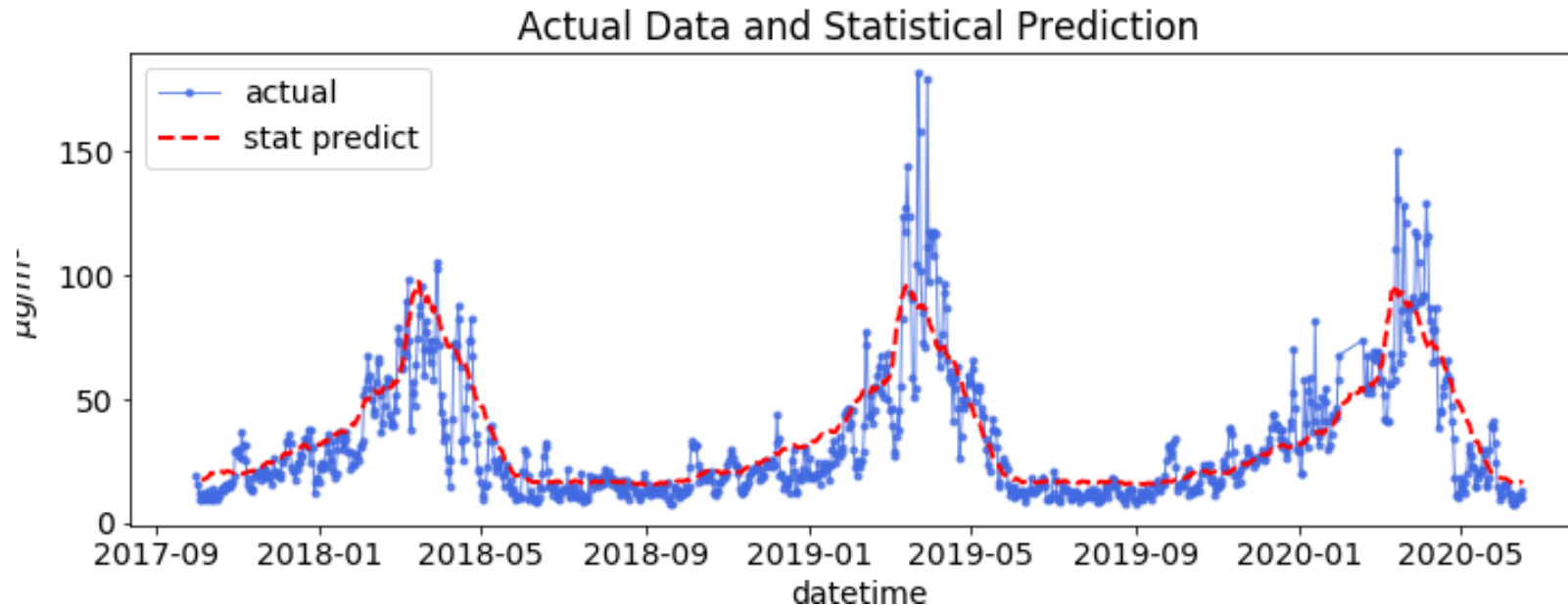
MAIN PROJECT ACTIVITY TO DATE

The development, testing and fine-tuning of a **machine learning system** that can flexibly support local-level air pollution data to **model the effects of policy interventions**.

The system can:

1. Identify Sources
2. Manipulate Variables
3. **Predict Outcomes**

ESCAP was invited by the **Ministry of Environment of the Republic of Korea** to present the results, modality and interface with the GEMS system at the **International Symposium on the Accumulation and Reduction of Particular Matter** in December 2021.



CURRENT PROJECT ACTIVITIES



An Expert Group Meeting to review air pollution trends and analysis for the city to **identify goals** of the Action Plan

Stakeholders in pilot city develop action plans to **effectively improve air** quality for resilient and sustainable urbanization

Findings from Pilot City to be shared in Regional Workshop to encourage more cities to take similar steps

Participant cities in the Regional Workshop to build their own **Action Plans** with ESCAP and partner support

25 CLEAN AIR MEASURES FOR ASIA AND THE PACIFIC



SCIENCE-BASED MEASURES

WHAT TYPES OF ACTIONS?

A 2019 UNEP/CCAC report identified 25 proven and cost-effective measures - that if implemented, could give one billion people living in Asia access to clean air by 2030.

The policy recommendations represent the framework of what our project is trying to achieve throughout the region- identifying the most appropriate solutions for cities based on their context.

QUESTION AND ANSWER

Followed by discussions on:

1. Feasible Timeline for Workshop and Action Plan
2. Approach for Media and Publicity
3. Any Other Business