

The Asia-Pacific Plan of Action on Space Applications and Building Pan-Asia Partnership for Geospatial Air Pollution Information

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Mandate for Air Pollution

- **ESCAP resolution 75/4** in 2019 on “Strengthening regional cooperation to tackle air pollution challenges in Asia and the Pacific” encourages the sharing of experiences and information relating to air pollution and the means to tackle this problem and is in line with priority actions under the Regional Roadmap for implementing the 2030 Agenda for Sustainable Development in Asia and the Pacific.
- **UN General Assembly resolution A/RES/74/212** adopted in 2019 “International Day of Clean Air for blue skies” to strengthen international cooperation at the global, regional and subregional levels in various areas related to improving air quality, including the collection and utilization of data, joint research and development, and the sharing of best practices.
- **World Health Assembly resolution WHA68.8** adopted in 2015 “Health and the environment: addressing the health impact of air pollution” urges greater regional cooperation to address air pollution and facilitate the expertise, technology and scientific data on air pollution, as well as good practices.

The Asia-Pacific Plan of Action on Space Applications for Sustainable Development (2018 –2030)

ESCAP resolution 75/6 adopted in 2018

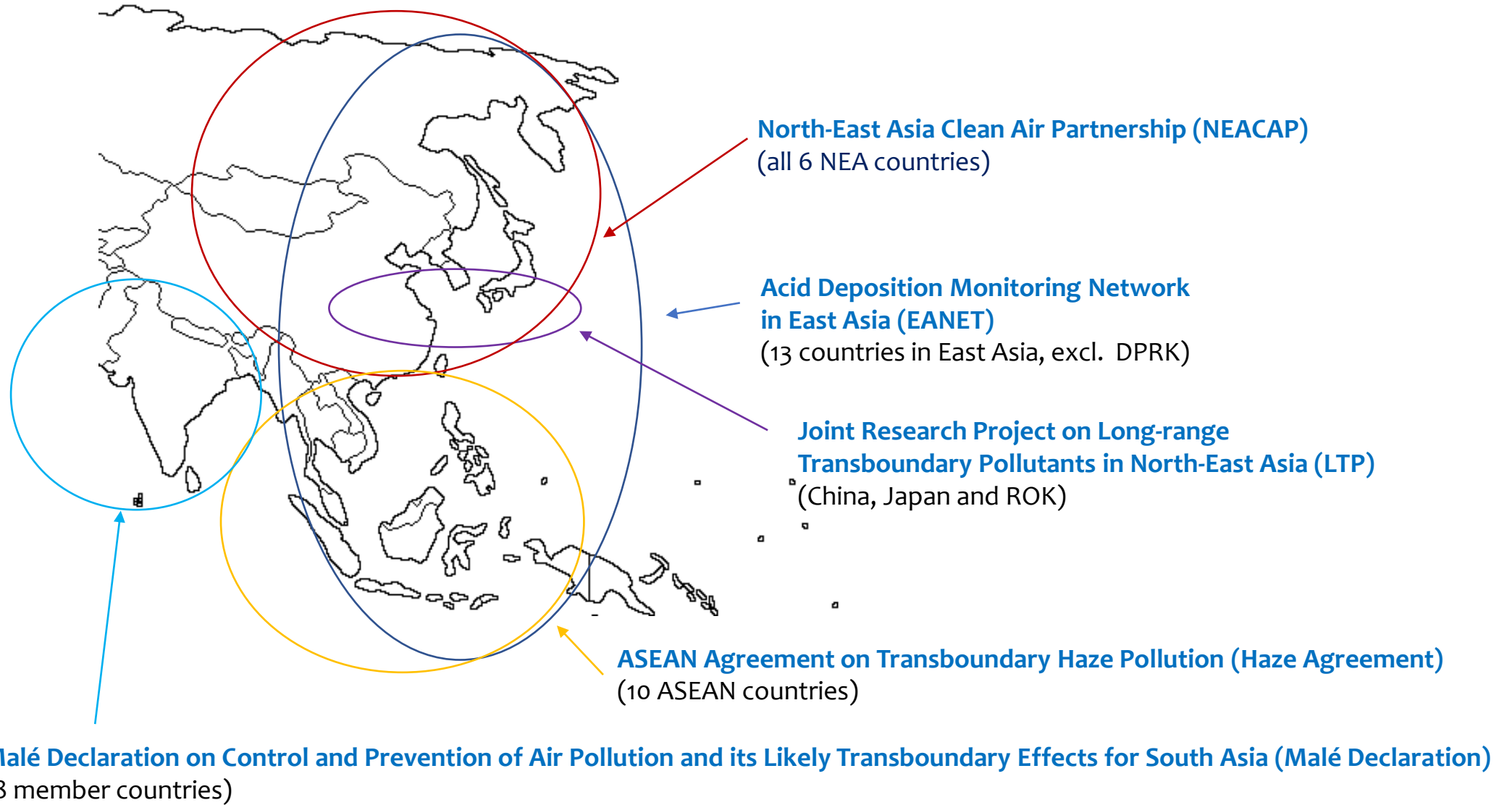
Under Social development, contamination and pollution:

- Develop the capacity to use space applications to monitor air pollution including dust, smog and other pollutants from hazardous chemicals, pollutants and contaminants.
- Raise awareness on different sources of data on pollutants and contaminants and work with existing intergovernmental mechanisms and international and regional organizations in this regard.

Under natural resource management, urban planning:

- Develop capacity to use space applications to monitor urban pollution, including urban heat island effects and air and water quality.
- Promote discussion and sharing of information on the use of space applications for monitoring air quality.

Existing multilateral cooperation on air pollution across subregions



North-East Asia Clean Air Partnership(NEACAP) science-based, policy-oriented cooperation



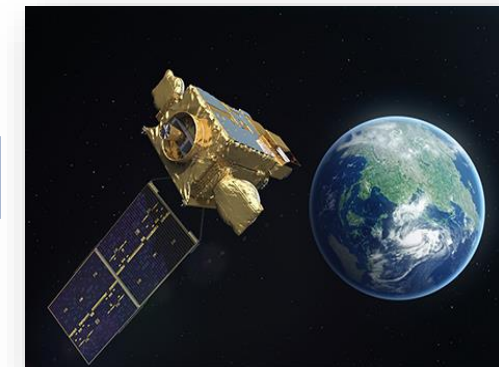
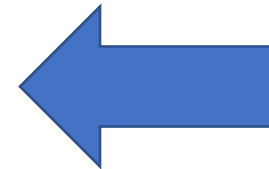
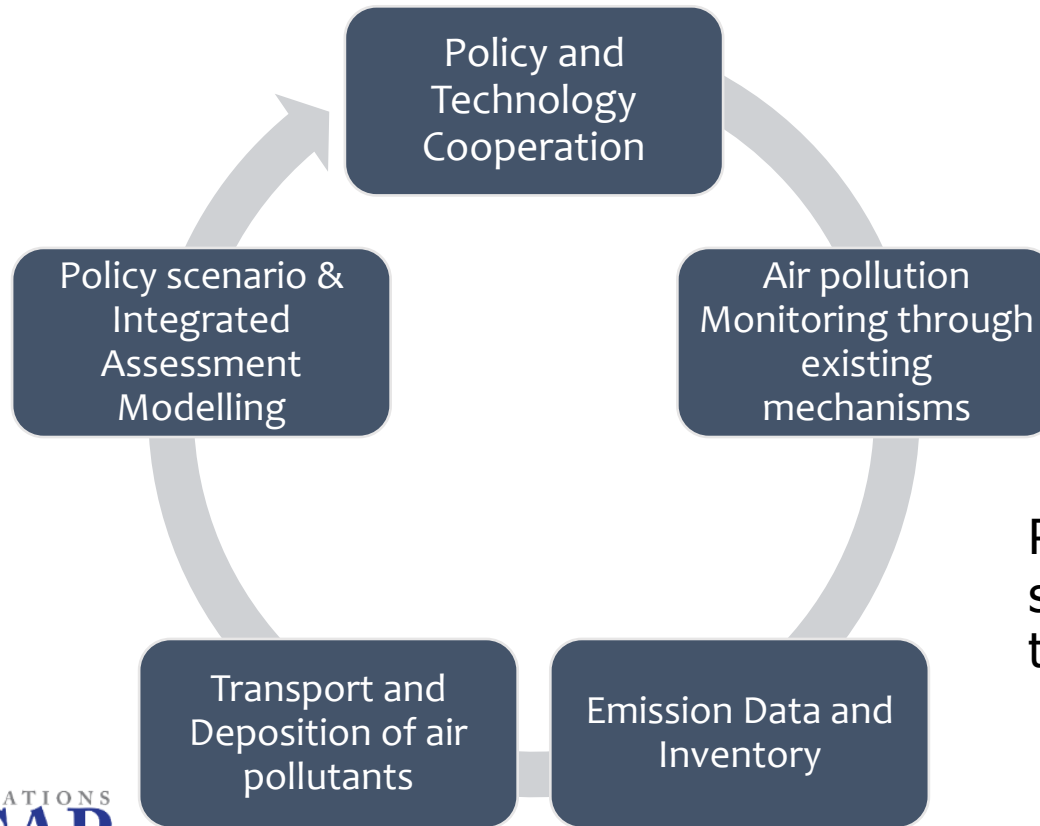
Launched in 2018 under the North-East Asian Subregional Programme for Environmental Cooperation (NEASPEC)

Supported by ESCAP as the secretariat

Member States: China, Democratic People's Republic of Korea, Japan, Mongolia, Republic of Korea, Russian Federation

Potential contributions of GEMS to NEACAP

NEACAP Core Programme



Providing data of spatial and temporal trend of air pollution

ASEAN – UN cooperation

ASEAN-UN PLAN OF ACTION TO IMPLEMENT THE JOINT DECLARATION ON COMPREHENSIVE PARTNERSHIP BETWEEN ASEAN AND THE UNITED NATIONS (2016-2020)

This Plan of Action aims at implementing the Joint Declaration on Comprehensive Partnership between ASEAN and the UN adopted in New York, September 2016 to build upon the achievements in the implementation of the ASEAN-UN Work Plan for 2015

3. Socio-Cultural Cooperation

3.2 Environment and Climate Change

3.2.4 Promote coordination among relevant sectors to strengthen cooperation on environmental protection, biodiversity conservation, coastal and marine protection, and climate change and to improve access to clean land, green public space, **clean air**, clean and safe water, and sanitation;

ASEAN Cooperation on Environment

The institutional framework of the ASEAN cooperation on environment consists of
ASEAN Ministerial Meeting on the Environment (AMME)
ASEAN Senior Officials on the Environment (ASOEN)

7 subsidiary bodies / working groups, following the identified strategic priorities: climate change, chemicals and waste, coastal and marine environment, environmental education, **environmentally sustainable cities (AWGESC)**, natural resources and biodiversity, and water resources management.

ASEAN Secretariat: ASEAN Socio-Cultural Community Department, Sustainable Development Directorate, Environment Division

There are two sectoral bodies under Environment Division of ASEAN that deals with clean air, depending on the source:

- 1) [Committee under the Conference of the Parties to the ASEAN Agreement on Transboundary Haze Pollution \(COM AATHP\)](#) – land/forest fires.
- 2) [ASEAN Working Group on Environmentally Sustainable Cities \(AWGESC under ASOEN\)](#) – urban pollution.

Building Pan-Asia Partnership for Geospatial Air Pollution Information

- Fill the data and information gap in the nation-wide monitoring of air quality
- Install/operate Pandora instrument within Pandora Asia Network
- Integrate and validate GEMS data and reliable ground monitoring information for better understanding of air pollution, and better utilizing air quality model for analysis, forecasting and warning service
- Enhance national and regional capacity to undertake the comprehensive analysis of data derived from space and ground networks
- Promote policy dialogue on partnership and enhance the capacity for monitoring and management of air pollution at the regional level

Building Pan-Asia Partnership for Geospatial Air Pollution Information

Installation of Pandora system and establish the Pandora Asia Network

Capacity building:

- Installation and operation of Pandora system (undertaken by the company that built the system)
- Collection, validation and processing of GEMS data
- Use of satellite data for air pollution monitoring and long-range transport models

Processing and development of applications to use data:

- Development of a national data tool for selected countries

Developing a regional partnership:

- Involving relevant environment, meteorological and space agencies of participating countries to discuss air pollution issues.

THANK YOU

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