EANET/IG28/8/2/P

# Draft Work Programme and Budget of the EANET Project Plans in 2027

**The Twenty-eighth Session of the Intergovernmental Meeting (IG28)**
**on the Acid Deposition Monitoring Network in East Asia (EANET)**
**24-26 November 2026, Niigata, Japan**

# INTRODUCTION

- **IG27 (Nov 2025)** requested the Secretariat to organize a WG Meeting in 2026 to discuss EANET Project Plans (EPPs) for 2027.

- **EANET Project Fund Guidelines**
  - WG may review draft EPPs and provide inputs during project preparation.
  - EPP review process:
    - Preparation by Project Lead (PL)
    - WG review
    - SAC review
    - IG approval

- **9 Projects for IG28's Consideration in 2026**
  - 8 newly proposed EPPs for 2027
  - 1 continued EPP from 2026
  - Submitted for discussion and consideration at the WG2026 and SAC26 Meetings.

- **Remaining Balance in the EANET Project Fund** as of the end of Fiscal Year 2025 to be allocated: **USD 86,370** *(source: Annual Report of EANET Project Fund in 2025 EANET/IG28/4/4)*

# Proposed EANET Projects in 2027 — New

| Proposal Number | Title of Project | Proposer/Project Lead | Duration and Remarks | Total Budget and Requested Amount from EPF | Co-Finance and/or In-kind Support |
|---|---|---|---|---|---|
| EPP (2027-01) | Enhancement of ammonia monitoring for sustainable nitrogen management in the EANET region | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP) | January/2027 – December/2029 | 56,000 USD (**18,000 requested from the EPF**) (for 2027) | 21,000 USD from In-kind (TUAT, Co-leads)<br>17,000 USD from Co-Finance (EMB, MOEJ) (for 2027) |
| EPP (2027-02) | Capacity building webinar workshop on application of satellite observation for atmospheric environmental management | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP) | January 2027 – December 2027 | 18,000 USD (**10,500 requested from EPF**) | 7,500 USD from In-Kind (NIES) |
| EPP (2027-03) | Fellowship for building leadership in Atmospheric Environment and Air Quality Management in East Asia | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP), Fudan University | January 2027 – December 2027 | 90,000 USD (**27,000 requested from EPF**) | 63,000 USD from Co-Finance (Fudan University, MOEJ) |
| EPP (2027-04) | The collaboration of Technical and Training (TNT) and capacity building program for personnel of the Participating Countries on monitoring | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP), The National Institute of Environmental Research (NIER) | January/2027 – December/2027 | 120,000 USD (**22,630 requested from the EPF**) | 97,350 USD from Co-Finance (NIER, MOEJ) |
| EPP (2027-05) | Integrated Capacity Building for Urban Ozone and Ambient VOCs under EANET | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP), Chinese Research Academy of Environmental Sciences (CRAES) | January/2027 – December/2029 | 80,000 USD (**35,000 requested from the EPF**) (for 2027) | 10,000 USD from Co-Finance (MEE, China) and 35,000 from Co-Finance (MOEJ) (for 2027) |
| EPP (2027-06) | Integrated Early Warning System (IEWS) Feasibility Study for Heat Stress and Air Pollution in the Mekong Sub-region | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP) | January/2027 – December/2027 | 60,000 USD (**30,000 requested from the EPF**) | 30,000 USD from Co-Finance (MOEJ (TBD)) |

# Proposed EANET Projects in 2027 — New

| Proposal Number | Title of Project | Proposer/Project Lead | Duration and Remarks | Total Budget and Requested Amount from EPF | Co-Finance and/or In-kind Support |
|---|---|---|---|---|---|
| ~~EPP (2027-07)~~ | ~~Research on Spatiotemporal Evolution Patterns and Driving Mechanisms of Regional Acid Deposition Based on Artificial Intelligence~~ | ~~Institute of Atmospheric Environment, Chinese Research Academy of Environmental Sciences (CRAES)~~ | ~~January/2027 – December/2029~~ | ~~30,000 USD (30,000 USD requested from the EPF)~~ | ~~0~~ |
| EPP (2027-08) | Roundtable Dialogue on Innovative Investment and Financing for Air Pollution Prevention and Control and Green Economy Incentive Policies (online+offline) | Foreign Environmental Cooperation Center (FECO) / China-ASEAN Environmental Protection Cooperation Center (CAEC), Ministry of Ecology and Environment of China | January 2027 – December 2027 | 30,000 USD (**30,000 USD requested from the EPF**) | 0 |
| EPP (2027-09) | Leveraging the AQMx platform for building capacity of EANET Participating Countries | Climate and Clean Air Coalition (CCAC), and Secretariat for the EANET | January 2027 – December 2027 | 8,000 USD (**0 requested from the EPF**) | 8,000 USD from CCAC (in-kind) |

*Note: Project Plan EPP 2027-07 has been withdrawn by the Project Lead on 17 November 2026.*

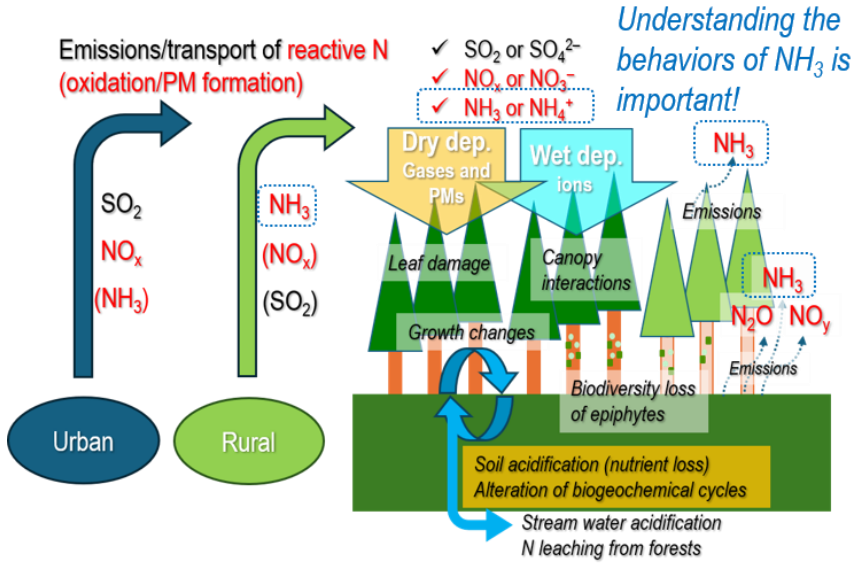
# Proposed EANET Projects in 2027 — Continued

| EPP Number | Title of Project | Proposer/Project Lead | Duration and Remarks | Total Budget and Requested Amount from EPF | Co-Finance and/or In-kind Support |
|---|---|---|---|---|---|
| EPP (2026-06) | Methodological Study on PM2.5 Source Identification and Capacity Enhancement in EANET with Emphasis on Southeast Asia | Network Center for EANET (NC), Asia Center for Air Pollution Research (ACAP) | January/2026 – December /2027 | 60,000 USD (30,000 requested from the EPF) (for 2027) | 30,000 USD from Co-Finance (JETRO Indonesia Proof of Concept (PoC) project) (for 2027) |

# EANET Project Plan Number: 2027-1

## Enhancement of ammonia monitoring for sustainable nitrogen management in the EANET region (2027-2029)

Project Lead: Network Center for EANET
Co-Lead: *EMB, the Philippines*
Implementation Agencies:
NC, EMB, Tokyo University of Agriculture and Technology (TUAT),
*(additional partner(s))*
Budget (USD): **56,000 (2027),** 50,000 (2028), 44,000 (2029)
(including in-kind contributions, 21,000 USD/year)

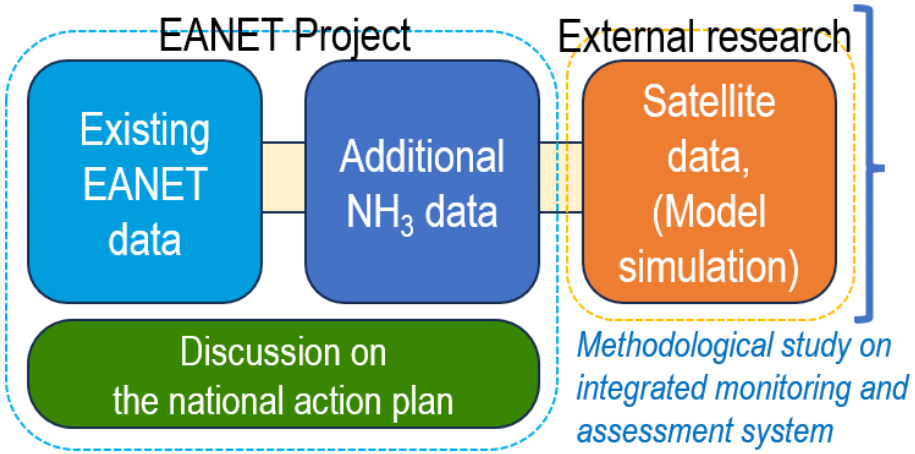



Rationale:

- Ammonia ($NH_3$)
  - ✓ An important precursor of $PM_{2.5}$ (such as $(NH_4)_2SO_4$)
  - ✓ Emitted mainly in rural and remote areas, such as agricultural fields and forest areas
- Understanding $NH_3$ behavior is essential for managing reactive nitrogen flows between the atmosphere and the terrestrial environment.

Objectives:

- To enhance $NH_3$ monitoring in rural and forest areas
- To understand $NH_3$ behavior and nitrogen flows from the atmosphere to ecosystems
- To promote discussion on preparation of a national action plan for sustainable nitrogen management




Activities:

- $NH_3$ monitoring using passive samplers
- Data comparison and assessment using other methods
- Assessment of nitrogen flows from the atmosphere to forest ecosystems
- Online seminar towards preparation of the national action plan for sustainable nitrogen management

Benefits:

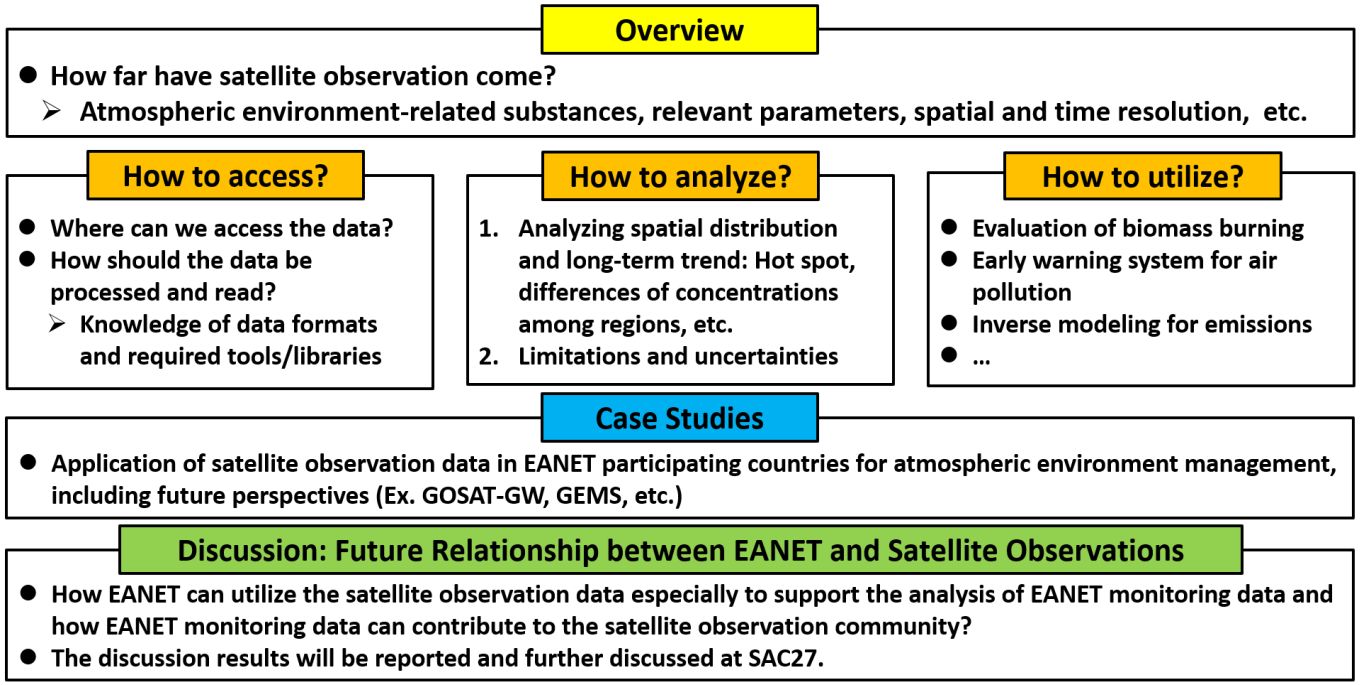
- Accumulation of $NH_3$ data (The passive sampling data can be submitted as the EANET data for the annual Data Report)
- Enhanced understanding of $NH_3$ behavior and nitrogen flows can be a starting point for practical discussion for nitrogen management

# EANET Project Plan Number: 2027-2

## Capacity building webinar workshop on application of satellite observation for atmospheric environmental management

**Duration:** 1 Year including preparation for two half-day webinar- or hybrid-style workshops
**Project Lead:** NC
**Partner Organization:** National Institute for Environmental Studies (NIES) (Japan) *Additional POs are being explored.
**Beneficiaries:** EANET participating countries (PCs)

**Summary:** EANET currently monitors atmospheric environment-related substances across East Asia with high reliability. However, **one hurdle for the EANET is achieving sufficient spatial coverage with the limited number of monitoring sites**. Although satellite observations have limitations and relatively large uncertainties, they **generally provide coverage across the whole East Asia**. Therefore, **the satellite monitoring data have potentials to support the analysis based on the EANET monitoring data and potential to support the sustainable monitoring of the EANET**. However, the benefit, practical uses, and limitations of satellite observation data are **not still well recognized in the EANET community**. In this project, **the capacity building webinar and hybrid workshops will be held to share information of currently available satellite observation data, how to access, analyze and utilize the data including practical applications of satellite observation data in air quality management as case studies**.




**Budget:** The total amount of required resources in USD is 18,000 (including 7,500 USD as in-kind contributions expressed in USD): The requested amount for EANET Project Fund (USD): USD 10,500 (except for 3,000 USD PF holder fee)

# EANET Project Plan Number: 2027-3

## Fellowship for building leadership in Atmospheric Environment and Air Quality Management in East Asia

- **Duration:** January – December 2027
- **Project Lead:** NC, Fudan University in China
- **Beneficiaries:** EANET PCs

**Summary:** Participants from EANET Participating Countries will take part in the "Fellowship for building leadership in Atmospheric Environment and Air Quality Management in East Asia" at Fudan University, Shanghai, China, and the NC for the EANET, Niigata, Japan, respectively. The on-site program will take place over a total period of approximately one and a half months, with about three weeks in China and about four weeks in Japan, including discussion and instruction with supervisors.
In order to fully utilize the limited budget, this project adopts a hybrid approach. The theme should be limited within the scope of EANET, including natural science and social science. This program will provide a platform for the younger generation of researchers and government officials, who will be responsible for managing EANET in the future, to have an integrated discussion and reflection.

**Budget (2027): 90,000** USD (including Fudan Univ. 39,000 co-finance)

Fellowship program has started **from 2005**, and **total 40 fellows** from EANET PCs have participated in this program

Fellows in 2025
Indonesia & Lao PDR & Malaysia & Mongolia & Vietnam



# EANET Project Plan Number: 2027-4

## Collaboration of Technical and Training (TNT) and capacity building program for personnel of the Participating Countries on monitoring

- **Duration:** January – December 2027
- **Project Lead:** NC, The National Institute of Environmental Research (NIER), R. of Korea
- **Beneficiaries:** EANET PCs

**Summary:** The TNT program offers in-person and online training to build capacity in air pollution monitoring and analysis. Participants learn both basic and advanced techniques, including lab work, equipment maintenance, and data analysis. Training covers wet/dry deposition, PM2.5, ozone, emission inventory, and forecasting methods. Hands-on sessions and site visits provide practical experience and policy insights.

The program is held in Korea and Japan, combining foundational and applied methodologies. Participating countries benefit by enhancing technical skills, data quality, and regional collaboration.

**Budget (2027):** 120,000 USD (including NIER 77,700 co-finance)

Individual training and TNT program has been conducted **more than 25 years**, and **nearly 200 trainees** from EANET PCs have participated in this program

TNT and Capacity Building Program in 2025
Cambodia & China & Lao PDR & Malaysia & Mongolia & Philippines & Russia & Thailand





# EANET Project Plan Number: 2027-5

## Integrated Capacity Building for Urban Ozone and Ambient VOCs under EANET (2027-2029)

### Supporting Urban Ozone Mitigation in East Asia

Project Lead: Network Center for EANET (NC), CRAES (China)

Co-Lead *(under consultation)*: *EMB, the Philippines; CLEM, Mongolia; MoE, Cambodia; IMHEN, Vietnam; (additional partner(s))*

Partner Organizations (POs): CESS, Japan; Hankuk University of Foreign Studies, Korea University, Korea

Budget (USD): 80,000 (2027), 60,000 (2028), 35,000 (2029)

Background:

Ozone problem is becoming increasingly serious in EANET

- ➢Many countries are strengthening ozone-related air quality standards
- ➢Ozone concentrations remain elevated in many parts of East Asia
- ➢Ozone pollution is closely linked with VOC/NOx emissions, meteorological conditions, heat waves, and human health and agricultural impacts (co-benefit)

Objectives:

- Strengthen the capacity for VOC, ozone ($O_3$), NOx and related pollutant
- Improve scientific understanding of VOC characteristics, ozone/SOA formation mechanisms
- Support evidence-based urban ozone management.

Benefits to EANET countries

- Enhance urban ozone monitoring and capacity building
- Support urban ozone management and environmental standards
- Strengthen scientific understanding of VOC and urban $O_3$ relationships
- Promote science-based urban ozone policy development
- Strengthen EANET's role in atmospheric environment management

Activities:

**Activity 1 — Capacity building to support the urban ozone and ambient VOCs monitoring practices**

- Organize in-country technical training on VOC and urban $O_3$ monitoring in participating countries, QA/QC procedures of VOC/$O_3$/NOx monitoring.

**Activity 2 — Capacity building on integrated data analysis of ambient VOCs characteristics and urban ozone formation**

- Data analysis of VOC contributions to urban ozone formation, urban ozone characteristics, and their relationships with meteorological conditions.

**Activity 3 — Development and dissemination of technical recommendations**

- Organize policy dialogues, Prepare technical recommendations based on project findings, Share practices and experiences among participating countries, and distribution of project outcomes through EANET platforms

# EANET Project Plan Number: 2027-6

## Integrated Forecasting System (IFS) Feasibility Study for Air Pollution and High-Temperature Events in the Mekong Sub-region

- **Duration:** January – December 2027
- **Project Lead:** NC,
- **Beneficiaries:** EANET PCs

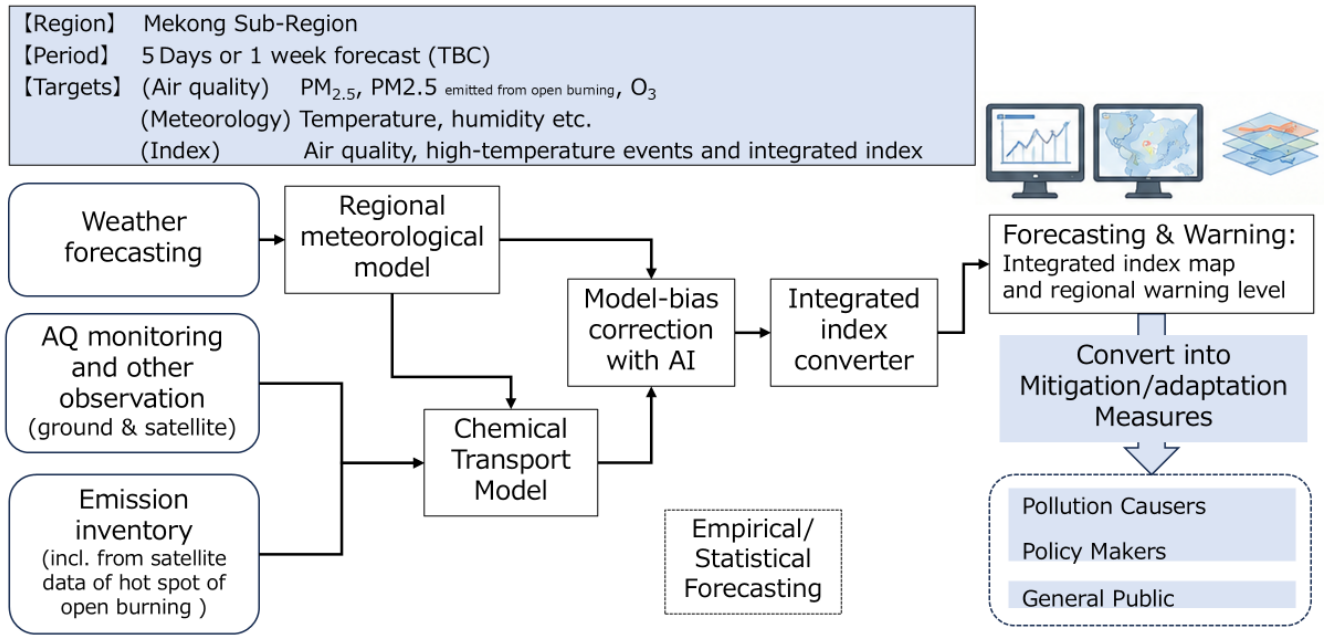
### Purpose

• Assess feasibility of integrated Forecasting System (IFS) for air pollution and high-temperature events in the Mekong Sub-region
• Combine weather forecasts, air quality data, and AI to provide advance warnings

### Key Activities

• Review existing monitoring, forecasting, research, and institutional capacities
• Identify technical, data, and operational gaps through stakeholder consultations
• Define governance, implementation approach, and potential AI applications

**Tentative Framework Integrated Forecasting System (IFS) Feasibility Study for Air Pollution and High-Temperature Events in the Mekong Sub-region**




**Budget (2027):** 60,000 USD

# EANET Project Plan Number: 2027-08

## Roundtable Dialogue on Innovative Investment and Financing for Air Pollution Prevention and Control and Green Economy Incentive Policies (*online + offline*)

- **Duration:** January – December 2027
- **Project Lead:** Foreign Environmental Cooperation Center (FECO) / China-ASEAN Environmental Protection Cooperation Center (CAEC), Ministry of Ecology and Environment of China
- **Beneficiaries:** government agencies, financial institutions, academic institutions, and practitioners from EANET Participating Countries. Target: at least 50% female participation in the dialogue sessions. Indirect beneficiaries: all EANET Participating Countries through publicly released outcome reports and policy briefs.

**Summary:** The Asia-Pacific region faces funding and institutional challenges in air pollution prevention. To address these issues, the project will organize a hybrid Roundtable Dialogue in China in 2027 on innovative investment, financing, and green economy incentives, covering cost-benefit analysis for data-driven decision-making, digital and intelligent air quality monitoring, green financing instruments for pollution control, and transparent disclosure of environmental outcomes to strengthen public trust and attract investment. The project aims to enhance practical knowledge exchange among EANET Participating Countries on mobilizing investment, improving financing mechanisms, and integrating green incentives into air pollution policies. Expected outputs include a successful roundtable dialogue and a Best Practice and Policy Recommendations Report.

**Budget (2027): 30,000 USD** (*30,000 USD requested from the EPF*)

# EANET Project Plan Number: 2027-09

## Leveraging the AQMx platform for building capacity of EANET Participating Countries

AQMx
Powered by CCAC @UNEP

- **Duration:** January – December 2027
- **Project Lead:** Climate and Clean Air Coalition (CCAC), and Secretariat for the EANET
- **Beneficiaries:** Primarily targeted to representatives of Ministry of Environment and relevant air pollution control agencies of the EANET PCs.

**Summary:** The Climate and Clean Air Coalition (CCAC) Air Quality Management Exchange Platform (AQMx), launched in 2024, provides guidance, tools, data, and resources to support air quality management and strengthen implementation capacity. This project will build the capacity of EANET Participating Countries to use AQMx resources through a scoping exercise to identify national needs and practical use cases, followed by online webinars featuring guidance, complementary resources, and expert discussions. It will also explore opportunities for longer-term collaboration between EANET and AQMx/CCAC, including joint capacity-building activities, future content development, and knowledge sharing. Expected outputs include enhanced capacity to apply AQMx resources and a report summarizing webinar outcomes and opportunities for further cooperation.

**Budget (2027): 8,000 USD** (*0 requested from the EPF*)

# EANET Project Plan Number: 2026-6 (Continued Project)

## Methodological Study on PM2.5 Source Identification and Capacity Enhancement in EANET with Emphasis on Southeast Asia

- **Duration:** January 2026 – December 2027
- **Project Lead:** Network Center for EANET, Asia Center for Air Pollution Research (ACAP)
- **Beneficiaries:** National and local/city government officers in charge of air quality monitoring, policy makers involved in air pollution mitigation

**Summary:**

This project aims to collaboratively develop standardized methodologies for PM2.5 component measurement and source apportionment among EANET member countries, with a particular focus on Southeast Asia. Through the selection of pilot cities and close collaboration with local laboratories and research institutions, the project will establish regionally adaptable PM2.5 measurement protocols and guidelines. It will also utilize chemical analysis, receptor models, and low-cost sensor (LCS) data to identify and quantify major PM2.5 sources and improve the spatial and temporal resolution of source apportionment. In addition, the project will strengthen institutional and technical capacity through training, knowledge exchange, and collaborative research, thereby supporting evidence-based air quality management and policy development across the region. (Added the Implementation Plan in 2027)



**Budget:** The total amount of required resources in USD is 72,000 (2 years). The requested amount for EANET Project Fund is USD 51,000 (2 years). The estimated amount of co-finance is USD 21,000 (2 years).

# ACTION REQUIRED

The IG28 is invited to review the Draft Work Programme and Budget of the EANET Project Plans in 2027  (EANET/IG28/8/2) and may wish to consider, discuss, provide guidance, and approve, as appropriate

# Thank you

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