

The Working Group Meeting in 2021 Session1 (WG2021-1)  
Acid Deposition Monitoring Network in East Asia  
20-22 April 2021, Virtual Meeting

## **REVISION OF THE MEDIUM TERM PLAN FOR THE EANET (2021-2025)**

### **I. INTRODUCTION**

1. This report provides a proposed revision of the Medium Term Plan for the Acid Deposition Monitoring Network in East Asia (EANET). It is prepared in line with the discussion at the Twenty-second Session of the Intergovernmental Meeting (IG22) on Acid Deposition Monitoring Network in East Asia (EANET)" (EANET/IG 22/10) and "The Decisions of IG22".

### **II. DISCUSSION AT IG22 REGARDING ACTIVITIES UNDER OBJECTIVE 3**

2. The IG22 approved the MTP for the EANET (2021-2025) as its fourth medium-term plan for the EANET. It consists of Core Activities that all Participating Countries consider indispensable, priority, and essential for achieving EANET objectives and beneficial for all Participating Countries directly and indirectly.
3. A detailed draft plan of Core Activities and draft Budget plan in 2021-2025 was also introduced, spread into five Objectives. Under Objective 3 Promotion of Capacity Building, there are no Core Activities since, based on the survey matrix, all capacity building activities have ratings lower score (less than 3.5). Therefore, based on discussion and consensus of the Participating Countries, the capacity building activities would be a part of the Non-Core Activities in 2021.
4. At the IG22, it was suggested to discuss during the next IG23 whether some capacity building-related activities (Non-Core Activity Number 15, 16, 18, and 20 as mentioned in the Work Programme and Budget in 2021) could be moved to the Core Budget of the MTP. Those additions (funded through Core Budget) may increase voluntary financial contributions from the Participating Countries through an amendment to the MTP in 2022. Find below the Activities and estimated annual budget by referring to Table 1-1 Budget for Approved Non-Core Activities in 2021 (US\$) of the Work Programme and Budget in 2021:

<b>Activities</b>	<b>Annual Budget (US\$)</b>
15. Promotion of capacity building for personnel of the participating countries including training courses, capacity building workshops, etc. for monitoring	87,000
16. Promotion of technical support to Participating Countries by the provision of advice, technical information and equipment	107,000
18. Promotion of research and technical cooperation on emission inventory to support the capacity building	12,000 <sup>1)</sup>

20. Conduct fellowship research program	38,000
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*1) Workshop/seminar is planned to be held in 2022 and 2024 in original plan. The additional budget (47,000US\$) will be necessary in the years according to the plan.*

5. To prepare the submission of information regarding this issue to IG23, the Session of WG2021- will make consideration on:
  - a. Financial resources to include all or selected capacity building activities (15,16, 18 and 20) into Core Activities of the MTP (2021-2025);
  - b. If available, the budget amount available (to be included in the revised budget of the MTP, if applicable).

## **II. PROPOSED REVISIONS TO THE TEXT OF MTP (2021-2025)**

6. Some texts of the MTP (2021-2025) need to be revised in order to be in line with the Decisions of IG22, expansion of the scope of EANET, as well as Project Fund and Project Guideline. Therefore, the proposed revision of the MTP text (2021-2025) is prepared in Annex (in track changes mode) for review of the WG2021-1.

## **III. ACTIONS REQUIRED**

1. The Working Group Meeting in 2021 Session 1 (WG2021-1) is invited to review "Revision of the Medium Term Plan for the EANET (2021-2025)" and may wish to consider, discuss, provide guidance, and make recommendations to the IG23 for its review, guidance, particularly on:
  - a. Possibility adding capacity building activities into Core Activities of the MTP (2021-2025) under Objective 3: Promotion of Capacity Building;
  - b. Proposed revisions to the text of the MTP (2021-2025) to be in line with the Decisions of IG22 and expansion of the scope of EANET as well as Project Fund and Project Guideline (Annex).

**Annex**

**The Revised Medium Term Plan  
for the EANET (2021-2025)**  
*(Preliminary Draft)*

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## Acronyms and Abbreviations

ACAP	Asia Center for Air Pollution Research
APCAP	Asia Pacific Clean Air Partnership
BC	Black Carbon
DQO	Data Quality Objective
EANET	Acid Deposition Monitoring Network in East Asia
EC	Elemental Carbon
EG	Expert Group
IBAQ	Integrated Programme for Better Air Quality
IG	Intergovernmental Meeting (on the EANET)
JF	Joint Forum
MTP	Medium Term Plan
MTR	Mid Term Review
NO <sub>x</sub>	Nitrogen Oxides
NC	Network Center (for the EANET)
PM	Particulate Matter
PRSD	Periodic Report on the State of Acid Deposition in East Asia
PSC	Program Support Cost
QA/QC	Quality Assurance and Quality Control
SAC	Scientific Advisory Committee
SDGs	Sustainable Development Goals
SLCPs	Short-Lived Climate Pollutants
SOP	Standard Operating Procedure
SO <sub>x</sub>	Sulfur Oxides
STM	Senior Technical Managers' Meeting
TF	Task Force
UN	United Nations
UNEA	United Nations Environment Assembly
UNEP	United Nations Environment Programme
WG	Working Group
WGS2	Working Group Meeting Session 2
WHO	World Health Organization
VOC	Volatile Organic Compound

# Contents

Acronyms and Abbreviations .....	iv
<b>1. Introduction .....</b>	<b>6</b>
<b>2. General Guidance.....</b>	<b>7</b>
2.1. The Need for Expanding Scope and Activities of the EANET.....	7
2.2. Expansion Scope of Instrument .....	9
2.3. New Activities .....	9
<b>3. Framework of Activities.....</b>	<b>11</b>
3.1. Objectives .....	11
3.2. Activities.....	12
3.2.1. Core Activities .....	12
3.2.2. Project Activities.....	13
3.3. Financial Arrangement .....	13
3.3.1. Core Budget .....	14
3.3.2. Project Fund .....	14
3.3.3. Management of the Fund .....	15
3.3.4. Cost-effectiveness .....	15
3.3.5. Participating Countries.....	16
3.3.6. Future strategies to obtain additional funds .....	16
3.4. Strategic Outreach.....	16
<b>4. Monitoring and Evaluation .....</b>	<b>18</b>
4.1. Monitoring Plan .....	18
4.1.1. Review Method and Schedule of the Project Fund .....	18
4.2. Evaluation Plan.....	18
<b>5. Other Important Issues.....</b>	<b>19</b>
5.1. Strengthening the Secretariat and the Network Center.....	19

## 1. Introduction

To enhance transparency and effectiveness in implementing the activities to achieve the objectives, starting from 2006, the EANET decided to develop its five-year plan, the Medium Term Plans (MTP). In 2021, the EANET will begin the implementation of its fourth MTP for the period 2021 to 2025.

The Medium Term Plan (MTP) for the EANET (2021-2025) provides general guidance and a framework for the EANET operations to plan and implement its activities for the coming five years from January 2021 to December 2025.

Along with this MTP, more detailed arrangements and specific/individual activities will be defined in the annual work programme and budget for each year, determined by the annual IG Session, taking the SAC considerations from the scientific and technical viewpoints into account. The Participating Countries will determine individual activities from time to time under the framework defined by this MTP.

The MTP also provides new features and mechanisms introduced to the EANET operations to expand the scope of the EANET activities, reflecting the preparatory discussions among the Participating Countries, along with the introduction of new "Project Activities"<sup>1</sup> as well as corresponding fund mechanism.

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<sup>1</sup> ~~The term "Non-Core Activities" is applicable in 2021 prior to introduction of the Project Fund Mechanism. Once Project Fund Mechanism is approved by IG23, the term 'Non-Core Activities' will be replaced by 'Project Activities'~~

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## 2. General Guidance

### 2.1. The Need for Expanding Scope and Activities of the EANET

The Participating Countries established the EANET in 2000 to recognize increasing concerns about acid deposition due to rapid economic development in East Asia that had jeopardized environmental sustainability. The establishment of EANET has benefited from the viewpoint of environmental sustainability, and the experience of Europe and other countries that have earlier carried out relevant activities for monitoring of acid deposition and related substances, including quality assurance and quality control (QA/QC), data accumulation and evaluation.

Over the span of 20 years, the accumulation of scientific knowledge and economic development in each country, the environmental pollution situation worldwide, and the urgent and important fields of action have changed significantly. For example, Sustainable Development Goals (SDGs) have been agreed on as global common goals. Air pollution control measures such as PM<sub>2.5</sub> are included as goals to be achieved in view of the health effects of air pollution.

Furthermore, the establishment of the Paris Agreement under the Framework Convention on Climate Change has intensified efforts towards a carbon-free society. From that perspective, energy use without the combustion of fossil fuels, which is one of the factors contributing to acid deposition, is expected. Especially in the context of climate change, the effects of short-lived climate pollutants (SLCPs) such as black carbon (BC), VOCs, and NO<sub>x</sub> have been scientifically clarified, and necessary to understand the emission of SLCPs to elucidate their behavior in the atmosphere.

In the last two decades, various air pollution problems have become a serious threat to many countries. It has changed the air pollution control measures of many EANET Participating Countries. As also reported in the Third Periodic Report on the State of Acid Deposition in East Asia (PRSad3), during that time, it was also observed the shift of major air pollutants from NO<sub>x</sub>, SO<sub>x</sub>, etc. to PM<sub>2.5</sub>, ozone, and VOCs. By considering the changes in global trends and the shift of major air pollutants in each country, it also changed the priority actions taken by the Participating Countries of EANET.

Based on progress achieved in the first half of implementation of the MTP (2016-2020), the Mid-Term Review Report (MTR) on the Implementation of the MTP for the EANET (2016-2020) made recommendations to continue and improve the implementation of activities to achieve the objectives of the EANET.

The MTR acknowledged many essential activities for the future development of the EANET, such as PM and ozone monitoring, capacity building activities, technical support, and research activities, especially emission inventories and modeling, information exchange, development of policy-relevant

reports, public awareness activities. Implementation of the MTR recommendations should be strengthened for the next MTP (2021-2025).

Moreover, the Working Group Meeting of the Proposed Ideas of the Participating Countries for the Next MTP for the EANET (2021-2025) also made recommendations of the activities to be included in the MTP (2021-2025) beyond acid deposition. In the Report, the framework of the expanded scope of the MTP (2021-2025) proposed to include that the EANET will:

- contribute to solving the emerging air pollution issue in the East Asia region;
- expand its scope from acid deposition to air pollution;
- enhance activities related to solutions and measures for air pollution;
- build strategic collaboration with the relevant international organizations and foster collaboration among member countries to tackle air pollution to effectively utilize existing resources and enrich its activities.

The proposed activities were captured and reflected in this MTP, including new activities within the scope of five objectives of the MTP for the EANET (2021-2025).

As such, the Participating Countries acknowledged that the EANET had made excellent progress in acid deposition monitoring cooperation. The EANET has fostered a regional acid deposition monitoring methodology and scientific exchange platform in recent years and has contributed gradually to solving acid deposition problems in East Asia. Considering the success of the EANET in tackling the acid deposition problem and relevant issues, the Participating Countries viewed the EANET could play a role in tackling air quality issues of the region.

The implementation of the EANET activities, directly and indirectly, has been contributed to an improved understanding of air pollution, including not only acid deposition and its primary sources. It has also been contributed to the other air pollution issues as well as to encourage the stakeholders to take actions against the issues. As a result, the Fourth United Nations Environment Assembly (UNEA) recognized EANET's contribution to progress implementation of resolution 3/8 on preventing and reducing air pollution to improve air quality globally through its monitoring and assessment activities.

Considering the progress mentioned above and changing situation around air pollution-related issues, the EANET will further contribute to the achievement of various relevant SDGs and targets, given the cross-cutting nature of air pollution and its sources. The following SDGs and targets are of particular relevance to the EANET:

- SDG 3 – target 9: By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water, and soil pollution and contamination;



- SDG 12 – target 4: By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water, and soil in order to minimize their adverse impacts on human health and the environment;
- SDG 17 – target 9: Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the sustainable development goals, including through North-South, South-South, and triangular cooperation.

## **2.2. Expansion Scope of Instrument**

The EANET activities have been implemented in accordance with the Instrument for Strengthening the Acid Deposition Monitoring Network in East Asia (hereinafter referred to as the Instrument). Item 2 of the Instrument provides that the Instrument scope may be extended by the Meeting of the Participating Countries (known under the Instrument as the "Intergovernmental Meeting" or "IG."), through potential options including the necessary adjustment to Instrument, developing supplementary documents, etc.

The IG22 discussed the scope expansion of the EANET. Some activities relating to air pollution including types of activities and/or substances or targets areas, are a major interest to Participating Countries but may be beyond the current scope of the EANET. Therefore, IG22 agreed to start to expand the scope of the Instrument.

## **2.3. New Activities**

The MTP (2021-2025) is developed through various EANET meetings and discussions by focusing on the continuity of current activities as Core Activities and new types of activities as "Project Activities". For that reason, the MTP (2021-2025) includes new features, such as re-defining the categories of activities, introducing a new financial arrangement, and seeking collaboration with potential partners, in accordance with the IG's decision.

All of the activities identified in the MTP (2021-2025) would be part of the Core Activities of EANET. In terms of the Project Activities, they would be identified in each annual work program and budget from 2021 to 2025, which may include some activities that continued from previous MTP and some new activities. Depending on the type of activities and the financial arrangement, such new activities would be implemented gradually and managed in a phased manner. This new feature of the Project Activities would accommodate the identification and implementation of new activities in the expanded scope of the EANET, once the scope of Instrument of the EANET has been expanded through the necessary arrangements stated in 2.2

Some of the activities of the MTP (2021-2025) would be implemented in a similar manner as in the

previous MTPs and will be implemented gradually, particularly during the early years (2021-2022). The phased approach would be reflected in each annual work programme and budget in the period of this MTP and include the revision of relevant administrative regulations and guidelines.

Besides, some of the activities that were implemented in the previous MTP (2016-2020), including some of the activities carried out by the task forces, which were established with the approval of the IG, that are inactive, would be streamlined. In addition, the activities that are of low priority or less urgency will be reviewed based on the needs of the Participating Countries and according to scientific viewpoints.

Throughout the MTP period, the preparation and implementation of new types of activities would be reviewed to further develop and refine the new features. In this context, this MTP could be revised by the IG in line with the development of new features and collaboration with partners.

### 3. Framework of Activities

#### 3.1. Objectives

In developing the MTP (2021-2025), the general nine principles proposed by the Participating Countries are: (i) keep and extend the obtained experience of the EANET in developing the MTP; (ii) concentration on the real needs of countries in monitoring and data handling or using; (iii) continue with the scientific assessment of the EANET data and related information over the EANET region; (iv) initiate and develop new environmental issues being common interest among countries; (v) maintain the sustainability of the EANET monitoring; (vi) pursue a policy on data dissemination and assessment; (vii) develop a more complex evaluation of data including a specific simplified model application and environmental investigation of air pollution effects; (viii) promote sound financial basis; and (ix) promote cooperation among countries and with other regional initiatives on new environmental issues in the EANET region.

Considering these proposed principles and the activities taken under previous MTPs of the EANET, the following five objectives are set for the EANET activities under the MTP for the EANET (2021-2025)

#### **Objectives of the MTP for the EANET (2021-2025)**

**Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC)** – Assist Participating Countries to conduct qualified monitoring of air quality and acid deposition through providing technical guidance, maintenance of the monitoring instrument, improvements of the methods, guidelines, conducting quality assurance and quality control (QA/QC) activities.

**Objective 2<sup>2</sup>: Promotion of data utilization and dissemination** – Collect, analyze and evaluate data of monitoring of air quality and acid deposition and share the results to relevant stakeholders to encourage them to utilize the results to tackle the air pollution. The results include policy recommendations. To achieve this objective, research activities on selected subjects can be promoted.

**Objective 3: Promotion of capacity building** - Strengthen the capacity of the Participating Countries through various activities, including training, workshops, technical supports to Participating Countries, and fostering mutual capacity building cooperation.

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<sup>2</sup> Following the recommendation of the Participating Country at the WG Meetings, Objective 5. Promotion of concrete air pollution measures in the first draft of the MTP (2021-2025) has been merged with Objective 2.

**Objective 4: Enhancement of outreach activities** – Enhance outreach to the stakeholders in order to raise their awareness, to encourage them to take appropriate actions and develop collaborative joint activities with EANET.

**Objective 5: Enhancement of cooperation and collaboration** – Enhance collaborative and/or joint activities with relevant entities including international and/or regional organizations, air pollution-related regional frameworks, financial institutions, research institutes, and interested governments of Non-Participating Countries, to tackle air pollution issues.

## **3.2. Activities**

Objectives of MTP for the EANET (2021-2025) will be achieved through activities implemented solely by the EANET bodies, including the Secretariat, the NC, the SAC, and other relevant bodies, as well as activities implemented jointly by the EANET bodies and their partners that will be identified in the course of implementation of the MTP.

The Secretariat, the NC, the SAC, other relevant bodies of the EANET, and Participating Countries are expected to collaborate to achieve the objectives of the MTP by developing and implementing the activities. Expected outputs, measurable indicators, and implementation period for each activity shall be identified in the annual work programme and budget as well as individual documents specifically prepared for the activity.

Activities under the MTP are divided into the following two categories, namely, Core Activities and Project Activities.

### **3.2.1. Core Activities**

Core Activities consist of activities that all Participating Countries consider indispensable, priority, and essential for achieving EANET objectives, and beneficial for all Participating Countries directly and indirectly. Typical examples of Core Activities include monitoring, developing technical manuals and guidelines, implementing quality assurance and quality control (QA/QC) activities.

They also include managing work of the EANET, such as organizing the meetings of the IG and the SAC, maintaining basic operations of the Secretariat and the NC, and conducting periodical reviews, as described in MTP and annual work programme and budget. Core Activities are financed by the Core Budget provided by a voluntary financial contribution from the Participating Countries.

Details of the Core Activities to be implemented during this MTP are shown in Annex 1.

### **3.2.2. Project Activities**

The term Project Activities is newly introduced in this MTP to bring flexibility and possibility to engage new types of activities, including (i) activities identified or proposed and ready to implement after the annual work program and budget determined, such as activities offered or co-financed by partners; (ii) activities of which beneficiaries are limited to part of the Participating Countries but duly financed by additional voluntary contributions from some Participating Countries or external partners; (iii) and other activities to mobilize external finance to achieve the objectives of the MTP. This could include new activities in the expanded scope of the EANET, once the scope of the EANET has been expanded through the necessary arrangements stated in 2.2.

The Project Activities consist of projects to be financed through a new financial arrangement described in 3.3.2 and dedicated to Project Activity in this MTP and described in the next section. Each project must be supported financially or through in-kind contributions by the interested Participating Countries and/or partner organizations through their earmarked financial contributions and/or in-kind contributions.

The Project Activities will be proposed within the current scope unless the expanded scope is adopted and operated after being approved by IG. Furthermore, an activity plan is to be prepared by project proponents, such as a group of Participating Countries with the minimum limitation, the EANET bodies, and other entities, and then proposed to all the Participating Countries of EANET and the IG for their consideration and approval for implementation, taking into account the comments from corresponding working group for project-reviewing and hence the scientific and technical advice of SAC members, if appropriate.

Each approved project will be implemented by either the Secretariat, the NC, a group of Participating Countries, or other entities as defined in the proposal approved by the IG.

Non-Participating Countries or their organizations could be part of the beneficiaries of the project with IG approval.

Detailed procedures for proposing, reviewing and approving Project Activities will be developed for IG23's consideration and approval.

### **3. 3. Financial Arrangement**

To date, the EANET has been operating by utilizing the voluntary contributions of financial and human resources from Participating Countries and contributions from other entities. In the implementation of MTP (2021-2025), the EANET strongly encourages potential partners to strengthen the EANET activities through joint project collaboration or financial contribution. The Participating Countries' efforts and contributions to the EANET monitoring activities at the national

level are remarkable. The contributions have been communicated continuously to the Participating Countries through the Sessions of the IG and other means of communication.

In the MTP (2021-2025), the EANET will have two financial means: Core Budget and a new financial arrangement, which is called "Project Fund" in this document.

### **3.3.1. Core Budget**

The Core Budget will be utilized for the implementation of Core Activities. The source of the Core Budget would come from the annual voluntary financial contribution from the Participating Countries. The amount of financial contribution from each Participating Country to the Core Budget will be based on the calculation of the latest UN Scale Voluntary Assessment.

A Participating Country may voluntarily provide its additional contribution to the Core Budget at any time. The partner organization may also provide its financial contribution to the Core Budget or financial and/or in-kind contribution to selected Core Activities. Core Activities of the MTP (2021-2025) are shown in Annex 1.

The estimated total amount and details of the Core Budget necessary for the proposed set of Core Activities over five years of the MTP (2021-2025) are presented in Annex 2. As a note, the amount of each activity's budget is not a fixed figure and therefore, could be revised in each work programme as mentioned in "3.3.4. Cost-effectiveness".

### **3.3.2. Project Fund**

The new financial arrangement called "Project Fund" is the fund dedicated to implementing individual projects categorized as Project Activities. The Project Fund sources would come from the additional financial contributions of the Participating Countries, such as additional voluntary contributions, in-kind contributions of the Participating Countries, and other entities, allowing activities to be linked to the Project Fund. Detailed procedures and necessary arrangements for this new fund will be developed in 2021.

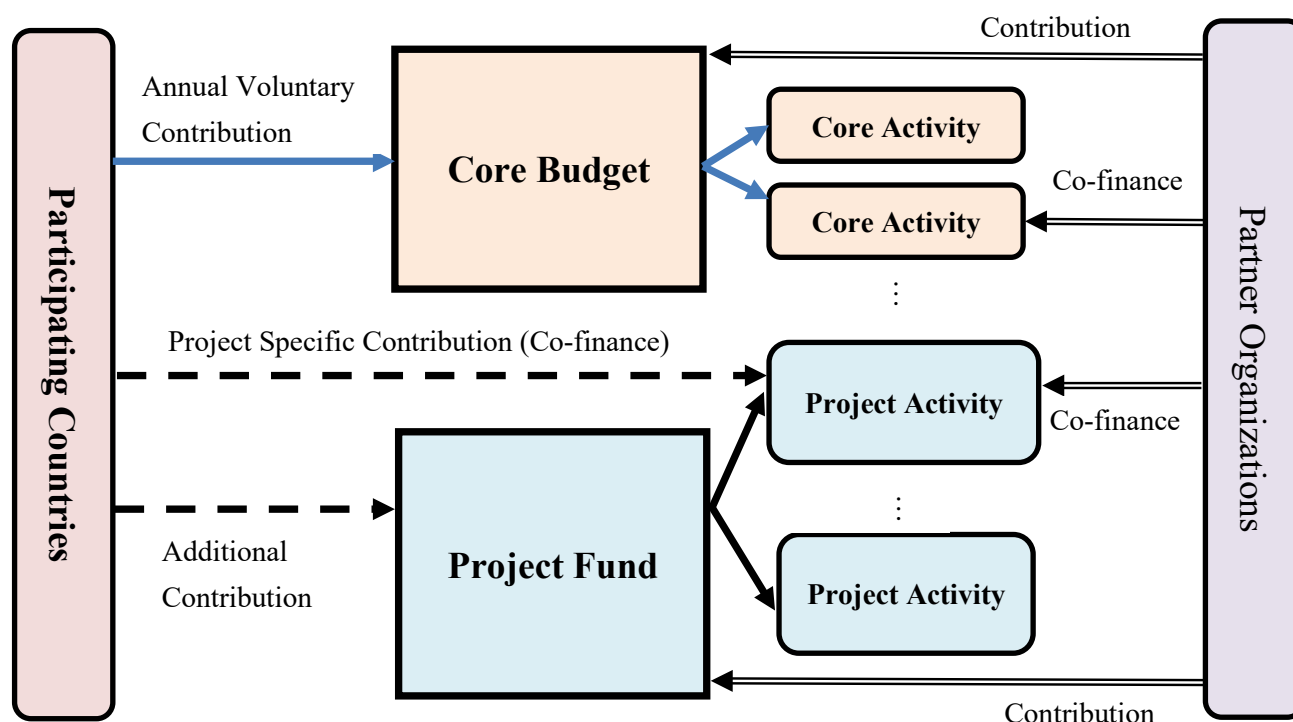
Activities marked as Project are subject to be implemented to available funds from Project Fund unless otherwise decided differently by the IG. Any partner organization (including an individual Participating Country) could provide their financial or in-kind contributions to a specified project called a co-finance. If no co-finance is available for a certain project, such a project will not be approved nor implemented.

The implementation of an activity under the Project Fund will be assessed annually by the IG to determine whether that activity could be implemented in the following year. Detailed stipulations are

shown in the Revision of the Guidelines on the Administrative and Financial Management for the Secretariat and the Network Center (Preliminary Draft) (EANET/WG2021-1/8).

Figure 1 illustrates several types of contributions from the Participating Countries to the Core Budget, Project Fund and several pathways of co-finance from partner organizations.

Fig. 1 Contributions from the Participating Countries and Co-finance



### 3.3.3. Management of the Fund

By introducing the Project Fund as a new mechanism in this revised preliminary draft MTP, the management of the funds will become more complex. For that reason, the management of funds will be continuously improved, particularly for the management method of the Project Fund. It will be clarified through the actual preparation and implementation process of activities financed by the Project Fund, in which the preparation and implementation of activities will be started with preliminary or tentative management methods. In contrast, such management methods will be reviewed continuously based on such initial activities, revised as appropriate, and reflected by the actual management.

### 3.3.4. Cost-effectiveness

The project design and implementation's cost effectiveness are essential in implementation of activities of the MTP (2021-2025) as the resources to implement activities consist of contributions from the Participating Countries and partner organizations. Therefore, each activity's budget will be

reviewed and revised annually in each work programme to 1) improve cost-efficient design and implementation, and 2) secure financial room for additional activities to be implemented.

### **3.3.5. Participating Countries**

The cost necessary for the Participating Countries to operate and manage the existing monitoring sites and to establish and manage new monitoring sites should, in principle, be borne by the countries by utilizing their national funds. The Participating Countries shall be committed to support their monitoring program and providing high-quality measurement data. Recognizing the fact that some Participating Countries have limited financial resources to establish new sites, to acquire the necessary sampling equipment and conduct chemical analyses, the Secretariat and the NC will make efforts to provide support to secure additional funds to support those Participating Countries.

### **3.3.6. Future strategies to obtain additional funds**

The Secretariat, the NC, and the Participating Countries shall continue to explore financial support from all available sources. In line with the financial arrangement set in the previous section, actions taken by the Secretariat, the NC, and the Participating Countries to fulfil the resource demand of the activities to be implemented shall include:

- Diversification of financial sources;
- Clarification of categories/activities/projects to be supported;
- Strengthened partnerships with international and regional donor agencies and other environmental initiatives;
- Additional voluntary financial contributions and in-kind contributions by the Participating Countries;
- Support and funds from research foundations and regional-scale projects.

## **3.4. Strategic Outreach**

The output from the EANET, such as monitoring data and assessment results, is beneficial for policymakers on air pollution abatement in the East Asian region and the whole of Asia or even in the world. Moreover, they are also beneficial for various stakeholders, including academia, the private sector, other relevant organizations, etc. Therefore, outreach activities for these stakeholders are important. Thus, strategic and systematic outreach activities will be strengthened, and a system for those purposes will be established.

Examples of outreach activities could be as follows:

- On-time/rapid preparation/disclosure of concise and impactful reports based on scientific assessments for policymakers and private stakeholders



- Active presentations and disseminate the prepared reports at international and/or regional meetings in the region (IBAQ, forum of the environment, APCAP/JF, etc.) (it could be in the form of seminars).
- Contribution to the preparation process of Global Environmental Outlook by UNEP and active involvement and provision of inputs to UN and WHO considering the contribution to the evaluation of achievements on SDGs targets relevant to the atmosphere.
- Renewal/improvement of the website and news.

In the case that a non-participating country is interested in contributing to any EANET expanded activities in collaboration with partner institutions and with available funds, such non-Participating Country will be allowed to collaborate in either Core Activities and/or Project Activities, with approval of IG.

In the case that a non-participating country is interested in participating in the EANET, the Secretariat and the NC would conduct the consultation with the country, in accordance with Item 17 of the Instrument, "Countries in East Asia, which includes Northeast Asia and Southeast Asia, not participating in the EANET, may subsequently submit to the Secretariat an application for participation, which is subject to approval by the IG." In line with this, effective outreach activities would be recommended to raise awareness of international community on EANET, particularly by introducing its activities and impacts.

## **4. Monitoring and Evaluation**

### **4.1. Monitoring Plan**

The Secretariat and the NC will prepare annual progress reports of activities and financial reports on the EANET operations. These reports will be submitted and reviewed at the Sessions of the SAC and the IG as appropriate. The Monitoring Plan for the MTP for the EANET (2021-2025) is attached as Annex 3.

#### **4.1.1. Review Method and Schedule of the Project Fund**

The new period of fund of the revised MTP (2021-2025) will begin in 2022 after the decision on Project Fund and Project Activities at the IG23 in 2021. The system design related to the new fund will be reviewed as appropriate.

### **4.2. Evaluation Plan**

The MTP for the EANET (2021-2025) will be reviewed twice by the IG in 2023 and 2026. There will be a mid-term review, "Mid-Term Report on the Implementation of the MTP for the EANET (2021-2025)" in 2023 and a final review, "Final Report on the Implementation of the MTP for the EANET (2021-2025)," in the first half of 2026.

Detailed reports on the activities shall be presented for the reviews identifying the achievements, candidates of streamlining activities and/or cost, challenges encountered during the implementation of the activities, and necessary corrective actions to overcome the challenges. Additional revisions of the MTP for the EANET (2021-2025) may be proposed for the consideration of the IG, if necessary. The evaluation will be conducted in light of the objectives and expected outputs of the activities identified in the MTP and annual work programme and budget, as well as individual project documents.

## **5. Other Important Issues**

### **5.1. Strengthening the Secretariat and the Network Center**

With the expansion of the scope of activities in the MTP (2021-2025), it is necessary to actively develop cooperation with non-participating countries and related organizations to seek opportunities, foster, and prepare various activities financed through Project Fund. Therefore, flexible and active responses by the Secretariat and the NC is required. The Secretariat and the NC shall be supported and strengthened to vitalize the EANET as a major regional framework working together actively against the region's air pollution agenda.

## Annex 1: Core Activities of the MTP for the EANET (2021-2025)

**Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC)** - Assist Participating Countries to conduct qualified monitoring of air quality and acid deposition through providing technical guidance, maintenance of the monitoring instrument, improvements of the methods, guidelines, conducting quality assurance and quality control (QA/QC) activities.

No.	Activities	Expected outputs	Indicators (as appropriate)	Implementa- tion period	Lead organi- zation	Partners	Other related objectives
		Milestones (M) (as appropriate)					
1	Monitoring of acid deposition (acidifying species and related chemical substances such as ozone and PM) including an increase of EANET monitoring sites, improvement in monitoring methodologies and better instrument maintenance	1. More comprehensive monitoring in accordance with the technical documents	Number of increased monitoring sites and items, especially ozone and PM	2021-2025	NC	Participating countries SAC/TFs	2
		2. Updated SOP of each lab and QA/QC Guidebook	Number of labs that developed SOP	2021-2025	NC	Participating countries	2, 3
2	Development/revision of (technical) guidelines, technical manuals, and documents, as necessary	3. Revised guidelines for acid deposition in East Asia, revised technical manuals for air concentration monitoring and dry deposition flux estimation in East Asia by the respective task forces and/or expert groups under SAC M1: Establishing task force and/or expert group at IG when development/revision of guideline is necessary	Numbers of increased sites and parameters related to improved guidelines, technical manuals, etc.	2021-2025	TFs/EGs	SAC, NC, Participating countries	2, 5

3	Development/update of strategy papers for guidance on the future direction of the monitoring, as necessary	4. Updated strategy papers prepared by the respective task forces under SAC M2: Adoption of developed/ revised strategy papers at SAC	Number of improved and/or new activities in accordance with the updated strategy papers	2021-2025	TFs	SAC, NC, Participating countries,	2, 5
4	Implementation of quality assurance and quality control (QA/QC) activities on acid deposition	5. Annual inter-laboratory comparison surveys to identify analytical problems	Number of participating labs and number (percentage) of labs that all of the data are within the data quality objectives (DQOs)	2021-2025	NC	Participating countries, SAC/TFs	2, 3
5	Routine compilation, verification, evaluation, storage and provision of data and maintenance of database	6. A complete, updated dataset available within the next year		2021-2025	NC	SAC, Participating countries	2
		7. Annual publication of Data Report M3: Adoption of Data Report at SAC	Number of scientific papers citing EANET Data Reports	2021-2025	NC	SAC, Participating countries	2

**Objective 2: Promotion of data dissemination and utilization** - Collect, analyze and evaluate data of monitoring of air quality and acid deposition and share the results to relevant stakeholders to encourage them to utilize the results to tackle the air pollution. The results include policy recommendations. To achieve this objective, research activities on selected subjects can be promoted.

No.	Activities	Expected outputs	Indicators (as appropriate)	Implementation period	Lead organization	Partners	Other related objectives
		Milestones (M) (as appropriate)					
6	Conduct annual assessment of the state of acid deposition using trend analysis, numerical models	8. Assessments of the EANET data by the Task Forces and SAC including assessment of current status, trends, and use of model outputs	Number of scientific papers citing EANET Data Reports	2021-2025	NC	Participating countries, SAC/TFs	1
7	Development of Periodic Report on the State of Acid Deposition in East Asia (PRSAD, regional assessment report published every 5 years), including the impact on plants and ecosystems.	9. Periodic Reports on the State of Acid Deposition in East Asia (PRSAD)	Number of scientific papers citing PRSAD	2021-2025	SAC (Drafting Committee)	NC/Sec. Participating countries	1, 4, 5
8	Regular updating of the website	10. Regularly updated website	Number of visited people to EANET website	2021-2025	NC/Sec	Sec., Participating countries	1, 4
9	Upgrading of the data management system in the NC to enable easy access by approved users	11. An improved data management system at the NC	Number of applications to obtain EANET data	2021-2025	NC	Participating countries	1, 4

**Objective 3: Promotion of capacity building** - Strengthen the capacity of the Participating Countries through various activities, including training, workshops, technical supports to Participating Countries, and fostering mutual capacity building cooperation.

No Core Activities under this objective (as its main objective). However, many activities under other objectives are also contributed to achievement of Objective 3 (See the last column: Other related objectives).

**Objective 4: Enhancement of outreach activities** - Enhance outreach to the stakeholders in order to raise their awareness, to encourage them to take appropriate actions and develop collaborative joint activities with EANET.

No.	Activities	Expected outputs	Indicators (as appropriate)	Implement- ation period	Lead organiza- tion	Partners	Other related objectives
		Milestones (M) (as appropriate)					
10	Promotion of public awareness on acid deposition including other priority chemical species, etc.	12. Public awareness and environmental education materials disseminated through publications, video promotional of EANET, info briefs, banners, email blurb, and photo archives	Number of related materials distributed	2021-2025	Sec./NC	Participating countries	2, 3
		13. Periodic issues of the Newsletter	Number of visited people to the related website	2021-2025	Sec./NC	Participating countries	2, 3
		14. Regional and/or national workshops on the prevention of acid deposition, including webinars, and to be implemented in line with EANET communication and media plan	Number of the public attended the awareness workshop	2021-2025	Sec.	NC, Participating countries	2, 3

**Objective 5: Enhancement of cooperation and collaboration** - Enhance collaborative and/or joint activities with relevant entities including international and/or regional organizations, air pollution-related regional frameworks, financial institutions, research institutes, and interested governments of Non-Participating Countries, to tackle air pollution issues.

No.	Activities	Expected outputs	Indicators (as appropriate)	Implementa- tion period	Lead organiza- tion	Partners	Other related objectives
		Milestones (M) (as appropriate)					
11	Arrangements for the EANET Sessions agreed to by the IG	15. 1 session per year for the IG and SAC; and some TF/EG meetings held	Number of EANET Sessions held as planned	2021-2025	Sec./NC	IG/SAC, Participating countries	1, 2, 3, 4
		16. 1 session per year for the STM meetings held	Number of EANET Sessions held as planned	2021-2025	NC	Participating countries, Sec.	1, 2, 3, 4
12	Consideration on future development of the EANET	17. Recommendation on future development of the EANET as appropriate	Number of new and/or expanded activities	2021-2025	Sec./NC	IG/SAC, Participating countries	1, 2, 3, 4
13	Review of the arrangements of the EANET Secretariat and the NC	18. Improved performance and transparency of the Secretariat and the NC	Questionnaire survey to the participating countries	2021-2025	Sec./NC	IG/SAC, Participating countries	1, 2, 3, 4
14	Revision of Guidelines on Administrative and Financial Management for the Secretariat and the NC taking account of the new decisions of the IG	19. Improved Guidelines on Administrative and Financial Management for the Secretariat and the NC if necessary	Implementation of periodic revision of Guidelines	2021-2025	Sec./NC	IG, Participating countries	1, 2, 3, 4
15	Review of the MTP (2016-2020), revision of the MTP (2021-2025) if necessary, and development of the next MTP for the EANET (2026-2030)	20. Final report on the review of the implementation of the MTP for the EANET (2016-2020)	Implementation of final review	2021	Sec./NC	IG, Participating countries	1, 2, 3, 4
		21. Report on the mid-term review on the implementation of the MTP for the EANET	Implementation of mid-term review	2023-2025	Sec./NC	IG/SAC, Participating countries	1, 2, 3, 4



		(2021-2025) and Revised MTP for the EANET (2021-2025) as appropriate					
		22. MTP for the EANET (2026-2030)	Development of the MTP (2026-2030)	2024-2025	Sec./NC	IG/SAC, Participating countries	1, 2, 3, 4
16	Sharing a common understanding on atmospheric environment issues among the scientific community	23. Information sharing with scientific communities	Number of international organizations exchanged information	2021-2025	NC	Sec, SAC, Scientific community in East Asia	1, 2, 3, 4

**Others: Administrative works**

No.	Activities	Expected outputs	Indicators (as appropriate)	Implementation period	Lead organization	Partners	Other related objectives
		Milestones (as appropriate)					
17	Administrative works			2021-2025	Sec/NC		1, 2, 3, 4, 5

## Annex 2: Estimated Workload and Cost Necessary of the Core Activities for the Secretariat and the Network Center

"Estimated Workload and Cost Necessary of the Core Activities for the Secretariat and the Network Center" will be reviewed annually and finalized in the Work Programme and Budget of the EANET approved by the IG in the previous year.

**Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC)** - Assist Participating Countries to conduct qualified monitoring of air quality and acid deposition through providing technical guidance, maintenance of the monitoring instrument, improvements of the methods, guidelines, conducting quality assurance and quality control (QA/QC) activities.

Activities	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					NC Workload (Man-months)					NC Cost (in 1,000 USD)				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
1. Monitoring of acid deposition (acidifying species and related chemical substances such as ozone and PM) including an increase of EANET monitoring sites, improvement in monitoring methodologies and better instrument maintenance											8.0	8.0	8.0	8.0	8.0	63.0	63.0	63.0	63.0	63.0

2. Development/ revision of (technical) guidelines, technical manuals and documents, as necessary											2.0	1.0	1.0	1.0	1.0	12.0	6.0	6.0	6.0	6.0
3. Development/ update of strategy papers for guidance on the future direction of the monitoring, as necessary											1.0	1.0	1.0	2.0	2.0	6.0	6.0	6.0	12.0	12.0
4. Implementation of quality assurance and quality control (QA/QC) activities on acid deposition											4.0	4.0	4.0	4.0	4.0	44.0	44.0	44.0	44.0	44.0
5. Routine compilation, verification, evaluation, storage and provision of data and maintenance of database											7.0	7.0	7.0	7.0	7.0	47.0	47.0	47.0	47.0	47.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>22.0</b>	<b>21.0</b>	<b>21.0</b>	<b>22.0</b>	<b>22.0</b>	<b>172.0</b>	<b>166.0</b>	<b>166.0</b>	<b>172.0</b>	<b>172.0</b>

**Objective 2: Promotion of data dissemination and utilization** - Collect, analyse and evaluate data of monitoring of air quality and acid deposition and share the results to relevant stakeholders to encourage them to utilize the results to tackle the air pollution. The results include policy recommendations. To achieve this objective, research activities on selected subjects can be promoted.

Activities	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					NC Workload (Man-months)					NC Cost (in 1,000 USD)				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
6. Conduct annual assessment of the state of acid deposition using trend analysis, numerical models											3.0	3.0	3.0	3.0	3.0	18.0	18.0	18.0	18.0	18.0
7. Development of Periodic Report on the State of Acid Deposition in East Asia (PR SAD, regional assessment report published every 5 years), including the impact on plants and ecosystems											6.0	2.0		1.0	5.0	86.0	27.0		6.0	65.0
8.Regular updating of the website	2.0	2.0	2.0	2.0	2.0	22.0	22.0	22.0	22.0	22.0	2.0	2.0	2.0	2.0	2.0	22.0	22.0	22.0	22.0	22.0

9. Upgrading of the data management system in the NC to enable easy access by approved users														2.0	2.0					12.0	12.0
<b>Total</b>	2.0	2.0	2.0	2.0	2.0	22.0	22.0	22.0	22.0	22.0	11.0	7.0	5.0	8.0	12.0	126.0	67.0	40.0	58.0	117.0	

**Objective 3: Promotion of capacity building** - Strengthen the capacity of the Participating Countries through various activities, including training, workshops, technical supports to Participating Countries, and fostering mutual capacity building cooperation.

No Core Activities under this objective (as its main objective). However, many activities under other objectives are also contributed to achievement of Objective 3.

**Objective 4: Enhancement of outreach activities** - Enhance outreach to the stakeholders in order to raise their awareness, to encourage them to take appropriate actions and develop collaborative joint activities with EANET.

Activities	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					NC Workload (Man-months)					NC Cost (in 1,000 USD)				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
10. Promotion of public awareness on acid deposition including other priority chemical species, etc.	4.0	4.0	4.0	4.0	4.0	43.6	43.6	43.6	43.6	43.6	3.0	3.0	3.0	3.0	3.0	21.0	21.0	21.0	21.0	21.0
<b>Total</b>	4.0	4.0	4.0	4.0	4.0	43.6	43.6	43.6	43.6	43.6	3.0	3.0	3.0	3.0	3.0	21.0	21.0	21.0	21.0	21.0

**Objective 5: Enhancement of cooperation and collaboration** - Enhance collaborative and/or joint activities with relevant entities including international and/or regional organizations, air pollution-related regional frameworks, financial institutions, research institutes, and interested governments of Non-Participating Countries, to tackle air pollution issues.

Activities	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					NC Workload (Man-months)					NC Cost (in 1,000 USD)				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
11. Arrangements for the EANET Sessions agreed to by the IG	11.0	11.0	11.0	11.0	11.0	329.6	329.6	329.6	329.6	329.6	13.0	13.0	13.0	13.0	13.0	183.0	183.0	183.0	183.0	183.0
12. Consideration on future development of the EANET				1.0	1.0				9.3	9.3	1.0	1.0	1.0	2.0	2.0	6.0	6.0	6.0	12.0	12.0
13. Review of the arrangements of the EANET Secretariat and the NC	1.0	1.0	1.0	1.0	1.0	9.3	9.3	9.3	9.3	9.3	1.0	1.0	1.0	1.0	1.0	6.0	6.0	6.0	6.0	6.0
14. Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG	1.0		1.0		1.0	9.3		9.3		9.3				1.0	1.0				6.0	6.0

15. Review of the MTP (2016-2020), revision of the MTP (2021-2025) if necessary, and development of the next MTP for the EANET (2026-2030)	3.0		3.0	3.0	2.0	37.9		20.0	34.0	14.7	2.0		1.0	3.0	3.0	12.0		6.0	18.0	18.0
16. Sharing a common understanding on atmospheric environment issues among the scientific community	0.5	0.5	0.5	0.5	0.5	3.7	3.7	3.7	3.7	3.7	1.0	1.0	1.0	1.0	1.0	6.0	6.0	6.0	6.0	6.0
<b>Total</b>	16.5	12.5	16.5	16.5	16.5	389.8	342.6	371.9	385.9	375.9	18.0	16.0	17.0	21.0	21.0	213.0	201.0	207.0	231.0	231.0

**Others: Administrative works**

Activities	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					NC Workload (Man-months)					NC Cost (in 1,000 USD)				
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
17. Administrative works	13.0	13.0	13.0	13.0	13.0	98.5	98.5	98.5	98.5	98.5	10.0	10.0	10.0	10.0	10.0	60.0	60.0	60.0	60.0	60.0
<b>Total</b>	13.0	13.0	13.0	13.0	13.0	98.5	98.5	98.5	98.5	98.5	10.0	10.0	10.0	10.0	10.0	60.0	60.0	60.0	60.0	60.0

**Summary Table of Total Workload and Cost of the Secretariat and the NC in 2021-2025**

**(Secretariat)**

Workload and Cost	Secretariat Workload (Man-months)					Secretariat Cost (in 1,000 USD)					Average Workload / year	Average Budget/year (in 1,000 USD)	Total Workload 5 years	Total Budget 5years (in 1,000 USD)
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025				
<b>Core Budget</b>	35.5	31.5	35.5	35.5	35.5	553.9	506.7	536.0	550.0	540.0	34.7	537.3	173.5	2,686.6
<b>Core Budget + 13% Program Support Cost</b>						625.9	572.6	605.7	621.5	610.2		607.2		3,035.9

**(Network Center)**

Workload and Cost	Network Center Workload (Man-months)					Network Center Cost (in 1,000 USD)					Average Workload / year	Average Budget/year (in 1,000 USD)	Total Workload 5 years	Total Budget 5years (in 1,000 USD)
	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025				
<b>Core Budget</b>	64.0	57.0	56.0	64.0	68.0	592.0	515.0	494.0	542.0	601.0	61.8	548.8	309.0	2,744.0



### Annex 3: Schedule of Monitoring on the Implementation

Year	Month	Event/Activity	Deliverables
2021	January	Distribution of the MTP document to NFPs, SAC members.	Start implementation of the activities according to the plan
2021	October	Twenty-first Session of the Scientific Advisory Committee (SAC21)	Review of the draft of the Report on Implementation of the MTP for the EANET (2016-2020) from scientific and technical viewpoints. Discussion on the progress of implementation of the scientific activities
2021	November	Twenty-third Session of the Intergovernmental Meeting (IG23)	Review of draft Report on Implementation of the MTP for the EANET (2016-2020) for possible adoption. Updates on the activities will be given in the Report on the Progress of EANET by the Secretariat and NC for adoption as appropriate
2022	October	Twenty-second Session of the Scientific Advisory Committee (SAC22)	Discussion on the progress of implementation of the scientific activities
2022	November	Twenty-fourth Session of the Intergovernmental Meeting (IG24)	Updates on the activities will be given in the Report on the Progress of EANET by the Secretariat and NC
2023	October	Twenty-third Session of the Scientific Advisory Committee (SAC23)	Discussion on the draft Mid-Term Review Report on Implementation of the MTP for the EANET (2021-2025)
2023	November	Twenty-fifth Session of the Intergovernmental Meeting (IG25)	Adoption of the revised draft of the Mid-Term Review Report of Implementation of the MTP for the EANET (2021-2025)
2024	October	Twenty-fourth Session of the Scientific Advisory Committee (SAC24)	Discussion on the progress of implementation of the scientific activities Discussion on the next MTP from scientific and technical viewpoints
2024	November	Twenty-sixth Session of the Intergovernmental Meeting (IG26)	Updates on the activities will be given in the Report on the Progress of EANET by the Secretariat and NC Discussion on the next MTP
2025	October	Twenty-fifth Session of the Scientific Advisory Committee (SAC25)	Discussion on the next MTP from scientific and technical viewpoints
2025	November	Twenty-seventh Session of the Intergovernmental Meeting (IG27)	Discussion on the next MTP to be adopted by the IG