

EANET/IG22/8/2/b

Draft Work Program and Budget of the EANET in 2021

Network Center for the EANET (including Non-Core Activities)



Network Center

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Introduction

- The Secretariat and the NC prepared the Draft Work Programme and Budget of the EANET in 2021 for consideration at the Second Working Group Meeting on Drafting Medium Term Plan (MTP) for the EANET (2021-2025) and Reviewing the Scope of Instrument (WGS2) held on 20-22 October 2020. Prior to this, the First Draft of MTP (2021-2025) was discussed in the WGS1 meeting in June 2020 and later submitted to SAC 20 in September 2020 for scientific and technical feedback.
- This document will be submitted for consideration and approval at the IG22.
- The Draft Work Programme and Budget in 2021 are in line with the Final Draft MTP for the EANET (2021-2025) and are presented in the Attachment.

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Core Activities of the EANET in 2021 (Draft)

- The Core Activities of the EANET in 2021 are in line with the Final Draft Medium Term Plan (MTP) for the EANET (2021-2025). Core Activities consist of activities that all Participating Countries consider indispensable, priority, and essential for achieving the EANET’s objectives, and beneficial for all Participating Countries directly and indirectly.
- Typical examples of core activities include monitoring, development of technical manuals and guidelines, implementation of 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.

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Core Activities of the EANET in 2021 (Draft)

Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM 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.

- Activity 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 (Existing activities)**
- Activity 2: Development/revision of (technical) guidelines, technical manuals and documents, as necessary (Existing activities)**
- Activity 3: Development/ update of strategy papers for guidance on the future direction of the monitoring as necessary (Existing activities)**
- Activity 4: Implementation of quality assurance and quality control (QA/QC) activities on acid deposition (Existing activities)**
- Activity 5: Routine compilation, verification, evaluation, storage and provision of data and maintenance of database (Existing activities)**

Objective 2: 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, that may include monitoring methods, modelling, ambient air quality standards, emission sources and inventory, air quality management, as well as linkages between air quality and climate change, can be promoted.

- Activity 6: Conduct annual assessment of the state of acid deposition using trend analysis, numerical models (Existing activities)**
- Activity 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 (Existing activities)**
- Activity 8: Regular updating of the website (Existing activities)**
- Activity 9: Updating of the data management system in the NC to enable easy access by approved users (Existing activities)**

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Core Activities of the EANET in 2021 (Draft)

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.

In the Objective 3, no Core Activity is included

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.

Activity 10: Promotion of public awareness on acid deposition including other priority chemical species, etc. (Existing activities)

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 in none Participating Countries, to tackle with the air pollution issues.

Activity 11: Arrangements for the EANET Sessions agreed to by the IG (Existing activities)

Activity 12: Consideration on future development of the EANET(Existing activities)

Activity 13: Review of the arrangements of the EANET Secretariat and the NC (Existing activities)

Activity 14: Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG(Existing activities)

Activity 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) (Existing activities)

Activity 16: Sharing a common understanding on atmospheric environment issues among the scientific community such as the APCAP Science Panel (Existing activities)

Activity 17: Administrative works (Existing activities)

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Non-Core Activities of the EANET in 2021 (Draft)

◆ Based on the Survey on Participating Countries' Support in Implementing Selected Non-Core Activities of EANET in 2021, the Non-Core Activities are listed up in line with the following categories:

1. Non-Core Activities of EANET in 2021 WITHIN the Scope of Instrument with available financial and in-kind support intentions from Participating Countries
2. Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as BEYOND the Scope of Instrument with the intention of financial support from Participating Countries
3. Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as BEYOND the Scope of Instrument without the intention of financial support from Participating Countries

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1. Non-Core Activities of EANET in 2021 **WITHIN the Scope of Instrument with available financial and in-kind support intentions from Participating Countries**

Act. No	Non-Core Activities of EANET in 2021 WITHIN the Scope of Instrument	Budget to Implement the Activities (US\$)
6.	Promotion of studies on the effects of acid deposition including other priority chemical species on plants and ecosystems, especially on biogeochemical cycles on a catchment scale as well as regional impact assessment (E)	44,000
15.	Promotion of capacity building for personnel of the participating countries, including training courses, capacity building workshops, etc. for monitoring (E)	87,000
16.	Promotion of technical support to participating countries by the provision of advice, technical information, and equipment (E)	107,000
20.	Conduct fellowship research program (E)	38,000
26.	Providing information and policy recommendations to policymakers based on sound science and assessment (Expected outputs: Science and policy dialogue) (E)	58,200
27.	Promotion of communication, collaboration, and cooperation with other relevant international organizations, initiatives, and programs (E)	15,300 7

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2. Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as **BEYOND the Scope of Instrument with the intention of financial support from Participating Countries**

Act. No.	Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as BEYOND the Scope of Instrument	Budget to Implement the Activities (US\$)
3.	Promotion of studies on estimation of the source of air pollution of PM2.5 (N)	10,000
4.	Research on analysis on the relation of air pollution and acid deposition including related chemical substances (N)	32,000
5.	Promotion of studies on analysis in terms of climate change (e.g., EC/ OC, SLCPs) (N)	32,000
8.	Conduct an annual assessment of the state of air pollution (except acid deposition) using trend analysis, numerical models (N)	18,000
10.	Promotion of information exchange - regional impact assessment on ecosystems and human health through workshops, seminars, etc.(E)	48,000
11.	Promotion of information exchange - Information exchange on clean air technologies through workshops, seminars, etc.(E)	47,000
12.	Promotion of research on clean air technology and policy dialogue, a technical demonstration project to share member countries' outstanding prevention technologies, etc.(N)	47,000
14.	Implementation of 25 solutions for clean air measures for the Asia Pacific region, including the development of a synergy between air quality and climate change (N)	6,000

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2-2. Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as BEYOND the Scope of Instrument with the intention of financial support from Participating Countries

Act. No.	Non-Core Activities of EANET in 2021 that are Considered by One or More Participating Country(ies) as BEYOND the Scope of Instrument	Budget to Implement the Activities (US\$)
17.	Technical support for the air quality management (including revision of ambient air quality standards and emission source control, and moving towards low-sulfur fuels for PM, nitrogen oxide, ground-level ozone, etc. with development of policy, strategy, regulation). (N)	21,000
18.	Promotion of research and technical cooperation on emission inventory to support the capacity building. (E)	12,000
19.	Promotion of studies on atmospheric simulation models to assess the trend of national and regional acid deposition including other related air pollutants in East Asia through workshops, training courses, etc. (E)	89,000
21.	Training on policy development on air pollution and acid deposition targeting the policymakers of participating countries on policy development based on scientific monitoring data in collaboration with partners. (N)	25,000
23.	Promotion of studies on atmospheric simulation models to assess the trend of national and regional air pollution (except acid deposition) in East Asia through workshops, training courses, etc. (N)	89,000
25.	Promotion of public awareness on air pollution (except acid deposition), e.g., control transboundary air pollution from mobile sources, etc. (N)	21,000

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Category of Non-Core Activities by scope and financial contribution

Instrument		Within scope	
		Confirmed	Not confirmed
Financial contribution	Confirmed	1. Immediate implementation (6, 15, 16, 20, 26, 27)	2. Implement after all PCs' endorsement (3, 4, 5, 8, 10, 11, 12, 14, 17, 18, 19, 21, 23, 25)
	Not confirmed	4. Implement in case of co-finance	3. Do not implement (1, 2, 7, 9, 13, 22, 24)

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The list of Non-Core Activities of the EANET in 2021 (Draft)

Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM 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.

Activity 1: Expansion of data collection from national monitoring sites on acid deposition (acidifying species and related chemical substances such as ozone and PM) and data evaluation with agreed countries. (New activities)

- proceed data collection from national monitoring sites in participating countries at the opportunity of preparation of National Monitoring Plan in 2021.

Activity 2: Development of real time air quality (such as PM2.5) monitoring network (New activities)

- consider the basic structure of the real time air quality monitoring network by survey of the domestic monitoring network of participating countries and the similar system in other regions.

Activity 3: Promotion of studies on estimation of the source of air pollution of PM2.5 (New activities)

- promote PM2.5 components monitoring and data analysis in Japan and Thailand. By using the components data and receptor model, source apportionment of PM2.5 will be implemented. This activity will be implemented full year in 2021.

Activity 4: Research on analysis on the relation of air pollution and acid deposition including related chemical substances (New activities)

- promote analysis of long term monitoring data of wet and dry deposition component in East Asia, and the outcome will be reflected to the manuscript of the 4th Periodic Report on the State of Acid Deposition in East Asia. This activity will be implemented full year in 2021.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM 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.

Activity 5: Promotion of studies on analysis in terms of climate change (e.g. EC/OC, SLCPs) (New activities)

- promote analysis of long term monitoring data of EC/OC in Japan and Thailand. This activity will be implemented full year in 2021.
- contractor and NC will jointly promote the research and report it at SAC if possible or report the results at a video conference in December 2021.

Activity 6: Promotion of studies on the effects of acid deposition including other priority chemical species on plants and ecosystems, especially on biogeochemical cycles on a catchment scale as well as regional impact assessment (Existing activities)

- Field surveys will be conducted at least monthly through the year of 2021 in Kajikawa catchment site, Niigata, Japan, to assess recovery process from acidification, possible progress of nitrogen saturation, and interlinkage between air pollution effects and climate change.

Activity 7: Promotion of studies of acid deposition on human health and other social aspects, including the viewpoint of the socio-economics (Existing activities)

- prepare the study plan on the effects of acid deposition and other priority chemical species on plants, ecosystems, human health, and other social aspects based on the discussion/output from the Task Force on Monitoring, Evaluation and Research of Environmental Effects to be established in 2020.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM 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.

Activity 8: Conduct annual assessment of the state of air pollution (except acid deposition) using trend analysis, numerical models (New activities)

- promote analysis of long term monitoring data of ozone and particulate matter in East Asia, and the outcome will be reflected to the manuscript of the 4th Periodic Report on the State of Acid Deposition in East Asia. This activity will be implemented full year in 2021.
- The contractor and NC will jointly promote the research and report it at SAC if possible or report the results at a video conference in December 2021.

Activity 9: Development of periodic assessment reports on the state of air pollution (except acid deposition) in East Asia including impact on plants and ecosystems (New activities)

- It is better to be considered after development of PRSAD4 which will be published in 2021-2022.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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, that may include monitoring methods, modelling, ambient air quality standards, emission sources and inventory, air quality management, as well as linkages between air quality and climate change, can be promoted.

Activity 10: Promotion of information exchange - regional impact assessment on ecosystems and human health through workshops, seminars, etc. (Existing activities)

- A workshop/seminar will be held in Thailand/Japan in November/December 2020 to exchange information on regional impact assessment on ecosystems and human health. This activity is jointly implemented with Activity 12.

Activity 11: Promotion of information exchange - Information exchange on clean air technologies through workshops, seminars, etc. (Existing activities)

- A workshop/seminar will be held in Thailand/Japan in November/December 2021 to exchange information on clean air technologies. This activity is jointly implemented with Activity 12.

Activity 12: Promotion of research on clean air technology and policy dialogue, a technical demonstration project to share member countries' outstanding prevention technologies, etc. (New activities)

- promote joint research on source analysis and reduction strategy of fine particulate matter in Bangkok Metropolitan Region. This will be implemented full year 2021. Furthermore, a technical demonstration will be held in Thailand/Japan in November/December 2021 to share member countries' outstanding prevention technologies.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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, that may include monitoring methods, modelling, ambient air quality standards, emission sources and inventory, air quality management, as well as linkages between air quality and climate change, can be promoted.

Activity 13: Development and submission of emission inventories of air pollutants to support and enhance joint efforts among the participating countries of the EANET for reducing air pollutant emissions (New activities)

- A workshop will be held to discuss and exchange information regarding national emission inventory on November 2021 in Japan. This activity is jointly implemented with Activity 19.

Activity 14: Implementation of 25 solutions for clean air measures for the Asia Pacific region including development of a synergy between air quality and climate change (New activities)

- The contractor and NC will jointly promote the research and report the results at a video conference in December 2021.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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.

Activity 15: Promotion of capacity building for personnel of the participating countries including training courses, capacity building workshops, etc. for monitoring (Existing activities)

- consider and develop the appropriate training materials, technical documents for monitoring on wet deposition, dry deposition, soil and vegetation and inland aquatic environment from opportunities of training, monitoring and research activities.

- assist national training activities by providing technical materials and experts when the activities carry out;

- A capacity building for six persons from the Participating Countries including training and lecture for monitoring will be held in Japan for 3 weeks in November/December 2021.

- make use of the training programmes and technical assistance provided by donor agencies that can support training on acid deposition and related air pollution monitoring targeting the participating countries, if applicable.

Activity 16: Promotion of technical support to Participating Countries by provision of advice, technical information and equipment (Existing activities)

- coordinate with relevant regional/international initiatives such as CAA and funding agencies such as ADB to maximize the use of available funds taking into account of the availability of the resources and situation of operation/monitoring in the participating countries in order to continue to provide assistance and technical support to individual participating countries;

- dispatch technical missions to the participating countries based on the request from the countries to invitation letter in order to exchange information and experiences with National Centers, National QA/QC Managers and local experts, to provide technical advice and disseminate the latest technical information taking into account of availability of funds, and to encourage participating countries to organize in-country technical workshops during NC technical missions. A technical support mission will be held possibly in Myanmar/Cambodia/Indonesia/Vietnam by December 2021 to give advice, technical information and equipment.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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.

Activity 17: Technical support for the air quality management (including revision of ambient air quality standards and emission source control, and moving towards low-Sulphur fuels for PM, nitrogen oxide, ground level ozone, etc. with development of policy, strategy, regulation) (New activities)

- A workshop/seminar will be held in contractor country by November/December, 2021 to exchange information and support for air quality management.

- A technical support video conference will be held from Japan by March 2022 to give a technical information including revision of ambient air quality standards and emission source control, and moving towards low-Sulphur fuels for PM, nitrogen oxide, ground level ozone, etc. with development of policy, strategy, regulation.

Activity 18: Promotion of research and technical cooperation on emission inventory to support the capacity building (Existing activities)

- Emission inventory training workshop/seminar will be held on November 2021 in Japan to promote and support development of national emission inventory for major anthropogenic sources.

Activity 19: Promotion of studies on atmospheric simulation models to assess the trend of national and regional acid deposition including other related air pollutants in East Asia through workshops, training courses, etc. (Existing activities)

- International workshop on atmospheric modeling research in East Asia (MICS-Asia: Model Intercomparison Study for Asia) will be held on December 2021 in China to promote research activities on acid deposition and other related air pollutants and strengthen research community of air quality and climate modeling in East Asia.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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.

Activity 20: Conduct fellowship research program (Existing activities)

- The selection of fellow will be conducted early 2021, and the fellowship program will be conducted in the 2nd half of 2021. For the selection of fellow, the candidates in 2020, who could not come to the NC because of COVID-19, will have high priority.

Activity 21: Training on policy development on air pollution and acid deposition targeting the policymakers of participating countries on policy development based on scientific monitoring data in collaboration with partners (New activities)

- promote training on policy development on air pollution and acid deposition targeting the policymakers of Participating Countries on policy development based on scientific monitoring data in collaboration with partners and NC.

- If budget available, the Secretariat will coordinate to develop a training module policy development on air pollution and acid deposition, in collaboration with partner such as Participating Country(ies), UNEP Air Quality Unit and APCAP. Once the training module is developed, a test training will be organized (it could be virtually) by middle or second semester of 2021. for the training is focusing on increasing capacity of national participants on policy development on air pollution and acid deposition targeting the policymakers of participating countries based on scientific monitoring data.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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.

Activity 22: Promotion of capacity building for personnel of the participating countries for control emission including control transboundary air pollution from mobile sources, etc. (New activities)

- Emission inventory training workshop/seminar will be held on November 2021 in Japan to promote and support development of national emission inventory for major anthropogenic sources including control transboundary air pollution from mobile sources, etc. (same as activity 18)

Activity 23: Promotion of studies on atmospheric simulation models to assess the trend of national and regional air pollution (except acid deposition) in East Asia through workshops, training courses, etc. (New activities)

- International workshop on atmospheric modeling research in East Asia (MICS-Asia: Model Intercomparison Study for Asia) will be held on December 2021 in China to promote research and strengthen research community of air quality and climate modeling in East Asia. This activity is basically same as that of Activity 8, but focusing on air pollution.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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.

Activity 24: Publication of EANET Science Bulletin (Existing activities)

- Science Bulletin will not be published, however, the summary of science paper as the contents of the Science Bulletin will be uploaded in the website of EANET.

Activity 25: Promotion of public awareness on air pollution (except acid deposition), e.g., control transboundary air pollution from mobile sources, etc. (New activities)

- A workshop/seminar will be held in Thailand by November/December 2021 to promote public awareness on air pollution.

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The list of Non-Core Activities of the EANET in 2021 (Draft)

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 in none Participating Countries, to tackle with the air pollution issues.

Activity 26: Providing information and policy recommendations to policy makers based on sound science and assessment (Expected outputs: Science and policy dialogue) (Existing activities)

- provide information and policy recommendations to policy makers based on sound science and assessment through science and policy dialogue in collaboration with NC.
- provide information and policy recommendations to policy makers based on sound science and assessment on the publication such as PRSAD4 and website in collaboration with Secretariat for EANET.

Activity 27: Promotion of communication, collaboration and cooperation with other relevant international organizations, initiatives and programs (Existing activities)

- promote further communication and cooperation with relevant organizations and programmes working on acid deposition and air pollution, for instance with the UNECE CLRTAP and its programmes including the EMEP Chemical Coordinating Centre, ICP-Forest and their Centers (EMEP/CCC, ICP-Forest/PCC); WMO-GAW; Malé Declaration; Joint Forum; CAA; NADP; CCAC; ABC Project; ACP; etc. taking opportunity of relevant activities and meetings.; and
- Develop a common understanding on atmospheric environmental issues among the participating countries and the scientific community such as the Asia Pacific Clean Air Partnership (APCAP) Science Panel collaborating with the Task Force on Atmospheric Environmental Management to be established in 2020.

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- ◆ The Core Activities of the EANET in 2021 will be in line with the Draft Medium Term Plan (MTP) for the EANET (2021-2025). The Non-Core Activities in 2021 will be implemented with the approval of the IG22 in 2020.
- ◆ The estimated voluntary financial contributions from the participating countries for the proposed draft core budget in 2021 is calculated based on the “**Scale of Voluntary Financial Contributions to the Core Budget of the Network Center for the EANET (EANET/IG 17/9/2)**” adopted at the IG17 in November 2015.
- ◆ It is planned to implement the Non-Core Activities in 2021 by co-financing surplus of the Secretariat and/or financial and/or in-kind contributions to a specified project from partner organizations such as participating countries, if possible. If no co-finance is available for a certain project, such a project will not be implemented.

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Activities	Network Center			
	Man/ Month	Personnel cost	Direct expenses	Total
Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM with quality assurance and quality control (QA/QC)	22	132,000	40,000	172,000
(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	48,000	15,000	63,000
(2) Development/ revision of (technical) guidelines, technical manuals and documents, as necessary	2	12,000	0	12,000
(3) Development/ update of strategy papers for guidance on the future direction of the monitoring, as necessary	1	6,000	0	6,000
(4) Implementation of quality assurance and quality control (QA/QC) activities on acid deposition	4	24,000	20,000	44,000
(5) Routine compilation, verification, evaluation, storage and provision of data and maintenance of database	7	42,000	5,000	47,000
Objective 2. Promotion of data utilization and dissemination	11	66,000	60,000	126,000
(6) Conduct annual assessment of the state of acid deposition using trend analysis, numerical models	3	18,000	0	18,000
(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	36,000	50,000	86,000
(8) Regular updating of the website	2	12,000	10,000	22,000
(9) Updating of the data management system in the NC to enable easy access by approved users	—	—	—	—
Objective 3. Promotion of capacity building	—	—	—	—
Objective 4. Enhancement of outreach activities	3	18,000	3,000	21,000
(10) Promotion of public awareness on acid deposition including other priority chemical species, etc.	3	18,000	3,000	21,000
Objective 5. Enhancement of cooperation and collaboration	18	108,000	105,000	213,000
(11) Arrangements for the EANET Sessions agreed to by the IG	13	78,000	105,000	183,000
(12) Consideration on future development of the EANET	1	6,000	0	6,000
(13) Review of the arrangements of the EANET Secretariat and the NC	1	6,000	0	6,000
(14) Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG	—	—	—	—
(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)	2	12,000	0	12,000
(16) Sharing a common understanding on atmospheric environment issues among the scientific community such as the APCAP Science Panel	1	6,000	0	6,000
Sub total	54	324,000	208,000	532,000
(17) Administrative works	10	60,000	0	60,000
Grand total	64	384,000	208,000	592,000
Grand Total			Office rental fee: 119,581	711,581

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Table 2 Estimated Voluntary Financial Contribution of Participating Countries to Network Center Core Budget for the EANET in 2021

Participating Countries	UN scale of assessment 2019-2021 (%)	Scale of EANET burden sharing (%)	Estimated annual contribution in 2021 (US\$)
			Network Center
Cambodia*	0.006	0.022	121*
China	12.005	44.895	246,384
Indonesia	0.543	2.031	11,146
Japan	8.564	32.027	175,764
Lao PDR *	0.005	0.019	104*
Malaysia	0.341	1.275	6,997
Mongolia*	0.005	0.019	104*
Myanmar	0.01	0.037	203
Philippines	0.205	0.767	4,209
Republic of Korea	2.267	8.478	46,527
Russia	2.405	8.994	49,359
Thailand	0.307	1.148	6,300
Viet Nam	0.077	0.288	1,581
Total	----	100	548,800**

*Minimum amount for the voluntary financial contribution is US\$ 200.
 **Estimated 5-year flat amount of annual voluntary contribution based on 2nd Draft MTP for the EANET (2021-2025)

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Table 4 Estimated Revenue for the Network Center in 2021

Items	Revenue (US\$)
1. NC Core activities from participating countries	548,800
2. Support from Niigata Prefecture and Niigata City	4,500
3. Support for NC activities from Niigata Prefecture - (Office rental)	119,581
Total	672,881

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Budget for Non-Core Activities of the EANET in 2021**Table 1-1 Budget for Non-Core activities in 2021 (US\$): Annex4**

Activities	Man/ Month	Personnel cost	Direct expenses	Total
Objective 1: Monitoring of air quality and acid deposition including related chemical substances such as ozone and PM with quality assurance and quality control (QA/QC)	23	138,000	119,000	257,000
(1) Expansion of data collection from national monitoring sites on acid deposition (acidifying species and related chemical substances such as ozone and PM) and data evaluation with agreed countries.	3	18,000	0	18,000
(2) Development of real time air quality (such as PM2.5) monitoring network	1	6,000	0	6,000
(3) Promotion of studies on estimation of the source of air pollution of PM2.5	1	6,000	4,000	10,000
(4) Research on analysis on the relation of air pollution and acid deposition including related chemical substances	2	12,000	20,000	32,000
(5) Promotion of studies on analysis in terms of climate change (e.g. EC/ OC, SLCPs)	2	12,000	20,000	32,000
(6) Promotion of studies on the effects of acid deposition including other priority chemical species on plants and ecosystems, especially on biogeochemical cycles on a catchment scale as well as regional impact assessment	4	24,000	20,000	44,000
(7) Promotion of studies of acid deposition on human health and other social aspects, including the viewpoint of the socio-economics	2	12,000	10,000	22,000
(8) Conduct annual assessment of the state of air pollution (except acid deposition) using trend analysis, numerical models	3	18,000	0	18,000
(9) Development of periodic assessment reports on the state of air pollution (except acid deposition) in East Asia including impact on plants and ecosystems	5	30,000	45,000	75,000

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Budget for Non-Core Activities of the EANET in 2021				
Table 1-1 Budget for Non-Core activities in 2021 (US\$): Annex4				
Activities	Man/ Month	Personnel cost	Direct expenses	Total
Objective 2: Promotion of data dissemination and utilization	11	66,000	102,000	168,000
(10) Promotion of information exchange - regional impact assessment on ecosystems and human health through workshops, seminars, etc.	3	18,000	30,000	48,000
(11) Promotion of information exchange - Information exchange on clean air technologies through workshops, seminars, etc.	2	12,000	35,000	47,000
(12) Promotion of research on clean air technology and policy dialogue, a technical demonstration project to share member countries' outstanding prevention technologies, etc.	2	12,000	35,000	47,000
(13) Development and submission of emission inventories of air pollutants to support and enhance joint efforts among the participating countries of the EANET for reducing air pollutant emissions	3	18,000	2,000	20,000
(14) Implementation of 25 solutions for clean air measures for the Asia Pacific region including development of a synergy between air quality and climate change	1	6,000	0	6,000

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Budget for Non-Core Activities of the EANET in 2021				
Table 1-1 Budget for Non-Core activities in 2021 (US\$): Annex4				
Activities	Man/ Month	Personnel cost	Direct expenses	Total
Objective 3: Promotion of capacity building	43	256,000	299,000	555,000
(15) Promotion of capacity building for personnel of the participating countries including training courses, capacity building workshops, etc. for monitoring.	7	42,000	45,000	87,000
(16) Promotion of technical support to participating countries by provision of advice, technical information and equipment.	7	42,000	65,000	107,000
(17) Technical support for the air quality management (including revision of ambient air quality standards and emission source control, and moving towards low-Sulphur fuels for PM, nitrogen oxide, ground level ozone, etc. with development of policy, strategy, regulation).	1	6,000	15,000	21,000
(18) Promotion of research and technical cooperation on emission inventory to support the capacity building.	2	12,000	0	12,000
(19) Promotion of studies on atmospheric simulation models to assess the trend of national and regional acid deposition including other related air pollutants in East Asia through workshops, training courses, etc.	7	42,000	47,000	89,000
(20) Conduct fellowship research program.	3	18,000	20,000	38,000
(21) Training on policy development on air pollution and acid deposition targeting the policymakers of participating countries on policy development based on scientific monitoring data in collaboration with partners.	2	10,000	15,000	25,000
(22) Promotion of capacity building for personnel of the participating countries for control emission including control transboundary air pollution from mobile sources, etc.	7	42,000	45,000	87,000
(23) Promotion of studies on atmospheric simulation models to assess the trend of national and regional air pollution (except acid deposition) in East Asia through workshops, training courses, etc.	7	42,000	47,000	28 89,000

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Budget for Non-Core Activities of the EANET in 2021
Table 1-1 Budget for Non-Core activities in 2021 (US\$): Annex4

Activities	Man/ Month	Personnel cost	Direct expenses	Total
Objective 4: Enhancement of outreach activities	5	30,000	6,000	36,000
(24) Publication of EANET Science Bulletin	2	12,000	3,000	15,000
(25) Promotion of public awareness on air pollution (except acid deposition), e.g., control transboundary air pollution from mobile sources, etc.	3	18,000	3,000	21,000
Objective 5: Enhancement of cooperation and collaboration	10	38,200	35,300	73,500
(26) Providing information and policy recommendations to policy makers based on sound science and assessment (Expected outputs: Report for Policy Makers, Science and policy dialogue).	7	28,200	30,000	58,200
(27) Promotion of communication, collaboration and cooperation with other relevant international organizations, initiatives and programs	3	10,000	5,300	15,300
Grand total	92	528,200	561,300	1,089,500

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Table 1-2 Estimated Revenue for Non-Core activities in 2021 (US\$): Annex4

Activities	Surplus of the Secretariat (to be decided at the meeting by PCs)	Project specific contribution from Participating Countries	Project specific contribution from partner organization	Total	In-kind contribution from participating countries	Remarks based on the Survey Findings of the Non-Core Activities in 2021 (PCs: Participating Countries)
Objective 1: Monitoring of air quality and acid deposition including related chemical substances with quality assurance and quality control (QA/QC)		118,000	0	257,000		
(1) Expansion of data collection from national monitoring sites on acid deposition (acidifying species and related chemical substances such as ozone and PM) and data evaluation with agreed countries.			0	18,000	Indonesia Russia	Two PCs considered beyond the scope. No financial contribution.
(2) Development of real time air quality (such as PM2.5) monitoring network			0	6,000	Indonesia	Five PCs considered beyond the scope. No financial contribution.
(3) Promotion of studies on estimation of the source of air pollution of PM2.5		Japan: Up to \$10,000	0	10,000		Six PCs think beyond scope. Contribution up to \$10,000.
(4) Research on analysis on the relation of air pollution and acid deposition including related chemical substances		Japan: Up to \$32,000	0	32,000	Russia	One PC considered beyond the scope. Contribution up to \$32,000.
(5) Promotion of studies on analysis in terms of climate change (e.g. EC/ OC, SLCPs)		Japan: Up to \$32,000	0	32,000		Nine PCs considered beyond the scope. Contribution up to \$32,000.
(6) Promotion of studies on the effects of acid deposition including other priority chemical species on plants and ecosystems, especially on biogeochemical cycles on a catchment scale as well as regional impact assessment		Japan: Up to \$44,000	0	44,000	Russia	13 PCs considered within the scope. Contribution up to \$44,000.
(7) Promotion of studies of acid deposition on human health and other social aspects, including the viewpoint of the socio-economics			0	22,000		Four PCs considered beyond the scope. No financial contribution.
(8) Conduct annual assessment of the state of air pollution (except acid deposition) using trend analysis, numerical models		Japan: If it's decided to implement, support up to \$18,000.	0	18,000		Seven PCs considered beyond the scope. Contribution up to \$18,000.
(9) Development of periodic assessment reports on the state of air pollution (except acid deposition) in East Asia including impact on plants and ecosystems			0	75,000	Russia	Five PCs considered beyond the scope. No financial contribution.

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Table 1-2 Estimated Revenue for Non-Core activities in 2021 (US\$)

Activities	Surplus of the Secretariat (to be decided at the meeting by the Participating Countries)	Project specific contribution from Participating Countries	Project specific contribution from partner organization	Total	In-kind contribution from participating countries	Remarks based on the Survey Findings of the Non-Core Activities in 2021 (PCs: Participating Countries)
Objective 2: Promotion of data dissemination and utilization		6,000	0	168,000		
(10) Promotion of information exchange - regional impact assessment on ecosystems and human health through workshops, seminars, etc.		Japan: If it's decided to implement, support up to \$48,000.	0	48,000	Malaysia Russia	Three PCs considered beyond the scope. Contribution up to \$48,000.
(11) Promotion of information exchange - Information exchange on clean air technologies through workshops, seminars, etc.		Japan: If it's decided to implement, support up to \$47,000.	0	47,000	China	1 PC considered beyond the scope. Contribution up to \$47,000.
(12) Promotion of research on clean air technology and policy dialogue, a technical demonstration project to share member countries' outstanding prevention technologies, etc.		Japan: Hope to implement & support up to \$47,000.	0	47,000	China	Four PCs considered beyond the scope. Contribution up to \$47,000.
(13) Development and submission of emission inventories of air pollutants to support and enhance joint efforts among the participating countries of the EANET for reducing air pollutant emissions			0	20,000		Seven PCs considered beyond the scope. No financial contribution.
(14) Implementation of 25 solutions for clean air measures for the Asia Pacific region including development of a synergy between air quality and climate change		Japan: Up to \$6,000	0	6,000		Eleven PCs considered beyond the scope. Contribution up to \$6,000.

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Table 1-2 Estimated Revenue for Non-Core activities in 2021 (US\$)

Activities	Surplus of the Secretariat (to be decided at the meeting by PCs)	Project specific contribution from Participating Countries	Project specific contribution from partner organization	Total	In-kind contribution from participating countries	Remarks based on the Survey Findings of the Non-Core Activities in 2021 (PCs: Participating Countries)
Objective 3: Promotion of capacity building		318,000	0	555,000		
(15) Promotion of capacity building for personnel of the participating countries including training courses, capacity building workshops, etc. for monitoring.		Japan: Hope to implement & may support up to \$87,000.	0	87,000	China	13 PCs considered within the scope. Contribution up to \$87,000.
(16) Promotion of technical support to participating countries by provision of advice, technical information and equipment.		Japan: Up to \$107,000	0	107,000	China	13 PCs considered within the scope. Contribution up to \$107,000.
(17) Technical support for the air quality management (including revision of ambient air quality standards and emission source control, and moving towards low-Sulphur fuels for PM, nitrogen oxide, ground level ozone, etc. with development of policy, strategy, regulation).		Japan: Up to \$21,000	0	21,000		Five PCs considered beyond the scope. Contribution up to \$21,000.
(18) Promotion of research and technical cooperation on emission inventory to support the capacity building.		Japan: Hope to implement & support up to \$12,000	0	12,000		Two PCs considered beyond the scope. Contribution up to \$12,000.
(19) Promotion of studies on atmospheric simulation models to assess the trend of national and regional acid deposition including other related air pollutants in East Asia through workshops, training courses, etc.		Japan: Up to \$89,000	0	89,000	Russia	One PC considered beyond the scope. Contribution up to \$89,000.
(20) Conduct fellowship research program.		Japan: Hope to implement & may support up to \$38,000.	0	38,000	R. of Korea Russia	13 PCs considered within the scope. Contribution up to \$38,000.
(21) Training on policy development on air pollution and acid deposition targeting the policymakers of participating countries on policy development based on scientific monitoring data in collaboration with partners.		Japan: If it's decided to implement, support up to \$25,000.	0	25,000	China	Six PCs considered beyond the scope. Contribution up to \$25,000.
(22) Promotion of capacity building for personnel of the participating countries for control emission including control transboundary air pollution from mobile sources, etc.			0	87,000		Three PCs considered beyond the scope. No financial contribution.
(23) Promotion of studies on atmospheric simulation models to assess the trend of national and regional air pollution (except acid deposition) in East Asia through workshops, training courses, etc.		Japan: Up to \$89,000	0	89,000		Four PCs considered beyond the scope. Contribution up to \$89,000.

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Table 1-2 Estimated Revenue for Non-Core activities in 2021 (US\$)

Activities	Surplus of the Secretariat (to be decided at the meeting by the Participating Countries)	Project specific contribution from Participating Countries	Project specific contribution from partner organization	Total	In-kind contribution from participating countries	Remarks based on the Survey Findings of the Non-Core Activities in 2021 (PCs: Participating Countries)
Objective 4: Enhancement of outreach activities			0	36,000		
(24) Publication of EANET Science Bulletin			0	15,000	Russia	One PC considered beyond the scope. No financial contribution.
(25) Promotion of public awareness on air pollution (except acid deposition), e.g., control transboundary air pollution from mobile sources, etc.		Japan: If it's decided to implement, support up to \$21,000.	0	21,000		Three PCs considered beyond the scope. Contribution up to \$21,000.
Objective 5: Enhancement of cooperation and collaboration			0	73,500		
(26) Providing information and policy recommendations to policy makers based on sound science and assessment (Expected outputs: Science and policy dialogue).		Japan: Hope to implement & may support up to \$58,200.	0	58,200		13 PCs considered within the scope. Contribution up to \$58,200.
(27) Promotion of communication, collaboration and cooperation with other relevant international organizations, initiatives and programs		Japan: Hope to implement & may support up to \$15,300.	0	15,300	Russia	13 PCs considered within the scope. Contribution up to \$15,300.
Grand total		442,000	0	1,089,500		

※ It is planned to implement the Non-core Activities in 2021 by co-financing surplus of the Secretariat and/or financial or in-kind contributions to a specified project.

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Actions required

The IG 22 is invited to review the Draft Work Programme and Budget of the EANET in 2021 and may wish to consider, discuss, provide guidance, and make comments and suggestions, and approve as appropriate.

Thank you for your kind attention!!

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