

EANET/WGS2/8

## Draft Work Program and Budget of the EANET in 2021

Secretariat for EANET  
Network Center for the EANET



Asia Center for Air Pollution  
Research (ACAP)

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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 project 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 of the NC 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 Project 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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### Core Activities of the EANET in 2021 (Draft)

- ◆ The Core Activities of the EANET in 2021 indicate activities that include all three of the following in the Survey by the Matrix of Categorization of Activities for Further Development of the MTP (2021-2025) for the EANET implemented in July 2020:
  - ◆ i. “D (No Priority)” is not included in the priority responses from participating countries.
  - ◆ ii. Average priority score is 3.5 or more (A: High Priority = 4, B: Middle Priority = 3, C: Low Priority = 2, D: No Priority = 1).
  - ◆ iii. 80% or more of the participating countries chose the core budget.

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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 (PRPAD 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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### Project Activities of the EANET in 2021 (Draft)

- ◆ The project activities in 2021 selected as candidate Project Activities indicate activities that include the following in the Survey by the Matrix of Categorization of Activities for Further Development of the MTP (2021-2025) for the EANET:
- ◆ Average priority score is 3.0 or more (A: High Priority = 4, B: Middle Priority = 3, C: Low Priority = 2, D: No Priority = 1) except for Core Activities stipulated in the paragraph 1.

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## Project 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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## Project 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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### Project 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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### Project 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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## Project 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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## Project 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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## Project 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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## Project 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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### Project 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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### Project 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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## Project 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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Activities	Secretariat				Network Center			
	Man/ Month	Personnel cost	Direct expenses	Total	Man/ Month	Personnel cost	Direct expenses	Total
<b>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)</b>	—	—	—	—	22	132,000	40,000	172,000
(X) 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
(X) Development/ revision of (technical) guidelines, technical manuals and documents, as necessary	—	—	—	—	2	12,000	0	12,000
(X) Development/ update of strategy papers for guidance on the future direction of the monitoring, as necessary	—	—	—	—	1	6,000	0	6,000
(X) Implementation of quality assurance and quality control (QA/QC) activities on acid deposition	—	—	—	—	4	24,000	20,000	44,000
(X) Routine compilation, verification, evaluation, storage and provision of data and maintenance of database	—	—	—	—	7	42,000	5,000	47,000
<b>Objective 2. Promotion of data utilization and dissemination</b>	2	14,800	7,200	22,000	11	66,000	60,000	126,000
(X) Conduct annual assessment of the state of acid deposition using trend analysis, numerical models	—	—	—	—	3	18,000	0	18,000
(X) 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.	—	—	—	—	6	36,000	50,000	86,000
(X) Regular updating of the website	2	14,800	7,200	22,000	2	12,000	10,000	22,000
(X) Updating of the data management system in the NC to enable easy access by approved users	—	—	—	—	—	—	—	—
<b>Objective 3. Promotion of capacity building</b>	—	—	—	—	—	—	—	—
<b>Objective 4. Enhancement of outreach activities</b>	4	20,000	23,600	43,600	3	18,000	3,000	21,000
(X) Promotion of public awareness on acid deposition including other priority chemical species, etc.	4	20,000	23,600	43,600	3	18,000	3,000	21,000
<b>Objective 5. Enhancement of cooperation and collaboration</b>	16.5	210,200	179,600	389,800	18	108,000	105,000	213,000
(X) Arrangements for the EANET Sessions agreed to by the IG	11	150,000	179,600	329,600	13	78,000	105,000	183,000
(X) Consideration on future development of the EANET	—	—	—	—	1	6,000	0	6,000
(X) Review of the arrangements of the EANET Secretariat and the NC	1	9,300	0	9,300	1	6,000	0	6,000
(X) Revision of Guidelines on Administrative and Financial Management for the Secretariat and NC taking account of the new decisions of the IG	1	9,300	0	9,300	—	—	—	—
(X) 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	37,900	0	37,900	2	12,000	0	12,000
(X) Sharing a common understanding on atmospheric environment issues among the scientific community such as the APCAP Science Panel	0.5	3,700	0	3,700	1	6,000	0	6,000
<b>Sub total</b>	22.5	245,000	210,400	455,400	54	324,000	208,000	532,000
(X) Administrative works	13	98,500	0	98,500	10	60,000	0	60,000
<b>Grand total</b>	35.5	343,500	210,400	553,900	64	384,000	208,000	592,000
<b>Grand Total</b>			<b>Programme Support Cost (PSC : Grand total X 13%):72,000</b>	625,900		<b>Office rental fee: 119,581</b>		711,581

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**Table 2 Estimated Voluntary Financial Contribution of Participating Countries to the Secretariat & 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\$)	
			Secretariat	Network Center
Cambodia <sup>*</sup>	0.006	0.022	134*	121*
China	12.005	44.895	272,602	246,384
Indonesia	0.543	2.031	12,332	11,146
Japan	8.564	32.027	194,468	175,764
Lao PDR <sup>*</sup>	0.005	0.019	115*	104*
Malaysia	0.341	1.275	7,742	6,997
Mongolia <sup>*</sup>	0.005	0.019	115*	104*
Myanmar	0.01	0.037	225	203
Philippines	0.205	0.767	4,657	4,209
Republic of Korea	2.267	8.478	51,478	46,527
Russia	2.405	8.994	54,612	49,359
Thailand	0.307	1.148	6,971	6,300
Viet Nam	0.077	0.288	1,749	1,581
<b>Total</b>	---	<b>100</b>	<b>607,200**</b>	<b>548,800**</b>

<sup>\*</sup>Minimum amount for the voluntary financial contribution is US\$ 200.

<sup>\*\*</sup>Estimated 5-year flat amount of annual voluntary contribution based on 2<sup>nd</sup> Draft MTP for the EANET (2021-2025)

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**Table 3 Estimated Core Budget of the Secretariat in 2021 (US\$)**

Expenditure Categories	Budget 2021
<b>1. Personnel Cost</b>	
1.1 Staff	195,000
1.2 Consultant	75,000
<b>Sub-total</b>	<b>270,000</b>
<b>2. Travel</b>	
2.1 Travel of Secretariat staff	20,000
2.2 Other travels directly managed by the Secretariat	53,900
<b>Sub-total</b>	<b>73,900</b>
<b>3. Contractual services</b>	
3.1 Contractual services directly managed by the Secretariat for meetings, printing, facilities, etc.	50,000
<b>Sub-total</b>	<b>50,000</b>
<b>4. Grants for implementing partners</b>	
4.1 Support to Secretariat functions and Activities (SSFA with RRCAP)	140,000
<b>Sub-total</b>	<b>140,000</b>
<b>5. Operating and other direct costs</b>	
5.1 Operating and other direct costs including office supplies and communications	20,000
<b>Sub-total</b>	<b>20,000</b>
<b>Total Direct Expenditure</b>	<b>553,900</b>
<b>Indirect Support Costs (PSC) (Total Direct Exp. ×13%)</b>	<b>72,000</b>
<b>Grand total</b>	<b>625,900</b>

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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
<b>Total</b>	<b>672,881</b>

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**Estimated Costs for Project Activities of the EANET in 2021**  
**Table 1-1 Estimated Costs for Project activities in 2021 (US\$): Annex4**

Activities	Man/ Month	Personnel cost	Direct expenses	Total
<b>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)</b>	<b>23</b>	<b>138,000</b>	<b>119,000</b>	<b>257,000</b>
(X) 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
(X) Development of real time air quality (such as PM2.5) monitoring network	1	6,000	0	6,000
(X) Promotion of studies on estimation of the source of air pollution of PM2.5	1	6,000	4,000	10,000
(X) Research on analysis on the relation of air pollution and acid deposition including related chemical substances	2	12,000	20,000	32,000
(X) Promotion of studies on analysis in terms of climate change (e.g. EC/ OC, SLCPs)	2	12,000	20,000	32,000
(X) 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
(X) 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
(X) Conduct annual assessment of the state of air pollution (except acid deposition) using trend analysis, numerical models	3	18,000	0	18,000
(X) 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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**Estimated Costs for Project Activities of the EANET in 2021**  
**Table 1-1 Estimated Costs for Project activities in 2021 (US\$): Annex4**

Activities	Man/ Month	Personnel cost	Direct expenses	Total
<b>Objective 2: Promotion of data dissemination and utilization</b>	<b>11</b>	<b>66,000</b>	<b>102,000</b>	<b>168,000</b>
(X) Promotion of information exchange - regional impact assessment on ecosystems and human health through workshops, seminars, etc.	3	18,000	30,000	48,000
(X) Promotion of information exchange - Information exchange on clean air technologies through workshops, seminars, etc.	2	12,000	35,000	47,000
(X) 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
(X) 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
(X) 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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**Estimated Costs for Project Activities of the EANET in 2021**  
**Table 1-1 Estimated Costs for Project activities in 2021 (US\$): Annex4**

Activities	Man/ Month	Personnel cost	Direct expenses	Total
<b>Objective 3: Promotion of capacity building</b>	<b>43</b>	<b>256,000</b>	<b>299,000</b>	<b>555,000</b>
(X) 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
(X) Promotion of technical support to participating countries by provision of advice, technical information and equipment.	7	42,000	65,000	107,000
(X) 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
(X) Promotion of research and technical cooperation on emission inventory to support the capacity building.	2	12,000	0	12,000
(X) 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
(X) Conduct fellowship research program.	3	18,000	20,000	38,000
(X) 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
(X) 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
(X) 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	24 89,000

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**Estimated Costs for Project Activities of the EANET in 2021**  
**Table 1-1 Estimated Costs for Project activities in 2021 (US\$): Annex4**

Activities	Man/ Month	Personnel cost	Direct expenses	Total
<b>Objective 4: Enhancement of outreach activities</b>	<b>5</b>	<b>30,000</b>	<b>6,000</b>	<b>36,000</b>
(X) Publication of EANET Science Bulletin	2	12,000	3,000	15,000
(X) 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
<b>Objective 5: Enhancement of cooperation and collaboration</b>	<b>10</b>	<b>38,200</b>	<b>35,300</b>	<b>73,500</b>
(X) 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
(X) Promotion of communication, collaboration and cooperation with other relevant international organizations, initiatives and programs	3	10,000	5,300	15,300
<b>Grand total</b>	<b>92</b>	<b>528,200</b>	<b>561,300</b>	<b>1,089,500</b>

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**Table 1-2 Estimated Revenue for Project activities in 2021 (US\$)**

Activities	Surplus of the Secretariat	Project Specific contribution from Participating countries	Contribution from Partner organization	In-kind contribution of the implementers	Total
<b>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)</b>					<b>257,000</b>
<b>Objective 2: Promotion of data dissemination and utilization</b>					<b>168,000</b>
<b>Objective 3: Promotion of capacity building</b>					<b>555,000</b>
<b>Objective 4: Enhancement of outreach activities</b>					<b>36,000</b>
<b>Objective 5: Enhancement of cooperation and collaboration</b>					<b>73,500</b>
<b>Grand total</b>					<b>1,089,500</b>

※It is planned to implement the Project 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 Working Group Meeting Session 2 on Drafting MTP for the EANET (2021-2025) and Reviewing the Scope of Instrument for the EANET 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 recommendations to the IG22 for its review, guidance and approval, as appropriate.**

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**Thank you for your attention!!**

Cherry blossoms  
around ACAP in April

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