

Current Activities and Future Development of the Acid Deposition Monitoring Network in East Asia (EANET)



**Secretariat in UN
Environment Asia Pacific
Bangkok, Thailand**



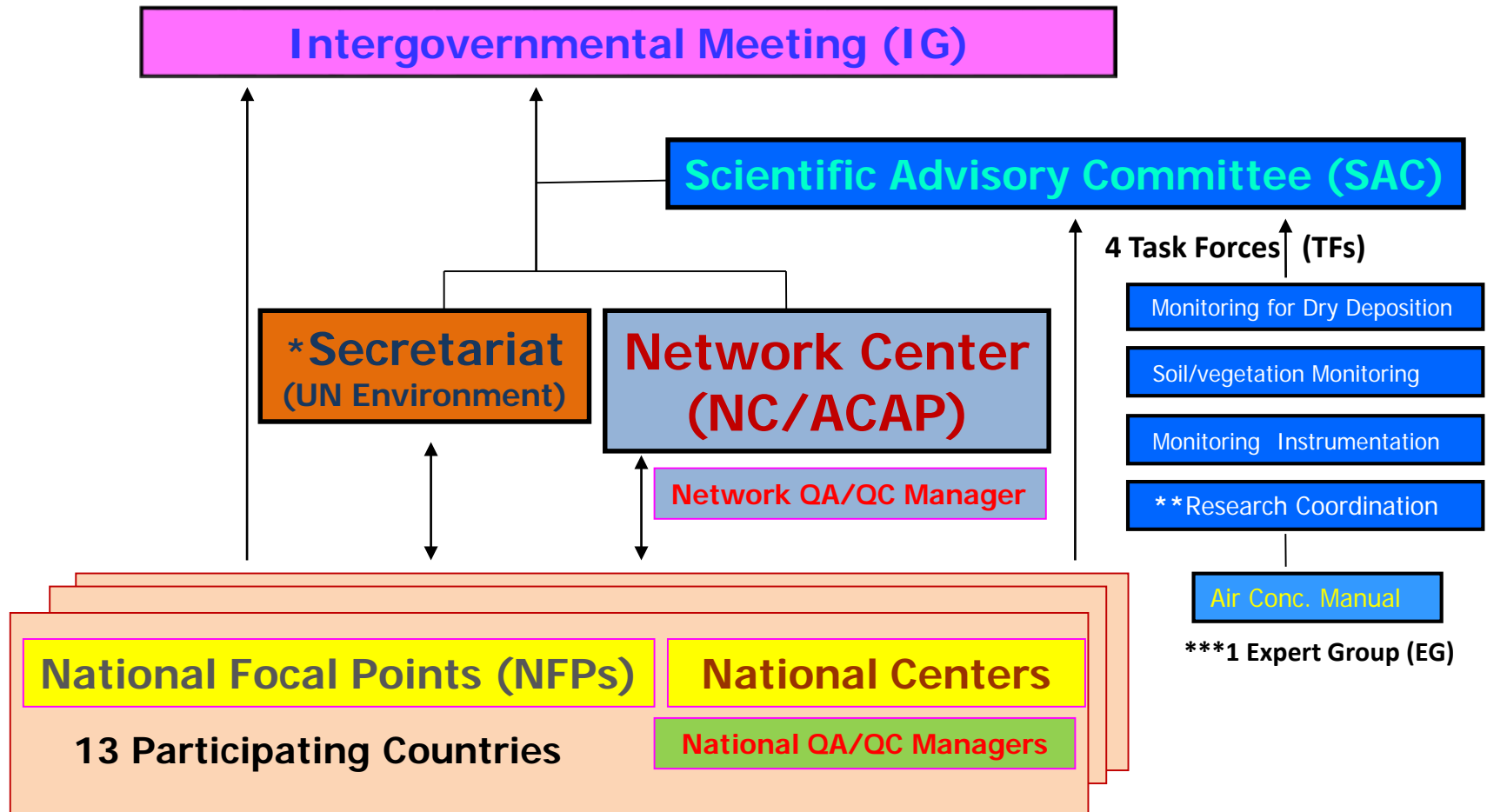
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Niigata, Japan**

Asia Center for Air Pollution Research (ACAP)

1. Framework of the EANET (from the Instrument, etc.)



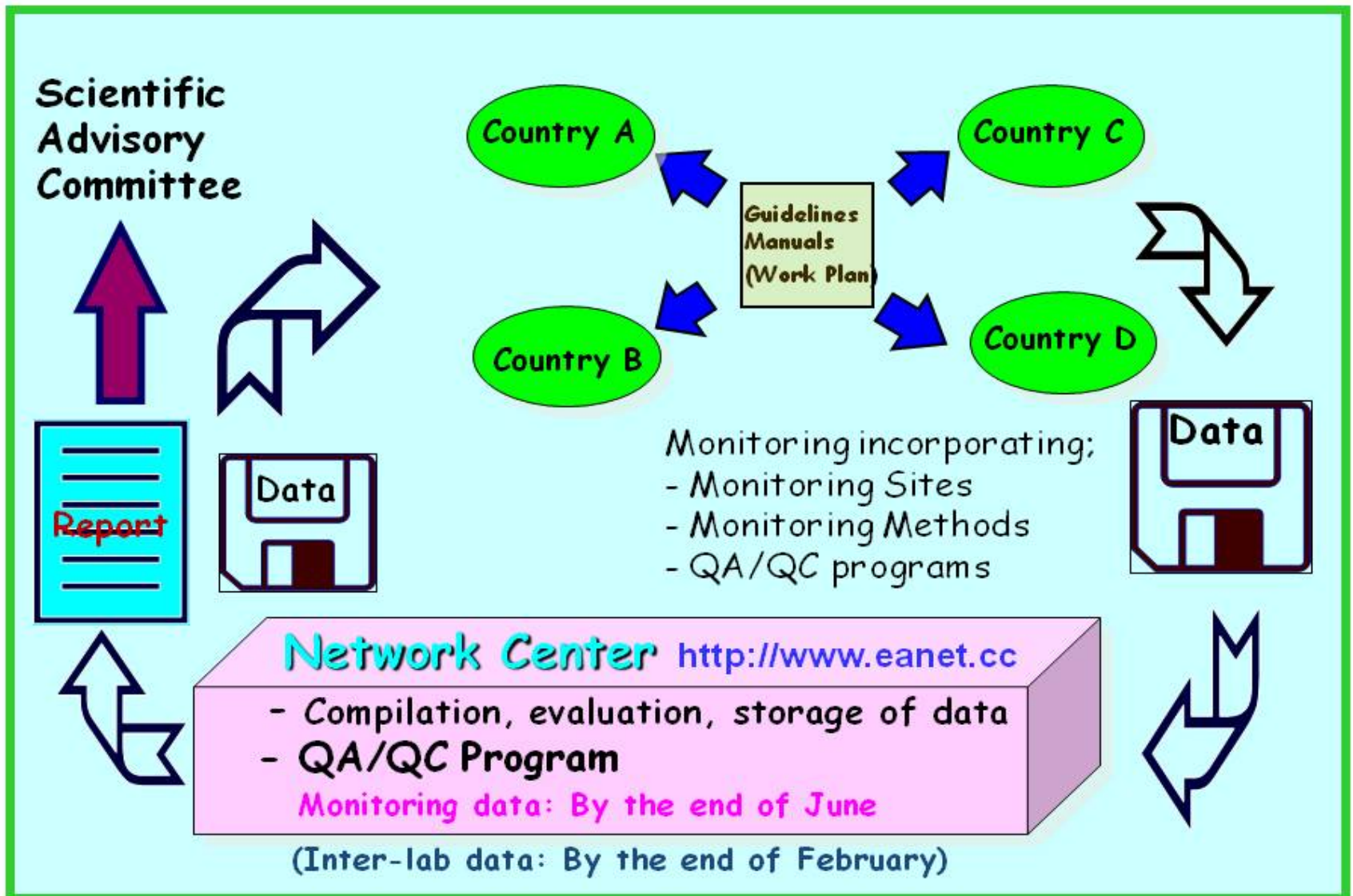
* The Secretariat was established in UNEP/RRC.AP in 2002 (IG2 Decision in 2000), it was rearranged and the UN Environment is functioning as the Secretariat in May 2015 (IG15 Decision in 2013).

** Ad hoc Research Planning Group (under the TF on Research Coordination) is now developing new research proposals on PM_{2.5} and SLCPs to obtain external funds.

*** 1 new EG was established in 2016 to revise 2 technical manuals.

(Manuals for Air concentration monitoring in 2013 and Dry deposition flux estimation in 2010)

2. EANET Monitoring Activities



National monitoring plan has to be also submitted to the NC every year by the end of July. 3

3. LOCATION OF DRY MONITORING (2017)

● Dry deposition (50) monitoring sites

Filter pack: 43 sites

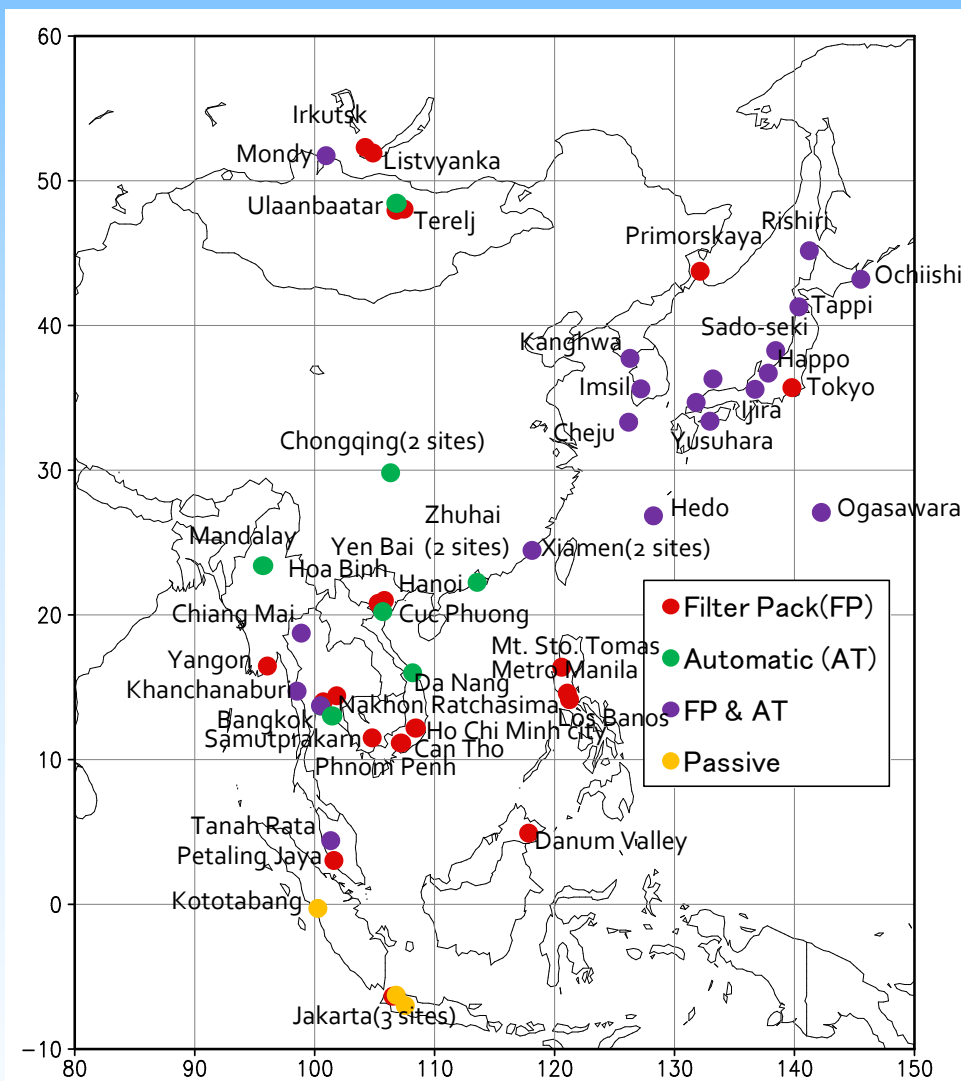
Automatic: 28 sites

Passive: 4 sites

East Asian region

i) **More than 1/3** of world population and **more than 1/5** of the area on the earth.

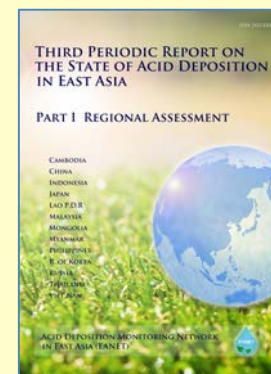
ii) However **air quality** especially in all of developing countries **is very serious**. Furthermore, air quality in Japan and R. of Korea has been affected from surroundings especially PM and ozone.



4. 3rd Periodic Assessment Report in East Asia (PRSAD3) and EANET Science Bulletin

1. EANET is conducting the assessment on the state of acid deposition in East Asian region every 5 years (PRSAD)

	PRSAD1	PRSAD2	PRSAD3
Publication	2006	2011	2016
Target period	2000~2004	2005~2009	2010~2014



(PRSAD3: to be issued soon)

- Established Drafting Committee (DC) for PRSAD3 in 2015.
- Designated lead authors/contributing authors for each chapter.

Part1 : Regional Assessment Report (by lead authors/ contributing authors)

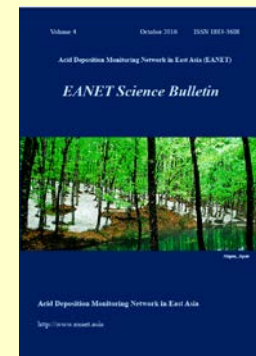
Part2 : National Assessment report (by each participating country)

Part3 : Executive Summary

<http://www.eanet.asia/product/index.html>

4. Issued EANET Science Bulletin (Vol. 4) on the website.

http://www.eanet.asia/product/science_bulletin/Oct_2016.pdf



Numbers of EANET monitoring sites (PM_{10/2.5} and Ozone) in 2016

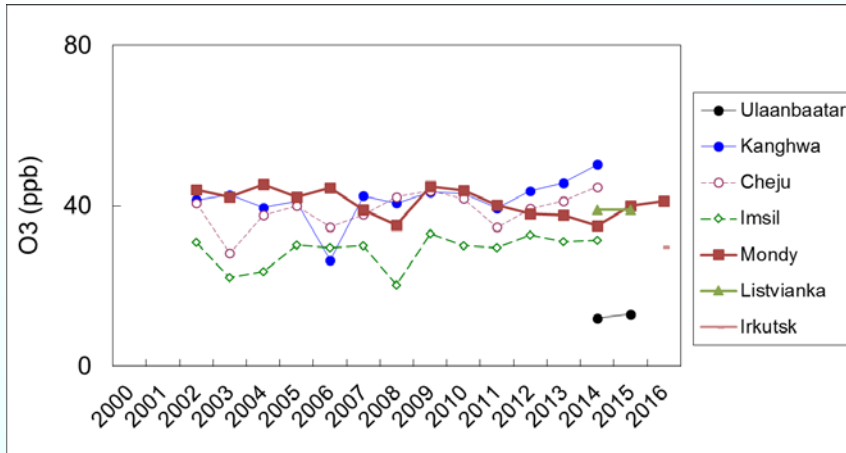
Country	PM ₁₀	PM _{2.5}	O ₃
China	3		
Japan	11	11	11
Mongolia	1	1	1
Myanmar		1	
Philippines	1	1	1
R. of Korea	3		3
Russia			2
Thailand	5	3	4
Viet Nam		1	
Total	24	18	22

Note: The numbers do not include the numbers of monitoring sites which the data in 2016 was not submitted.

In 2017, PM_{2.5} monitoring of the EANET has being implemented in Cambodia (1), Indonesia (1), Japan (11), Mongolia (1), Myanmar (1) Philippines (1), Thailand (3) and Vietnam (1). (Not less than 20 sites.)

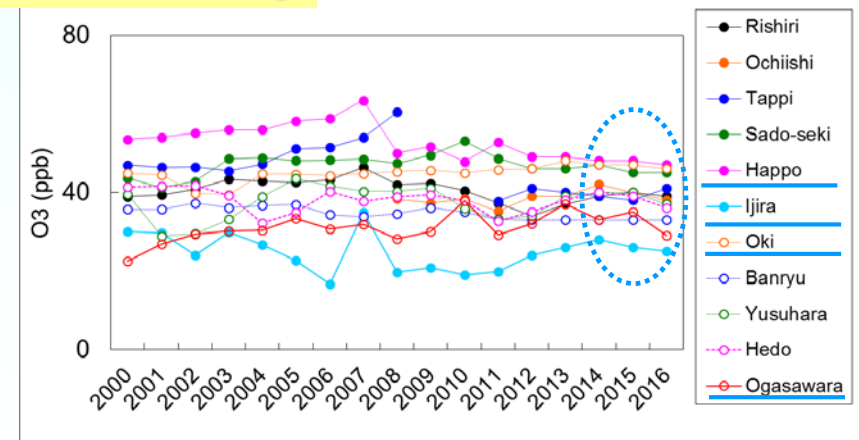
6. Annual trend during 2001-2016 (O₃)

Mongolia, R.Korea, Russia

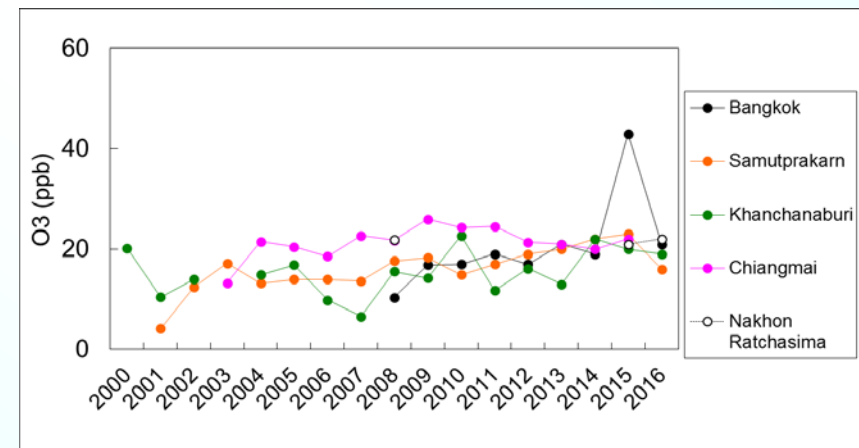


Decreasing

Japan



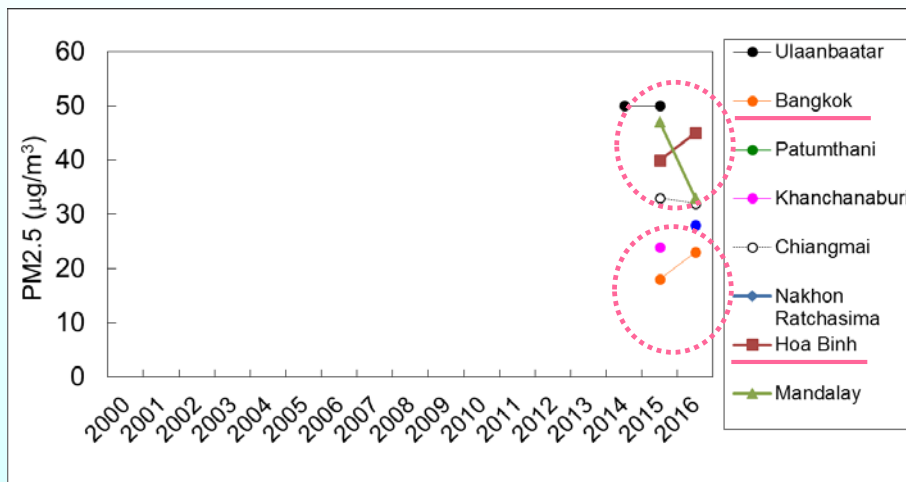
Thailand



7. Annual trend during 2001-2016 (PM_{2.5})

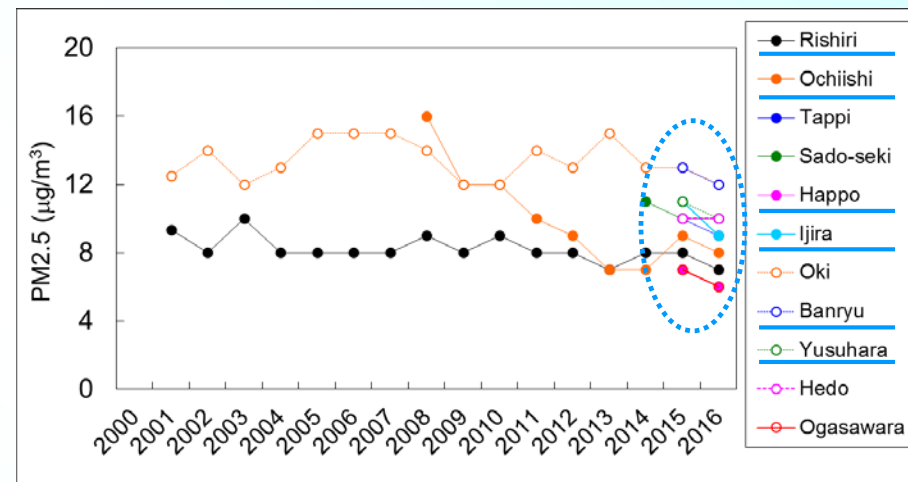
Increasing

Mongolia, Myanmar, Thailand Vietnam



Decreasing

Japan



8. Feasibility Study on the Establishment of a New Network Center for the EANET

1. In accordance with the request from the participating countries, the EANET will develop Feasibility Study Report on the Establishment of a New Network Center (NC) for the EANET in 2017-2018.
2. Establishment of a NC is not a precondition of the study.
3. Expansion of the scope of the EANET has to be also considered in conjunction with the Establishment of a NC because present NC (ACAP) is implementing most of the possible activities within present EANET scope.
4. Possible expanded activities
 - i) Clean air technology (including research), ii) (Official) Modeling activities, iii) Emission inventory, iv) Air quality monitoring, v) Environmental satellite monitoring, vi) Monitoring of SLCPs, vii) Others
5. As a common practice of the EANET, initial cost of the establishment and at least several years operational cost of new NC should be borne fully by the host country.
6. Questionnaire survey was implemented to the National Focal Points (NFPs) and Scientific Advisory Committee (SAC) members.
7. The EMEP is one of the organizations that the EANET should study as a existing appropriate organizations.

**Thank you for
your attention!!**

Toki Messe (International Convention Center) in Niigata