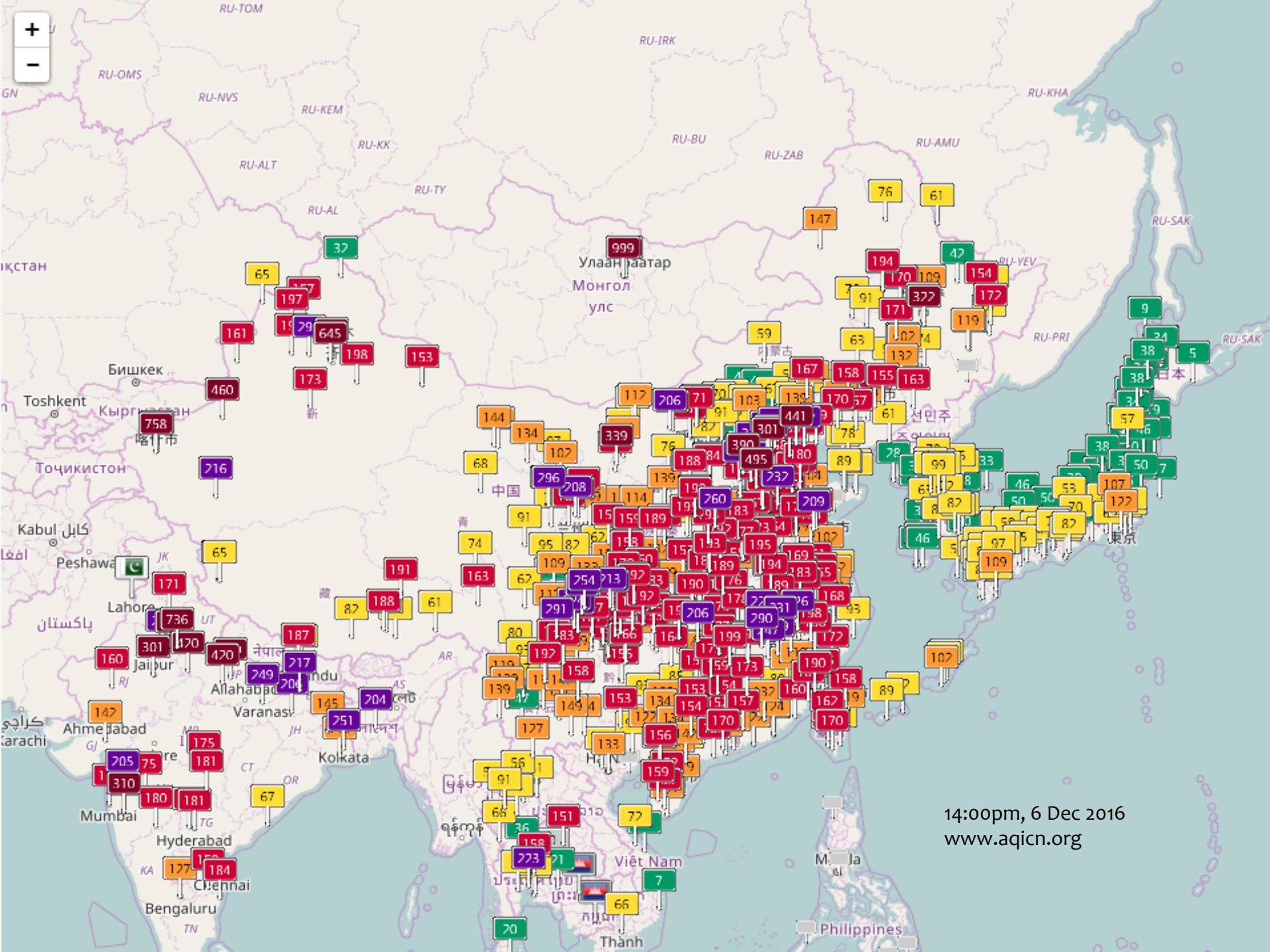


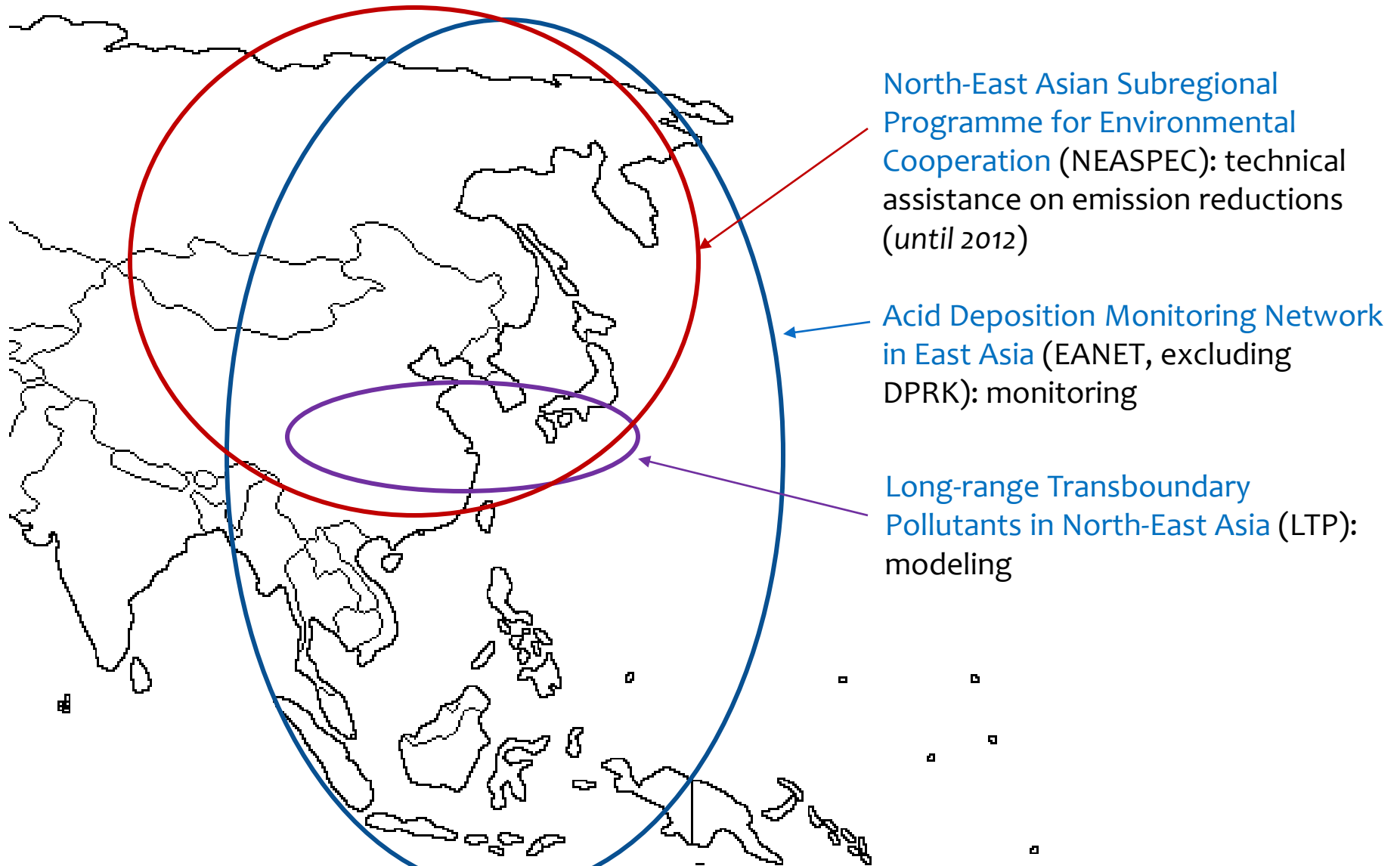
# Background and Key Questions





14:00pm, 6 Dec 2016  
www.aqicn.org

# Mechanisms on air pollution exist...



# Technical cooperation on abatement technologies and measures by NEASPEC

1996-2011: three-phased projects for technical assistance on air pollution mitigation from coal-fired power plants



## TA- 3<sup>rd</sup> phase project components

(1) Air Pollution Abatement Plans; (2) SO<sub>2</sub> Emission Regulation and Compliance; (3) Mongolian Power Plant Emission Standards; (4) Knowledge Transfer and Dissemination; (5) Demonstration Project and Management Modules



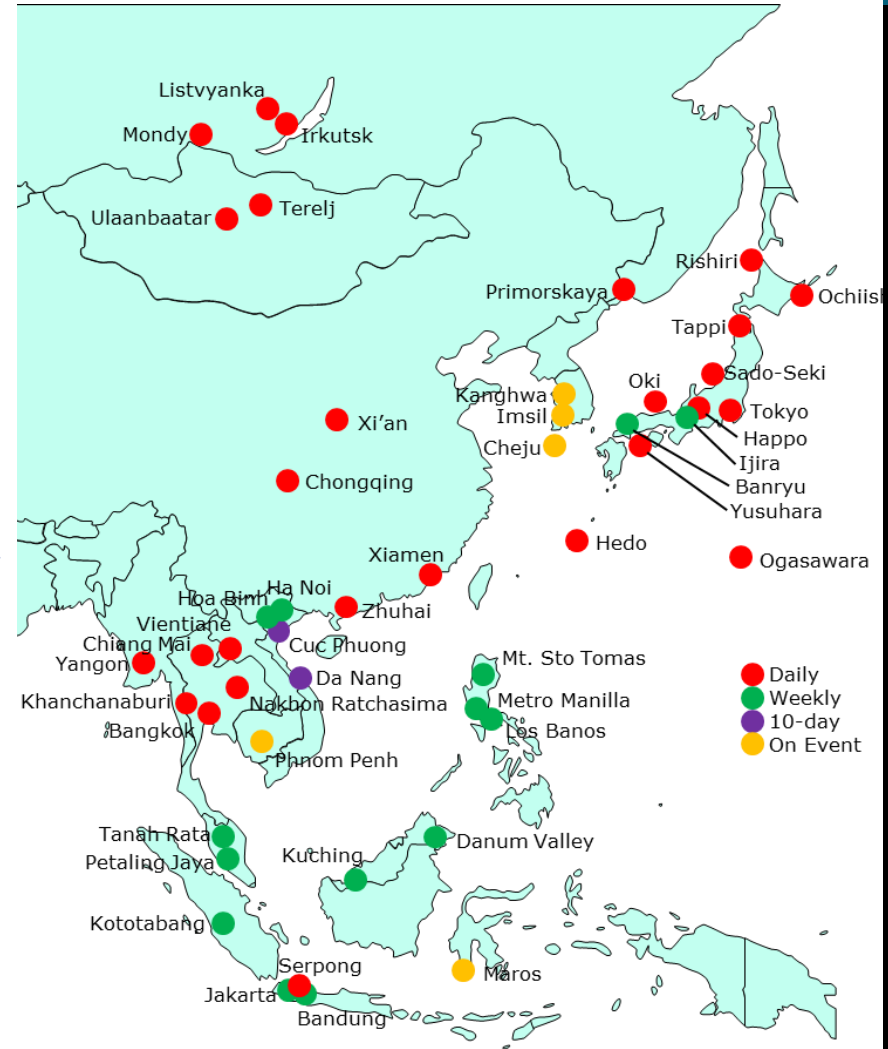
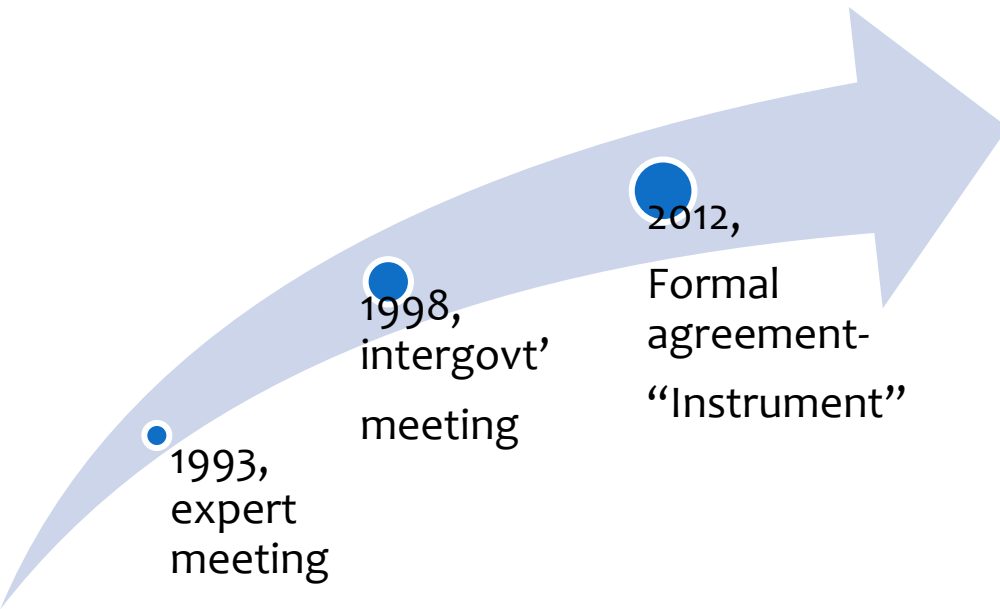
## Training and Knowledge Sharing Activities (2010-2011)

- Training on proposed emission standards for Mongolia
- Training on emission control (Zhangjiagang, China)
- Two training workshops on complex additive (Harbin and Qingdao, China)
- Training on optimized measurement and control of pH value (Changchun, China)
- Final workshop on the proposed emission standards (Ulaanbaatar, Mongolia)
- Subregional workshop (Incheon, ROK)

# Joint Monitoring by EANET

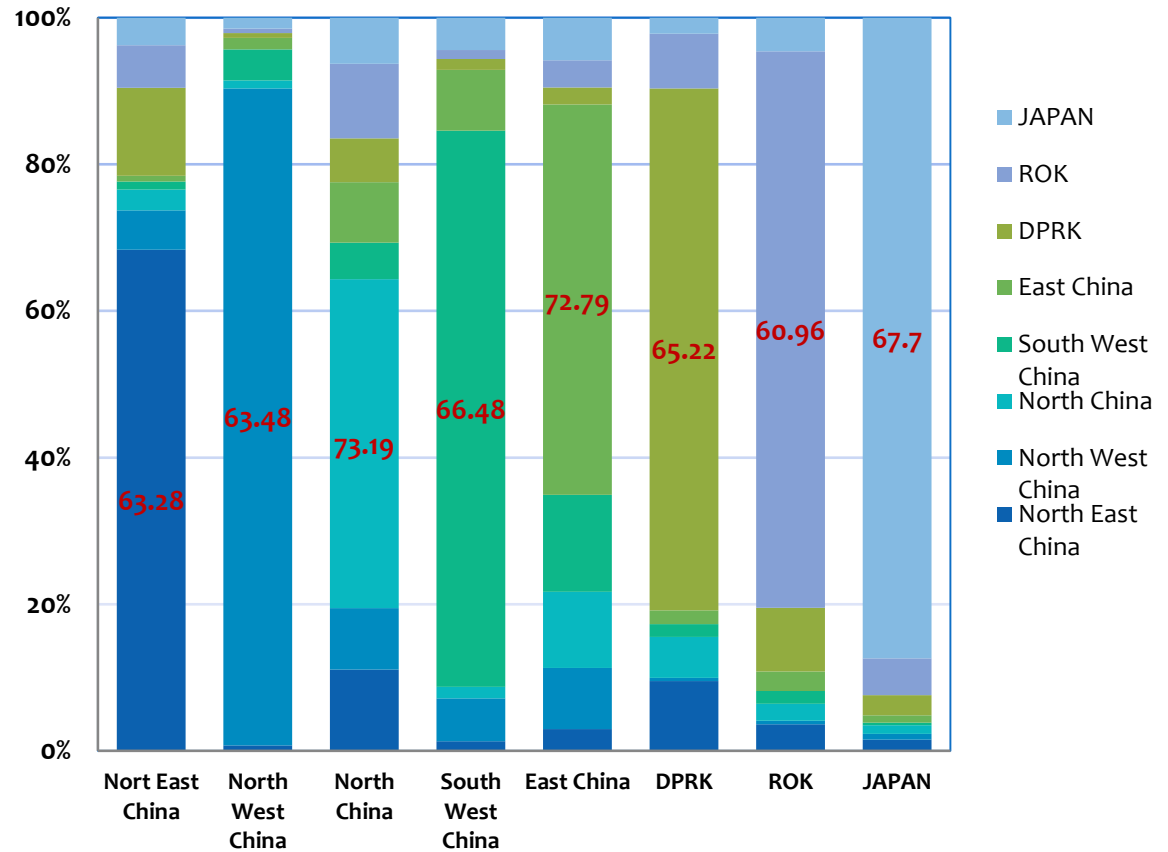
Goal: reduce environmental impacts by acid deposition

Membership: covering 13 countries with 54 monitoring sites



# Joint Modeling of source-receptor relationship by LTP

## Annual average of PM<sub>2.5</sub> SRR



The figures indicate the share of PM<sub>2.5</sub> originated from its own source.

By Pusan National University, submitted to 18<sup>th</sup> LTP expert meeting

# National and Subregional Emission Inventories

## GLOBAL INVENTORY

EDGAR (Emission Database for Global Atmospheric Research) – HTAP (Hemispheric Transport of Air Pollution) Emission Inventory: REAS, GAINS, EMEP, UNFCCC

## REGIONAL INVENTORY pertaining to North-East Asia

Greenhouse Gas-Air Pollution Interactions and Synergies (GAINS) Asia

MIX Inventory: MEIC, JEI-DB, CAPSS and REAS

Regional Emission Inventory in Asia (REAS)

Comprehensive Regional Emissions inventory for Atmospheric Transport Experiments (CREATE)

Intercontinental Chemical Transport Experiment-Phase B (INTEX-B)

## NATIONAL INVENTORY in North-East Asia

China Multi-resolution Emission Inventory (MEIC)

Japan Auto-Oil Program Emission Inventory-Data Base (JEI-DB)

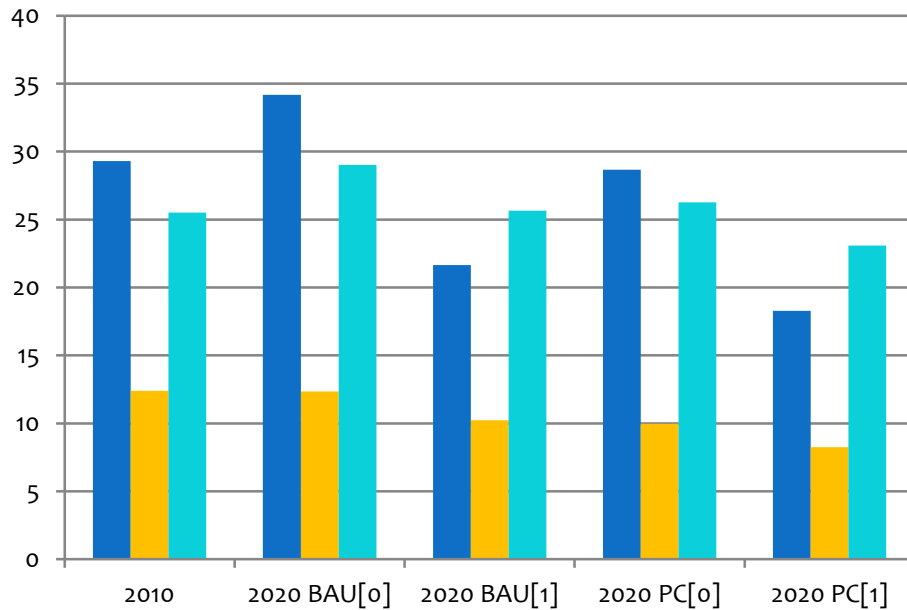
ROK Clean Air Policy Support System (CAPSS)

Annual overview of air emissions from major settlements and federal subject of the Russian Federation (by SRI Atmosphere)

Annual compilation of air pollutants (by Mongolia National Agency for Meteorology and Environmental Monitoring)



# Policy Scenario by academic community



■ NOx  
■ PM2.5  
■ NMVOC

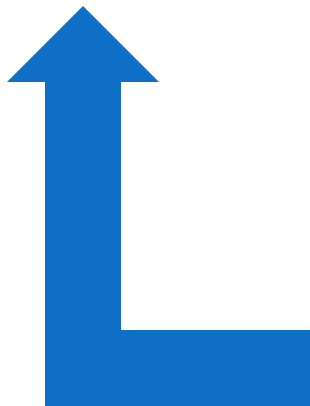
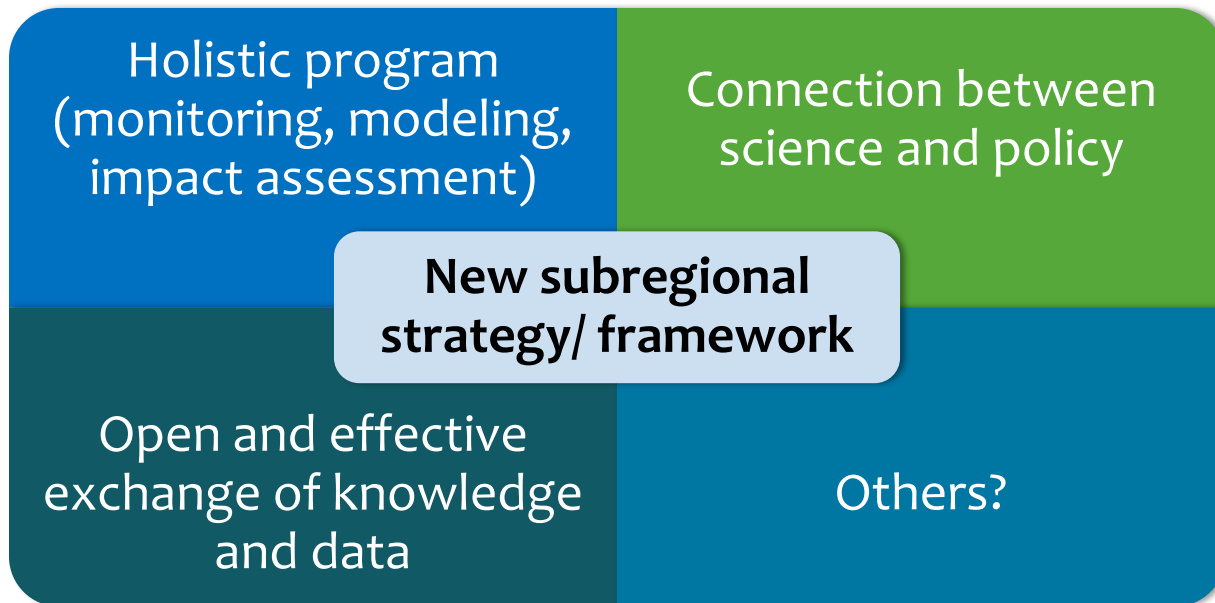
*Countries include China, DPRK, Mongolia, Japan and ROK*

*Scenarios are based on the combination of end-of-pipe control measures and energy-saving policies*

Source: Wang S. X. et.al. 2014. Emission trends and mitigation options for air pollutants in East Asia, Atmos. Chem. Phys., 14,



# But a comprehensive and effective mechanism has been explored



**Target pollutants:** PM<sub>2.5</sub>, PM<sub>10</sub> and Ozone and their linkages with other pollutants including SO<sub>x</sub>, NO<sub>x</sub>, Black Carbon, NH<sub>3</sub> and VOCs.

**Potential areas of work:** (a) modeling of source-receptor relationship of transboundary air pollution, (b) policy scenarios, (c) emission inventory, (d) abatement technology assessment, (e) impact assessment, etc.

# Questions for the panel

- (a) What are the most needed joint programmes in North-East Asia?
- (b) How to strengthen science – policy linkages?
- (c) How to build synergies among existing programmes and collectively strengthen them into effective and practical tools for addressing air pollution challenges?
- (d) What would be the recommended institutional arrangement for an effective and efficient subregional framework?
- (e) Who should be the key/ core partners for the suggested programmes?

THANK YOU 谢谢 та бүхэнд баярлалаа  
ありがとうございます 감사합니다 спасибо

**NEASPEC**  
North-East Asian Subregional Programme  
for Environmental Cooperation

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The 20th Senior Officials Meeting (SOM-20) will take place in Tokyo, Japan during 1-2 February...

Nature Conservation in Transboundary Areas  
Transboundary Air Pollution Mitigation  
Prevention of Dust and Sandstorms  
Eco - efficiency Partnership  
Marine Protected Areas

**Meetings and Events**

Twentieth Senior Officials Meeting (SOM)  
1-2 February 2016, Tokyo, Japan

International Conference on National Urban Policy: Towards Smarter and Greener Cities  
14-15 December 2015, Incheon, Republic of Korea

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