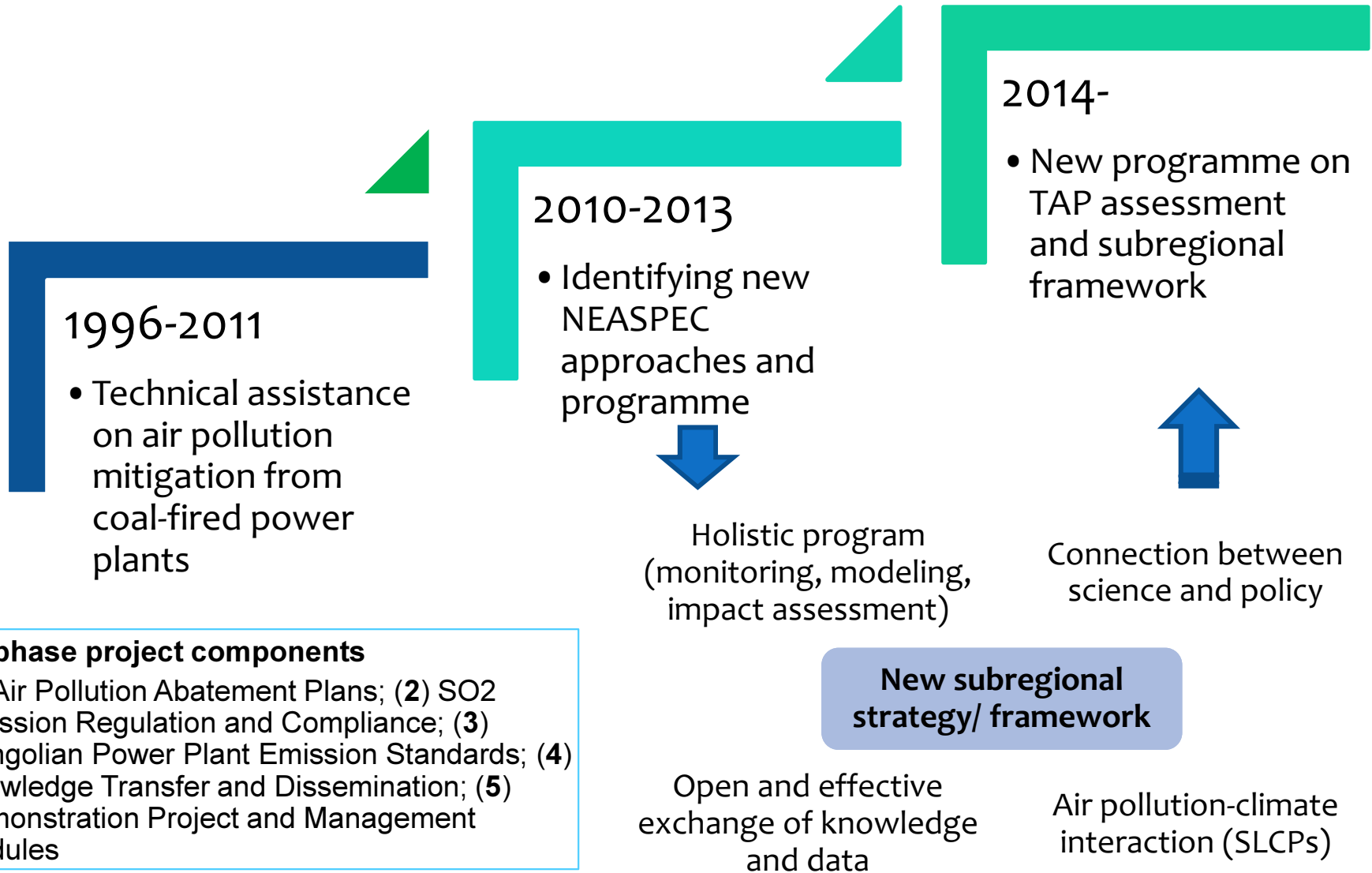


Transboundary Air Pollution



NEASPEC: building the foundation for collaboration on transboundary air pollution through technical projects, and now moving onto the next stage



Development of the technical and policy frameworks for transboundary air pollution assessment and abatement

Proposal by the Russian Government as follow-up to the Review project in 2012

Presented to SOM-17 (Dec. 2012) and endorsed at SOM-18 (Nov. 2013)

Goals: Assess options for establishing a science-based and policy-supported cooperation framework in North-East Asia for the assessment and mitigation of transboundary air pollution

Target pollutants: PM_{2.5}, PM₁₀ and Ozone and their linkages with other pollutants including SO_x, NO_x, Black Carbon, NH₃ and VOCs.

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

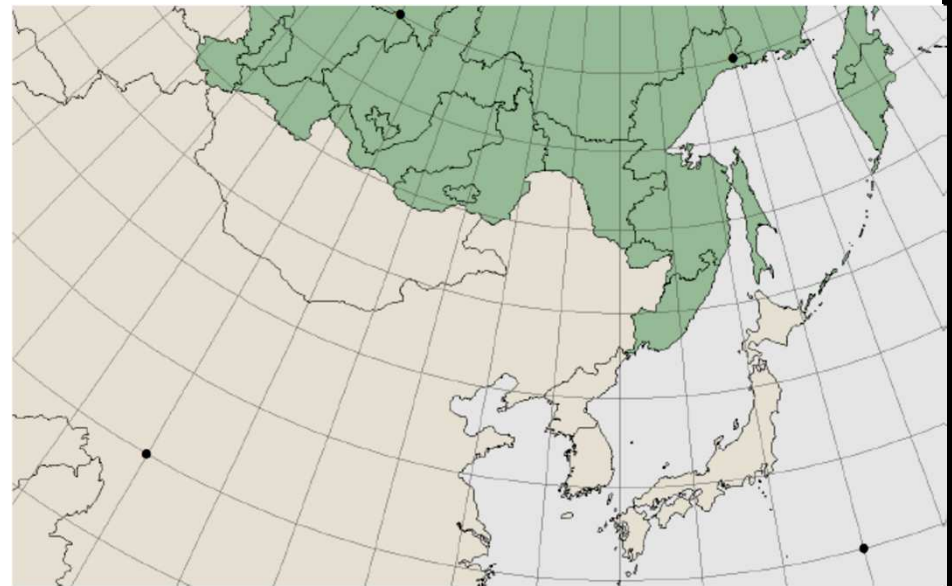
Implementation of the project

Key Work Components

- Modeling of source-receptor relationship of transboundary of Particulate Matter (PM_{2.5} and PM₁₀)
- Formulating recommendations on science-policy linkage and health impact assessment
- Development of the concept of the cooperation framework

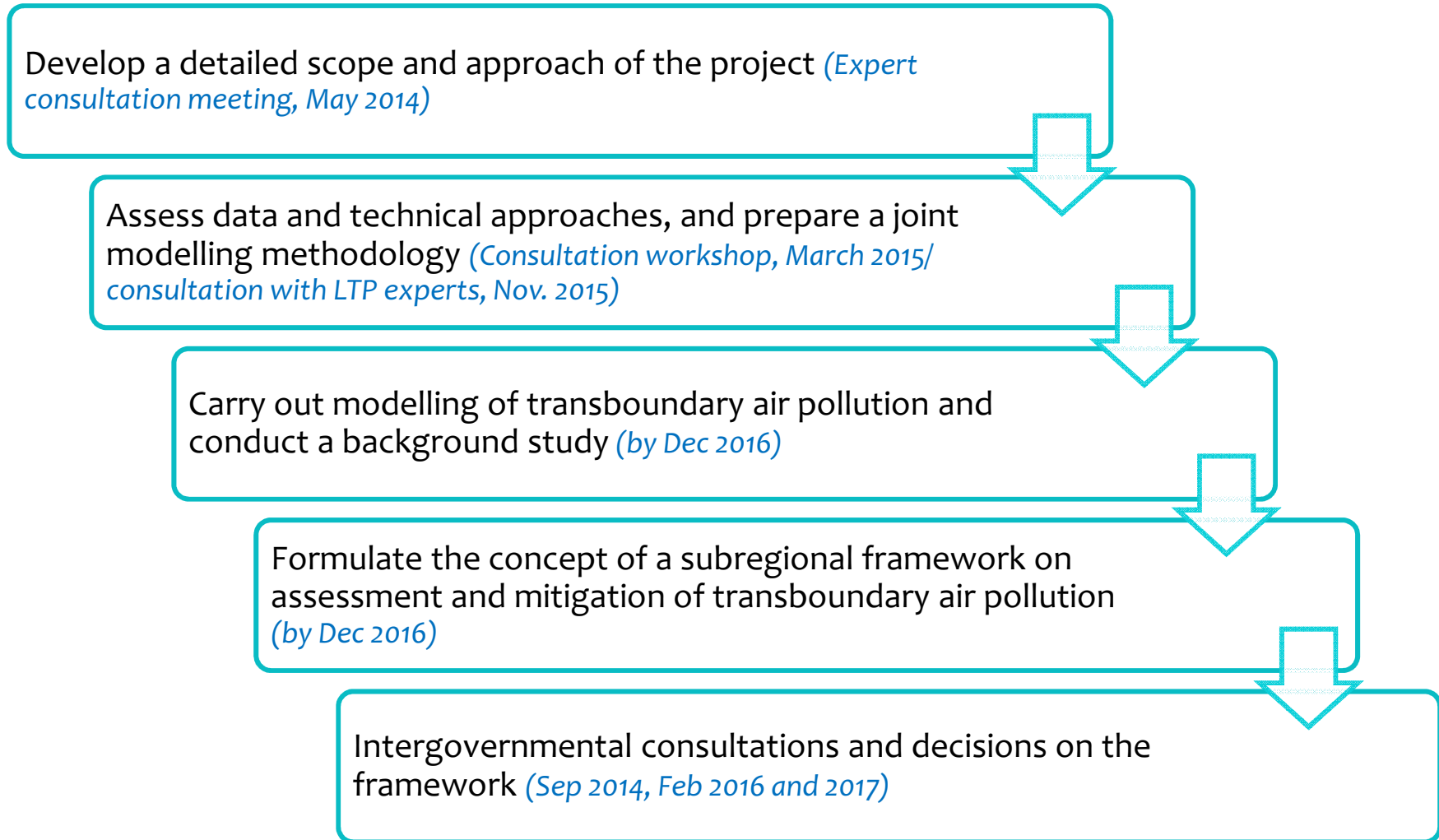
Implementing body

- **Lead agency:** Scientific Research Institute for Atmospheric Air Protection (SRI), the Russian Federation
- **Collaborating agencies:** Respective national institutions including the [Chinese Research Academy of Environmental Sciences](#) and [Busan National University](#), Republic of Korea, and [national experts involved in LTP modeling](#).



Proposed domain for the Project
(30°N-60°N and 100°E-145°E)

Implementation of the Project: 2014-2016



Science-Policy Linkage

An example of science-policy linkage: CLRTAP

Science

- providing relevant data
- carrying out atmospheric and effects modeling
- analyzing dose response and critical loads
- developing emission inventories
- carrying out integrated assessment; and
- developing science-policy recommendations



Policy

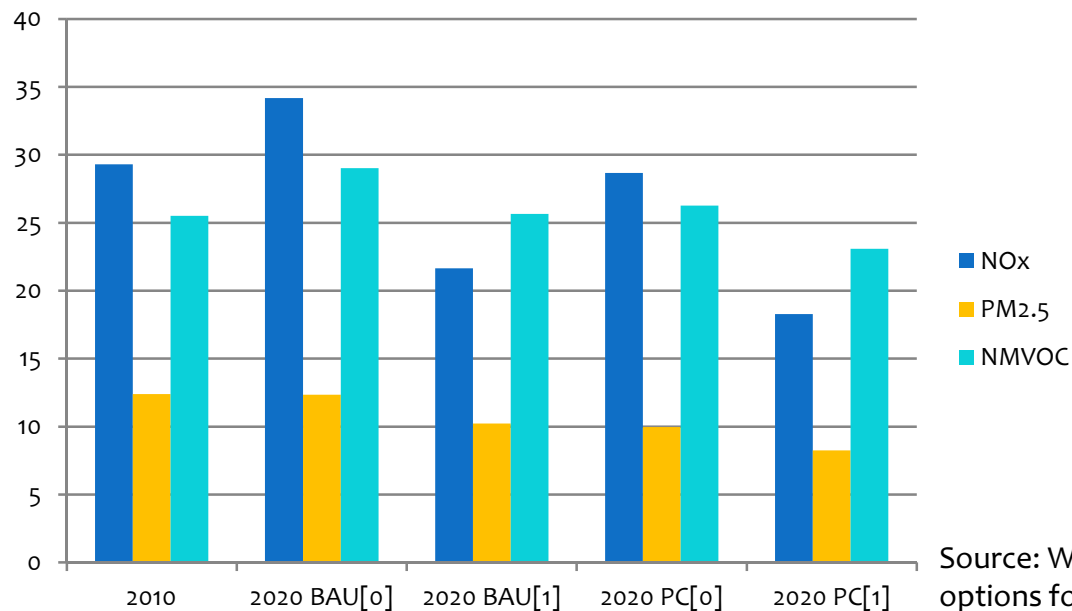
- addressing linkages with climate change, biodiversity and other cross-sectoral considerations
- exchanging information and good practices
- developing and disseminating guidance documents

Policy Scenario

Integrated assessment modeling for policy scenario:

- (a) **abatement options** for reducing multiple air pollutants and GHGs, and structural measures in major sectors
- (b) **projections of emissions**
- (c) **assessments of the atmospheric transport** of substances
- (d) analysis and **quantification** of the environmental and health **effects and benefits** of emission reductions

Policy scenario for air pollutions in Northeast Asia



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,

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

The screenshot shows the NEASPEC website homepage. At the top left is the NEASPEC logo with the text "North-East Asian Subregional Programme for Environmental Cooperation". To the right is a search bar. Below the logo is a navigation menu with items: HOME, ABOUT NEASPEC, OUR WORK, MEMBER STATES, PUBLICATIONS, MEETINGS AND EVENTS, and CONTACT US. The main banner features a cityscape image and the text "TWENTIETH SENIOR OFFICIALS MEETING (SOM)" with a sub-headline: "The 20th Senior Officials Meeting (SOM-20) will take place in Tokyo, Japan during 1-2 February...". Below the banner are five icons representing different areas: Nature Conservation in Transboundary Areas, Transboundary Air Pollution Mitigation, Prevention of Dust and Sandstorms, Eco-efficiency Partnership, and Marine Protected Areas. At the bottom, there are three columns: "Meetings and Events" listing the Twentieth Senior Officials Meeting (SOM) and the International Conference on National Urban Policy; "Publications and Working Papers" listing "Rason Migratory Bird Reserve: Birds and Habitats", "Eco-efficiency: A Practical Path to Sustainable Development", and "Eco-efficiency Indicators"; and "NEASPEC Briefs" listing "NEASPEC Brochure", "About NEASPEC", and "Nature Conservation".