



United Nations
ESCAP

North East Asian Subregional Programme for Environmental Cooperation (NEASPEC)

Participation of the Russian Federation in regional co-operation mechanisms on transboundary air pollution: work within the UNECE LRTAP Convention

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NEASPEC Expert Consultation Meeting

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Outline



- Air pollution in the Russian Federation
- Implementation of the UNECE Convention on Long-Range Transboundary Air Pollution
 - Short Overview
 - Achieved results
 - Challenges
 - Opportunities



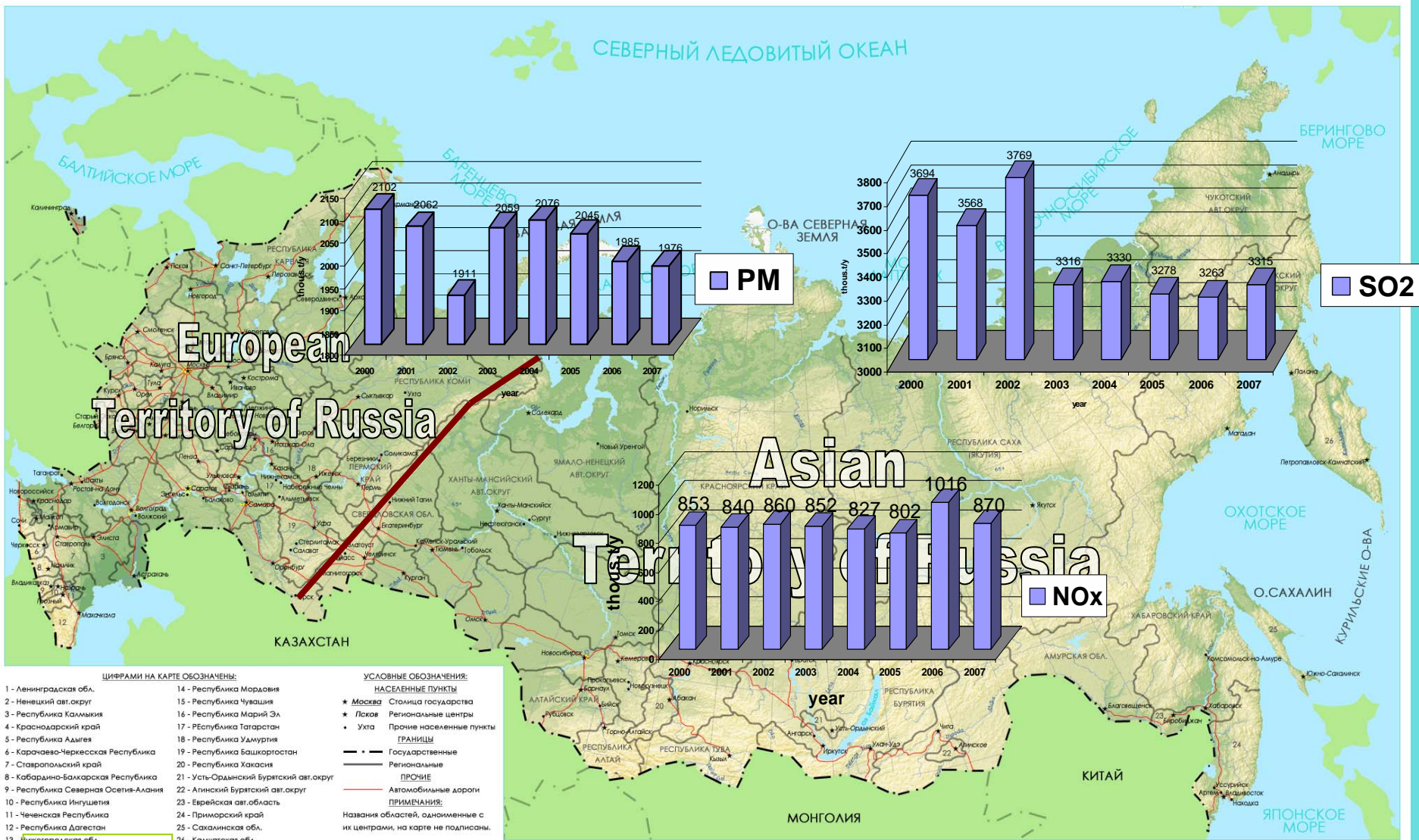


LRTAP Convention implementation: Short overview



- International Treaty since 1979
- Europe and North America covered
- Emissions of SO_x, NO_x, CO, VOCs, PM, heavy metals, POPs, ozone regulated
- EMEP Programme in place
- Reporting system established





- ЦИФРАМИ НА КАРТЕ ОБОЗНАЧЕНЫ:**
- 1 - Ленинградская обл.
 - 2 - Ненецкий авт.округ
 - 3 - Республика Калмыкия
 - 4 - Краснодарский край
 - 5 - Республика Адыгея
 - 6 - Карачаево-Черкесская Республика
 - 7 - Ставропольский край
 - 8 - Кабардино-Балкарская Республика
 - 9 - Республика Северная Осетия-Алания
 - 10 - Республика Ингушетия
 - 11 - Чеченская Республика
 - 12 - Республика Дагестан
 - 13 - Ингушская обл.
 - 14 - Республика Мордовия
 - 15 - Республика Чувашия
 - 16 - Республика Марий Эл
 - 17 - Республика Татарстан
 - 18 - Республика Удмуртия
 - 19 - Республика Башкортостан
 - 20 - Республика Хакасия
 - 21 - Усть-Ордынский Бурятский авт.округ
 - 22 - Агинский Бурятский авт.округ
 - 23 - Еврейская авт.область
 - 24 - Приморский край
 - 25 - Сахалинская обл.
 - 26 - Камчатская обл.
- УСЛОВНЫЕ ОБОЗНАЧЕНИЯ:**
- НАСЕЛЕННЫЕ ПУНКТЫ**
- * Москва - Столица государства
 - * Псков - Региональные центры
 - Ухта - Прочие населенные пункты
- ГРАНИЦЫ**
- - - Государственные
 - Региональные
- ПРОЧИЕ**
- Автомобильные дороги
- ПРИМЕЧАНИЕ:**
- Названия областей, одинаковые с их центрами, на карте не подписаны.

3-12



LRTAP Convention implementation:



Russian Federation is a Party to:

- the 1984 EMEP,
- the 1985 on Sulphur,
- the 1988 on Nitrogen Oxides




Plans to accede to:

- The 1998 Protocol on Heavy Metals
- The 1998 Protocol on Persistent Organic Pollutants (POPs)
- The 1999 Protocol to Abate Acidification, Eutrophication and Ground-level Ozone

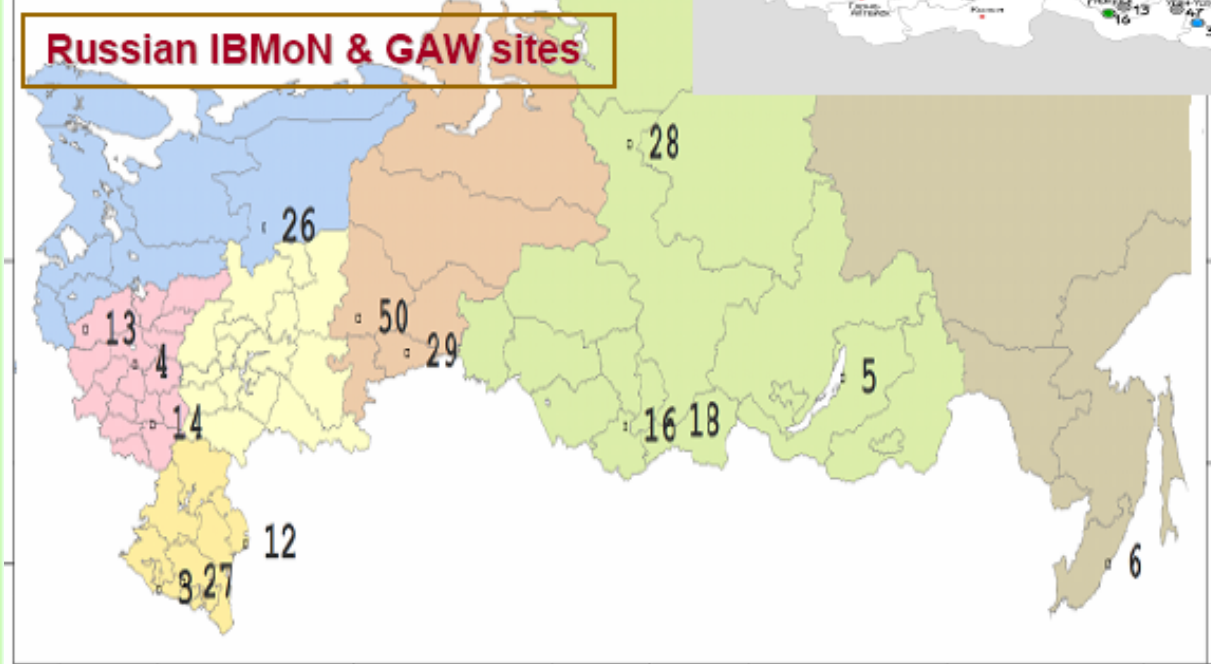
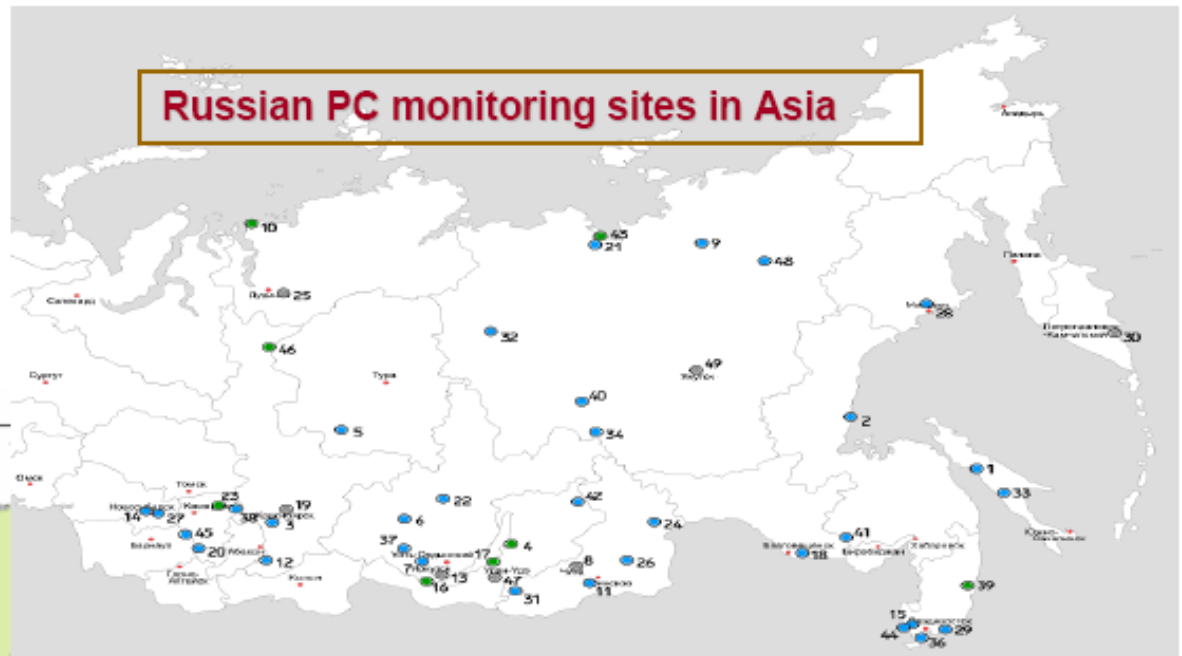




LRTAP Convention implementation:

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- Currently national obligations on emission reductions for European territory are fulfilled
 - Bottom-up emissions reporting established
 - Air quality monitoring performed
 - Modeling and assessment applied

Relevant Monitoring Networks in Russia





LRTAP Convention implementation: intermediate results



Emissions decreased

Stationary sources (net) – 52%


SO₂ 78% (1980)

NH₃ 76% (1990)


VOCs (NM) 40% (1990)

NO_x 1% (1987)





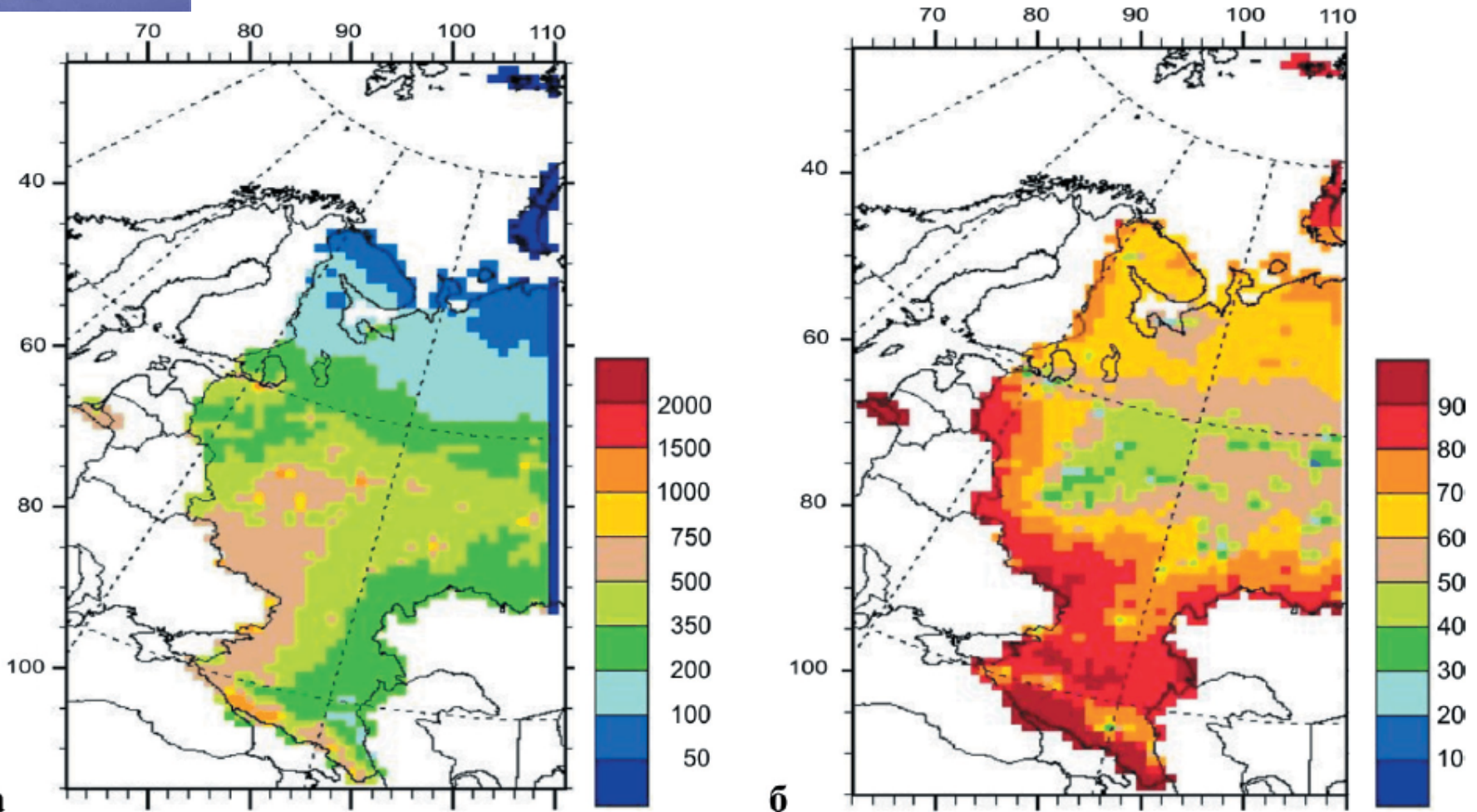
LRTAP Convention implementation: challenges

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- Mobile source emissions - 58% ↑
 - Transboundary air pollution affecting bordering regions;
 - Interregional transport of air pollutants;
 - Development of Asian territory of Russia and North-East Asian nations





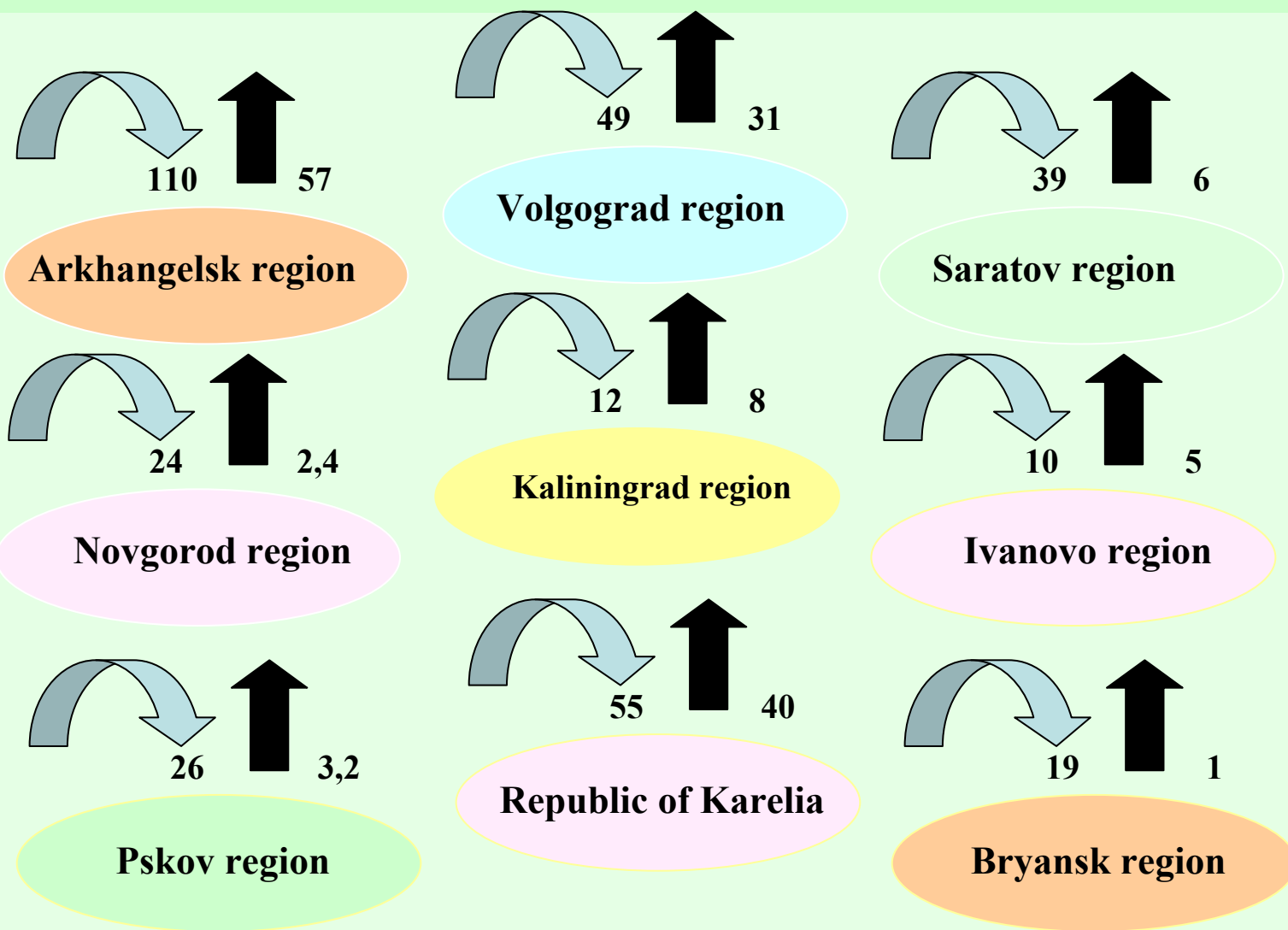
LRTAP Convention implementation: challenges




SOx deposition on European territory of Russia (mg/m²)

Contribution of transboundary SOx deposition, % (2008)

Inflow of sulphur in several Russian regions vs. regional sulphur emissions, thousand tonnes





LRTAP Convention mechanisms: potential for further implementation

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- Model for regional environmental cooperation in North-East Asia;
 - Application of existing expertise in monitoring and integrated impact assessment – EMEP and GAINS;
 - Potential application of critical loads/levels methodology for impact assessment on ecosystem – terrestrial, aquatic and mixed



11-12

SRI Atmosphere, January 20th, 2011, Incheon, ROK



CONCLUSIONS



- LRTAP Convention – Successful mechanism applied in a diverse region;
- Similar environmental concerns addressed in Europe/North America and North-East Asia;
- Available established and transparent science-based mechanisms for environmental impact assessment across a wide group of countries
- Model platform for further environmental cooperation in the region of North-East Asia





THANK YOU FOR YOUR ATTENTION!