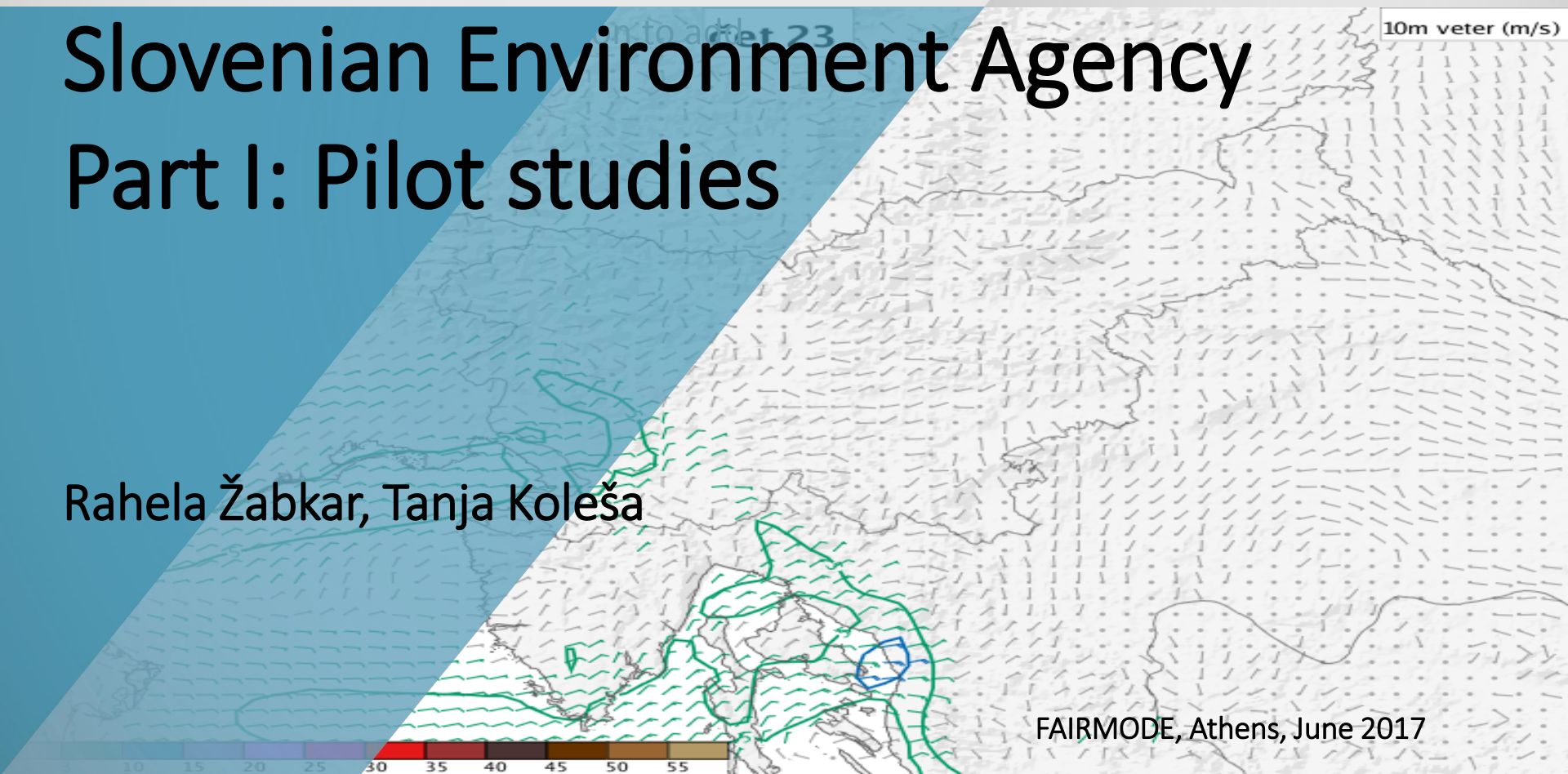


FAIRMODE management practices at Slovenian Environment Agency

Part I: Pilot studies

Rahela Žabkar, Tanja Koleša



Background and objectives

Slovenian Environment Agency (ARSO) is national meteorological organization focused on development and implementation of meteorological models (ALADIN/SI...)

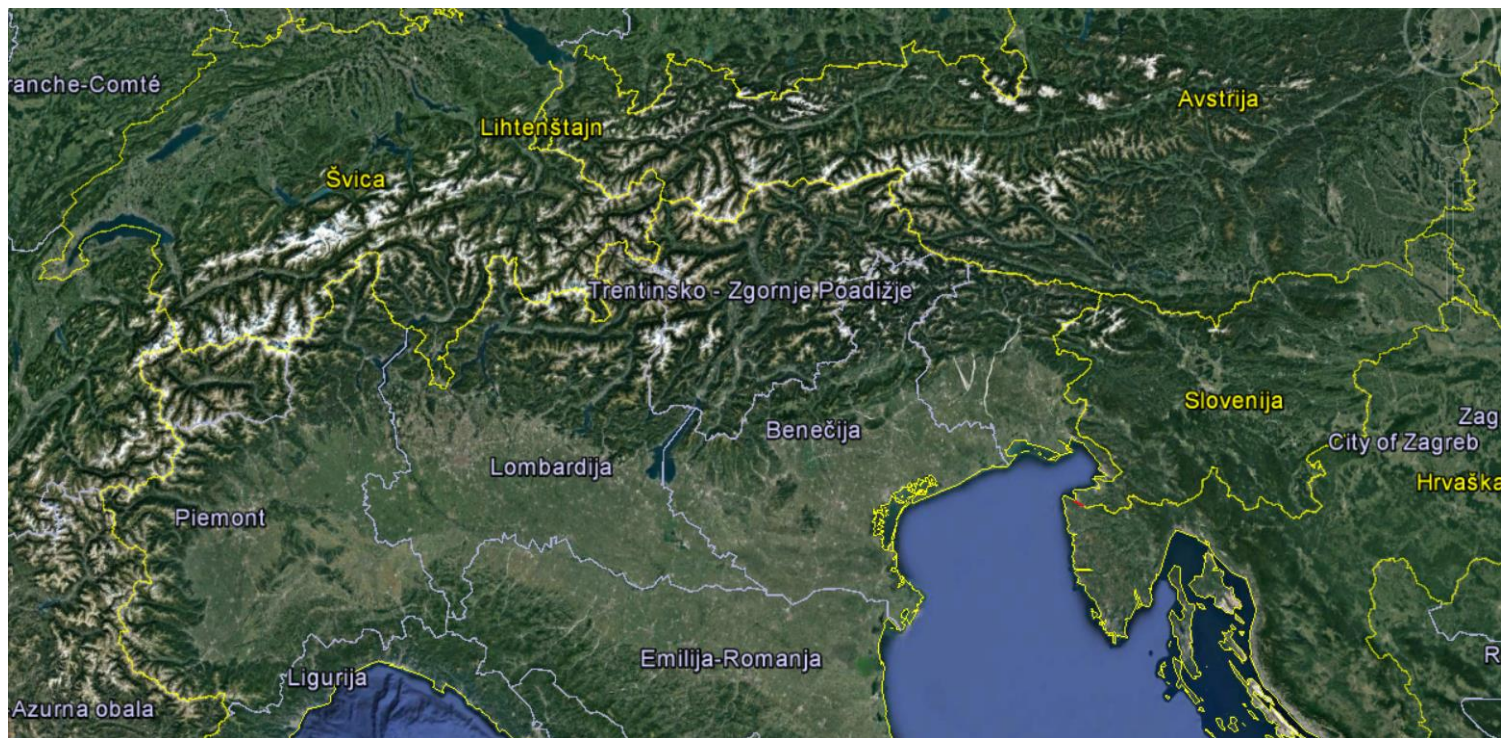
Strong collaboration between AQ specialists, meteorologists, chemists, other experts -> great potential

AQ modelling starts to evolve (mainly because of two projects)

Need to improve our knowledge and modelling tools for local scale dynamics in complex terrain (both meteorology and air quality)

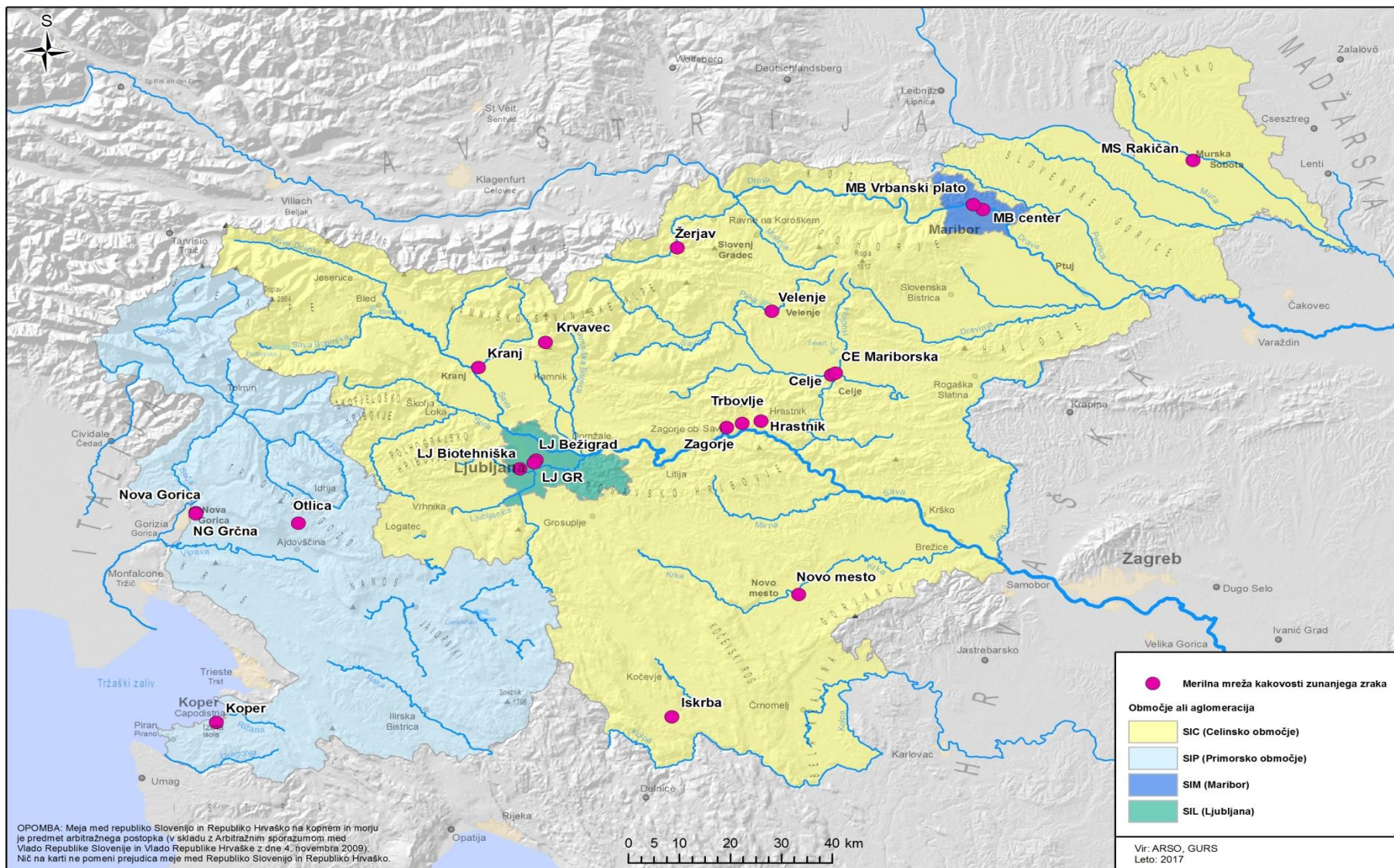
Examples of need: regional and urban air quality management with the help of models, accidental events (Kemis fire), temperature forecast for the need of heating demands (temperature inversion development in model -> not exclusively AQ problem)

Geographical position of Slovenia in the lee of Alpine barrier...



... contributes to the prevailing weak winds in combination with emission sources located in small valleys and basins.

National monitoring network

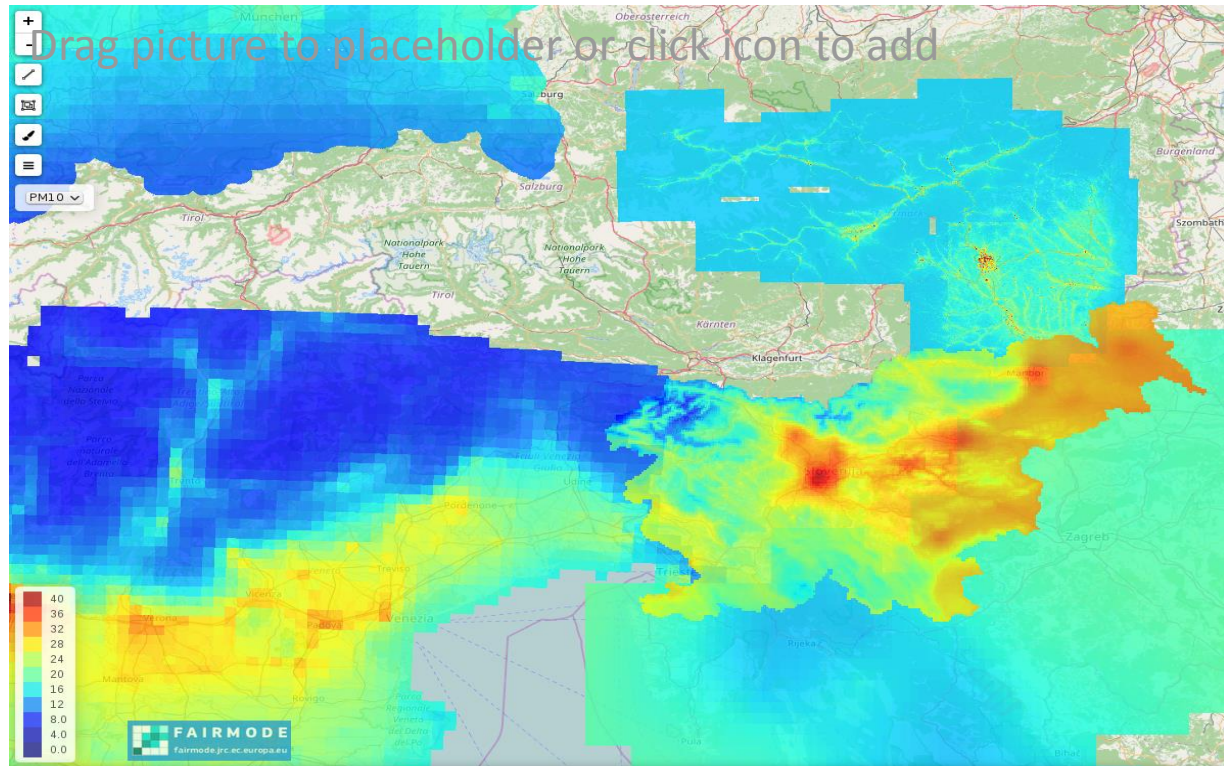


Quick answers to questions (1)

WG1:

Did you work with MQO? With the deltaTool? **Not yet, plan is to do that before FAIRMODE plenary meeting in 2018.**

Did you contribute to the Composite Mapping tool for concentrations? **Yes.**



Quick answers to questions (2)

WG2:

What about emissions? Did you benchmark your inventory with top-down ones?

No, will be set as one of the priorities before the next FAIRMODE meeting.

Did you contribute to Composite Mapping tool for emissions? We prepared the emissions in appropriate format and are now ready for the upload.

WG3:

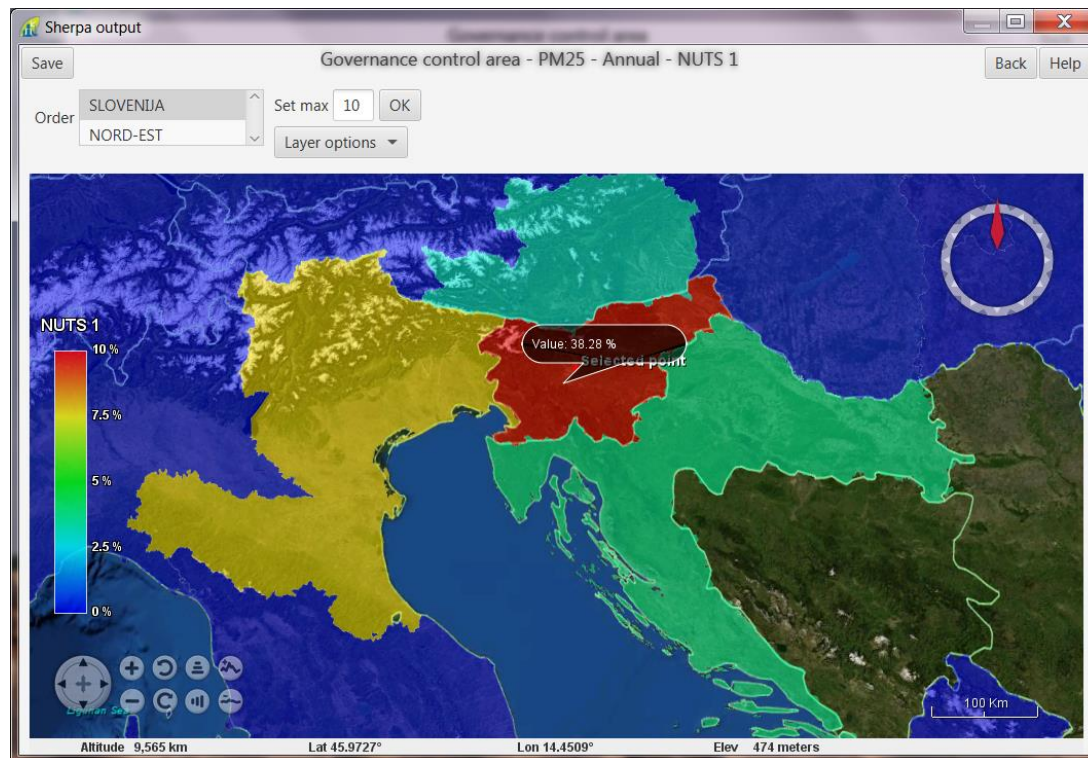
What about source apportionment? Do you already apply SA in your domain? We use PMF receptor model. In near future we plan to apply also source apportionment by CAMx model.

Quick answers to questions (3)

WG4:

What about planning? Did you use planning indicators? And SHERPA?

We quickly tested SHERPA. We participate in LIFE –IP PREPAIR project, one of the goals is to study the feasibility of using SHERPA and RIAT+ in Slovenia.



Quick answers to questions (4)

Our expectations on this activity:

- Support, improvement and guidance through the efficient use of modelling for air quality management practices and reporting
- Slovenian Environment Agency could contribute by combined knowledge of different experts and motivation to improve the understanding and tools for AQ modelling in complex terrain
- We are interested to get support not only with tools for yearly calculations, but also with tools , that could be used for episodes

