

ST20: Evaluation of regional air quality models for their ability to simulate health and policy relevant diagnostics over urban areas. This ST consists in making the best of the observational data provided from STs 1-8 in order to derive, by the air quality models, relevant health and policy diagnostics over Europe with zooms over cities. Only regional air quality models can capture transformation processes leading to the formation of secondary (organic and inorganic) PM and UFP. They are therefore an essential complement to urban scale models which focus essentially on the dispersion of primary species, or the mapping of total PM. A strong emphasis is given to the consolidation and validation of source apportionment techniques, as they are instrumental to identify abatement measures, but also to model the oxidative potential of PM.

The linked resources for this ST include:

- 1) M15 (M3.4) Improved modeling tools integrating regional and urban scales:
https://riurbans.eu/wp-content/uploads/2023/03/RI-URBANS_M15.pdf