CT6 Benchmarking

Technical Meeting October, 2022

What did we achieve (2020-2022)?

- Exchanging potential concepts and best practices about the integration of sensor network data in air quality mapping methods (Calibration vs DF).

- Exploring how air quality modelling can contribute to the exploitation and validation of an air quality sensor network.
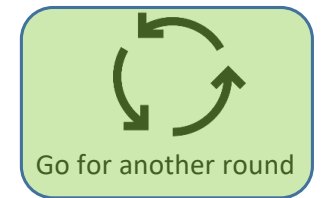
Additional (Not in ROADMAP...)

- Created real as well as synthetic data sets and benchmark data set.

Priorities for 2023-2025

Go for another round

Merge with other CT (existing/new)

- More focus on integration of sensors in AQ maps using DF.
- Demonstrate use of sensors in different areas/countries with national models to fuse.
- Provide guidance and recommendations on the use of sensors (Cal and DF).
- Publish article and write report.

- In CT6 session: General feeling that CT6 should continue.
- Sensors are here to stay. Important for FAIRMODE to deal with this subject.
- Data fusion can bring added value to the local sensor networks;
  - How can the data from a citizen science project be used?
  - What is the uncertainty of the data fusion in space and time?
  - How to communicate about the uncertainties of the sensors and the fused maps?
- More focus on city applications, where sensor networks have added value.
- Need for guidance on how to locate new sensors and how to deploy sensor networks.
- How to make sure all sensor networks (often in silo's) are accessible.
- Links with CT8 (assessment of SR and ESI), CT4 (micro scale model validation) → Synergy?

Thank You !