

# FAIRMODE Technical Meeting

06/10 - 08/10 (online)

# Wednesday 06/10

9:00	<b>Introduction / Welcome</b>	
9:15	<b>CT1 – Src. App. (1.5h)</b> Intercomparison exercise for NO2	<b>CT8 – Exp &amp; Exc. (1.5h)</b> Spatial representivness
10:00		
10:30		
10:45	<b>Coffee break</b>	
11:00		
11:15	<b>CT1 – Src. App. (1.5h)</b> Receptor models, Use of tagging and brute force	<b>Coffee break</b>
11:30		<b>CT3 – Forecast (1.5h)</b> See detailed agenda
12:00		
12:30		
12:45	<b>Lunch break</b>	
13:00		
14:00	<b>CT1 – Src. App. (1h)</b> See detailed agenda	
14:15		
14:30		
15:00	<b>CT8 – Exp &amp; Exc. (1h)</b> See detailed agenda	
15:30		
15:45		
16:00	<b>Coffee break</b>	
16:15		
16:30	<b>CT3 – Forecast (1h)</b> Wrap-up & next steps	
17:00		
17:15		
17:30		

# Thursday 07/10

9:00		<b>CT2 – QA / QC (1.5h)</b> Review of additional indicators and metadata
9:15	<b>CT9 – AQ Projections (1h)</b> Inter-comparison exercise	
9:30		
10:00		
10:30		
10:45	<b>Coffee break</b>	<b>Coffee break</b>
11:00		
11:15	<b>CT9 – AQ Projections (1h)</b>	<b>CT4 – Microscale (2h)</b> Intercomparison exercise
11:30		
12:00	Inter-comparison exercise	
12:30		
12:45		
13:30	<b>Lunch break</b>	
14:00		
14:15	<b>CT6 – Sensors (1h)</b>	
14:30	See detailed agenda	
15:00	<b>CT4 – Microscale (0.5h)</b>	
15:15	Summary and next steps	
15:30		
15:45	<b>Coffee break</b>	
16:00		
16:15	<b>CT9 – AQ Projections (1h)</b>	
16:30	Wrap-up & next steps	
17:00		

# Friday 08/10

9:00	<b>CT6 – Sensors (1.5h)</b> Inter-comparison exercise	<b>CT7 – Emissions (2h)</b> See detailed agenda
9:15		
9:30		
10:00		
10:30		
10:45	<b>Coffee break</b>	
11:00		
11:15	<b>CT5 – AQM Practices (1.5h)</b>	
11:30	Guidance on AQM practices	
12:00		
12:30	<b>Lunch break</b>	
13:45		
14:00		
14:15	<b>CT2 – QA / QC (1h)</b>	
14:30	Composite mapping: possible future	
14:45		
15:00	<b>CT7 – Emissions (0.5h)</b>	
15:15	Wrap-up & next steps	
15:30	<b>Coffee break</b>	
15:45		
16:00	<b>CT5 – AQM Practices (1h)</b>	
16:15	AQ Measures (DB, data flow K)	
16:30		
16:45	<b>Wrap-up</b>	
17:00		

### **CT1 – Source apportionment (4 h) Wednesday 06/10**

09:15 – 10:45 SA Inter-comparison for NO2 (G. Pirovano)

11:15 – 11:35 A dummy's guide to receptor modelling (V. Riffault)

11:35 – 11:55 Comparison of tagging and brute force source apportionment (C. Belis)

11:55 – 12:15 Tagging and BF: Similar, complementary or designed for different purposes (A. Clappier)

12:15 – 12:45 Discussion

14:00 – 14:20 Proposal for an harmonized nomenclature to report SA results (P. Thunis)

14:20 – 14:40 Summary of parallel sessions (A. Clappier and G. Pirovano)

14:40 – 15:00 REMY: A life project related to SA (G. Maffei)

### **CT2 – QA/QC protocol (2.5 h) Thursday 07/10 and Friday 08/10**

#### **Thursday 07/10**

09:00 – 09:15 MQI additional indicators & metadata (L. Tarrason and P. Thunis)

09:15 – 10:00 User's feedback

10:00 – 10:30 Discussion on future steps (All)

#### **Friday 08/10**

15:45 – 16:00 Proposal for a more exhaustive composite platform: MQO (E. Pisoni)

16:00 – 16:15 Proposal for a more exhaustive composite platform: Emissions (L. Tarrason and P. Thunis)

16:15 – 16:30 Proposal for a more exhaustive composite platform: Monitoring design (L. Tarrason)

16:30 – 16:45 Discussion

**CT3 – Forecast (2h15') Wednesday 06/10**

- 11:30 – 11:40 Welcome and introduction (A. Piersanti and S. Janssen)
- 11:40 – 11:55 Results with the Delta Tool Forecast on Portugal (A. Monteiro)
- 11:55 – 12:10 Results from CAMS Regional Production (A. Colette and M. Gauss)
- 11:55 – 12:10 Results with the Delta Tool Forecast on Kosovo (A. Bartocha)
- 12:10 – 12:45 Discussion
  
- 16:30 – 17:30 Wrap-up & next steps

**CT4 – Microscale modelling (2.5 h) Thursday 07/10**

- 10:45 – 11:00 Status of the intercomparison exercise
- 11:00 – 11:30 Modelling group's presentations
- 11:30 – 12:00 First look at the results
- 12:00 – 12:45 Discussion
  
- 15:00 – 15:30 Wrap-up & next steps.

**CT5 – Air quality management practices (2.5 h) Friday 08/10**

**11:00 – 12:30 Guidance preparation (agenda TBC)**

11:00 – 11:15 Current status of the work

11:15 – 12:15 Presentations from current chapters' authors (15min per ppt)

- Implementing a low emission zone, to reduce NO<sub>2</sub> and BC
- Acting on non-exhaust traffic sources to reduce PM
- Designing domestic heating measures to reduce PM and benzo(a)pyrene
- Considering NEC requirements and co-benefits (incl. GHG) in AQ plans

12:15 – 12:30 Wrap-up and next steps

**14:00 – 15:00 JRC database on measures & data Flow K**

14:00 - 14:20 Existing knowledge on measures: data flow K, catalogue of measures, CT5 work

14:20 - 15:00 What would we need for a useful database of measures?

**CT6 – Sensors (2.5 h) Thursday 07/10 and Friday 08/10**

**Thursday 07/10 14:00 - 15:00**

Overview of CT6 activities (J. Wesseling)

CT6 and AQUILA (to be determined)

**Friday 08/10 09:00 - 10:30**

Near real time assessment with low-cost sensors, (Alicia Gressent, INERIS)

Near real time assessment with low-cost sensors, (Vera Rodrigues, U.Aveiro)

Near real time assessment with low-cost sensors, (Pascal Joassin, ISSeP)

DATA ASSIMILATION FOR PM<sub>25</sub> RIO MAPS; BAYESIAN APPROACH, (Jorge Sousa, VITO)

FAIRMODE CT6: Our ideas and experiences, (David Roet, VMM)

## **CT7 – Emissions (2.75 h) Friday 08/10**

### **09:00 – 11:00**

09:00 - 09:05: Introduction (M. Guevara)

#### Best practices

*09:05 - 09:45: Off-road transport emissions*

09:05 - 09:25: Non-road mobile machinery : current practices and way forward (S. López)

09:25 - 09:45: Way forward to a best practice document and recommendations (S. López)

*09:45 - 10:30: Temporal variability of emissions*

09:45 - 09:50: From annual to hourly scale: Brief introduction (M. Guevara)

09:50 - 10:00: Impact of agricultural temporal profiles on NH3 concentrations (M. Guevara)

10:00 - 10:10: Emissions from residential vs recreational wood combustion (S. López-Aparicio)

10:10 - 10:30: Discussion & contributions from CT7 participants (5min lightning talks):

Temporal distribution of gridded emissions – UBA zTool (S. Nordmann, UBA)

Two new approaches to improve temporal variability in emissions (J. Koenen, TNO)

The impact of hourly and / or averaged traffic emissions on concentrations (K. Johnson, CERC)

Temporal profiles of residential heating emissions in Greece (S. Fameli, NOA)

#### Updates from CAMS

10:50 - 11:10: The CAMS COVID-19 emission dataset (M. Guevara)

#### Emission QA/QC

11:10 – 11:30: Emission QA/QC (P. Thunis) - Links to the CT2 afternoon session

### **15:00 – 15:30 Summary and next steps**

15:00 - 15:05: How REMY will contribute to CT7? (G. Maffei)

15:05 - 15:30: Wrap up and next steps (M. Guevara)

## **CT8 – Exposure and exceedances indicators (3 h) Wednesday 06/10**

09:15 -09:25 Introduction to the Spatial Representativeness (SR) intercomparison (S. Janssen)

09:25 -09:35 SR analysis for Emilia-Romagna, Italy (R. Amorati)

09:35 -09:45 SR analysis for Poland (G. Jeleniewicz)

09:45 -09:55 SR analysis for Friuli Venezia Giulia, Italy (G. Bonafè)

09:55 -10:15 SR analysis for two cities in Sweden (K. Eneroth & M. Ross-Jones)

10:15 -10:25 SR analysis for Spain (F.MartinLlorente)

10:25 -10:35 SR analysis for Europe (B. Rolstad Denby)

10:35 -10:50 SR analysis for various regions in Germany (S. Nordmann)

10:50 -11:00 SR analysis for Tuscany Region, Italy (F. Guarnieri)

11:00 -11:15 Discussion and next steps (All)

15:00 - 15:15 Exceedance situation indicators: findings of the hackathon (S. Janssen)

15:15 - 15:30 Spatial Representativeness: lessons learnt from an intercomparison (S. Janssen)

15:30 - 16:00 Network design: proposal for new exercise (L. Tarasson)





**CT9 – Air quality projections (3.5 h) Thursday 07/10**

09:15 – 09:30 Context and Objectives (A. Monteiro)

09:30 – 09:40 JRC Modelling: a few considerations (A. de Meij)

09:40 – 10:30 Presentations by modelling teams

11:00 – 11:45 Analysis of delivered results (B. Bessagnet)

11:45 – 12:30 Discussion

16:00 – 17:00 To be completed