

## Fairmode technical meeting: Athens 19-22/06/2017 --- Agenda

<b>Monday 19/06</b>			
12:00-13:00	Registration		
13:00-13:30	Introduction & Set-up of WG activities		
13:30-15:30	Composite mapping	Intercomp. Exercise	
15:30-16:00	Coffee break		
16:00-18:00	Exceedance modelling	Emission Comp. mapping	Intercomp. Exercise
<b>Tuesday 20/06</b>			
09:00-10:45	Source Apportionment and Planning: What & when is it fit for purpose?		
10:45-11:15	Coffee break		
11:15-12:30	Sensors for AQM	SHERPA validation	
12:30-13:30	Lunch break		
13:30-15:30	Towards a practical implementation of the pilot exercise		
15:30-16:00	Coffee break		
16:00-17:30	Forecast	Benchmarking & Guidance QA/QC	Towards spatial S. App.
<b>Wednesday 21/06</b>			
09:00-10:30	FAIRMODE recommendations on QA/QC and fit-for-purpose		
10:30-11:00	Coffee break		
11:00-13:00	MQO / CEN	Sherpa session	
13:00-14:00	Lunch break		
14:00-16:00	Spatial represent.	Guidance	Guidelines / CEN
16:00-16:30	Conclusions, way forward and Closing of the meeting		

WG:1Assessment

WG2:Emissions

WG3: Src. App.

WG4: Planning

Common sessions

## Monday 19/06 (afternoon)

12:00-13:00	Registration					
13:00-13:30	Introduction & Set-up of WG activities					
13:30-15:30	<b>Composite mapping</b>			<b>Intercomp. Exercise</b>		
	General introduction		S Janssen		Evaluation of RMs and CTM	C. Belis and G. Pirovano
	A Quality Control tool for the Composite Mapping exercises		K Cuvelier			
	Comp Concentration Mapping vs2: upload procedure, data viewer & first results		S Janssen, P Viaene			
	Comp Emission Mapping: upload procedure, data viewer & first results		M Guevara		Discussion about results	All
	Synergies between both composite mapping exercises: discussion		all			
15:30-16:00	Coffee break					
16:00-18:00	<b>Exceedance modelling</b>		<b>Emission Comp. mapping</b>		<b>Intercomp. Exercise</b>	
	Introducing the challenges in exceedance modelling	S. Janssen	Training to upload emissions in the composite mapping & Use of the mapping tool	M Guevara S Lopez-Aparicio	Comparison of RMs and CTMs	G. Pirovano and C. Belis
	Examples, best practices: food for discussion	J Stocker, B Maiheu, S Nordmann, J Horalek	Discussion on the current tool - expectations on use of the composite mapping and suggestions for improvement	All	conclusions of the exercise and future work	All

## Tuesday 20/06 (morning)

09:00- 10:45	<b>Source Apportionment and Planning</b> <b>What &amp; when is it fit for purpose?</b>			
	Methodological background and illustrative examples		A.Clappier	
	Implications for source apportionment and planning: discussion		C. Belis, A. Clappier, All	
10:45- 11:15	Coffee break			
11:15- 12:30	<b>Sensors for AQM</b>		<b>SHERPA validation</b>	
	Introduction of a new WG1 activity on sensors	J Wesseling	Methodological approach and priorities	P. Thunis, A. Clappier
	Various perspectives of the use of sensors in an air quality management context	L Malherbe, J Stocker, A Karpinnen, D Brooks	Links to WG2, WG3 and WG4: discussion	All
12:30- 13:30	Lunch break			

## Tuesday 20/06 (afternoon)

### Towards a practical implementation of the pilot exercise

13:30-  
15:30

Introduction	E. Pisoni C. Guerreiro
Feedback from Pilots	Pilots (Sweden, Italy, Ireland, Slovenia, Poland, Croatia)
Discussion	All

15:30-  
16:00

### Coffee-break

16:00-  
17:30

#### Forecast

Which indicators related to forecast can be included in a "Forecast Summary Report"?	P Durka, J Stocker
Towards a probability estimate for forecasted exceedances	B Maiheu

#### Benchmarking & Guidance QA/QC

General overview of the session	L Tarrason
Stockholm feedback on emissions for the pilot exercise	K Eneroth
Warsaw feedback on emissions for the pilot exercise	P. Durka
Ljubljana feedback on emissions for the pilot exercise	R Zabkar
Alternative approach to estimate and distribute national traffic emissions at high spatial resolution	S Lopez-Aparicio
Need for emission implementation in pilot exercise & Validation and QA/QC in FAIRMODE	All

#### Towards spatial S. App.

On the validity of the incremental approach to estimate the contribution of cities to air quality	P. Thunis
Application of PMF analysis for assessing the intra and inter-city variability of emission source chemical profiles.	L. Diapouli
Contribution Estimate from Source Regions using CAMx	G. Pirovano
Example of the combination of receptor models and trajectories in the Danube area	S. Vratolis
Discussion about future work	All

### Wednesday 21/06 (Morning)

Wednesday 21/06 (Morning)					
09:00-10:30	<b>FAIRMODE recommendations on QA/QC and fit-for-purpose</b>				
	Introduction		P. Thunis		
	Feedback from Working groups		WG leaders		
	Discussion		All		
10:30-11:00	Coffee break				
11:00-13:00	<b>MQO / CEN</b>		<b>Sherpa session</b>		
	Introduction of DELTA 5.5 & Guidance Doc 2.1, feedback from the CEN working group		P. Thunis, S. anssen, A. Karpinnen	The use of SHERPA in the frame of the urban agenda on air quality	
	MQO for percentiles: how good is the current indicator implemented in DELTA and what can be improved?		J. Stocker, J. Horalek	The use of SHERPA in Spain/Madrid	
	What can be done when only a limited set of stations is available in a study domain? What is a minimum number of stations required to perform a validation? Suggestions, practical sollutions...		G. Santos, J. Kushta	Testing SHERPA in support to air quality plans over Portugal	
				Discussion	
				All	
13:00-14:00	Lunch break				

### Wednesday 21/06 (afternoon)

Wednesday 21/06 (afternoon)						
<b>14:00-16:00</b>	<b>Spatial Representativeness I</b>		<b>Guidance</b>		<b>Guidelines / CEN</b>	
	14:00 - 14:15: Introduction & Scope of the inter-comparison exercise (IE).	O. Kracht	The importance of evaluation of local traffic emission factors	M. Guevara	Progress of the CEN WG 44 activity	C. Belis
	14:15 - 14:30: Status of the IE	O. Kracht	Evaluation of the quality of wood-burning emissions in Norwegian cities	L. Tarrason	Use of local scale models for source apportionment	t.b.c.
	14:30 - 15:00: Team - Presentation 1	INERIS			Progress of the Guidelines	M. Mircea, G. Pirovano
	15:00 - 15:30: Team - Presentation 2	CIEMAT	Spatiotemporal distribution of biogenics emissions over Greece - A GIS approach	Dimitropoulou	Numerical simulations and Ozone source apportionment over Attica during an episode with CAMx.	V. Asimakopoulos, K.-M. Fameli
	15:30 - 16:00: Team - Presentation 3	VITO				
	<i>all Team-Presentations are 30 minutes: 15 min + 5 min obligatory slides + 10 min discussion</i>		Recommendation for QA/QC work	All	Upcoming events and training	C. Belis
			<b>Conclusions, way forward and closing of the meeting</b>			
<b>16:00-16:30</b>						
<b>17:00-18:00</b>	<b>Spatial Representativeness II</b>					
	17:00 - 17:15: Team- Present. 4 (summary on behalf of RIVM)	O. Kracht				
	17:15 - 17:30: Short Summary	O. Kracht				
	17:30 - 18:00: Discussion	All				

## Thursday 22/06 (Morning)

### Spatial Representativeness III: Workshop

09:00- 10:45	09:00 - 09:05: Welcome & Introduction	O. Kracht
	09:05 - 09:10: Tour de table	All
	09:10 - 09:25: Introduction on modelling for the underlying dataset (+ time for Questions & Discussion)	S. Janssen
	09:25 - 09:35: Summary on "practical lessons" learned from the IE	O. Kracht
	09:35 - 10:05: Team- Presentation 5	ENEA
	10:05 - 10:35: Team- Presentation 6	SLB
	10:35 - 10:45: optional, if required: short summary of Team-Presentations 1-4 (for those who did not attend the first day)	O. Kracht + Teams 1-4
	<i>all Team-Presentations are 30 minutes: 15 min + 5 min obligatory slides + 10 min discussion</i>	
10:45- 11:00	Coffee break	
11:00- 12:30	11:00 - 11:30: Team- Presentation 7	EPAIE
	11:30 - 12:00: Team- Presentation 8	ISSEP & AWAC
	12:00 - 12:30: Presentation for opening the afternoon discussion: "Spatial Representativeness & Harmonization – Do we need a paradigm shift?" (including summary and conclusions from the IE)	O. Kracht
12:30- 13:30	Lunch break	

**Thursday 22/06 (Afternoon)**

**Spatial Representativeness IV: Workshop**

13:30- 15:15	13:30 - 14:00: Team- Presentation 9	FEA-AT
	14:00- 14:30: Team- Presentation 10	VMM
	14:30- 15:00: Team- Presentation 11	FI
	15:00 - 15:15: Short Summary by OK & "to do List" for the IE report	O. Kracht
	<i>all Team-Presentations are 30 minutes: 15 min + 5 min obligatory slides + 10 min discussion</i>	
15:15- 15:30	Coffee break	
15:30- 17:00	15:30 - 17:00: Table Ronde & Discussion: - Spatial Representativeness & Harmonization - Are our methods fit for purpose? - Options for future work.	All



## **Dedicated Spatial Representativeness Workshop (22nd June 2017)**

### **Morning Session (09:00 – 12:30): “Spatial Representativeness behind the scenes”**

Expert session to discuss the technical details of the SR methods applied by the different participants of the intercomparison exercise (IE): The recently concluded SR IE provides an excellent opportunity for this exchange of knowledge. From having worked on the same shared dataset, we are able to efficiently exchange background information in a much more detailed way as compared to what would be feasible without this common ground.

- Introduction and short feedback from the organizers about what can be learned for the organization of the IE
- Individual presentations by participants about their work on the IE
- For better organization, every participant will be provided 2 or 3 “obligatory” slides with questions that should be summarized at the end of each presentation:
  - scope and intention of the particular SR method
  - self evaluation of the maturity of the method
  - underlying definition of SR similarity criteria & threshold parameters used
  - input data used
- Discussion on methodologies & and what can be learned for the SR methods

### **Afternoon Session (13:30 – 17:00): “Spatial Representativeness & Harmonization – Do we need a paradigm shift?”**

The concept of spatial representativeness has been discussed intensively within FAIRMODE and AQUILA for many years (>10y). However, no well-established consensus on its definition has been identified so far. Against this background it is hardly conceivable to make progress towards a more harmonized quantification of SR, without untangling its underlying concept.

- We propose that the concept of SR requires a paradigm shift
- Working hypothesis
  - We need to abandon the idea of SR being one single property of a monitoring site (there is no such like a “swiss pocket knife “ for SR)
  - Any manageable definition of SR needs to be clearly context related
  - We need to more clearly distinguish between: SR definitions / SR methods / objectives for performing a SR assessment
  - Using (a set of) clearly defined context related definitions of SR would significantly improve the communication and comparability of results

Organization of the session:

- Introduction to the topic, Presentation by the organizers: Working hypothesis and actual need for a paradigm shift, Optional: invited presentations by participants, Elaborating the topic within the group, Summary and final discussion