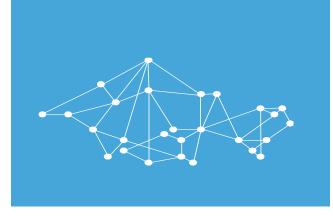


# CT8 – #1: SPATIAL REPRESENTATIVENESS OF MONITORING STATIONS

# TOWARDS RECOMMENDATIONS

MARCH 3, 2022

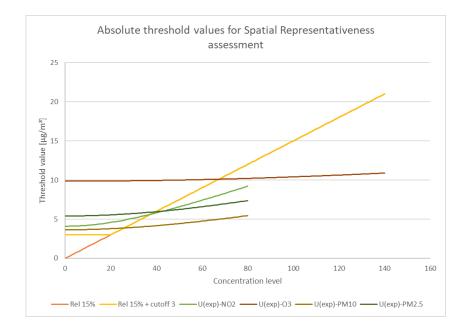


#### AGENDA

- » 14:00 Introduction and recap (Stijn Janssen)
- » 14:05 Results of additional threshold/tolerance analyses
  - » Giovanni Bonafè (ARPA FVG, IT)
  - » Roberta Amorati (ARPAE, IT)
  - » Matthew Ross-Jones & Kristina Eneroth (EPA-SE, Stockholm)
  - » Other?
- » 15:00 German reflections about Spatial Representativeness (Jutta Geiger, LANUV-NRW à tbc)
- » 15:15 FAIRMODE recommendations for SR assessment (all)
  - » Contribution for the FAIRMODE recommendations
  - » User Guide for SR assessment
  - » ...
- » 15:50 Any other business
  - » CT8#1 Presentation at HARMO
  - » ...
- » 16:00 End

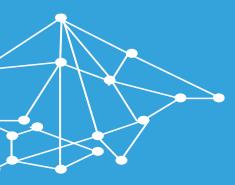
### **RECAP: CONCLUSIONS OF PREVIOUS MEETING**

- » SR area is defined:
  - » in a discontiguous approach
  - » limited by the AQ zone  $\rightarrow$  if needed the area can be reduced (e.g. based on expert opinion)
- » SR similarity criterion based on annual mean concentration (for the time begin), but:
  - » Test the possibility of a source specific SR  $\rightarrow$  important for e.g. AQ planning
- » SR threshold as a 15% relative value with lower cut-off, but:
  - » Test various cut-off values (e.g. 2  $4 \mu g/m^3$ )
  - » Test the measurement uncertainty curves of the FAIRMODE MQI
- » SR inter-annual variability (e.g. due to meteo effects) is a reality, but:
  - » Relevance depends on the application domain  $\rightarrow$  more testing to assess the impact
- » SR assessment requires a fit-for-purpose model with low model basis
  - » What is an acceptable bias at individual station location?
- » SR benchmarking against a uEMEP for all EU stations
  - » Compare bottom up analysis with uEMEP statistics
- » SR area can be reported as a shape in the e-Reporting



Results of additional threshold/tolerance analyses: - Giovanni Bonafè (ARPA FVG, IT)

- Roberta Amorati (ARPAE, IT)
- Matthew Ross-Jones (EPA, SE)



## German reflections about Spatial Representativeness

- » Next steps:
  - » Provide input for the FAIRMODE Recommendations
  - » Compile a Guidance document/note on model based assessment of SR area (ongoing CT8-#1 work)
  - » Integrate with Guidance on Exceedance Situation Indicators (ongoing CT8-#2 work)
  - » Circulate to the wider CT8 community, National Contact Points (2<sup>e</sup> half of March)
  - » Present to the FAIRMODE Plenary Meeting (27-28 April 2022, Brussels)
- » HARMO-21 abstract:
  - » Overview of the CT8-#1 activities, findings and recommendations
  - » Deadline March 15, 2022
  - » If accepted, presentation in Aveiro, 27-30 September 2022
  - » Co-authors?