



# AirMonTech



## Welcome

to the 3rd AirMonTech Workshop  
Current and Future Urban Air Quality Monitoring  
Duisburg, 04-05/03/2013



[www.airmontech.eu](http://www.airmontech.eu)



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## How do we see urban air quality monitoring in 2020?

Thomas Kuhlbusch and the AirMonTech Consortium  
3rd AirMonTech Workshop  
Duisburg, 04-05/03/2013

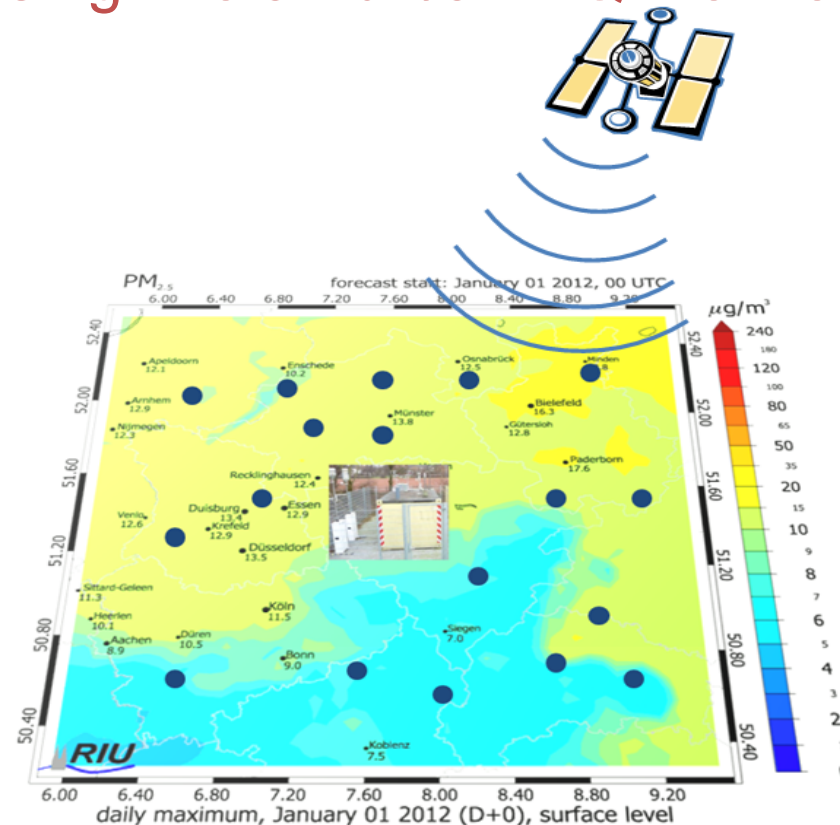


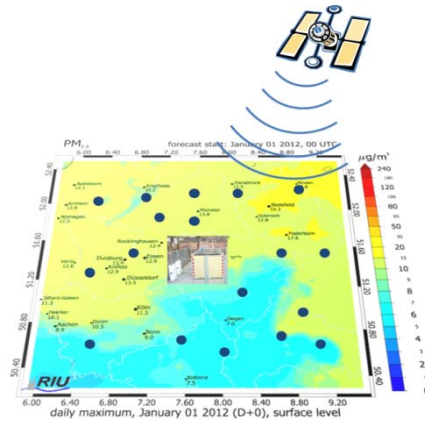
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# Monitoring

How does the future urban AQ monitoring network have to be designed?

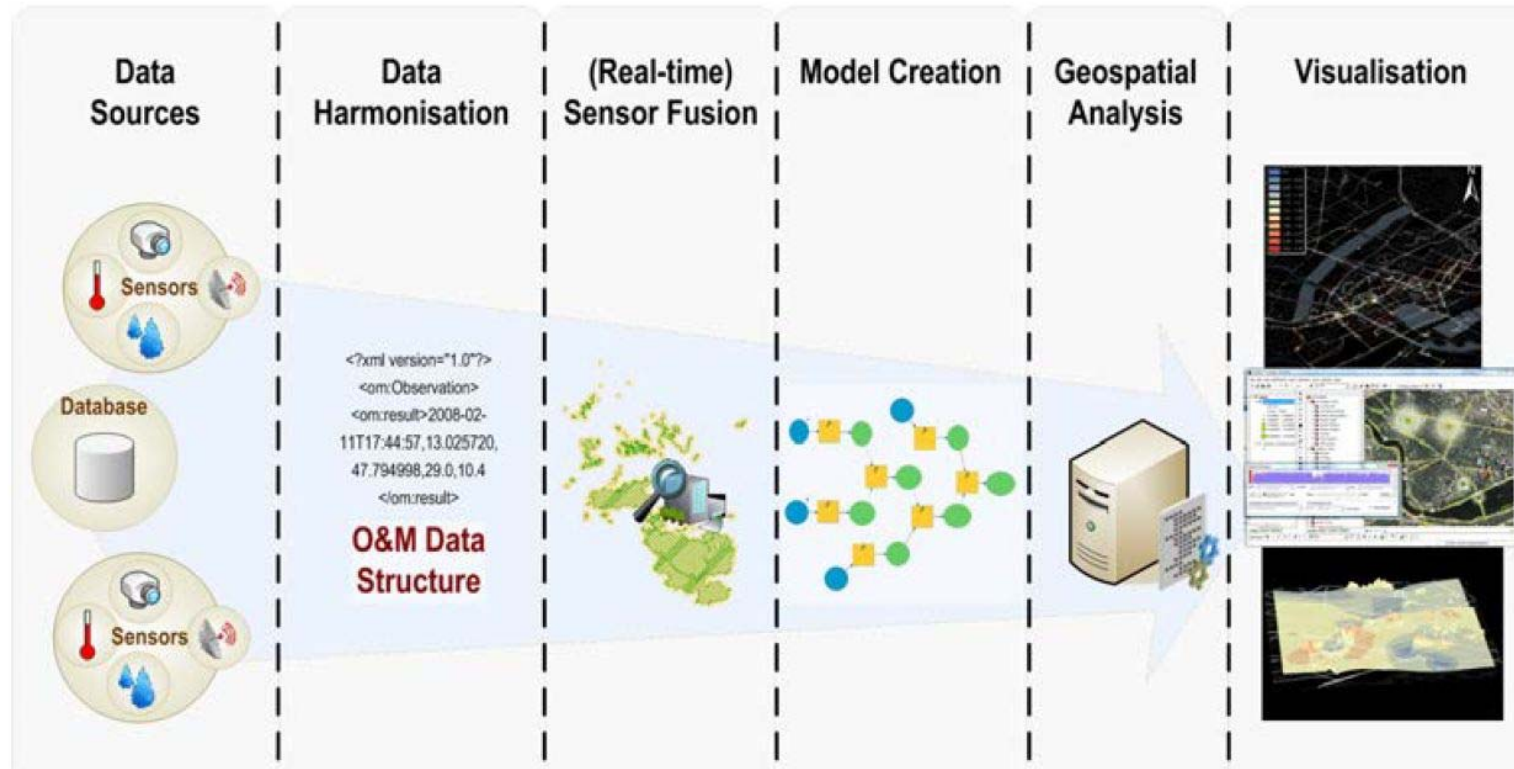
Combination of fixed, mobile monitors and sensors together with remote sensing into an urban AQ monitoring design?



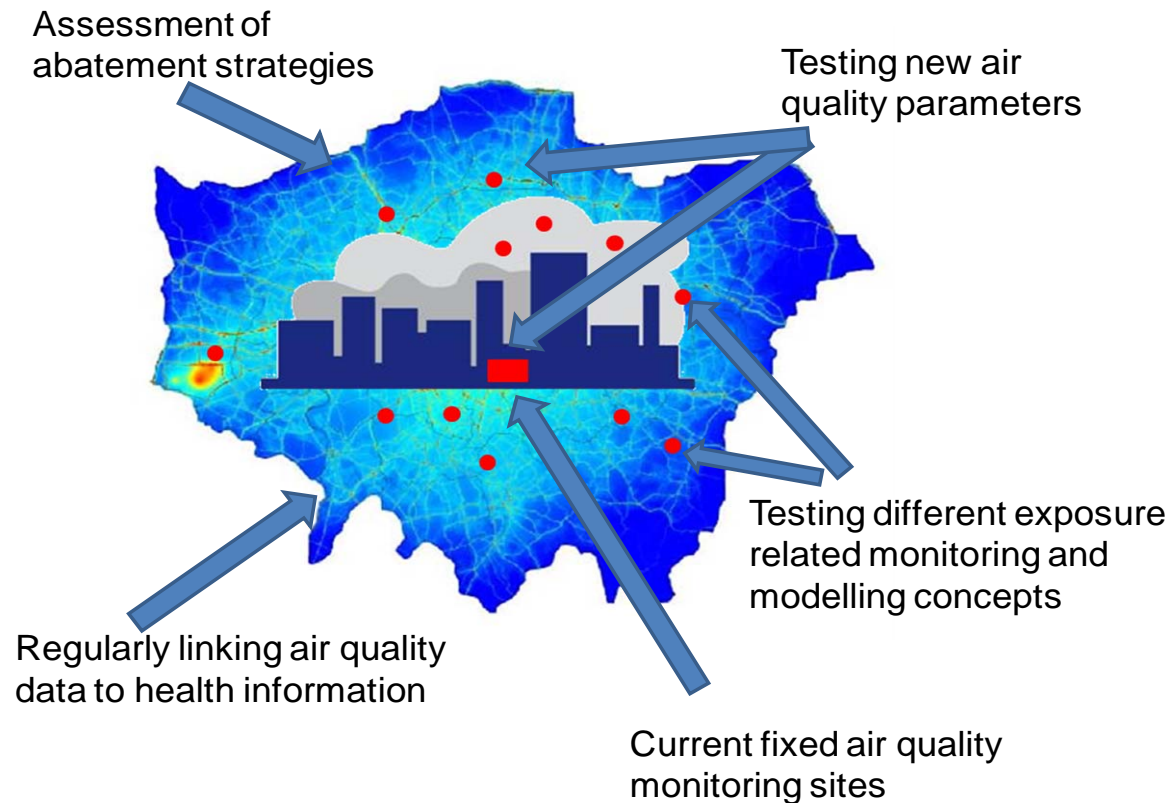


## Four basic possibilities for ambient air monitoring:

- high quality and high time resolution measurements of air pollutants at fixed locations,
- mobile and flexibly installable monitoring devices (low power consumption, protective container...), relatively high quality data, or low cost sensors used very flexibly e.g. at lampposts or on buses,
- satellite observations of air pollutants and meteorology to derive information on parameters influencing urban air quality,
- modelling of the spatial and temporal variation of air pollutants in urban areas, using improved emissions inventories.



Establish a routine health monitoring? Routine time series studies? Multiple stressor environmental research platform?



## Horizon 2020: What are the most important topics for urban air quality?

- Going beyond compliance monitoring?
- Development, quality needs and quality assessment of mobile multiparameter monitors and sensors for improved exposure and abatement strategy assessments?
- Urban AQ data integration tool for different types of monitoring approaches?
- Assessment of population exposure by dispersion and LUR modeling; linkage to routine health impact assessments?
- Set-up and development of Environment Research Platforms to investigate and develop....?
- Modeling and validation of spatial temporal variation of alternative metrics for urban areas?

These are some of the questions of today



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