


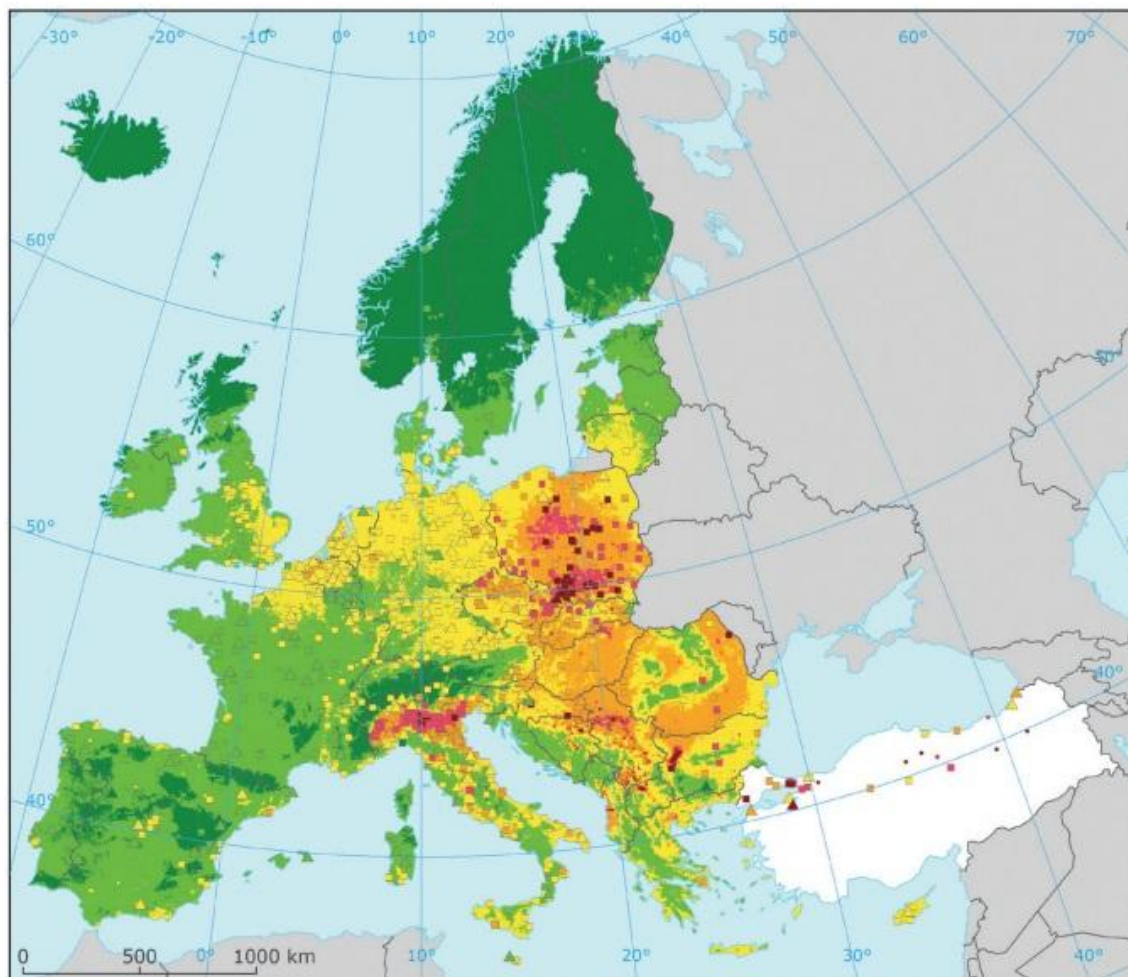
TAKING
COOPERATION
FORWARD

 Online | 24th of November 2020

 **AIR TRITIA - The Ideas Behind the Project**

 AIR TRITIA | VŠB - TECHNICAL UNIVERSITY OF OSTRAVA | Petr Jančík

BACKGROUND














Suspendované částice PM_{2,5} Roční průměr

Rok: 2018

Kombinovaná venkovská a městská mapa

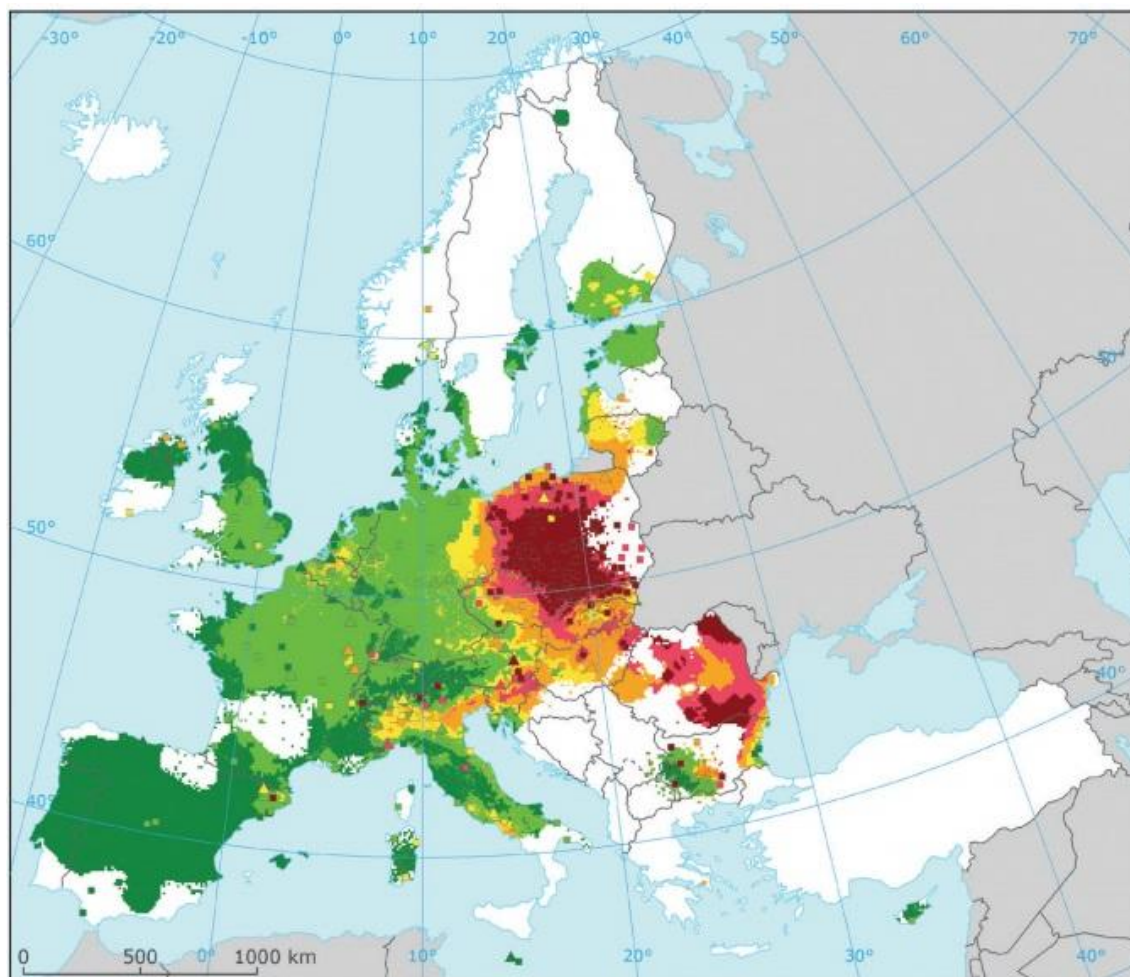
Rozlišení: 1x1 km

-  $\leq 5 \mu\text{g}\cdot\text{m}^{-3}$
-  $5\text{--}10 \mu\text{g}\cdot\text{m}^{-3}$
-  $10\text{--}15 \mu\text{g}\cdot\text{m}^{-3}$ (10 = směrná hodnota WHO)
-  $15\text{--}20 \mu\text{g}\cdot\text{m}^{-3}$
-  $20\text{--}25 \mu\text{g}\cdot\text{m}^{-3}$ (20 = orientační limit 2020)
-  $> 25 \mu\text{g}\cdot\text{m}^{-3}$ (25 = imisní limit)
-  nejde o členskou či spolupracující zemi EEA
-  nejsou dostupná data
-  venkovská požadová stanice
-  městská či předměstská požadová stanice
-  městská či předměstská dopravní stanice

Annual average PM_{2,5} concentration 2018



BACKGROUND













Benzo[a]pyren Roční průměr

Rok: 2013

Kombinovaná venkovská a městská mapa

Rozlišení: 1x1 km

-  $\leq 0,12 \text{ ng.m}^{-3}$
-  $0,12-0,4 \text{ ng.m}^{-3}$
-  $0,4-0,6 \text{ ng.m}^{-3}$
-  $0,6-1 \text{ ng.m}^{-3}$
-  $1-1,5 \text{ ng.m}^{-3}$ (1 = cílový limit)
-  $> 1,5 \text{ ng.m}^{-3}$
-  nejde o členskou či spolupracující zemi EEA
-  nejsou dostupná data
-  venkovská pozadřová stanice
-  městská či předměstská pozadřová stanice

Annual average benzo[a]pyrene concentration 2018



TAKING COOPERATION FORWARD

AIR TRITIA

2017-2020

- Uniform Approach to the Air Pollution Management System for Functional Urban Areas in TRITIA Region
- [airtritia](#)



15 PARTNERS

Czechia

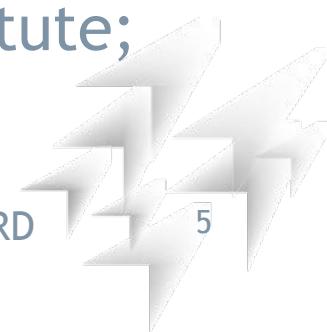
- VŠB - Technical University of Ostrava; ACCENDO - Centre for science and research institute; City of Ostrava, City of Opava, Moravian-Silesian Region

Slovakia

- University of Žilina; City of Žilina; Žilina Self-governing Region

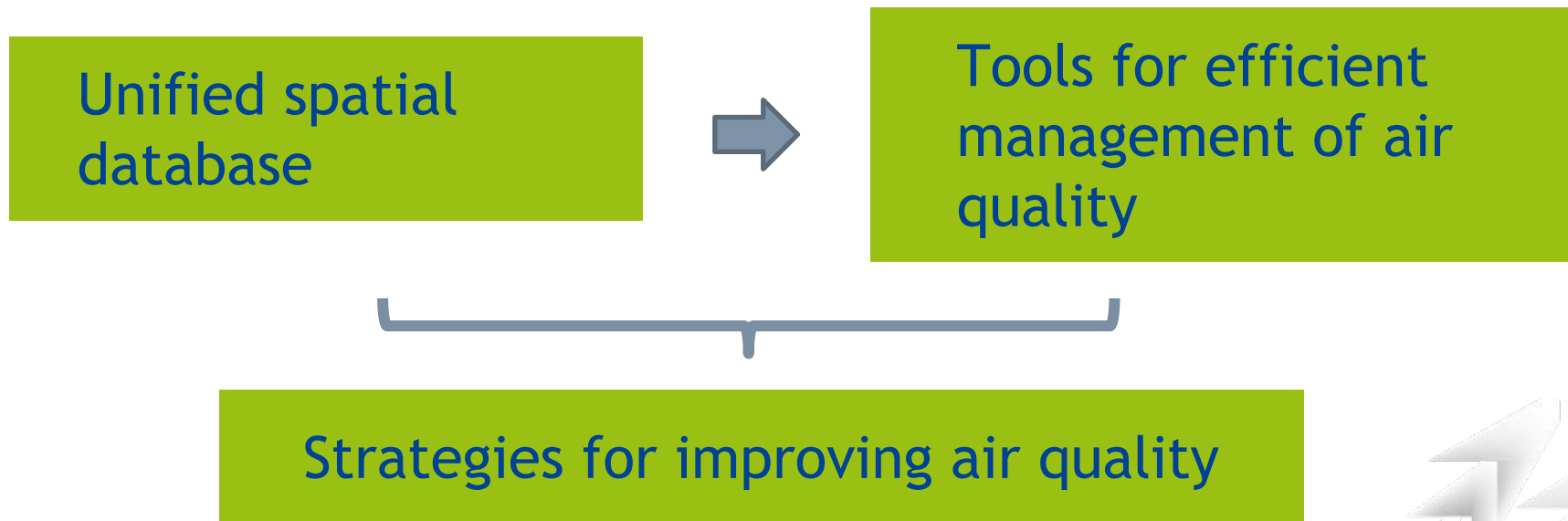
Poland

- European grouping of territorial cooperation TRITIA, Ltd.; Central mining institute; Institute of Meteorology and Water Management - National Research Institute; City of Rybnik; City of Opole; Opole Voivodeship; Silesian Voivodeship



PROJECT OBJECTIVE

- Create tools to improve local and regional air quality management, present more accurate information based on expert data and expertise, and suggest possible measures in form of strategies adapted to local conditions



UNIFIED SPATIAL DATABASE

- Socio-economic data
- Epidemiological data
- Meteorological data
- Sources of air pollution (transport, local heating, industry)
- Air pollution data:
 - Contribution of respective groups of sources on the PM_{10} and $PM_{2.5}$, NO_2 , benzo[a]pyrene pollution
 - Impact of pollution on the population;
 - Monitoring data (traffic pollution, isotopes and particle granulometry, analysis of moss samples)



AQMS - Air Quality Management System

- Results of air pollution modelling and effects of measures application on the air quality in 5 FUAs and the TRITIA region.
- The information available via an interactive map interface.
- <https://aqms.vsb.cz/>

PWS - Prediction and Warning System

- Short-time modeling of air pollution based on air monitoring and detailed meteorological data for 5 FUAs



Air quality management strategy for the TRITIA region

- Technical, legislative and other proposals focused on a common approach and international cooperation among respective parts of the TRITIA region
- Moravian-Silesian Region, Silesian Voivodeship, Opole Voivodeship, Žilina Region

Specific air quality management strategies for target functional urban areas

- 5 strategies for City of Ostrava (CZ), Opava (CZ), Rybnik (PL), Opole (PL) and Žilina (SK);
- Focusing on specific air quality problems
- Modeling the impact on air quality and social, economic and health risks.





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