

## BECAUSE AIR POLLUTION TRAVELS



### WHAT WE DO

Universities, research and self-government institutions from CZ, PL and SK establish international cooperation on the territory of the EGTC TRITIA and find solutions to air and noise pollution, thus improving the quality of life of the population and positively influencing their health status by the improving local and regional air quality management.



3  
NATIONS

15  
PROJECT PARTNERS

4  
REGIONS

2.6  
MILION EUR  
PROJECT BUDGET

2.2  
MILION EUR  
ERDF

## TAKING COOPERATION FORWARD

## WHO WE ARE

Partners from three central European countries join their forces to improve air environmental management in border area of TRITIA region.

### Czech Republic

- VSB - Technical University of Ostrava
- ACCENDO - Centre for Science and Research
- City of Ostrava
- City of Opava
- Moravian-Silesian Region

### Poland

- Central Mining Institute
- European grouping of territorial cooperation TRITIA
- Institute of Meteorology and Water Management
- City of Rybnik
- City of Opole
- Opole Voivodship
- Silesian Voivodship



### Slovakia

- University of Žilina
- City of Žilina
- Žilina self-governing region

VSB - Technical University of Ostrava is the project Lead partner. The whole project partnership has 15 partners which will contribute to outputs creation (universities and research institutions) and outputs implementation (cities, regions and EGTC TRITIA).

### Who funds us

Our project is funded by the Interreg CENTRAL EUROPE Programme that encourages cooperation shared challenges in central Europe.

With 246 million Euro of funding from the European Regional Development Fund, the programme supports institutions to work together beyond borders to improve cities and regions in Austria, Croatia, Czech Republic, Germany, Hungary, Italy, Poland, Slovakia and Slovenia.

## DISCOVER MORE ABOUT AIR TRITIA

<http://interreg-central.eu/air-tritia>

In case of interest you can sign up for a fresh project news in the Newsletter section on our project website.

### CONTACT US

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## AIR TRITIA

UNIFORM APPROACH TO THE AIR POLLUTION MANAGEMENT SYSTEM FOR FUNCTIONAL URBAN AREAS IN TRITIA REGION

<http://interreg-central.eu/air-tritia>

## FACTS AND FIGURES

15

Project partners

17

Outputs planned until June 2018

2.6 M

investment value for involved regions in Euro



### Outputs

The main outputs of the project are a unified spatial database of needed information on international level, tools for efficient management of air quality (Air Quality Management System and Prediction Warning System) and a suggestion of strategies for improving air quality and reduction of emissions from various sources on the level of FUAs and regions of the TRITIA region.

Five FUAs (Ostrava, Opava, Žilina, Opole, Rybnik), and regions of 3 countries (Czech Republic, Slovakia, Poland) are involved into the project partnership and they will take active part in creation of a local (FUAs) and regional strategies (TRITIA).

The main innovation of the project is the application of joint cooperation approach to air quality management on international level with detailed mathematical modelling by use of supercomputers, verification of results by various types of measurements, and a joint proposal of optimal mix of measures with impact on human health accompanied with cost evaluation. The proposed procedures and outputs will be applicable anywhere in Central Europe, in the areas with similar problems.



## TOOLS

### Unified Information Database

Database will be operated in GIS, including the comprehensive set of spatial data of the TRITIA region and FUAs in detail. Input will be use for Air Quality Management System. The database includes: Socio-economic data, Epidemiologic data, Meteorological data, Sources of air pollution (traffic, domestic boilers, industry).

Air pollution will include:

- impact of individual group of sources for Coarse dust and fine particles (PM10, PM2.5), Nitrogen dioxide (NO2) and highly carcinogenic benzo(a) pyrene
- impact of pollution on population
- data from measurements (traffic pollution, isotope measuring and particlegranulometry, moss analysis)



Unified Information Database  
November 2019



AQMS and PWS  
Listopad 2019



## STRATEGIES

### Common strategy of Air quality management for the TRITIA region

Common strategy, addressing identified air quality problems in TRITIA region and proposing concrete measures. The strategy will contain technical, legislative and other suggestions with a strong focus on common approach and international cooperation among individual parts of TRITIA region. Action plan and implementation documents will be part of the strategy. The common air quality strategy will be implemented by Moravian - Silesian Region (CZ), Opole Voivodship (PL), Silesian Voivodship (PL) and Žilina Self - governing Region (SK).



Common strategy  
May 2020



5 specific strategies  
May 2020

### 5 specific air quality strategies for target functional urban areas (FUAs)

Integrated strategic planning for air quality improvement will be incorporated in both joint regional strategy and respective strategies for FUAs. These strategies will take into account not only local influences but also regional and trans-boundary impacts. Individual strategies for 5 target FUAs in TRITIA region (Ostrava, Opava, Rybnik, Opole, Žilina). Each strategy addresses specific problems of Air Quality. Evaluations of suggested measures within the scenarios will include modelling of impact to the air quality and social, economic and health risks impacts. These strategies will be applicable at other regions with same type of air quality problems in whole Central Europe region.