

TEMPLATE

Output factsheet: Tools

Version 1

Project index number and acronym	CE 1101 AIR TRITIA
Lead partner	VSB - Technical University of Ostrava
Output number and title	T1.1 Unified Information Database
Responsible partner (PP name and number)	VSB - Technical University of Ostrava
Project website	https://www.interreg-central.eu/Content.Node/AIR-TRITIA.html
Delivery date	07/2018

Summary description of the key features of the tool (developed and/or implemented)

The purpose of the developed tool is to organize and store collected data, unified on the international level of three countries (CZ, PL, SK) in the TRITIA region and respective FUAs, in order to employ it for the evidence based air quality management. The created joint information database constitutes a core of the Air Quality Management System and foundation for the objectives of Effective air quality management and Integrated strategic planning which can't be done without a unified information base. The database is operated in GIS and includes comprehensive sets of spatial data. The database comprises: Geodata; Socio-economic data; Epidemiologic data; Meteorological data; Sources of air pollution (traffic, domestic boilers, industry); Air pollution including the impact of individual group of sources (for PM10, PM2.5, NO2, benzo(a)pyrene in time series of years 2006, 2010, 2015); Impact of pollution on population; Data from specialized measurements.

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The tool is developed for the EGTC TRITIA region. Following regions on the NUTS3 level are within the TRITIA territory: Moravian-Silesian region (CZ) and Žilina region (SK). Also, following NUTS2 regions are within in TRITIA territory in Poland: Silesian voivodship and Opole voivodship.

Expected impact and benefits of the tool for the concerned territories and target groups

The created database provides knowledge and data for the evidence based air quality management in each involved FUA. Unified Spatial Database, which covers the area of TRITIA region, with detailed information available in project partner cities: Ostrava, Opava (both CZ), Žilina (SK), Opole and Rybnik (both PL). The database contains data of air pollution and its sources, traffic, meteorology and epidemiology and it will be used as base for follow-up project activities, and for any interested stakeholders in programme area as well. The decision makers can use the results of analytical activities disseminated by the tool in the relevant decision making in the air pollution management. As these decision will affect the whole population in the TRITIA region, it can be said that tool will improve every part of general public life in connection to environment.

Sustainability of the tool and its transferability to other territories and stakeholders

The created database forms the core of designed Air Quality Management System (output of WP T2). It will be sustained using infrastructure of LP VŠB - TU Ostrava. The data will be employed by users within the AQMS for the decision making (client for FUAs) and for the public information (client for the public). To ensure the transferability of the tool, the structure of the database was designed generally regarding the needs of AQMS at any international territory. Once filled with local relevant data it can serve as a core of such a system anywhere in CE.

Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

For a common international decision making a unified database with relevant data is essential. As national databases are locally specific, it is necessary to design a unified structure and process data in a same way to a unified form. Thus filling up the database brought a lot of difficulties connected with the different quality of the data and the different level of its processing and therefore would be impossible without the close international cooperation.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

The unified database as the whole is not public as it is an inner part of AQMS. It is accessible for the administrators of AQMS and for PP via a share disk. The respective databases that form the unified database are the respective deliverables of WP T1 implemented subsequently in the project within other thematic WPs. The relevant data will be presented to user via AQMS interface.