

VIDIS PROJECT OVERVIEW

RI-URBANS 1st Science Meeting



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Norwegian Institute of Air Research - NILU ; PI and WP3 leader - Dr Alena Bartonova,

Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA ; PI and WP2 leader - Prof Dr Saverio De Vito

Queensland University of Technology – QUT; PI - Prof Dr Zoran Ristovski

OVERALL AIMS

Develop and implement VIDIS as an internationally recognized research and innovation centre that serves as a research hub and support to society on air quality monitoring, assessment and management, enabled by innovative observing technologies.

SPECIFIC OBJECTIVES

- ❖ Develop long-term strategy and recognition for the VIDIS centre
- ❖ Secure funding for the VIDIS centre, especially for activities in Serbia
- ❖ Enhance research and scientific skills of partners and in general, by training activities targeting scientific staff and early stage and young researchers
- ❖ Enhance skills in scientific and administrative management in Serbia
- ❖ Enhance the scientific visibility of partners through scientific publishing and dissemination
- ❖ Enhance societal uptake of the latest research and innovation outcomes by outreach activities targeting civil society and administrations on all levels.

TRAINING

Sharing data and practicing data science tools, in part through short courses:

- ❖ Training in research management skills and general skills
- ❖ Organization of summer schools
- ❖ Organization of webinars
- ❖ Producing of video materials.

WORKSHOPS

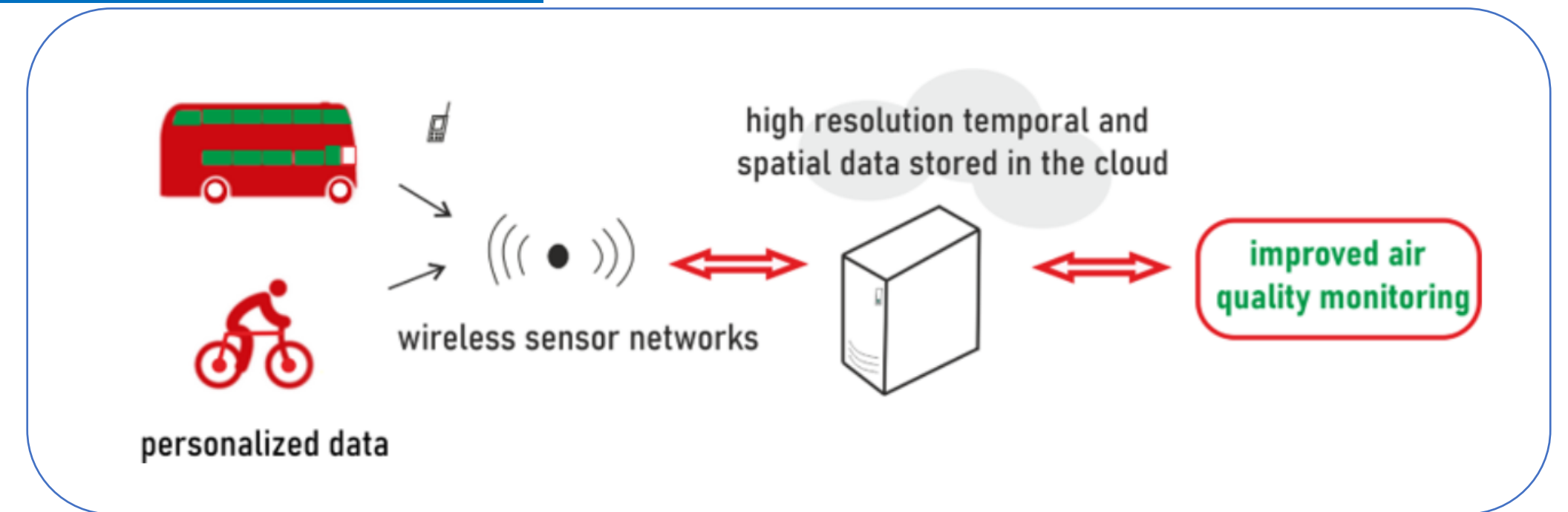
International conference organization, WeBIOPATR series, 8th and 9th conference, WeBIOPATR2021 and WeBIOPATR2023, „International Workshop and Conference, Particulate Matter: Research and Management“.

HIGHLIGHTS

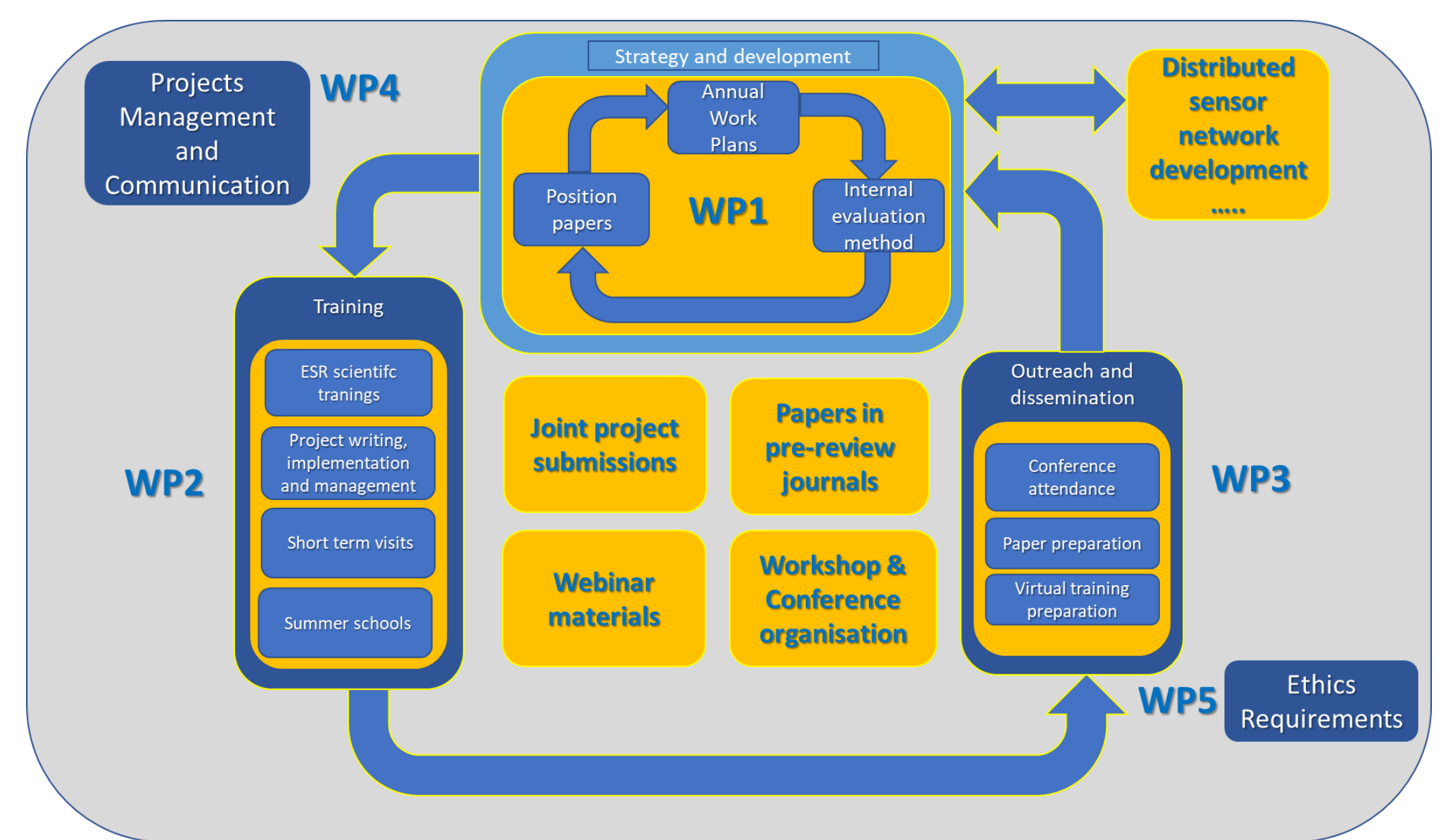
The project is working around providing actionable knowledge for development of health relevant ambient particulate matter monitoring. VIDIS is focused on assessment exposure to outdoor particulate matter on both the population and the individual levels, with special focus on urban areas. The aim is to reduce the following knowledge gaps:

- ❖ Composition of particulate matter in urban areas of Serbia and the Western Balkan countries
- ❖ Monitoring and measurement technologies for improved exposure assessment (using a wide variety of technologies)
- ❖ Health risks quantification from exposure to ambient particulate matter in Western Balkan
- ❖ Development of sensor networks as observing instruments for indoor and outdoor air monitoring, radon monitoring
- ❖ Development of communication infrastructure
- ❖ Development of scientifically based calibration and QA/QC methods
- ❖ Chamber for laboratory testing of PM
- ❖ Development of new public information products including spatial mapping using combined information from various sources
- ❖ Development of methods to support management of air quality and co-benefits between air pollution abatement and climate change mitigation on municipal level.

METHODOLOGY



STRUCTURE



VIDIS SYNERGISTIC PROJECTS

- ❖ “Spatial-temporal variations of the level of respirable particles in the urban area of Novi Sad - mobile monitoring, modeling and creation of high-resolution maps”. (September 2021-august 2022)
- ❖ UNICEF initiative “Schools for better air quality: citizens-based monitoring, stem education, and youth activism in Serbia. September 2021-July 2023)

CONFERENCE Webiopatr 2021

The 8th International WeBIOPATR WORKSHOP & CONFERENCE, PARTICULATE MATTER: RESEARCH AND MANAGEMENT, that took place in Belgrade November 29th - December 1st, 2021, <https://vidis-project.org/index.php/webiopatr2021-recordings/>

TRAINING

- ❖ VIDIS MOOC Lectures Year 1, <https://vidis-project.org/index.php/vidis-mooc-lectures/>

1st VIDIS SUMMER SCHOOL

“Innovative methods in air pollution and atmospheric aerosols monitoring and modelling” 5-8 July 2022 Borkovac Ruma, Serbia <https://vidis-project.org/index.php/summer-school-22-in-borkovac/>

