ECOIMPACT

Co-funded by the Erasmus+ Programme of the European Union

Adaptive learning environment for competence in economic and societal impacts of local weather, air quality and climate

IDEA

The ECOIMPACT project develops a personal learning environment (PLE) for competence in economic and societal impacts of local weather, air quality and climate.

This PLE features custom-tailored learning materials, "smart" weather observation instruments, and learning management software – all integrated into a single system. Such approach allows for learning in contact with a studied physical environment and develops competences required for today's modern life.

CUSTOMERS

At first hand, the PLE is for the consortium university students, hydrometeorology professionals, and managers at weather-sensitive firms and public bodies.

Prospectively, it might prove useful to a wide range of customers, including other universities, secondary schools, and private individuals.

Consortium

- University of Helsinki, FI
- Agricultural University – Plovdiv, BG
- University of Central Europe in Skalica, SK
- Kherson State Agricultural University, UA
- Odessa State Environmental University, UA
- Taras Shevchenko National University of Kyiv, UA
- Roshydromet Advanced Training Institute, RU
- N.I. Lobachevsky State University of Nizhni Novgorod, RU
- Russian State Hydrometeorological University, RU

Deliverables

- Educational content for the ECOIMPACT personal learning environment (PLE) adapted for customer groups
- PLE hardware and software components integrated with educational content
- Tested PLE in a university, professional update, and sectoral settings
- The PLE commercialisation strategy

Facts and figures

Erasmus+ Action: Capacity-Building in the Field of Higher Education

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Coordinator: University of Helsinki

Duration: 15.10.2015 - 14.10.2018

Project cost: 1 032 557 Euro

MOTIVATION

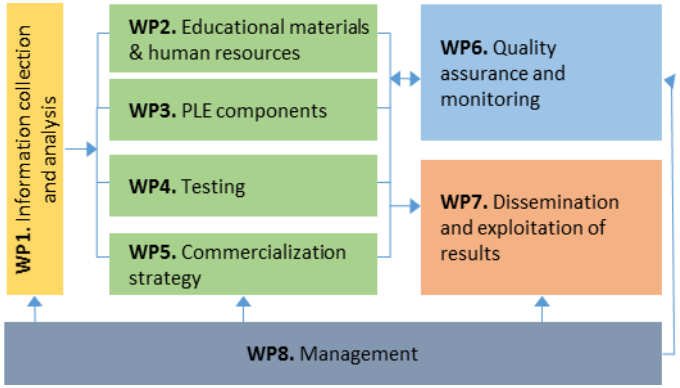
Rapidly growing urbanisation, deterioration of environment, and climate change make people and organisations ever more vulnerable to environmental factors. Since 2009, the world has become more urban than rural: the number of people living in urban areas had surpassed the number of rural dwellers. Urban agglomerations, rapidly growing in size and number, form artificial environments with nature and properties poorly comprehended by the society.

With increasing complexity and heterogeneity of urban infrastructure, the modern life and economy progressively depend on local weather, air/water/soil quality, and microclimate. These comprise "personal environments", controlled by physical and chemical processes in the lower atmospheric planetary boundary layer, directly interacting with the Earth's surface and affected by industrial emissions and anthropogenic warming.

However, managers in weather-sensitive economic sectors, not to mention wide public, often do not possess sufficient knowledge about local environment and its impacts on their activities. The consequent damage and lost profit due to a non-optimal management decisions are already large and, if ignored, will inevitably become systematic.

ECOIMPACT aims at contributing to modernisation of environmental education in order to change the situation.

ORGANISATION OF WORK



Associated partners

Technological Platform "Technologies for Sustainable Ecological Development", RU

Contacts

Sergej Zilitinkevich
Coordinator
sergej.zilitinkevich@fmi.fi
+358 50 5732203

Svyatoslav Tyuryakov
Project Manager
svyatoslav.tyuryakov@fmi.fi
+358 50 5924667