Institute for Ecology of Industrial Areas

is a place of cooperation for research teams representing various disciplines, including experts and practitioners who in their professional work often need support in the field of environmental protection and the use of natural resources.

IETU is open to cooperation with domestic and foreign research teams to solve problems of public administration and economy in the areas of environmental management tools, products, quality control and environmental protection.

IETU’s “know-how”, confirmed by numerous applications and scientific publications, is a guarantee of success in solving research, organisational and technical problems in the field of environmental protection.

Development of IT Infrastructure for Collection, Processing and Analyses of Environmental Data

Implementation of the project contributed to the implementation of an innovative ICT toolkit for generation of knowledge and development of tools for environmental resources management, communication and education in the field of sustainable development.

IETU has strengthened its infrastructural potential and competence of its employees in conducting scientific research and rendering specialised services for public administration and economic entities.

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Innovative solutions implemented at IETU allow employees as well as their scientific and business partners to develop better and more effective cooperation based on rapid access to information and efficient communication. The ICT toolkit includes:

- databases, including spatial information system and Geoportal,
- data security system protecting against data losses caused by hardware failure, cyber attacks or accidental deletion of data by the user,
- access to digitalised scientific publications and reports on the carried out research through a Digital Library,
- videoconferencing and e-learning systems applied for communication on the carried out national and international projects and dissemination of knowledge using video transmission, distance training courses and Internet applications.

**Geoportal**

In IETU’s scientific works and services, spatial data that are collected, processed, analysed and visualised by the Geographic Information System are used.

One of the main elements of the system supporting the work of research teams is Geoportal – a mapping application which enables visualisation and analyses of data stored in the database and visualisation of the developed information products.

**Digital Library**

The Digital Library offers IETU’s scientists an access to digitally processed publications and secures IETU’s current academic output. It contains digitised journals, scientific publications, research documentation and selected literature items connected mainly with ecology and environmental protection, as well as other related scientific disciplines such as biotechnology, ecotoxicology, agricultural engineering, management, regional policy, law or public health.

IETU’s Thematic Digital Library has been operated under the Digital Library Federation since 2015.

**Data Security**

Data security is a comprehensive technical and organisational solution to ensure appropriate confidentiality, high availability and integrity of the processed data. The system provides security of data stored on IETU’s workstations and servers, work safety in the Internet, as well as increases the reliability of the network. It enables elimination of threats and has a significant impact on the continuity of IETU’s operations.

**Videoconferencing system**

IETU videoconferencing system is one of the first implemented telepresence solutions in Poland, representing the highest standard among the current telecommunication and business tools. It provides remote connectivity, on-line transmission and enables recording of meetings, conferences, seminars and workshops. Video and sound transmission is available in a HD version, ensuring full security and confidentiality of the video transmitted content.

The combination of video, audio and data broadcast supports scientific remote cooperation between different research groups and allows for more efficient use of the specialists’ time capacity, reduction of travel expenses and pollutant emission.

IETU videoconferencing system provides an effective tool for dissemination of research results and conducting educational activity in the field of sustainable development, offering access to a wide group of people.

**E-learning platform**

It is a modern tool for dissemination of R&D results. IETU’s e-learning platform is available at: http://pe.ietu.katowice.pl

The first free e-learning courses developed at IETU are addressed to different audiences. These are:

- How to protect children from lead and cadmium (children and parents)
- The impact of air pollution on health (students, local government)
- HRA in health impact assessment (public administration)

Under the mutual cooperation IETU’s e-learning platform can be used by other institutions and organisations.

**Catalogue of the listed items and Public Collection**

Catalogue of the listed items and Public Collection can be browsed by any Internet user visiting the webpage: http://bc.ietu.katowice.pl

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