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Earth Observation Training in Science and Technology at the Space Research Centre of the Polish Academy of Sciences

Project flyer



CERTH
CENTRE FOR
RESEARCH & TECHNOLOGY
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<https://eotist.cbk.waw.pl>



Project Overview

The concept of ecosystem services is derived from economic sciences and is related to the concept of natural capital. **Ecosystem services (ES)** are understood as benefits obtained by humans from the environment, There are 3 main groups of **ES**: supply services (food, energy), regulatory services (CO2 sequestration, soil protection against erosion, soil purification) and cultural services (tourism and recreation, education, aesthetic impressions).

Monitoring of ecosystem services using terrestrial methods is very expensive or sometimes even impossible, especially if we want to cover entire regions or the world. Thanks to satellite data, we can provide new information about ecosystems in a continuous manner, both in space and time, determine the dynamics of changes taking place in **ES** delivery and create forecast models for the development of a given area. This is of particular importance in the sustainable management of resources.



Motivations

The consortium synthesized EOTiST to satisfy development needs of the EU research human resources to a higher global competitive level through:

- its contribution to the Polish Research & Development activity as a Member State – Country related Twinning motivation.
- the improvement of the scientific excellence and Science & Technology (S&T) capacity of the coordinating organization – Space Research Centre of the Polish Academy of Sciences motivation
- the promotion of a cost-effective alternative for ecosystem services assessment in large areas by exploiting the potential of freely available EO data and services (e.g. Copernicus) and advanced remote sensing and ICT technologies – Domain specific motivation.
- knowledge transfer, technology exchange, cooperation bonds' establishment, brainstorming about common contemporary scientific and societal challenges, and the development of new approaches – Partners' Twinning motivation.
- helping to achieve Sustainable Development Goals (SDG), tackling climate change, boosting the Union's competitiveness and growth – Society related Twinning motivation.



Objectives

SWOT analysis allowed defining specific objectives to be reached:

- 01.** Enhance S&T capacity of the coordinating institution;
- 02.** Upgrade research profile of the coordinating institution and the profile of its staff by training and mobilizing of personnel;
- 03.** Increase research excellence and stimulate innovation of the coordinating institution;
- 04.** Achieve sustainable progress and future development for the today's seed group in CBK PAN;
- 05.** Promote the involvement of early stage researchers in the CBK PAN;
- 06.** Develop joint research initiatives and projects;
- 07.** Improve proposal preparation and management/administration skills in the CBK PAN.



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