Building Excellence in Research of Human-Environmental Systems with Geospatial and Earth Observation Technologies

Research Teams

HES-GEO

Carbon Sequestration in Soils of Mountain Ecosystems

Our research interest is in the data and knowledge gaps related to the effects of land-use history on present soil organic carbon stock.

Soil Erosion

Soil erosion has been identified as the gravest threat among all soil degradation processes. This team studies soil piping as one of the most underestimated soil erosion processes.

Cultural Ecosystem Services

This research team plans to investigate the relationship between the landscape characteristics of green spaces and the CES they provide.

Land-Use and Biodiversity

The researchers in this team aim at mapping and analysing wildland-urban interface at different spatial scales in order to answer the question of how land-use changes affect habitats and animals dispersal.

Food Waste

The problems of resilience and sustainable food systems concern both global and regional scale. We are keen to develop a system model for the effective transfer of food from distribution sources to potential consumers.

Social Processes and Urban Resilience

In the 21st century many urban green and blue areas in postsocialist cities were lost due to aggressive build-up. We focus on different forms of civic engagement in projects related to sustainable development and environmental justice.

https://hes.geo.uj.edu.pl