

The GOFC-GOLD South Central and Eastern European Network (SCERIN)

Joined SCERIN & MedRIN Priorities and Potential Activities

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Common SCERIN & MedRIN Goals and Adjacent Geographic Domains

Goals:

- Provide a platform for **collaboration among remote** sensing experts *through collaborative activities*
- Facilitate progress and **consistent** implementation of remote sensing and LCLUC methodology
- Foster collaboration for **monitoring the dynamics, stability, and vulnerability of the major common ecosystems**

During CIVID SCERIN had 2 virtual events, opened to all GOFC-GOLD networks:

- 1. in 2020 - by request from SCEIN members, Topic: Optical Remote sensing from the ISS; and**
- 2. in 2021 - Focused on Beetle damage, which is a very 'hot topic' more recently in SCERIN but also in MedRIN and deserves attention.**

Partially In-common Regional Background

- Diversity of land forms and environmental conditions that are highly sensitive and vulnerable to climate change.
- Both RINs have undergone extensive land-use, which have rendered many of the natural processes of adaptation un-sustainable.
 - Diverse archive of long-term LULC data and Archive of methodology for field observations
 - Increasing availability of RS data – increasing number of constellations of mid and VHR satellites, and now **from the ISS there is available a stream of data ideal for environmental observations**
 - Availability of regional data
 - from individual institutions or projects
 - *Issue* - not uniformly organized and consistent

In-common Critical Regional Issues

- ✓ Changes in forest composition, age, structure and function
- ✓ Changes in ecosystem diversity
- ✓ Increasing urbanization
- ✓ Inbalanced water regime (floods/droughts)
- ✓ Extreme Events increase (floods, droughts and fires)

Plans to focus on the flowing (top 3) research topics

1. Changes in **vegetation cover**, function (yield/assimilation) and ecosystem diversity – due to climate change, migration, agricultural abandonment and urban expansion
2. Floods/droughts and fires - imbalance in the water regime, especially the Danube watershed
3. Regional LCLUC validation/verification activities of methods and products to ensure RS product quality

Long Term Vision

- Include and actively involve all countries in the region (e.g., if not in SCERIN than in MedRIN)
- Balanced participation from research and applications
- Collaboration with the other GOFC-GOLD RNs
- Transitioning from detection of LCC to monitoring and analysis of trends or LCD
 - collaborate with local, regional and global and EU research monitoring networks – long term data records across disciplines

Potential Joined SCERIN & MedRIN Activities

- joint projects and publications
- networking for knowledge and technology exchange (tools)
- capacity building through exchange of data and methods for satellite products evaluation
- facilitate teaching RS classes (tools and curriculum)
- student and faculty mobility – short and long term visits