

COUNTRY HOT TOPICS

GOFC-GOLD Network: SCERIN / MedRIN

Country: Slovakia

Team : Ivan Sačkov, National Forest Centre (NFC)

Joint Workshop of the GOFC-GOLD SCERIN and MedRIN Networks

CIHEAM conference center, Chania, Greece, July 16 – July 19, 2024

Land Cover Change (LCC) and Extreme Events in the Context of Climate Change

Mediterranean Agronomic Institute of Chania

Region of Crete

Eratosthenes Center of Excellence, Cyprus University of Technology

Aristotle University of Thessaloniki

NASA LCLUC Program

GOFC-GOLD and START, USA

GOFC-GOLD
Global Observations of Forest
Cover and Land Use Dynamics

ARISTOTLE
UNIVERSITY
OF THESSALONIKI

GEOGRAPHICAL
HELLENIC

CIHEAM
MAI CHANIA

NASA
LCLUC
LAND COVER AND LAND-USE CHANGE

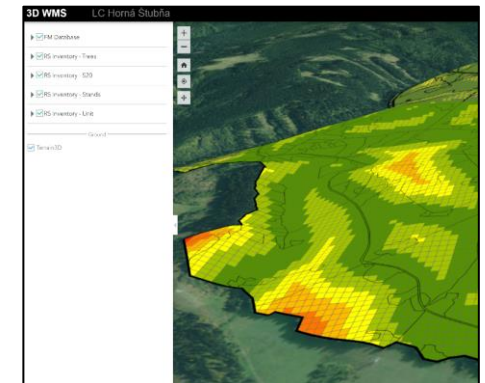
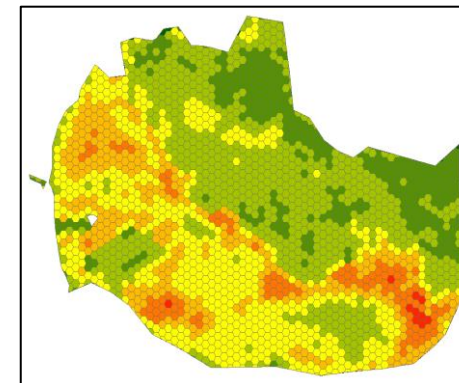
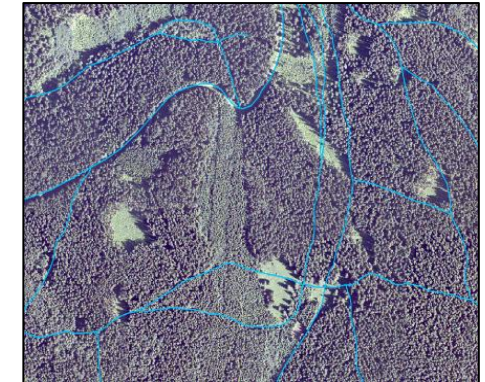
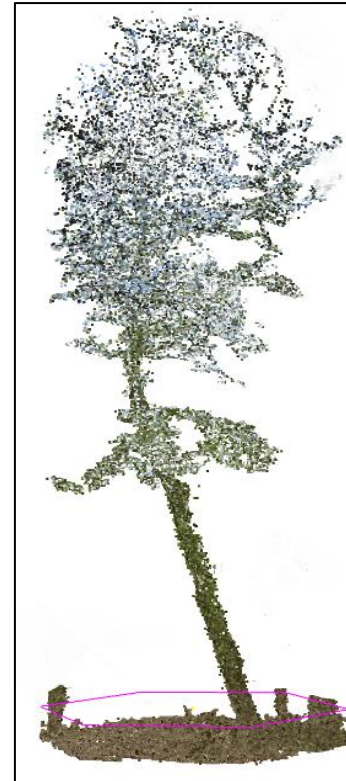
START
Περιφέρεια Κρήτης
Region of Crete

ERATOSTHENES
CENTRE OF EXCELLENCE
Cyprus University of Technology

CzechGlobe
FACULTY OF SCIENCE
Charles University

Remote Sensing priorities: NFC – Geospatial Forestry Laboratory

- **Aerial and Mobile Laser Scanning**
 - ALS and MLS point clouds
- **Relief Digitization**
 - DTM, DSM, nDSM
- **Forest Mapping**
 - Forest stands, roads and buildings
- **Forest Inventory**
 - Area/Tree-based approach
- **Results Application**
 - Web-map service



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Projects / Success stories / Good practices

Achieved

- **Projects**
 - *Upgrade of the Centre of Excellence LignoSilva*
(Number: 101059552; Call: Horizon-Widera-2022; Budget: 15 + 15 Mil. EUR)
- **Success Stories**
 - *Leica TerrainMapper-2: Hyperion2+ and MFC150*
(Airborne laser scanner)
 - *LiBackpack DGC50: VLP16 and Insta360*
(Mobile laser scanner - Backpack)
- **Good Practices**
 - *ALS-based forest inventory at forest management unit*
(Area: 7483 ha; Approach: ABA; Source: CHM; RMSE: Mean height $\pm 10,9\%$, Mean diameter $\pm 23,1\%$, and Total Volume $\pm 34,4\%$)

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Remote Sensing priorities: SAS – Institute of Landscape Ecology

• URANOS

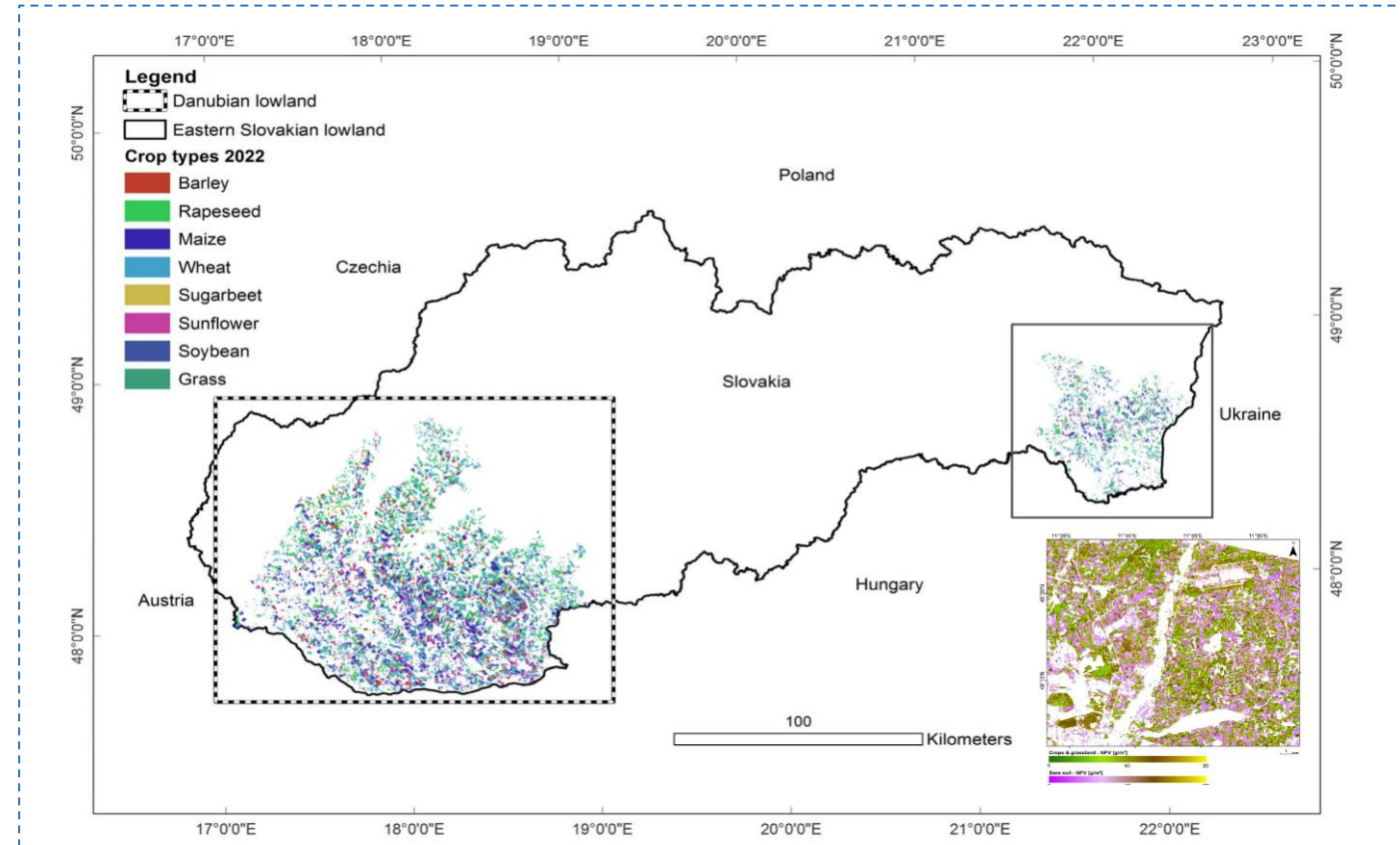
- Scientific support of climate change adaptation in agriculture and mitigation of soil degradation

• CHIME_NPV

- Towards quantification of non-photosynthetic vegetation from Copernicus Hyperspectral Imaging Mission for the Environment

• SatZones

- Satellite-based delineation of yield productivity zones for Slovak crop fields



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Projects / Success stories / Good practices

Achieved

- **Results**
 - Remote sensing methods to generate early information on agricultural landscapes and crops, including retrospective analysis and predictive modeling
 - Automated system for creating yield productivity zones in Slovak agriculture using satellite-based methods

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