Copernicus Land Monitoring Service

Product Portfolio and Data Access

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Overview of Submodule Contents

a) Information about Copernicus Land Monitoring Service (CLMS) products

- The three components: Global, Pan-European, Local
- Access to specific products
- Product specifications and characteristics
- Usage of the CLMS Web Map Service (WMS)
- Additional information (Publications, Technical Library, etc.)

b) Download Copernicus products, e.g. for further analysis

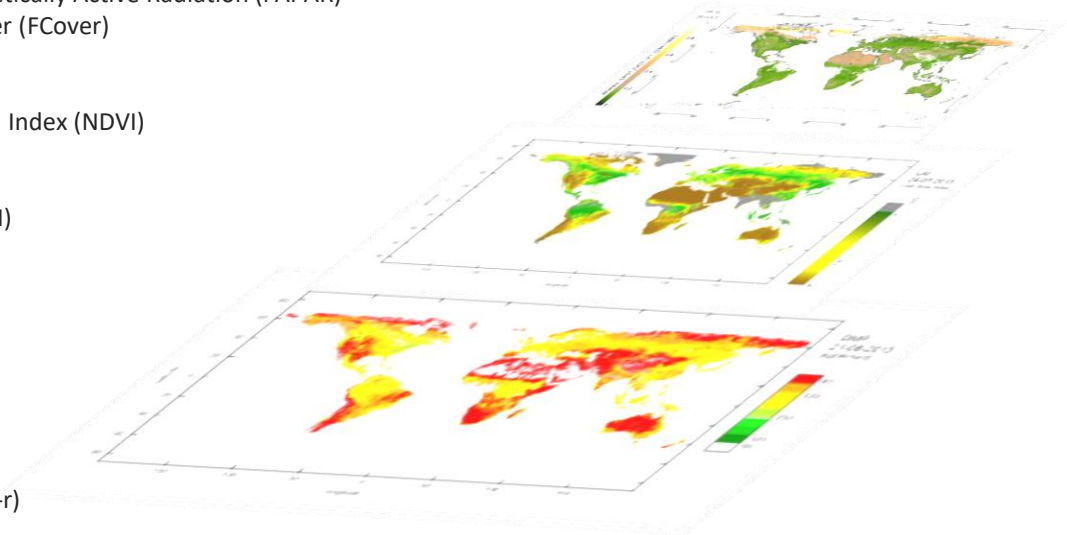
- User registration and product download
- Integration of the Web Map Service into a GIS environment

Global Component

- Series of bio-geophysical products
  - addressing status and evolution of land surface at global scale
  - with focus on monitoring Vegetation, Water and Energy & Cryosphere
- at medium/low spatial resolution (e.g. 300m-1 km)
- at high temporal frequency (every ten days)
- coordinated by Joint Research Centre (JRC)

Bio-geophysical Products of Global Land Surface

- Vegetation
  - Burnt Area (BA)
  - Dry Matter Productivity (DMP)
  - Fraction of Absorbed Photosynthetically Active Radiation (FAPAR)
  - Fraction of green Vegetation Cover (FCover)
  - Leaf Area Index (LAI)
  - Land Cover
  - Normalized Difference Vegetation Index (NDVI)
  - Soil Water Index
  - Vegetation Condition Index (VCI)
  - Vegetation Productivity Index (VPI)
- Cryosphere
  - Lake Ice Extent
  - Snow Cover Extent
  - Snow Water Equivalent
- Energy
  - Land Surface Temperature (LST)
  - Surface Albedo (SA)
  - Top Of Canopy Reflectances (TOC-r)
- Water
  - Water Bodies (WB)
  - Water Level
  - Lake Surface Water Temperature
  - Lake Water Quality



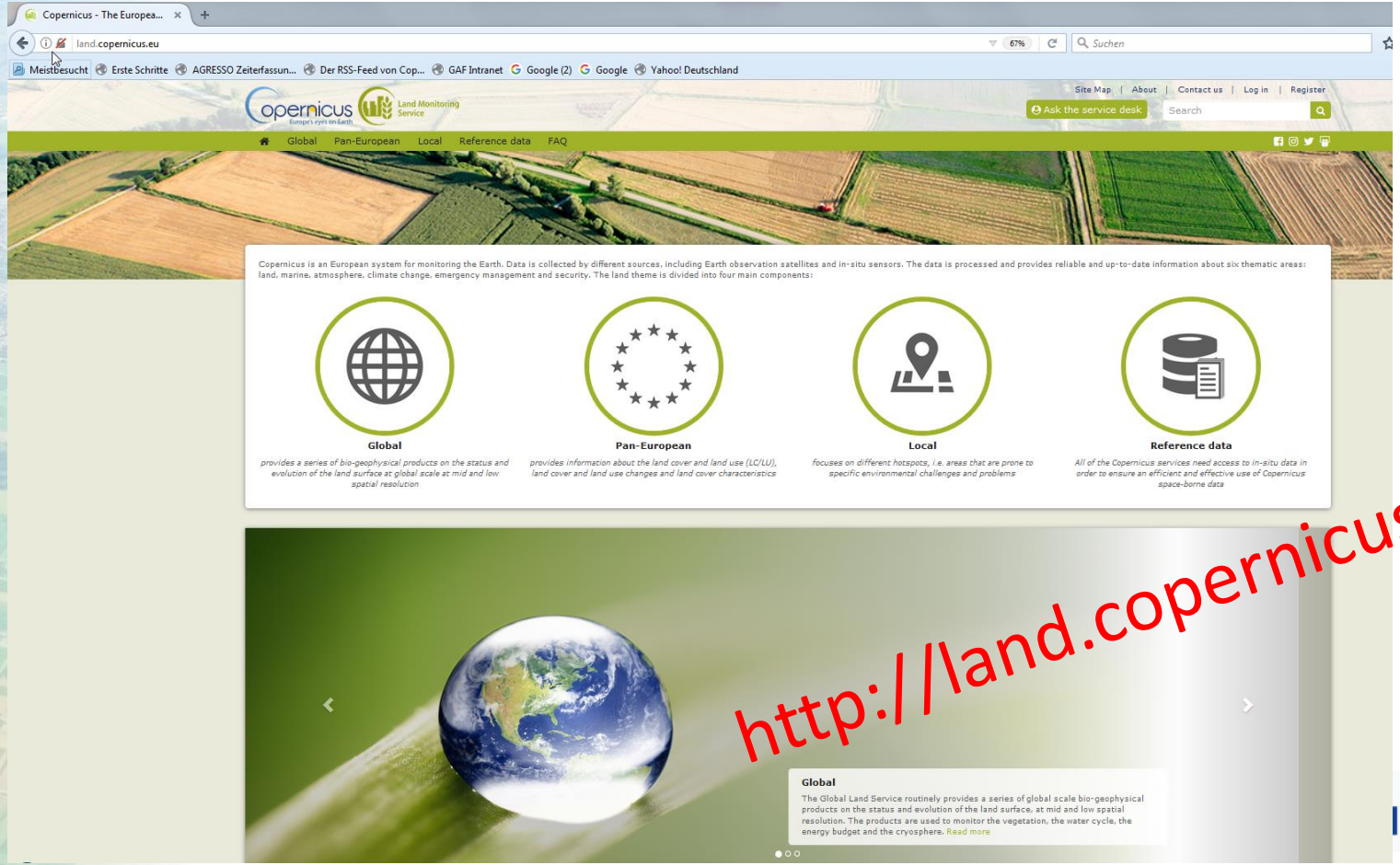
Pan-European (Continental) Component

- Land cover/land use products at European extent
  - CORINE Land Cover (1990, 2000, 2006, 2012, 2018 upcoming)
  - High Resolution Layers (2012; 2015; 2018 planned)
- Image mosaics and reference data at European scale
  - Image Mosaics (2000, 2006, 2009, 2012)
  - Reference Data: EU-DEM, EU-Hydro
- allowing to monitor status, changes, developments, trends
- high spatial resolution (e.g. 20 m, 2018: 10m)
- regular update cycle of three/six years
- coordinated by the European Environment Agency (EEA)

Local Component

- monitoring hot spots of human activity and biodiversity
  - Urban Atlas (2006, 2012)
  - Riparian Zones (2012, 2018 planned)
  - Natura2000 (2006, 2012)
- Land cover/land use information with very detailed class nomenclatures (up to 65 classes)
- Based on very high spatial resolution pan-European satellite coverages (2012: 1.5m - 2.5m; 2015: < 1m; 2018 planned: 2-4m)
- Regular product update cycle of six years
- Coordinated by the European Environment Agency (EEA)

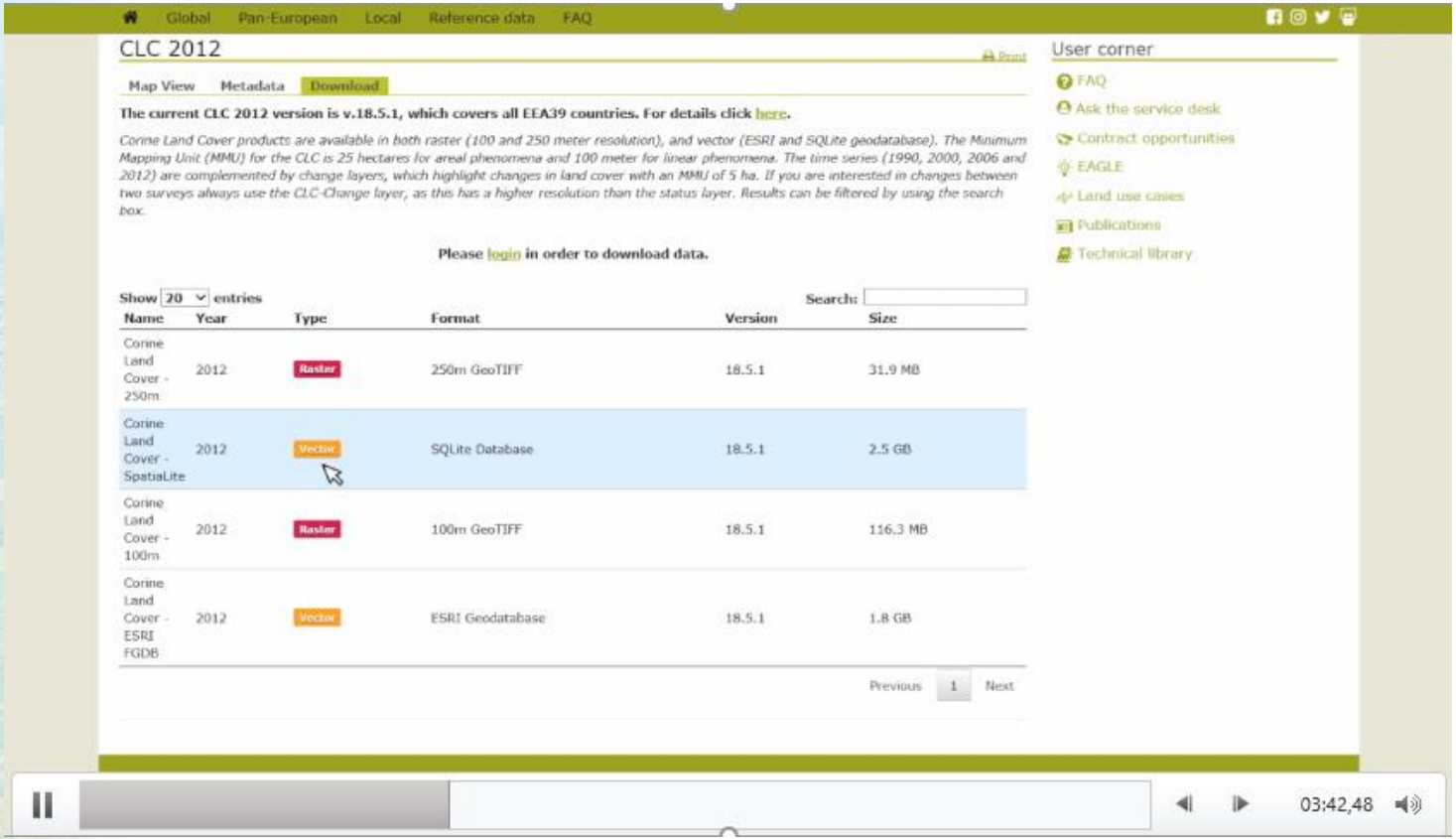
CLMS Portfolio and Data Access



http://land.copernicus.eu/

CLMS SUBMODULE

Land Monitoring



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Thanks for your Attention

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