

Land Monitoring

Global Land Component:

High Resolution Hotspot Monitoring





Hot Spot: Aim

- Monitoring
- ★ To produce land cover and land cover change maps and related indicators over specific Areas of Interest (AOI) using medium to high resolution satellite data (from 1 to 30m pixel size)
- ★ To provide detailed land information on specific areas of interest globally
- ★ To answer to ad-hoc requests within the domain of the sustainable management of natural resources
- ★ To complement the near real time global monitoring service at low resolution
- ★ To support EU funded projects or related policies with priority in biodiversity conservation and rural / social development sectors (B4Life)
- ★ 19 AOI under mapping
- ★ About 1.3Mio km2 (about twice the size of France)





Land Monitoring











































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Statistics and Indicators

Monitoring

Loss / gain of natural vegetation

% and ha LC per class cropland expansion and change

Artificial and build up surfaces

Pressure Index – change in the Natural Vegetation Intactness Index over time Natural Vegetation Intactness Intactness Index – Ievel of disturbance given by absence / presence of human activities



-HSM Web Data Explorer-LC





<u>The Future – Requirements and Needs</u>

- ★ Further and continuous land cover change monitoring
- ★ Yearly synthesis high resolution land cover / land cover change products
- ★ Easy access to "application ready" Sentinel 2 images (S2GM)
- ★ LCC alert system



Thank you

Copernicus Global Land Service

andreas.brink@ec.europa.eu

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