

Context:

Copernicus is the European system for monitoring the Earth. The global component of the Copernicus Land Service continuously monitors the state and evolution of land territories to address a variety of applications such as forest and water management, agriculture and food security, etc...

ImagineS contributes to the evolution of the Copernicus Global Land service by preparing, with R&D activities, the exploitation of PROBA-V and Sentinel sensors in an operational context.



Objectives:

1. Supply the Copernicus Global Land service with qualified software able to process multi-sensor data over the globe to generate biophysical variables on a fully automatic basis.
2. Demonstrate the added value of an innovative agriculture service able to assess the vegetation above-ground biomass and to monitor the crop/fodder production together with the carbon and water fluxes, for a community of users acting at global, European, national and regional scales.



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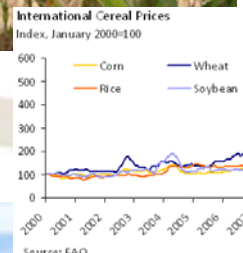
Products:

| Name | EO sensor | Temporal resolution | Spatial resolution | Spatial coverage |
|----------------------------|--------------------------------|---------------------|--------------------|------------------------------------|
| LAI, FAPAR, FCover, Albedo | PROBA-V | 10 days | 333 m | Global |
| Above-ground biomass | N/A | 10 days | 16 km (8 km) | Global (Fr, Hu) |
| Drought indicators | N/A | 10 days | 16 km (8 km) | Global (Fr, Hu) |
| Carbon and water fluxes | N/A | 10 days | 16 km (8 km) | Global (Fr, Hu) |
| FAPAR per class | PROBA-V | 10 days | 333 m | Demonstration sites |
| FAPAR | PROBA-V, Landsat-8 | 10 days | 30 m | Demonstration sites |
| Above-ground biomass | N/A | 10 days | Local simulations | Demonstration sites |
| Crop map | Sentinel-1, Landsat-8, PROBA-V | Continuous update | 30 m | South Africa, Russia (JECAM sites) |

LAI, FAPAR, FCover from PROBA-V will be available early 2015 over Europe. The coverage will be extended step by step to the globe. Other products will be available from mid-2015.

Impact:

By addressing the production issue, ImagineS contributes to improve the quality, reliability, accuracy, timeliness and comparability of information on agricultural market to deal with food price volatility.



Partnership:



To know more?

Visit: <http://fp7-imagines.eu>

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