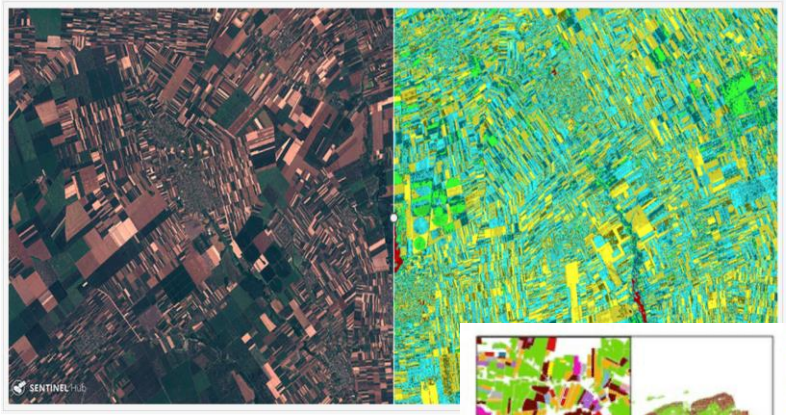
EO services contributing to SDGs
Sen4CAP

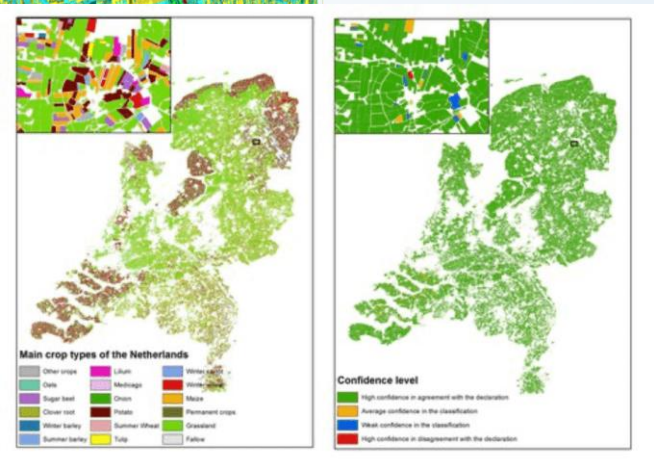
- User: EO data user, Farmer, Paying/Food Agency
- Challenge/Needs: The Sentinels for Common Agricultural Policy - Sen4CAP project aims at providing to the European and national stakeholders of the CAP validated algorithms, products, workflows and best practices for agriculture monitoring relevant for the management of the CAP. The aim of Sen4CAP is to ensure sustainable agriculture productivity.
- Initiative: Sen4CAP system has been set up by ESA to develop an end-to-end processing and analysis pipeline aimed at the European and national stakeholders of the CAP, providing them with validated algorithms, products, workflows, and best practices for agriculture monitoring relevant for the management of the CAP. The Sen4CAP software is available as open-source freeware and is very well suited to be run in a cloud-computing environment. It's available as an ready to use image on CREODIAS platform. The solution pays particular attention to provide evidence how Sentinel derived information can support the modernization and simplification of the CAP in the post 2020 timeframe.
- Results: Sen4CAP is used for crops health status monitoring and harvest prediction. The agriculture monitoring products consist of: cultivated crops type map, biophysical status indicator (NDVI, LAI, fAPAR, Fcover), grassland mowing.

- Service Provider: CloudFerro

Target 2.4: By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.



Sen4CAP – crops classification



Sen4CAP – crops type maps

https://creodias.eu/eo-data-software-based-services