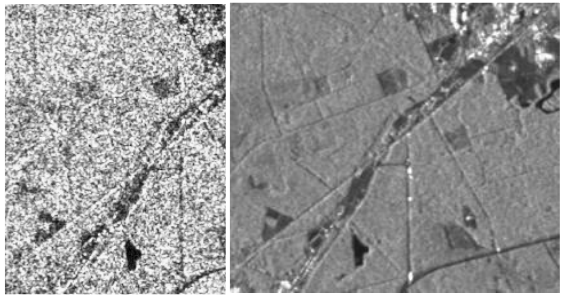
ECoLaSS: "Evolution of Copernicus Land Services based on Sentinel data"

Key Objective = improve existing & develop novel products/services for future operational pan-European & Global Components of the CLMS for 2020+



High volume data processing chains

Impervious-ness

Agriculture

Forest

Grassland

New Products

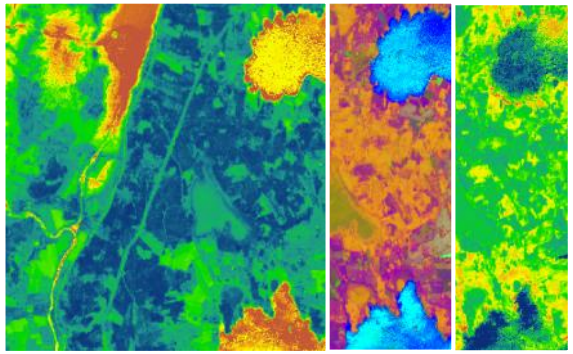
Service Requirements

Methods

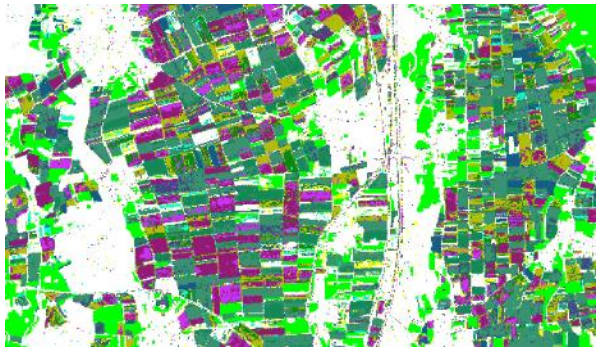
Prototypes

Operationalization

Dense optical+SAR time series classification



Agriculture: Crop Types



ECoLaSS

(H2020 Grant Agreement no. 730008)

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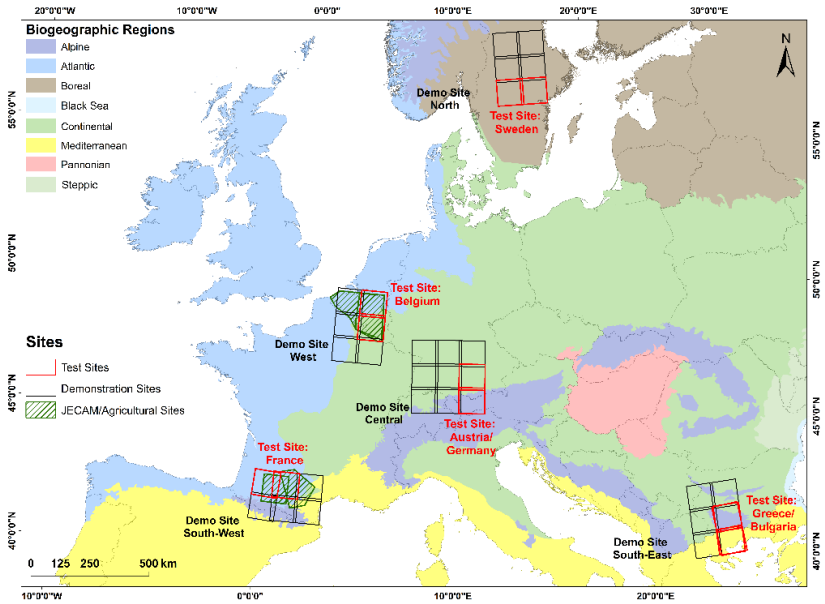
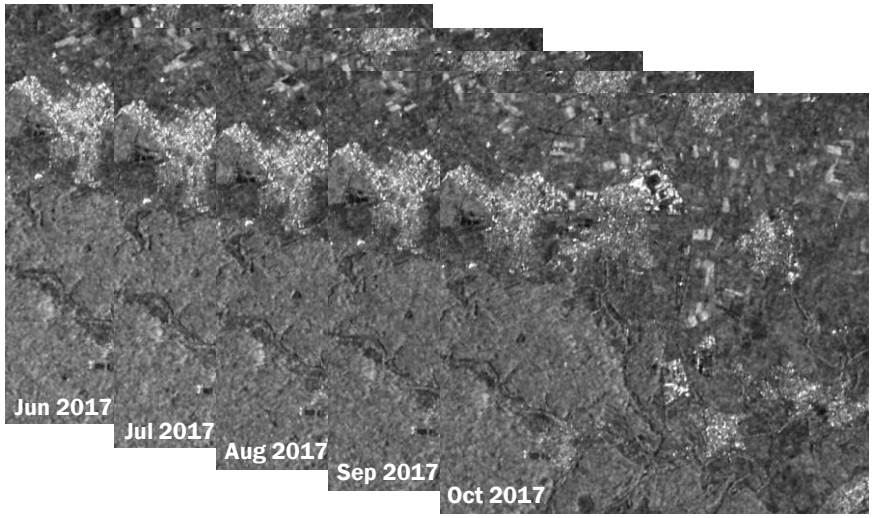


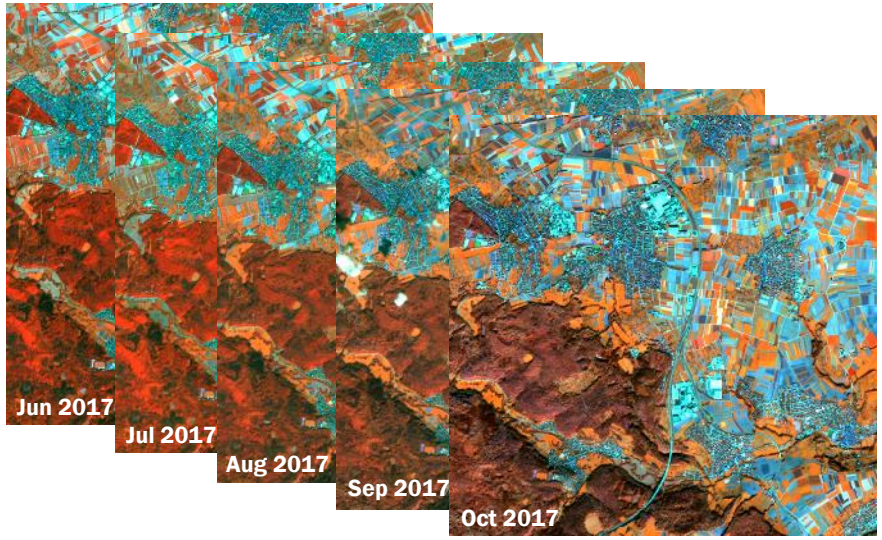
Test- and Demonstration sites in various biogeographic regions.

ECoLaSS is demonstrating an agriculture prototype …

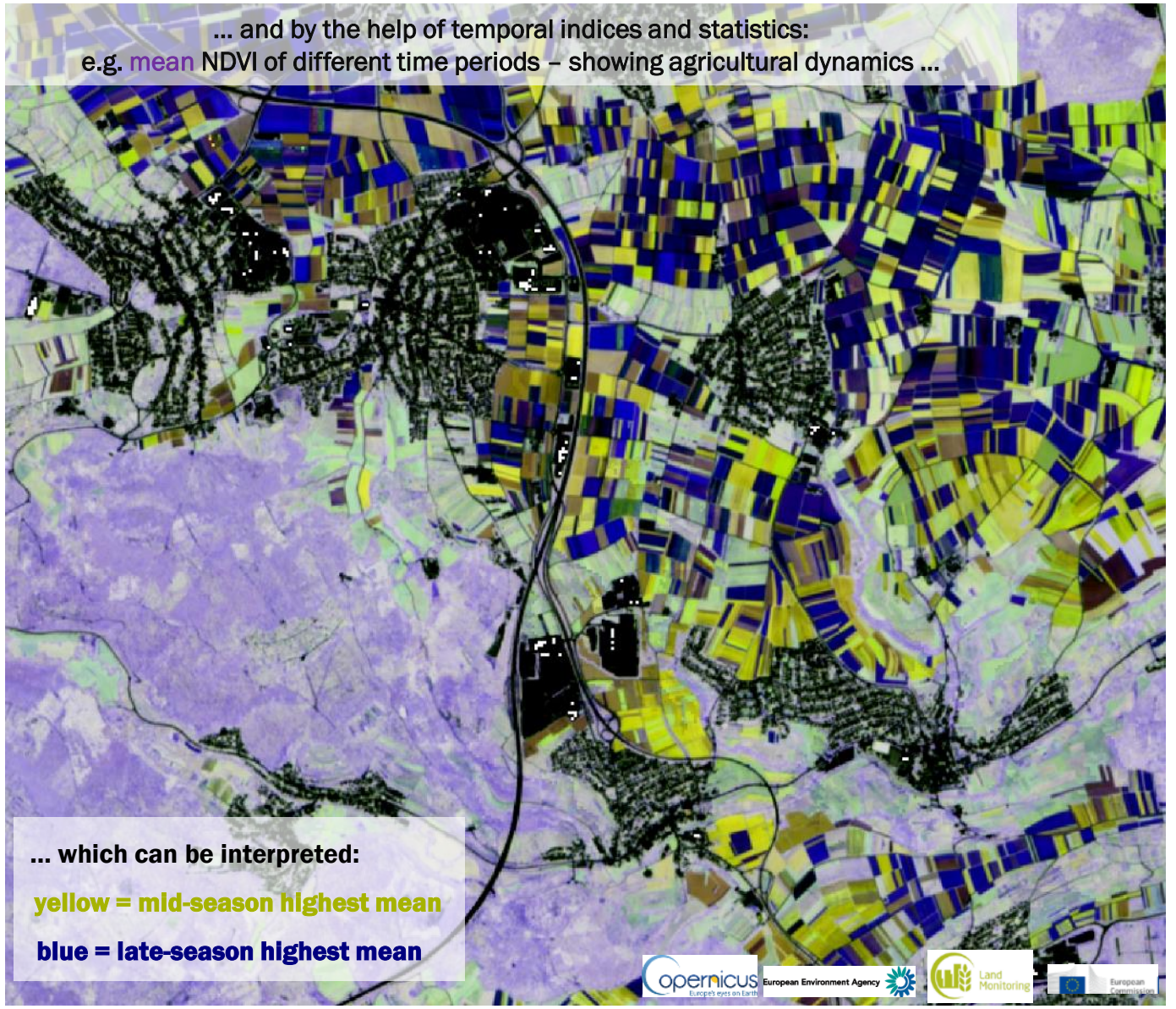
… with dense Sentinel-1 time series …



… and dense Sentinel-2 time series



… and by the help of temporal indices and statistics:
e.g. mean NDVI of different time periods – showing agricultural dynamics …



… which can be interpreted:

yellow = mid-season highest mean

blue = late-season highest mean

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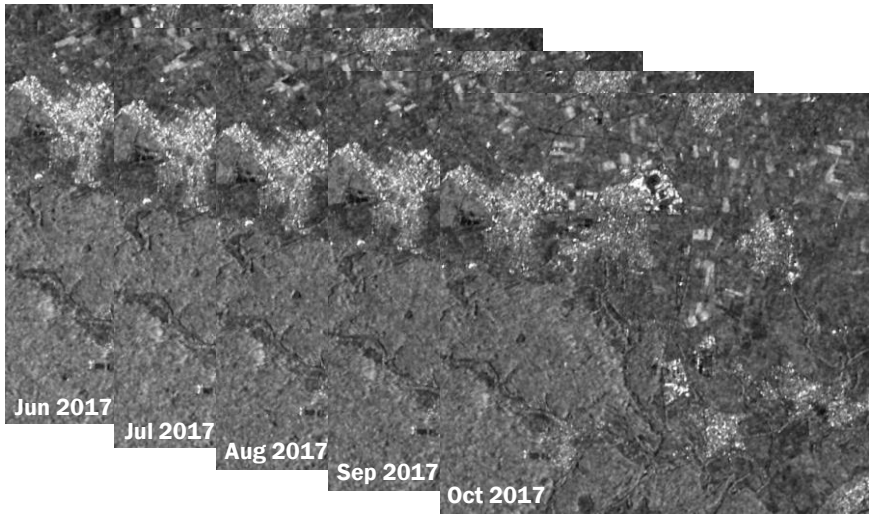
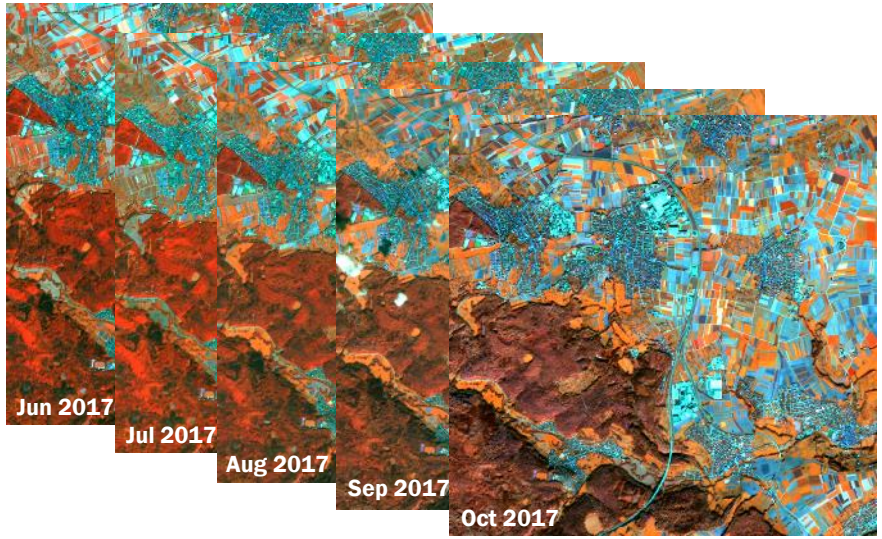
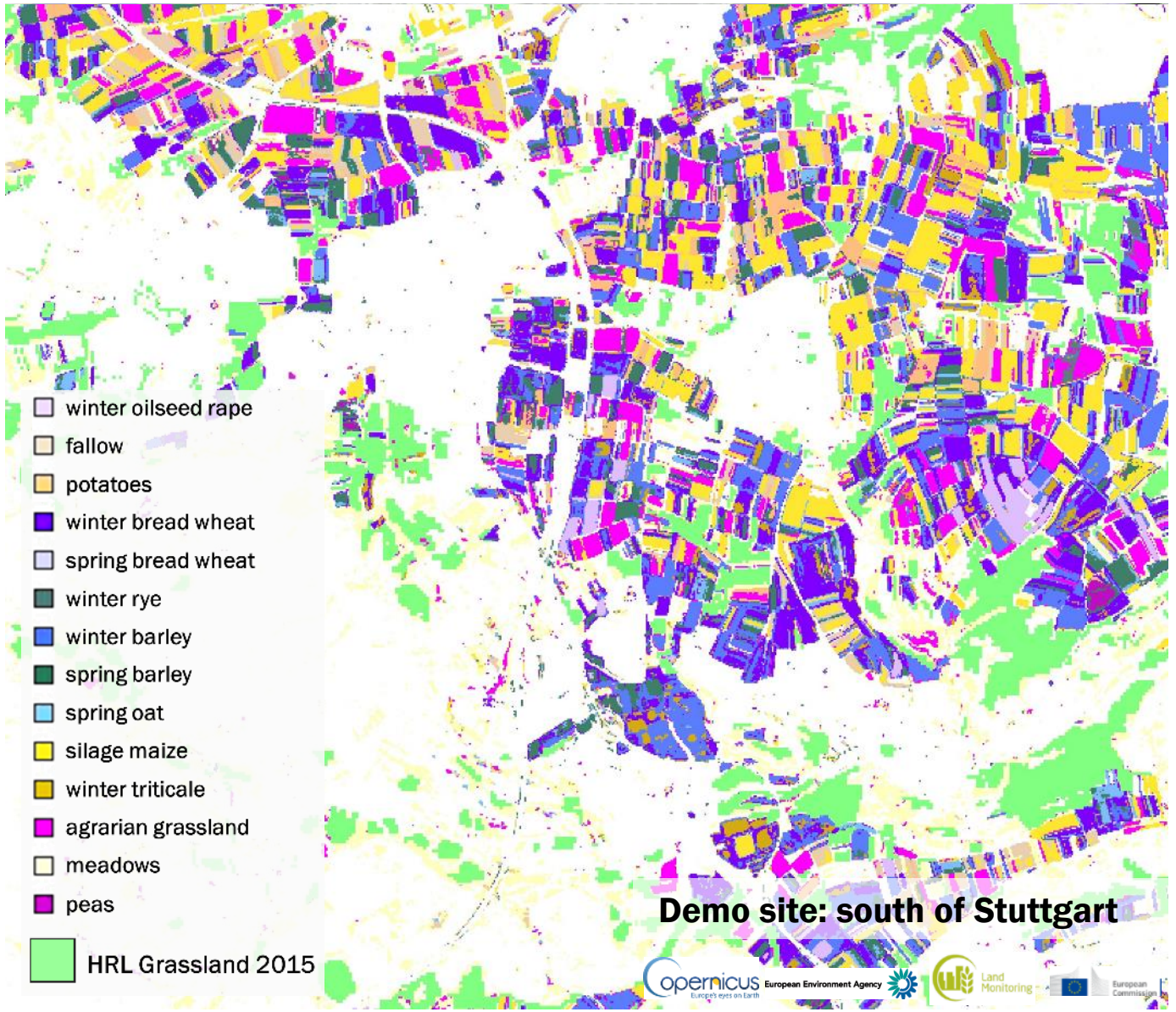


… and dense Sentinel-2 time series





Credits: Copernicus Land Monitoring Service, courtesy of the European Environment Agency. *Yet unpublished product