

EOcafe



OCRE | Open Clouds  
for Research  
Environments

# EO outreach & requirements

José Manuel Delgado Blasco

EO Outreach activities

EOcafe

10<sup>th</sup> September 2020

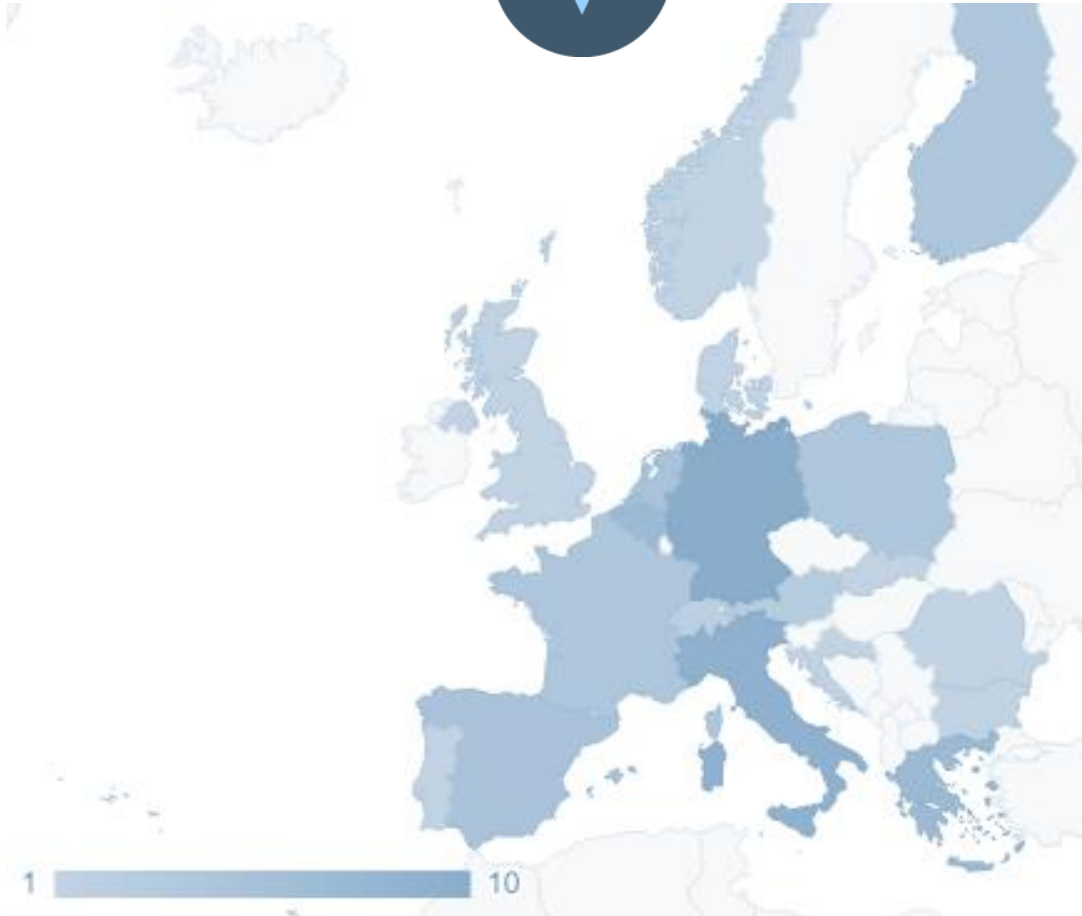


# EO Requirements Gathering - summary

# EO Outreach & requirements

## Participation

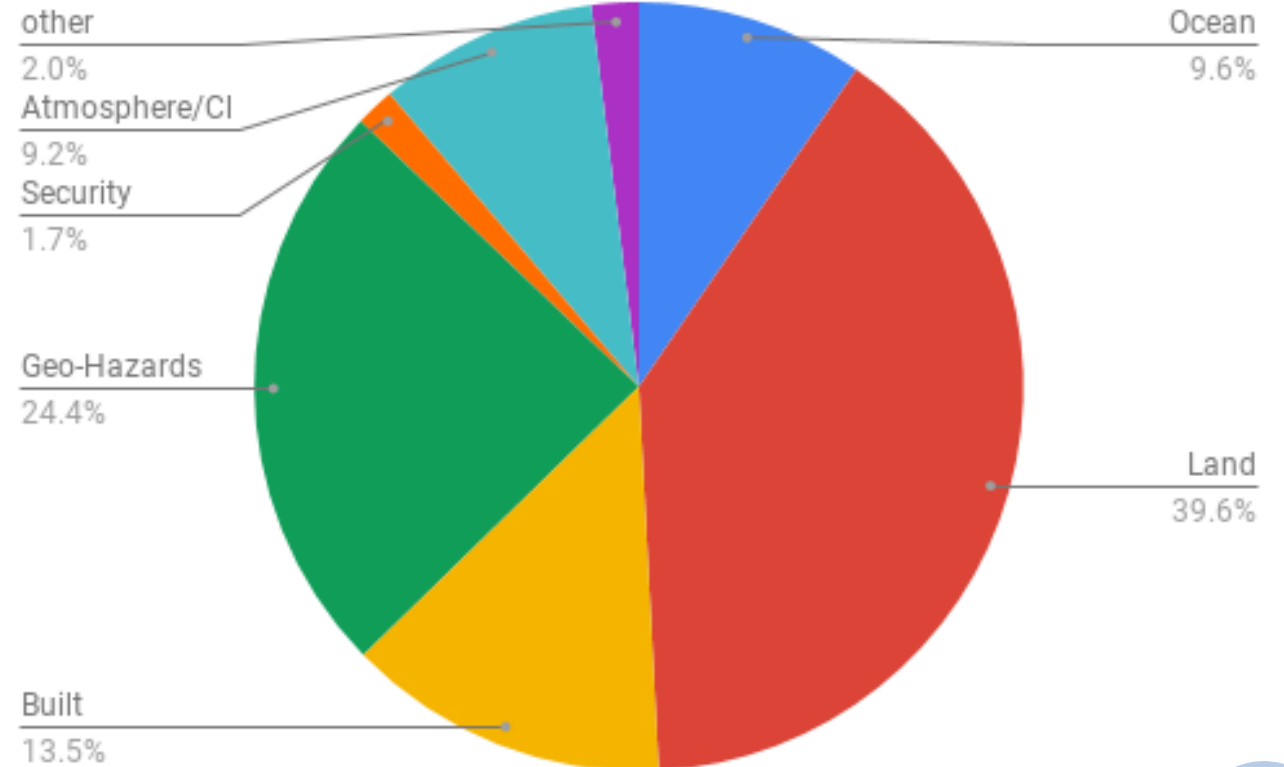
19 EU countries involved



Covering all 6 main domains with  
25 Research subdomains

70+ Participants

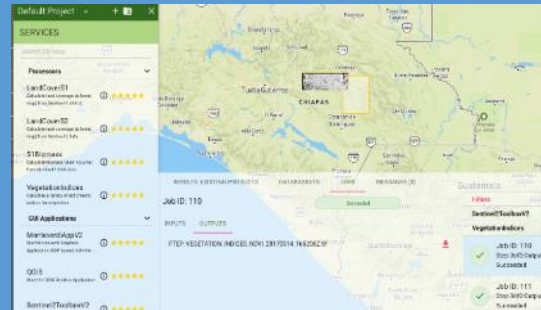
### EO domains



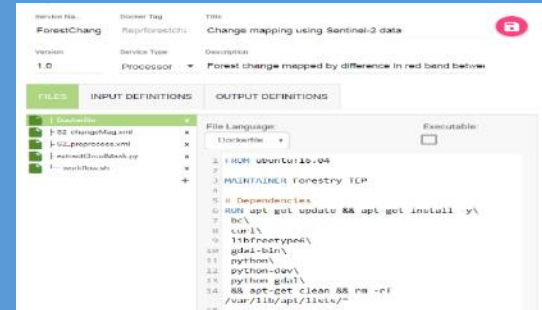
# EO Outreach & requirements

## Identified technical capabilities

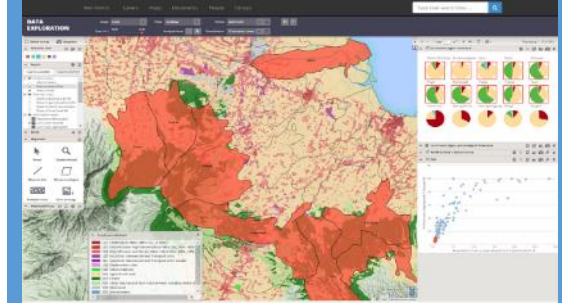
### Data Processing Services



### User Algorithms Hosting



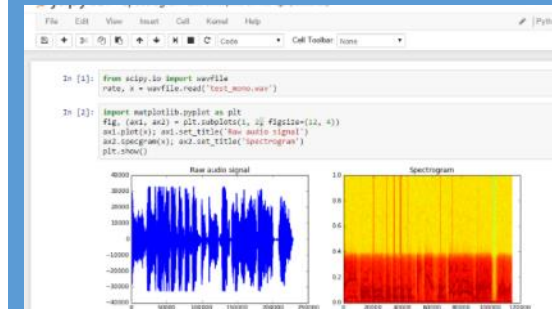
### Data Analytics



### Value-added products



### Interactive development



Powered by a scalable data collocated processing environment - DIAS

# Examples of potential applications:

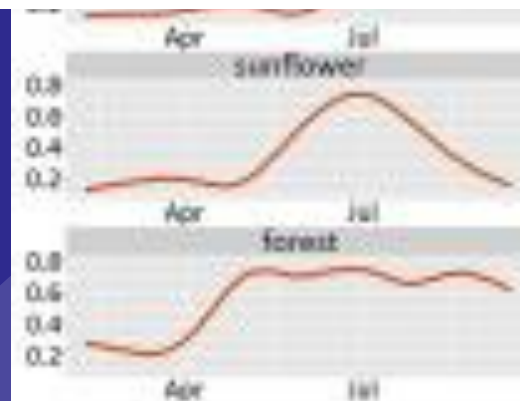


# Examples

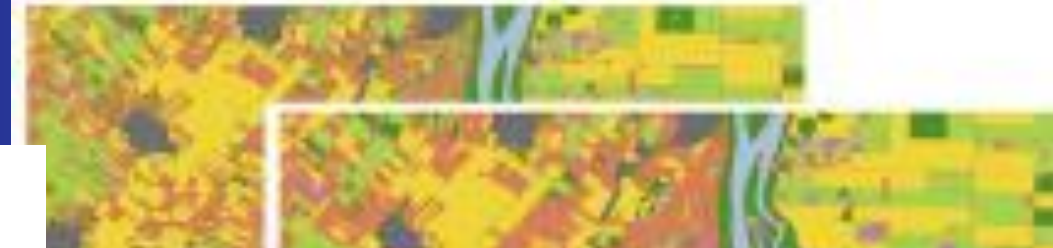
Value-added products



Time series analysis  
Statistics  
Change detection



CROPS CLASSIFICATION USING  
TIME-WEIGHTED DYNAMIC TIME-WARPING



Land use / land cover maps  
Multi-temporal land cover maps  
LULC change



#### NDVI time series



- Healthy vegetation identification
- Time series analysis
- Crop season analysis
- Crop identification
- Land cover mapping
- Food production
- Crop yield
- Soil erosion
- Physical parameter retrieval/model : NDVI vs evapotranspiration
- Climate change

**Examples of potential customer scenario:**



# Scenario 1: Non-EO / traditional EO customer



Customer



## In-house services

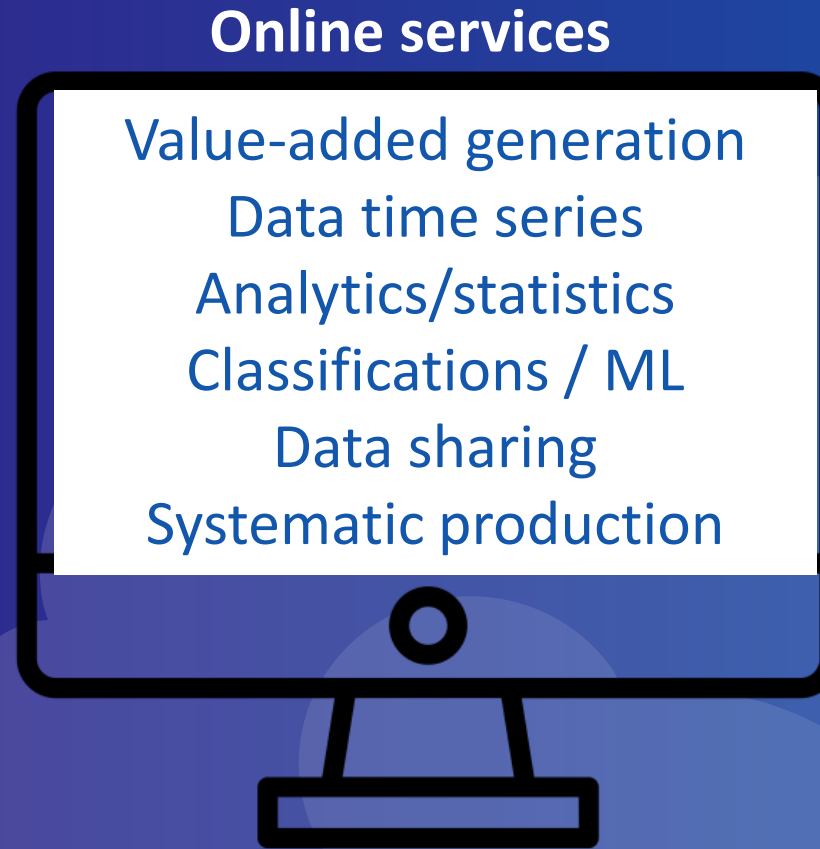
Value-added generation  
Data time series  
Analytics/statistics  
Classifications / ML  
Data sharing  
Systematic production  
Algorithm hosting  
Algorithm sharing

# Scenario 2: New gen. basic EO customer

**OCRE** | Open Clouds  
for Research  
Environments



Customer



Provider's processing platform



Provider

# Scenario 3: New gen. expert EO customer

**OCRE** | Open Clouds  
for Research  
Environments



Customer



Provider's processing platform



Provider

# Thank you

Please send any questions to the  
OCRE EO outreach team:

[j.delgado@rheagroup.com](mailto:j.delgado@rheagroup.com)

[a.romeo@rheagroup.com](mailto:a.romeo@rheagroup.com)



**EOcafe**

