

Bringing together Food Security and Big Data

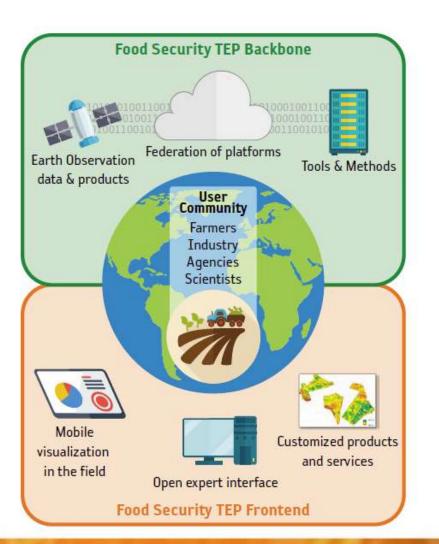






What is the Food Security Thematic Exploitation Platform?







"Supporting Sustainable Food Production from Space"

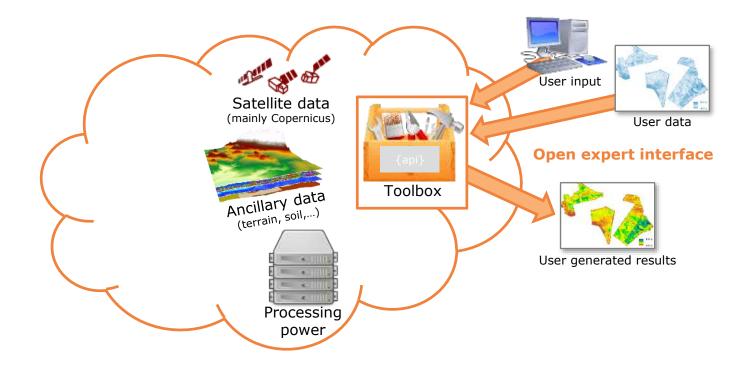
The innovative platform aims at simplifying the extraction of information from Earth Observation data for the advancement of dataintensive services in the food security sector mainly in Europe and Africa.

27/09/2017

Linked Open Data in Agriculture

FS-TEP Essential: Environment for the Expert User





FS-TEP Essential: Available Data and Tools



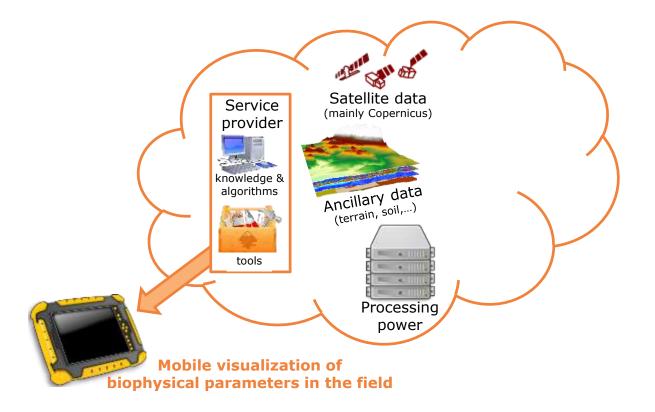
- (1) Satellite data: focused on Sentinel-2 in Phase 1, some additional data, pre-processed atmospherically corrected Sentinel-2 data as well as biophysical parameters (LAI, chlorophyll, fAPAR, fCover) for some areas (DE, BE, NL, selected parts of Zambia)
- (2) Ancillary data: Terrain Maps, Soil Maps, some Meteo Data
- (3) Tool boxes: SNAP Toolbox, Sen2Agri Toolbox, GDAL
- (4) **Basic functions:** Area and Time of Interest, basic GIS tools

Expert users can use tools to compare and visualize data and their own knowledge and algorithms to process available data with the available tools.

For FS-TEP Essential, the data and tool provision is free, only used processing power and storage will be charged in some way (after end of ESA project).

FS-TEP Mobile: Visualisation for Everybody





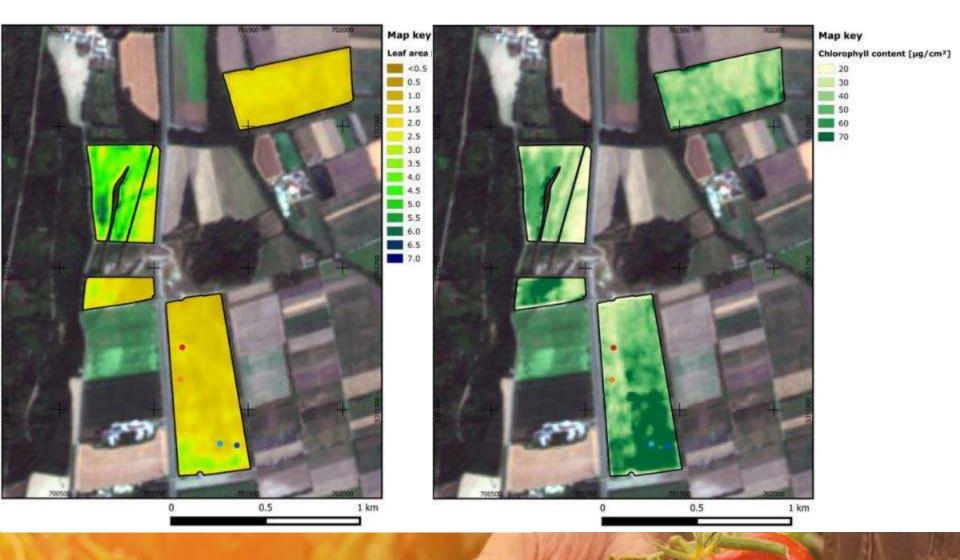


FS-TEP Mobile provides visualization for everybody.

- It is possible to
- Search and visualize pre-processed biophysical parameters (leaf area, leaf chlorophyll, fAPAR, fCOVER) in selected areas (in the beginning: DE, BE, NL, selected parts of Zambia).
- (2) Have **basic GIS functionalities** to discover the products in space and time
- FS-TEP Mobile can be taken out on the field on a mobile device to check areas that behave unexpectedly.
- FS-TEP Mobile is **free of charge**, but data can not be downloaded.

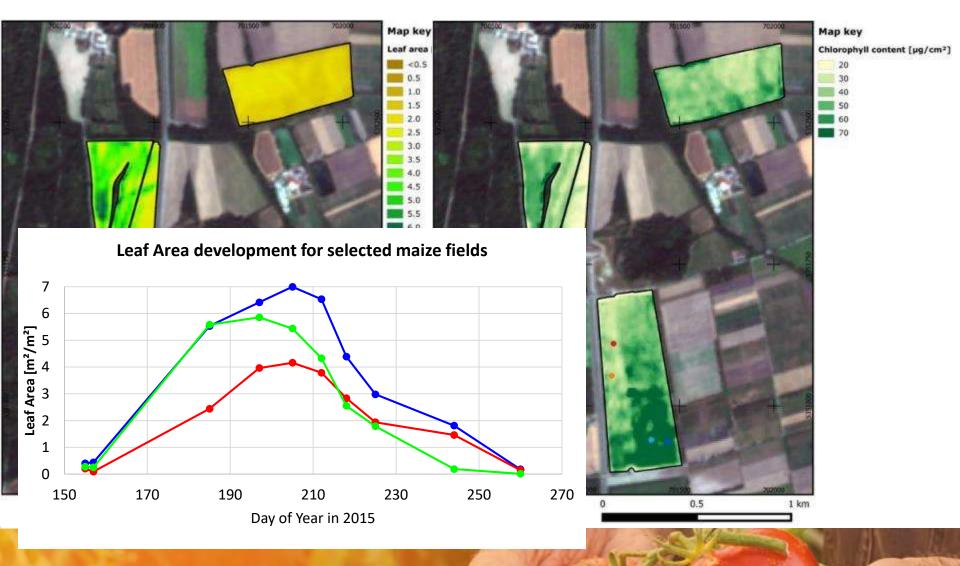
Data Example





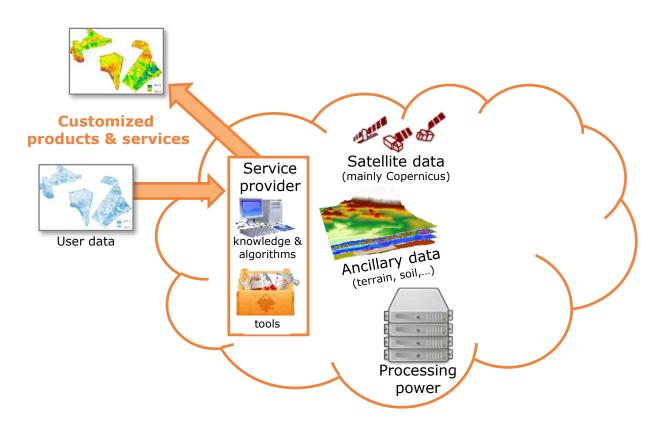
Data Example





FS-TEP Customized Services





FS-TEP Customized: What is it for?



FS-TEP Customized allows the **purchase of EO-based services** without investing into dedicated personnel for EO data analysis.

Service Providers specialised in extracting information from satellite data use

- their IPR protected tools
- the FS-TEP infrastructure
- available data on the FS-TEP
- > additional data provided by users (e.g. field boundaries)

to derive **high quality information** about crop status and deliver the customized results to the user.

FS-TEP Customized is **demonstrated** in three **service pilots**.

FS-TEP Service Pilots





27/09/2017

Linked Open Data in Agriculture

Our Portal is online, please visit: foodsecurity-tep.eo.esa.int

