



Erasmus+



show vet

The use of modern IT solutions for european farming

Project No. 2020-1-PL01-KA202-082273 "Innovative Multimedia Platform for the Presentation of Professional Qualifications" is financed under the Erasmus+ Program

27th of May 2022
Multiplier Event
Paralia Panteleimona, Greece

eFarming?

Bio-insurance

ASF

RES

Nitrogen
managementPrecision
farmingConsulting
agricultural

Pests

Agricultural
retail tradeAgriculture
drought

Food Holding

Feed
marketWater scarcity
monitoringHealthy
food

Recommendations

Agricultural
loans and
insuranceOrganic
farming

Crops

Farm
managementand many
others...

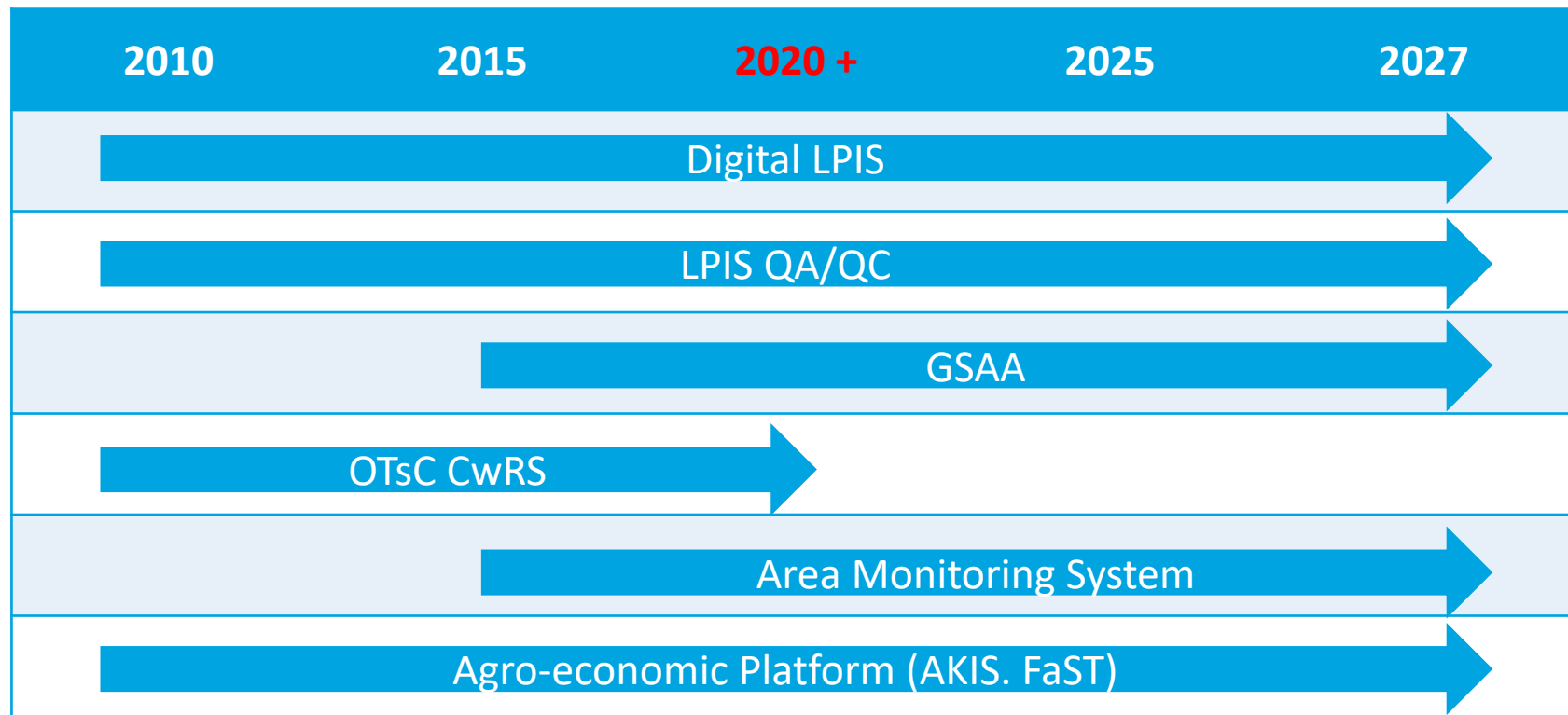
Goal:

CAP objectives 2021-2027

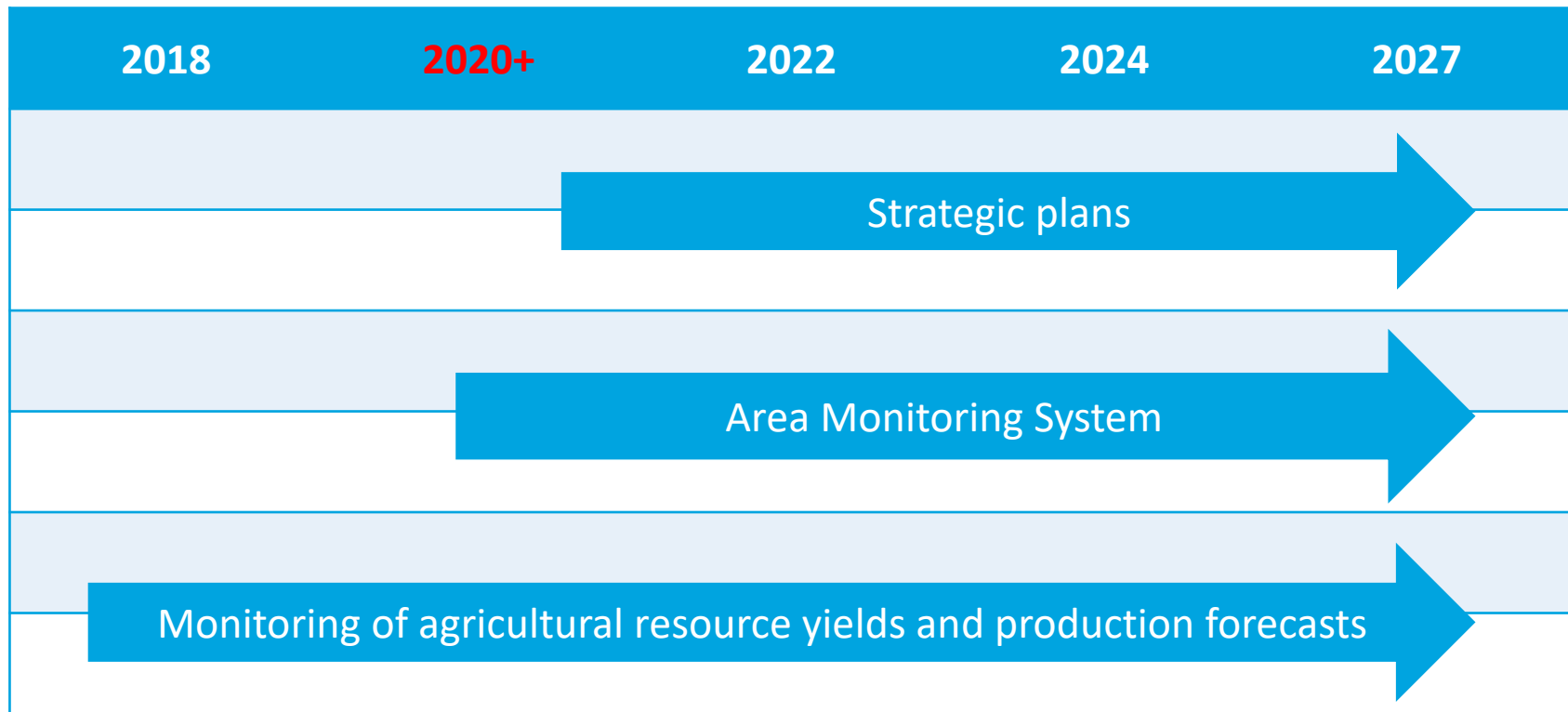
- Fostering a smart, resilient and diversified farming sector while ensuring food security;
- Increasing concern for the environment and intensifying climate action to contribute to the Union's environmental and climate goals;
- Strengthening the socio-economic structure of rural areas.

The main goals are complemented by the cross-cutting goal of modernizing the sector through the use of **knowledge, innovation and digitization to agriculture and rural areas**

Technological development prospects at the EU level

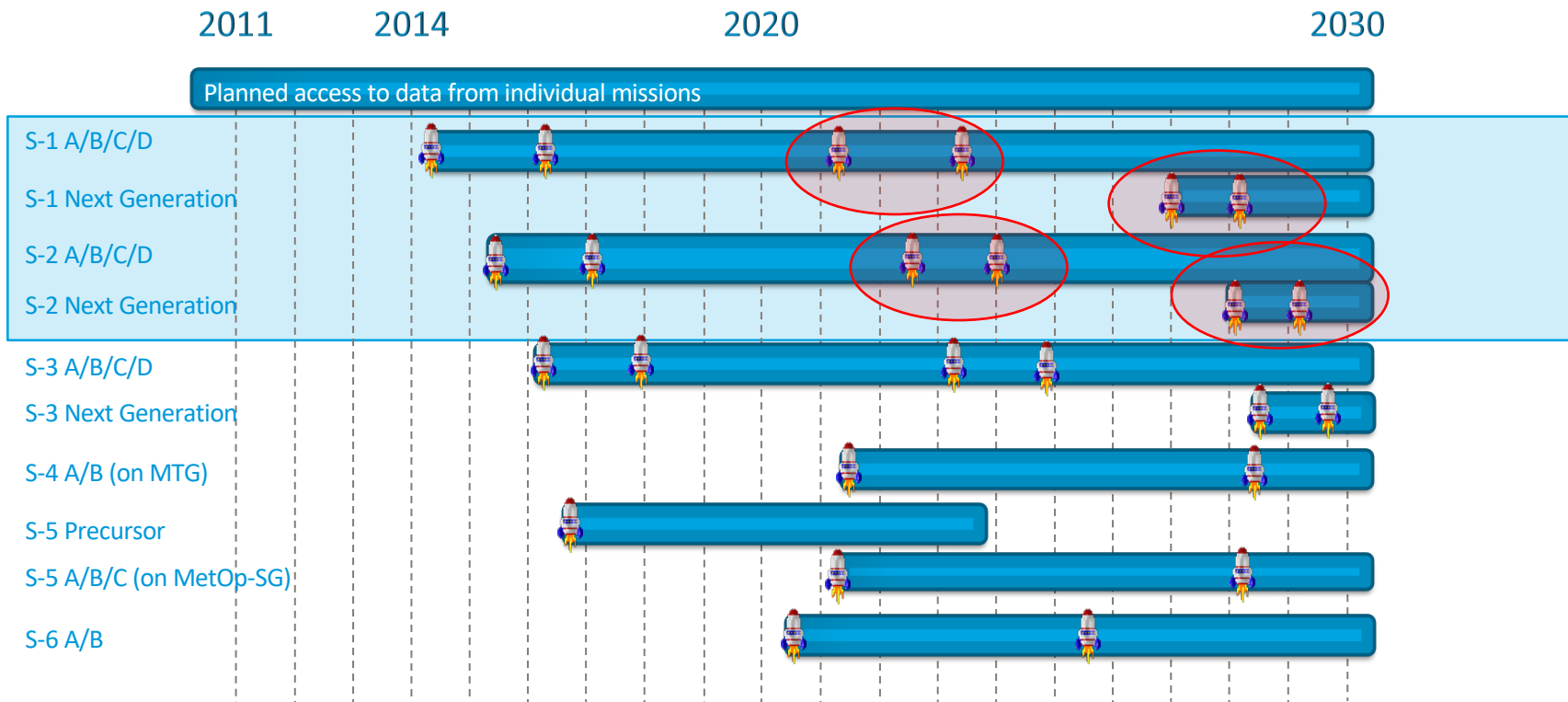


Technological development prospects at the EU level



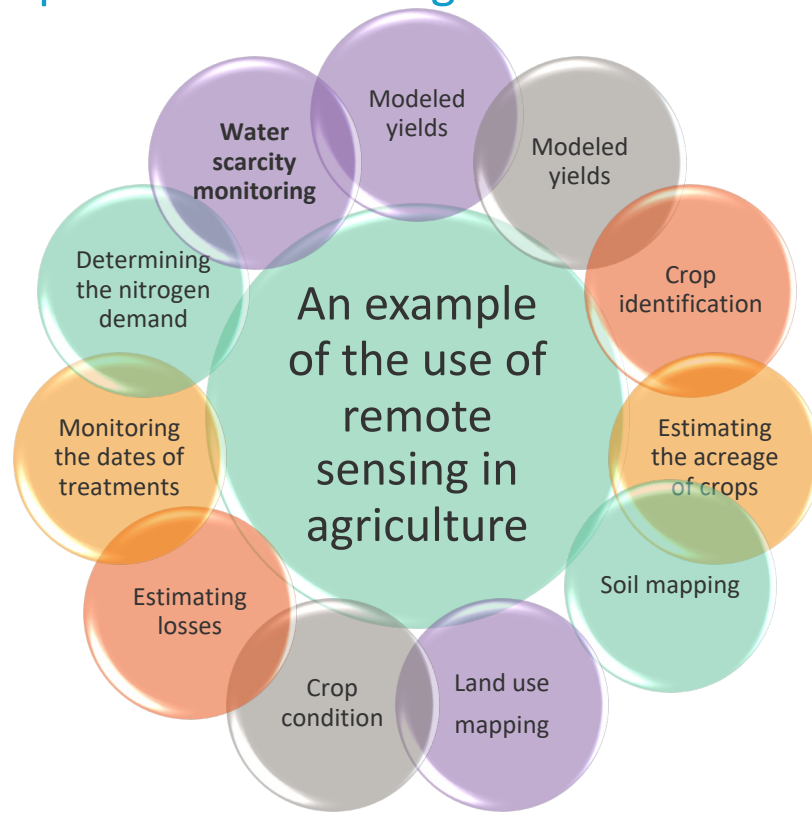
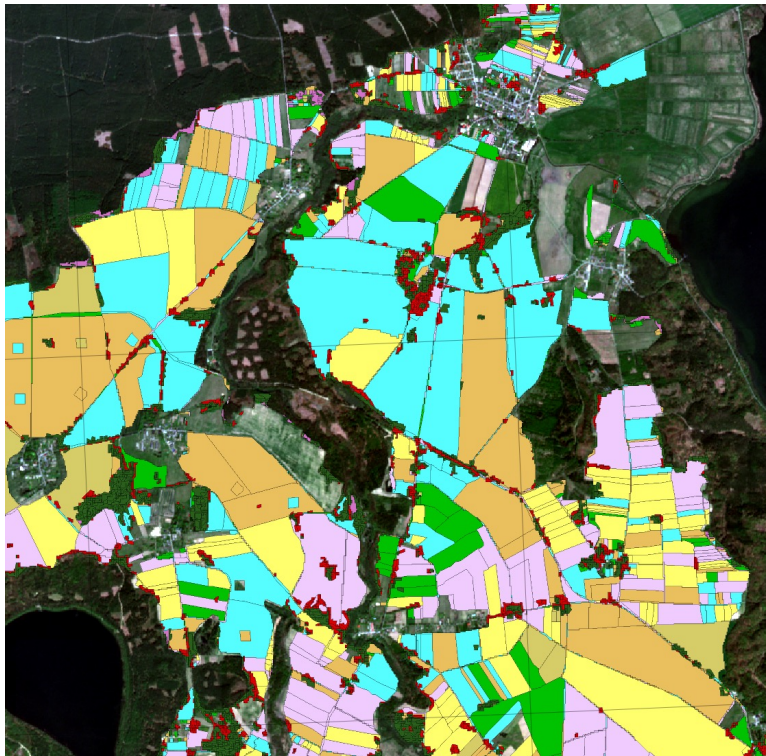
Long-term operational perspective of the Copernicus - next generation program

show vet



Application of remote sensing in farming

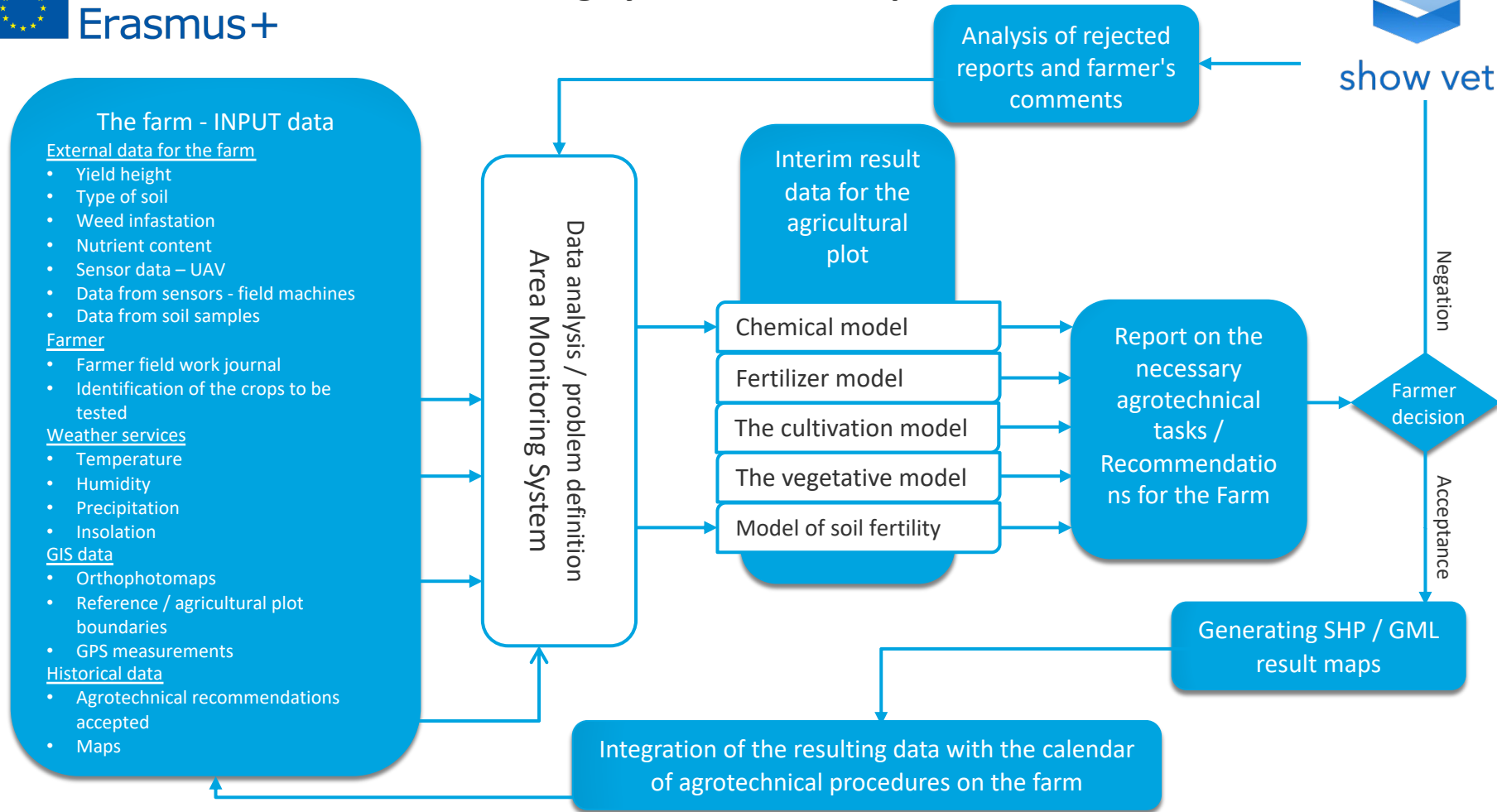
Assessment of the quality of crops and compliance with EU regulations



Area Monitoring System - an example of a fertilizer service



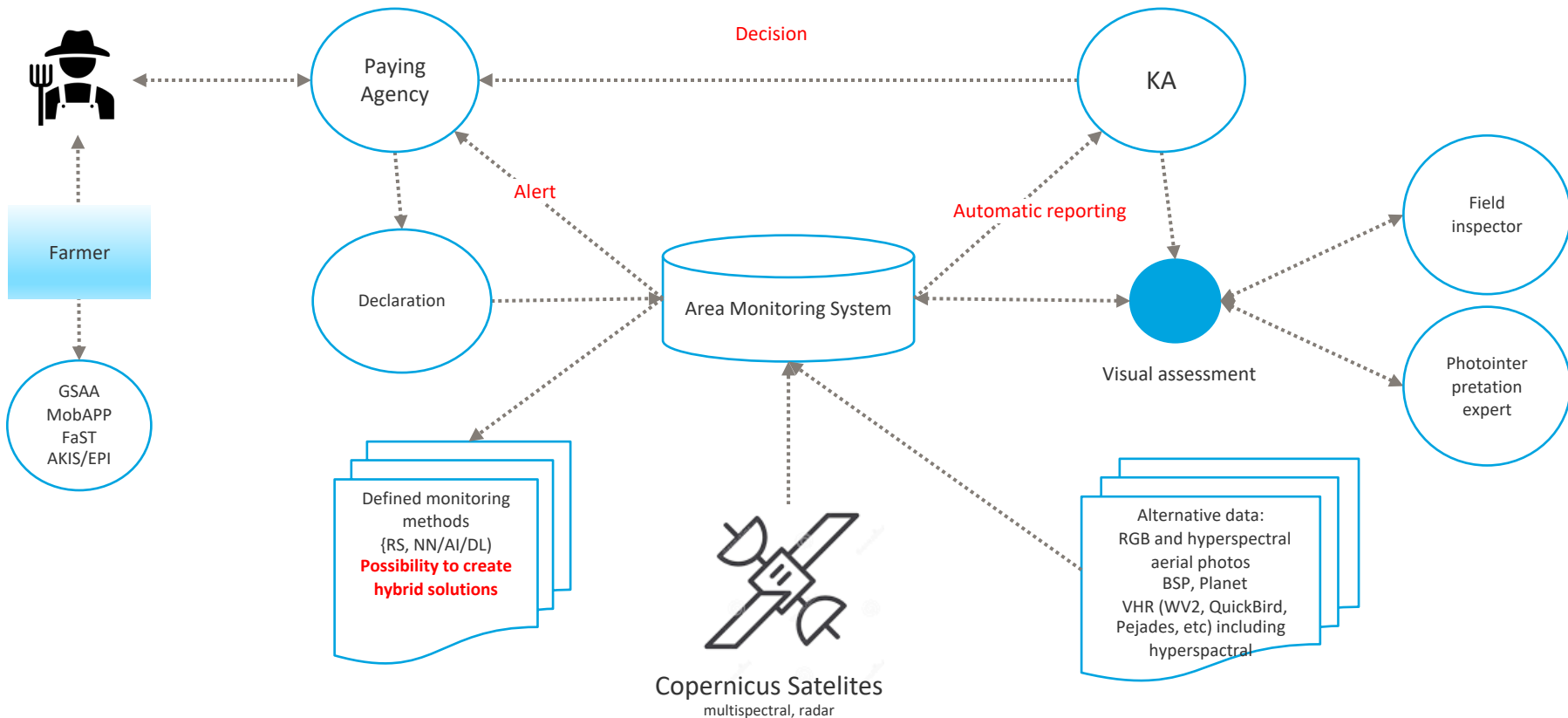
show vet



Change of business processes – new data sources

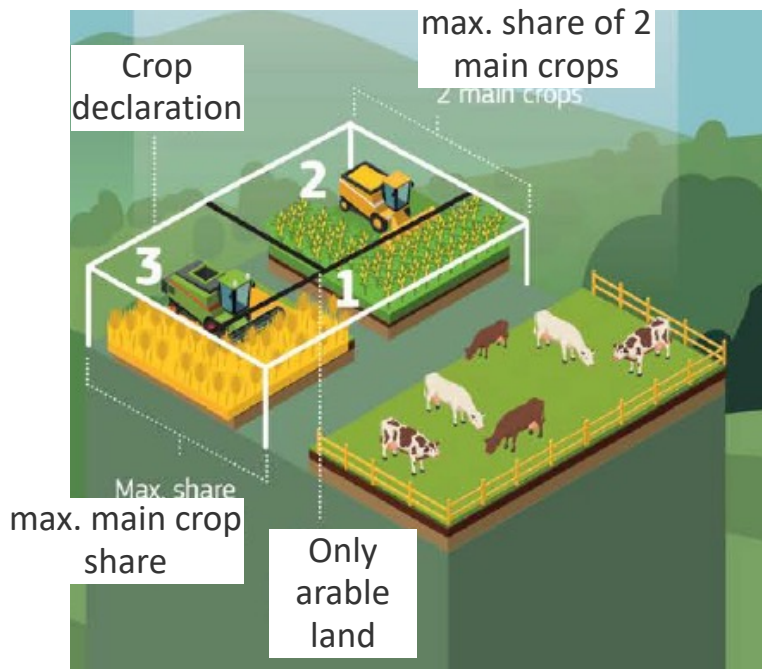


show vet

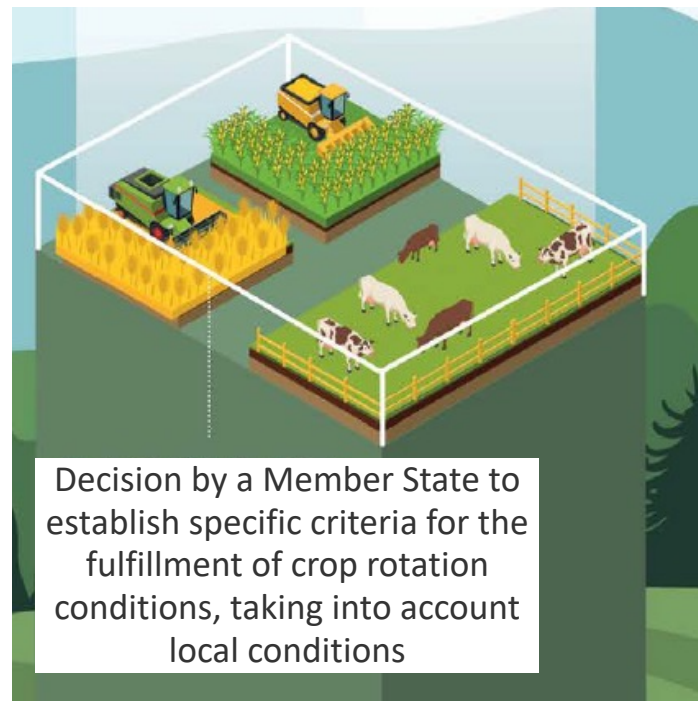


A new approach of the European Commission

Comprehensive farm assessment



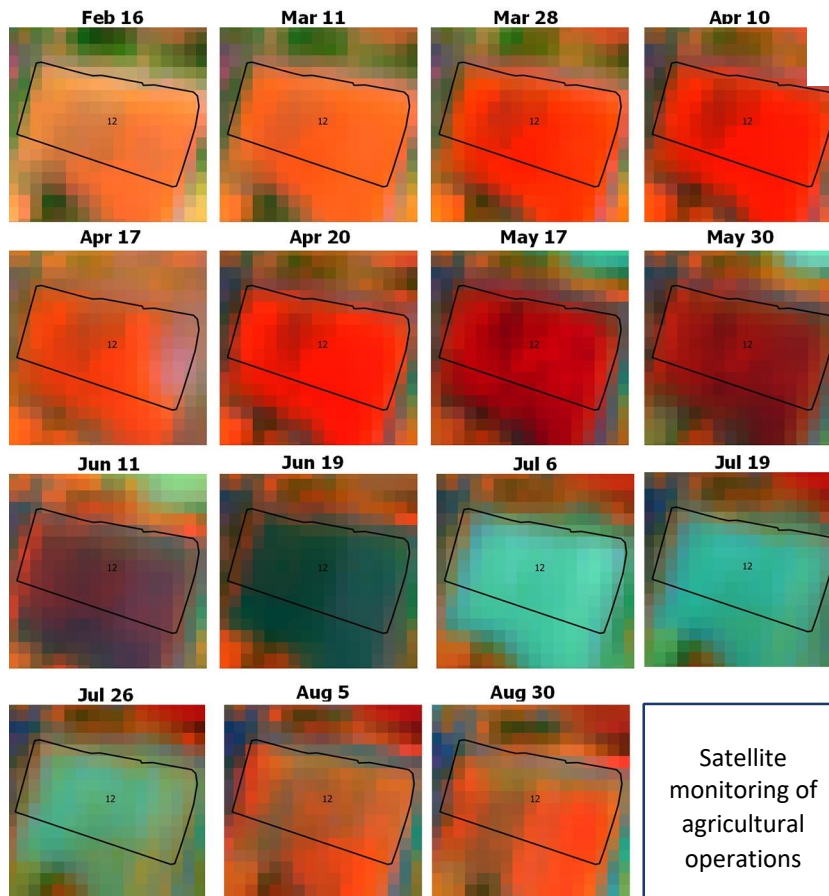
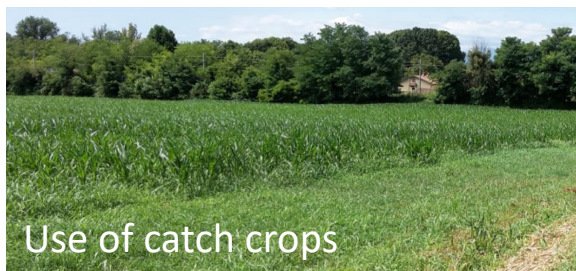
Diversification of crops under greening

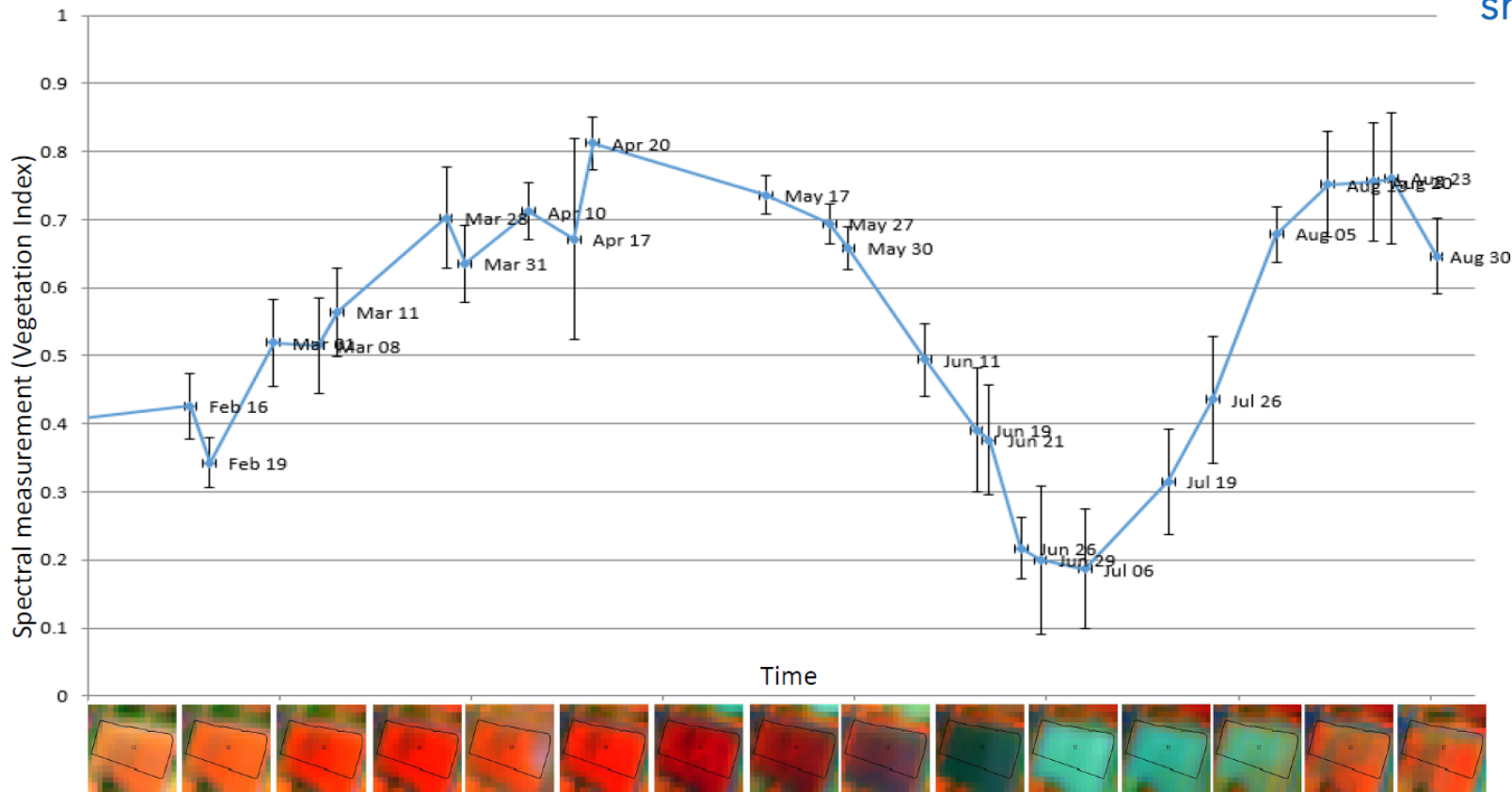


Crop rotation under the "conditionality" principle

Assessment of the principles of "Conditionality"

- **GAEC 1** - Maintaining permanent grassland based on the proportion of permanent grassland to agricultural land.
- **GAEC 2** - Adequate protection of peatlands and wetlands
- **GAEC 3** - It is forbidden to burn stubble, unless it is for the health of the plants
- **GAEC 4** - Establish buffer zones along water courses
- **GAEC 5** - Use of the farm sustainability tool in terms of nutrients– FaST
- **GAEC 6** - Plowing management, contributing to reducing the risk of soil degradation, including the slope of the land
- **GAEC 7** - Failure to use fallow fallow in the most sensitive place
- **GAEC 8** – Crop rotation
- **GAEC 9** - Minimum share of the agricultural area used for non-productive facilities or areas - Maintaining the characteristic features of the landscape - Prohibition of cutting hedges and trees during the bird breeding season and the rearing season
- **GAEC 10** - Prohibition of converting or plowing permanent grassland in areas belonging to the "Natura 2000" network





Potential system architecture



show vet

SNAP

TOOLBOX IGIK – TOOLBOX CBK

Service 1

Service 2

Service ...

Service [n]

Artificial Intelligence



IACSplus
/AMS

LPIS

KA

KnM

MobAPP

GSAA

Open Data

Communication platform EO - DIAS

Other external data

S1/S2 data

Other satellite
and aeronautical
data, UAV

Meteo data

GIS data
soil maps, etc.



Erasmus+



show vet

Thank You

Project No. 2020-1-PL01-KA202-082273 "Innovative Multimedia Platform for the Presentation of Professional Qualifications" is financed under the Erasmus+ Program

27th of May 2022
Multiplier Event
Paralia Panteleimona, Greece