
MAKING
AGRITECH
SUSTAINABLE
AGRICOLUS

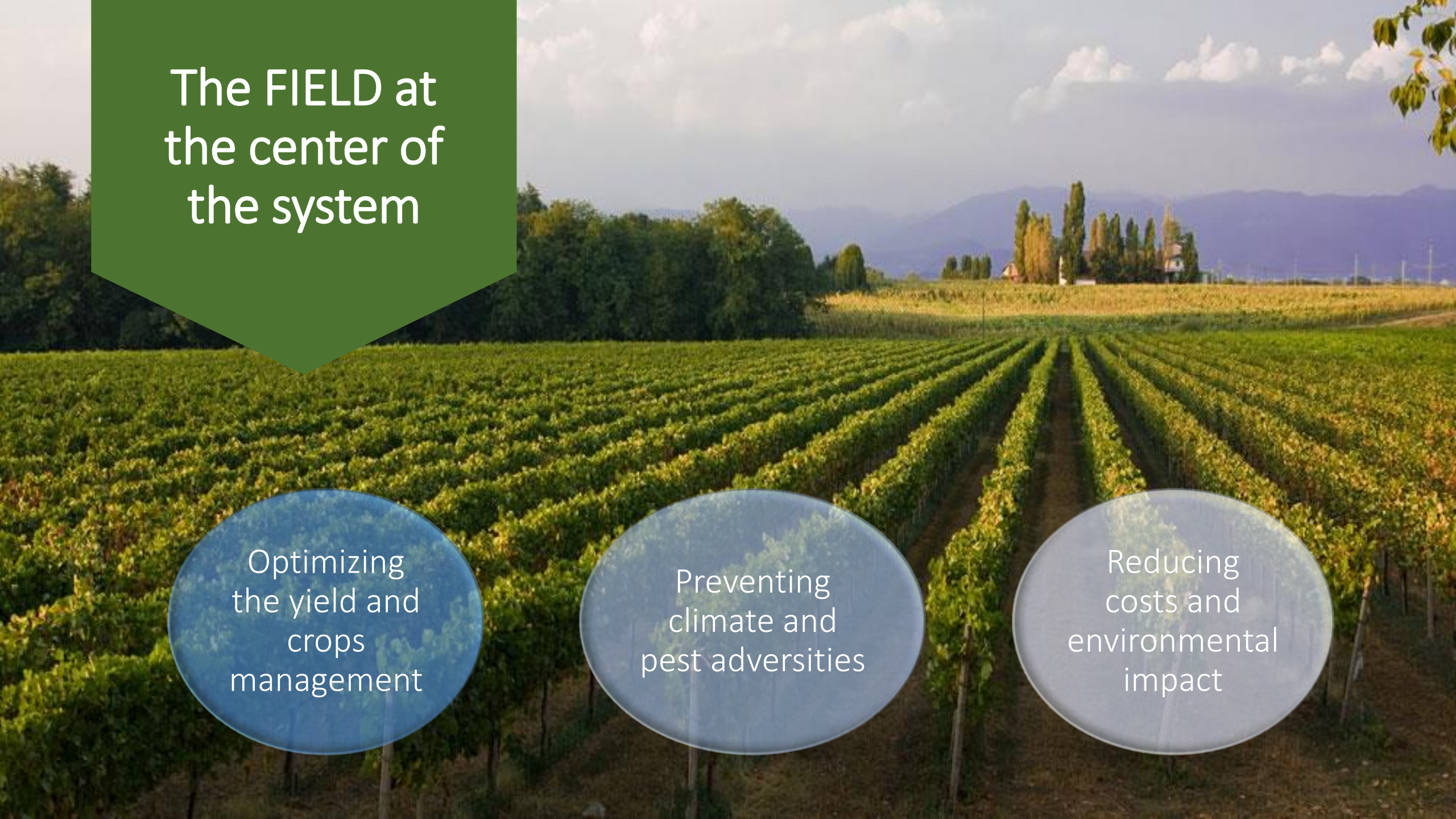
Smart Farming

AGRICOLUS

Increase yield quality and quantity

Reduce economic and environmental cost

The FIELD at the center of the system

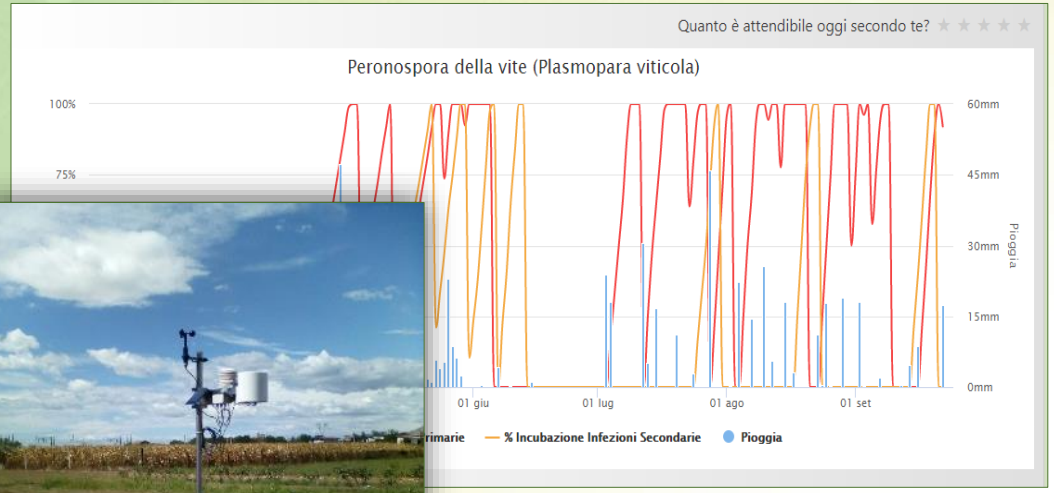


Optimizing the yield and crops management

Preventing climate and pest adversities

Reducing costs and environmental impact

The complete solution for any agronomical need



Forecast Models
&
IoT

Crop Scouting

Operations

Remote sensing

Some customers since 2015

PHILIP MORRIS ITALIA S.R.L.
DUPONT
ASSOPROL
Confagricoltura Umbria
COLDIRETTI
ARNALDO·CAPRAI Viticoltore in Montefalco
FONDAZIONE PER L'ISTRUZIONE AGRARIA
LUNGAROTTI
Regione Toscana
Regione Umbria

Control, forecast, decision

- WEATHER DATA
- SATELLITE DATA
- AGRICULTURAL INPUTS
- IN-FIELD MONITORING
- FORECAST MODELS
- DECISION SUPPORT SYSTEM

SUPPORT IN

IRRIGATION

FERTILIZATION

PLANT DISEASES

PHENOLOGY

Agricolus platform

Maps and satellite data

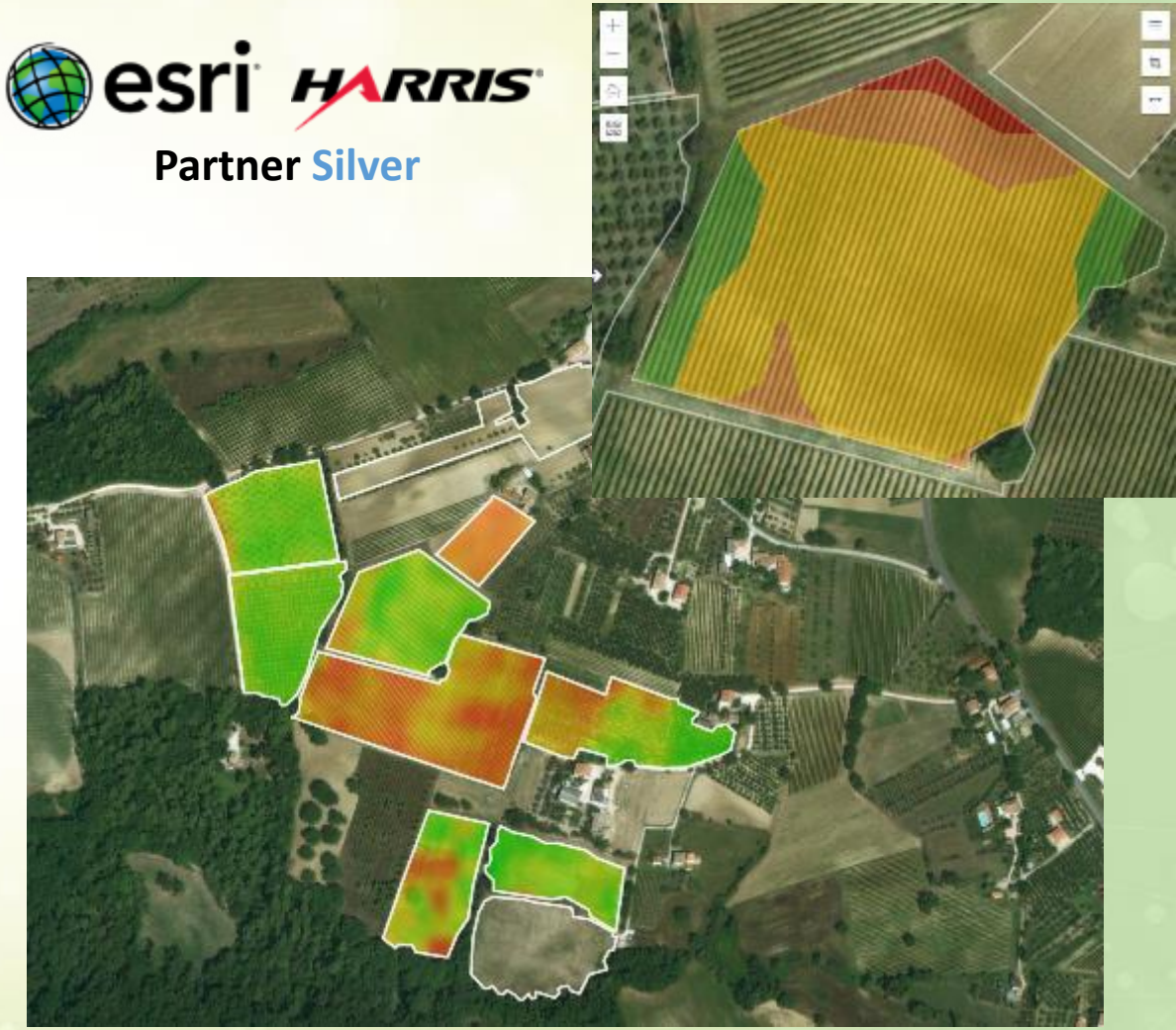
Geolocate the field on the map and Consult satellite analyses of the field to understand crops development and variability over time.

Landsat 8 is the satellite used: it provides multispectral images per each field **every 16 days at a distance of 30 meters**.

Satellite Sentinel 2 provides multispectral images **every 5 days** at a**distance of 10 meters** with **vigour and water stress indices**. It is possible to process images from **drone.**

esri HARRIS

Partner Silver



Monitoring in field

Consulting data on your field from mobile, wherever you are.
Carry out the crop scouting and geolocate your activities and the ones of your workers.

- ✓ ISSUES AND DAMAGES
  Crop damages and general issues concerning the farm
- ✓ SOIL ANALYSIS
  Geolocated sample of soil to carry out a deeper analysis
- ✓ INSECT CATCHES
  Survey and analysis of catches
- ✓ PHENOLOGY
  Registration of growth phases and ripening of crops

Crops operations

Registering where, who, how and when crop operations such as irrigation, treatments and fertilization have been carried out.

Trattore

New Holland - T4050

Targa AB 123 C

Acquistato il 03/02/2017

Attività	Campo	Ore	Data	Annotazioni
Aratura	Poggio 01	6,5	03/02/2018	
Aratura	Poggio 02	5,0	04/02/2018	
Semina	Poggio 01	3,0	12/05/2018	

Giuseppe Verdi *Agronomo*

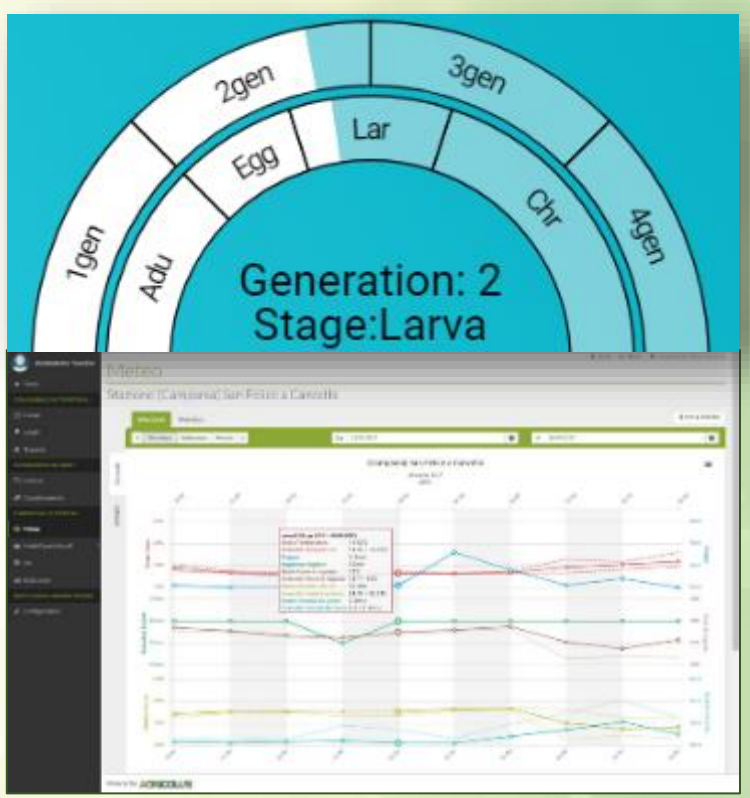
Patente/Autorizzazione	Rilascio	Scadenza	Annotazioni
Patentino fitosanitario	10/09/2016	10/09/2021	
Patente di guida cat. B	16/04/1994	15/04/2024	
Abilitazione all'uso di macchine agricole	23/07/2014	23/07/2019	

Anagrafe | Patenti | DPI | Attrezzature | Costi | Log attività

Forecast models

Forecast models provide farm entrepreneur with tools able to read and process environmental data in order to plan effective, efficient and targeted actions. Useful for:

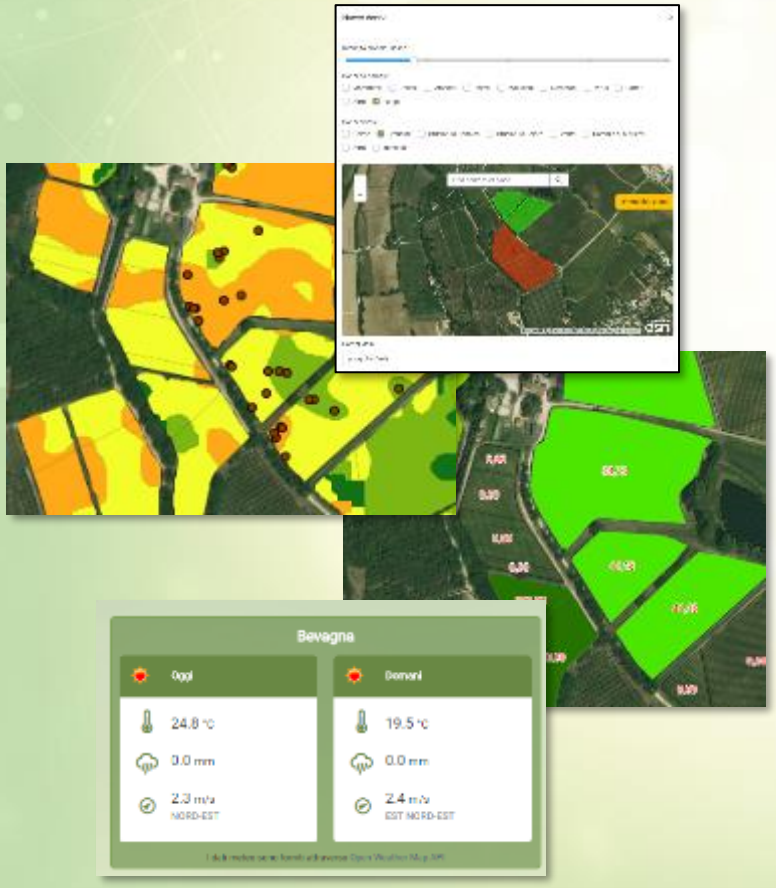
- Phenology of the crop (stage of crops development or stage of fruits ripening)
- Risk of infestation caused by specific pathogens or phytophagous at each stage of the crop cycle
- Crop nutritional requirements
- Crop water requirements



Our forecast models are **developed by Agricolus R&D team**, which is inside the University of Sant'Anna Pisa.

Sant'Anna
Scuola Universitaria Superiore Pisa

DSS – Decision Support System



A Decision Support System (DSS) is a computer architecture able to support farmers and technicians in the analysis of decisions.

- Satellite Data
- Water Models
- Weather Data
- Phoenology
- Other Data

IRRIGATION

- NPK Models
- Vigour Maps
- Weather Data
- Phoenology
- Other Data

FERTILIZATION

NPK

- Pest prediction models
- Weather Forecast
- On the field Observations
- Phoenology
- Vigour
- Other Data

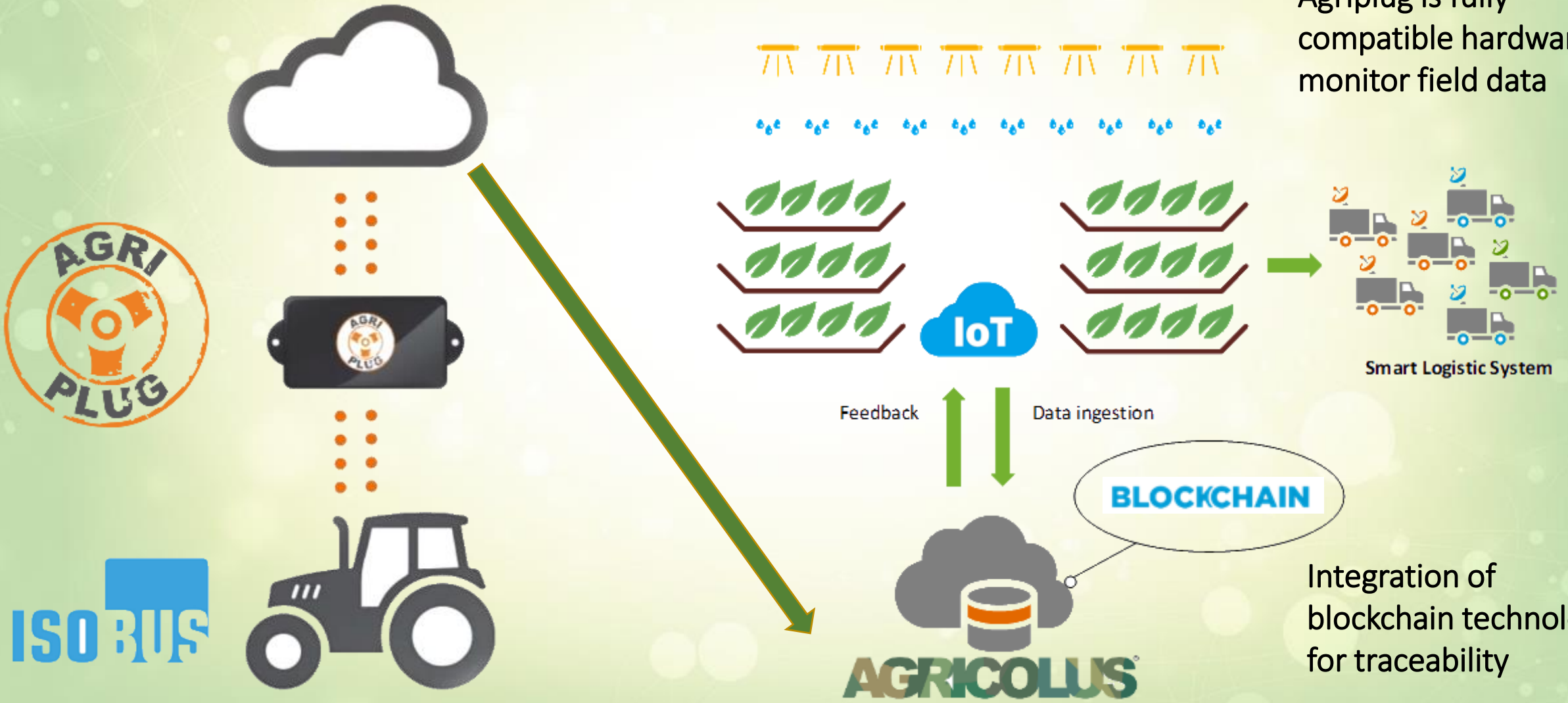
DEFENSE

Agronomic advice

Agricolus Professional Dashboard is a platform designed for agronomists, agricultural engineers and technicians.

It is possible to view in a single interface the data of all the farms to which the agronomist offer advice and services, even remotely; monitoring the activities carried out; sharing decisions with the farmer for an efficient crop management.

Agriplug e traceability



Agriplug is fully compatible hardware to monitor field data

Integration of blockchain technology for traceability

Succes cases

TOBACCODSS

- ✓ Nutritional and water needs
- ✓ Treatments optimization
- ✓ Inputs reduction

OLIWES®

- ✓ Olive fly monitoring and prevention
- ✓ Traps and weather monitoring
- ✓ Increase in productivity

GRAPE-DSS

- ✓ Mildew, botrytis, powdery mildew, prevention
- ✓ Crop phenology and ripening
- ✓ Management per variety and zones
- ✓ Increase in quality

Who we are

Multidisciplinary team

board of directors

Andrea Cruciani
CEO

Antonio Natale
COO

Diego Guidotti
R&D

Data Analysts
GIS & Software Development
R&D - Agronomi
Marketing & Sales
Helpdesk

Technical partners

Università degli Studi di Perugia

Sant'Anna Scuola Universitaria Superiore Pisa

ZEPP

Central Institute for Decision Support Systems in Crop Protection

AGRO BUSINESS PARK

esri

HARRIS

Pessl INSTRUMENTS

libelium

Supporters

Smart Agri-Food

Microsoft

Copernicus accelerator

EIT Food

Rising Food Stars

FONDO EUROPEO AGRICOLO PER LO SVIULUPPO RURALE: L'EUROPA INVESTE NELLE ZONE RURALI

cropUP

grow it up

SME Instrument

ego 2018

5G PIONEERS Startup competition

SPEED UP! EUROPE

UniCredit Start Lab

fractals

START UP INITIATIVE INTESA SANPAOLO

SpinUp AWARD

speed up

H2020 - Phase 1
Phase 2 - 3 seal of excellence

Our mission

Agricolus s.r.l. is an innovative startup which develops solutions for Smart Agriculture.

We want to support farmers and agricultural operators in optimizing agronomic practices by making AgTech tools, data collection and analysis technologies easier.

- ✓ Simplify Agritech complexity
- ✓ Up to 20 % fertilizers and treatment savings
- ✓ Improve and certify trasparence on production quality
- ✓ Connect farm machineries, IoT, satellites, drones and open data

AGRICOLUS PROFESSIONAL ACADEMY

Agricolus Professional Academy aims to train **agricultural professionals in optimizing the daily work** on the field by integrating specific skills and innovative technologies.

Classes provide an overview on **smart farming techniques, innovative technologies for agriculture and on the optimization of the yield**.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