

A top-down view of a white bowl filled with a variety of fresh fruits and nuts. The bowl contains several bright red raspberries, green and red grapes, sliced almonds, and a small cluster of walnuts. A portion of granola is visible in the center. The entire image is overlaid with a semi-transparent dark grey filter.

Food, tasty and digital

Dr Srđan Krčo
DunavNET



A healthier and more sustainable EU food system is a cornerstone of the European Green Deal



Make sure Europeans have access to healthy, affordable and sustainable food



Tackle climate change



Protect the environment and preserve biodiversity



Ensure a fair economic return in the supply chain



Increase organic farming



“The coronavirus crisis has shown how vulnerable we all are, and how important it is to restore the balance between human activity and nature. At the heart of the Green Deal the Biodiversity and Farm to Fork strategies point to a new and better balance of nature, food systems and biodiversity; to protect our people’s health and well-being, and at the same time to increase the EU’s competitiveness and resilience. These strategies are a crucial part of the great transition we are embarking upon.”

Frans Timmermans, Executive Vice-President of the European Commission

[ABOUT](#)[PILOTS](#)[OPEN CALL](#)[EVALUATE](#)[NEWS & UPDATES](#)[CONTACT](#)[SUBSCRIBE](#)

EMPOWERING FARMERS

The H2020 DEMETER project is a large-scale deployment of farmer-driven, interoperable smart farming-IoT (Internet of Things) based platforms, delivered through a series of 20 pilots across 18 countries (15 EU countries). Involving 60 partners, DEMETER adopts a multi-actor approach across the value chain (demand and supply), with 25 deployment sites, 6,000 farmers and over 38,000 devices and sensors being deployed.

[DISCOVER](#)



18 Countries



13 member states

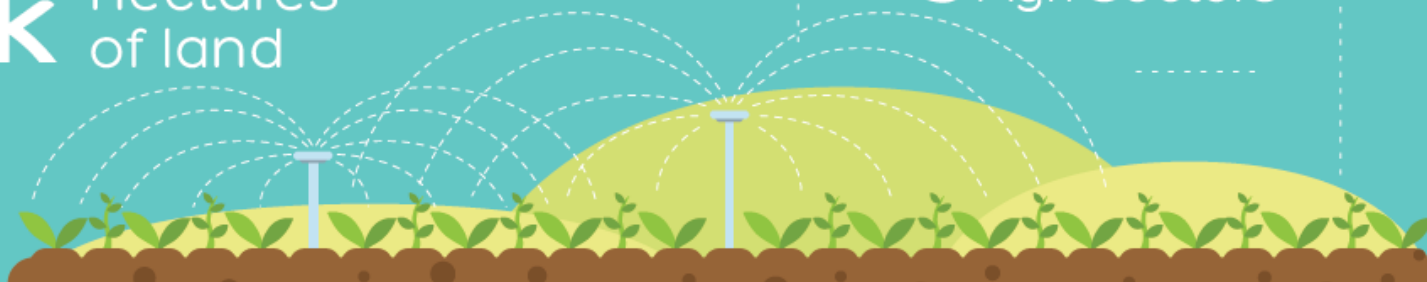
60
Partners



318k hectares
of land

Working with

5.7k
Farmers



29k



Sensors
used
across

80
sites

20 Pilots



5 Agri Sectors

Global
Outreach:

69

farming
associations



47 Countries

1.5 Billion People

Multi-Actor
Approach



Using Practical skills

& knowledge to
target real life
needs, problems
& opportunities.

9.2k Devices
& **131** Large
Machinery

THE DEMETER **PILOTS**

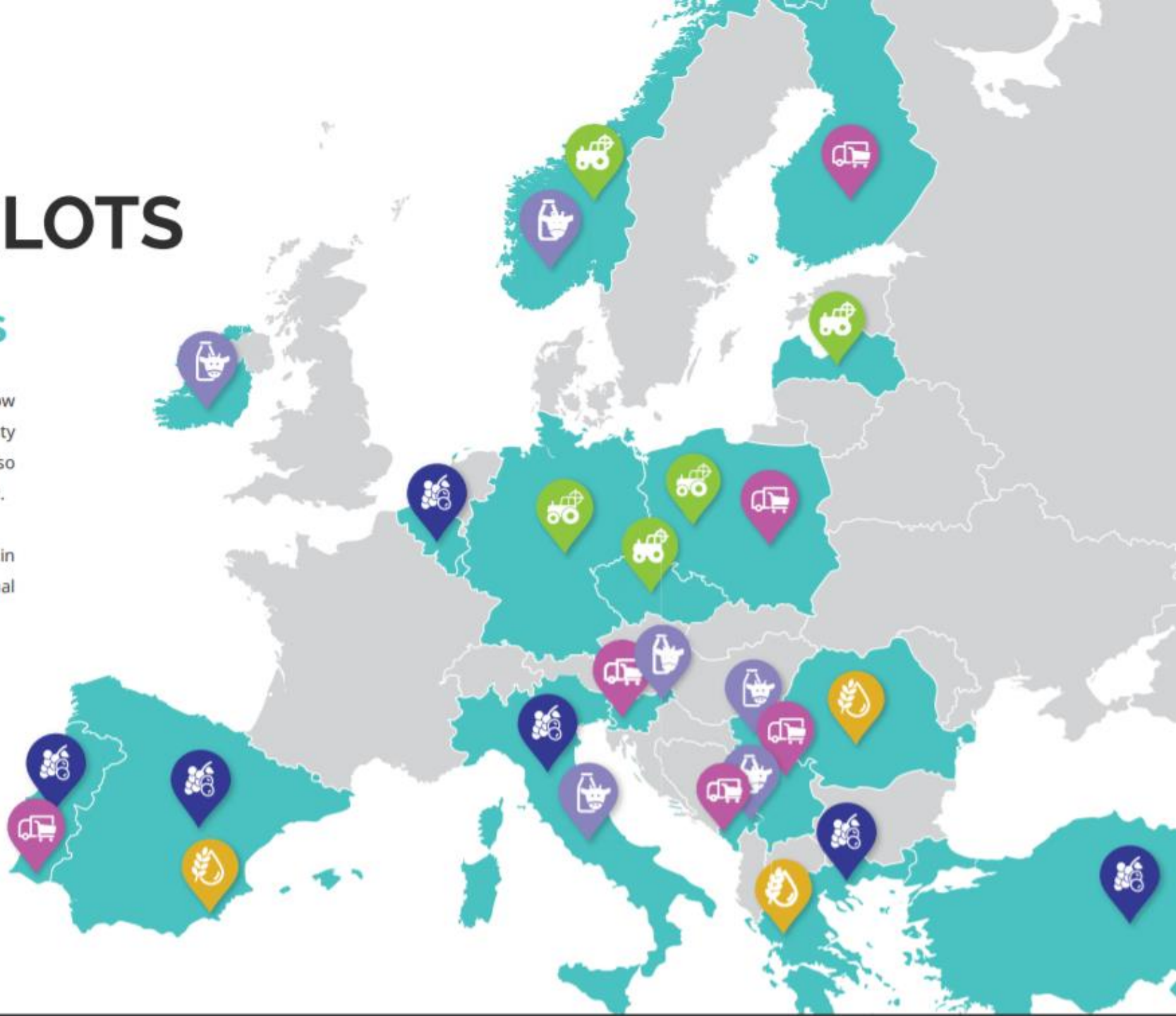
5 Clusters, 20 Use Cases

The DEMETER pilot projects are used to demonstrate and evaluate how innovations and extended capabilities benefit from the interoperability mechanisms. The pilots, running across 18 European countries, are also used to monitor the evolution of the maturity in the stakeholders involved.

The pilots are grouped into 5 clusters: arable crops, precision farming in arable crops, fruit and vegetable production, livestock (poultry, dairy, animal welfare) and the supply chain.



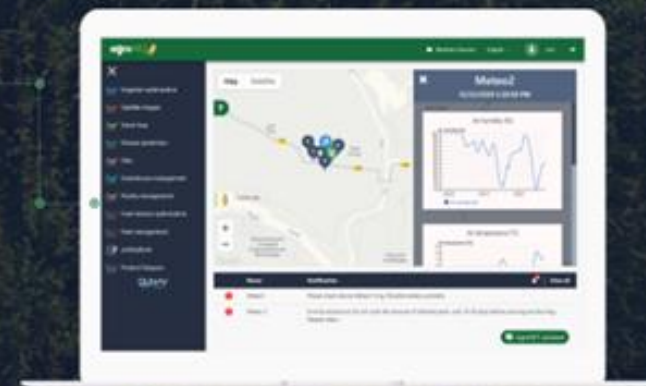
WWW.H2020-DEMETER.EU/PILOTS



Digital Farm Management

Integrated overview of all farm operations

Show more →



DIGITAL FARMING PLATFORM from FARM to FORK

agroNET – holistic farm management platform for improving crop production and animal breeding thus enabling transparency and traceability across the food supply chain




SEE HOW IT WORKS



Built-in powerful data analytics modules

Just in time advices based on data analytics and experts' modules

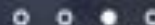
Show more 

Culgranda
Schwells

84 

TOLERANTE GRAPES TYPE:
Risk of grey mould disease is 50%.

No action is required - if the treatment was already done (with fungicides that are efficient enough for grey mould disease) in last three days.



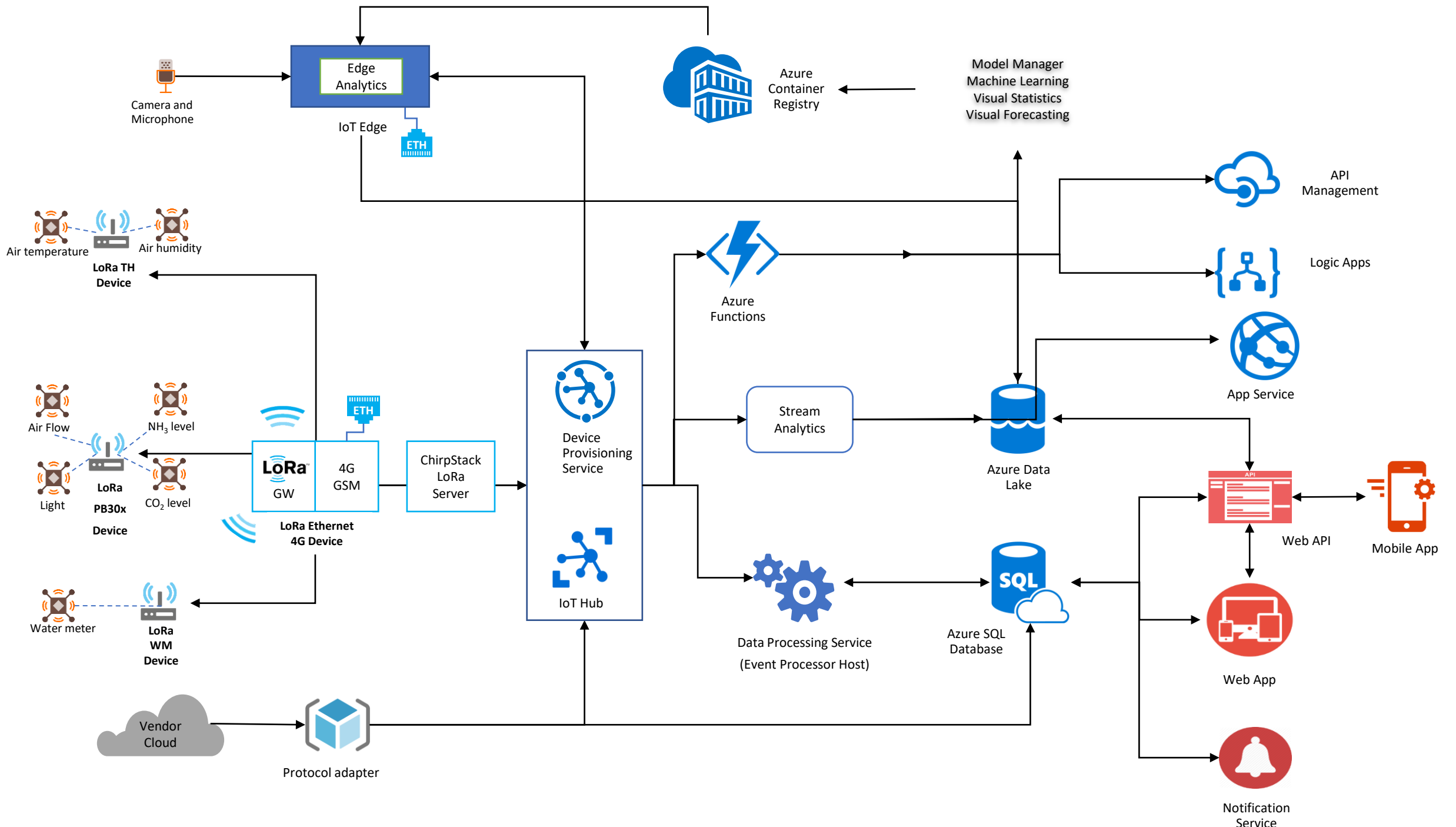
DIGITAL FARMING PLATFORM from FARM to FORK

agroNET - holistic farm management platform for improving crop production and animal breeding thus enabling transparency and traceability across the food supply chain



SEE HOW IT WORKS







Map

Satellite



Filter

☐ OBJECT

- ☐ Aerodrom - Blok 2
- ☐ Aerodrom - Blok 3
- ☐ Aerodrom - Blok 4
- ☐ Aerodrom - Blok 5
- ☐ Aerodrom - Blok 6
- ☐ Aerodrom - Blok 7
- ☐ Aerodrom - Blok 8
- ☐ Bunar 12 - Blok 1
- ☐ Bunar 12 - Blok 2

☐ LOCATIONS

- ☐ Tabla 1 b1 d
- ☐ Tabla 1 b1 d
- ☐ Tabla 2 b1 d
- ☐ Tabla 3 b1 d
- ☐ Tabla 4 b1 d
- ☐ Tabla 5 b1 d
- ☐ Tabla 6 b1 d
- ☐ Tabla 7 b1 d
- ☐ Tabla 8 b1 d

☒ DEVICES

- ☒ Plantaže Meteo ...
- ☒ METEO-DEM-M1-6
- ☒ TRAP1-DEM-T1-4
- ☒ TRAP2-DEM-T2-5
- ☒ TRAP3-DEM-T3-6
- ☒ TRAP4-DEM-T4-7
- ☒ TRAP5-DEM-T5-8
- ☒ Tuzi (Sauvignon...
- ☒ Dinoš(Kratošija...

☐ CROP TYPE

- ☐ Grape
- ☐ Peach

☐ VARIETY

- ☐ Grenache
- ☐ Rkatsiteli
- ☒ Vranac

Google

Map data ©2021 Imagery ©2021 CNES / Airbus, Maxar Technologies 100 m Terms of Use



Name

Notification



View all



METEO-DEM-M1-6

The incubation time, the period between infection and the first appearance of symptoms, after infec...



METEO-DEM-M1-6

The infection 7 has occurred. Recommendation: If preventive measures have been taken in the past 3 ...



Plantaže Meteo 1

The incubation time, the period between infection and the first appearance of symptoms, after infec...

AgroNET assistant



Disease prediction

Home

Overview

Show data



Fields Alert field 1



Station Weather Station 2

07/01/2018

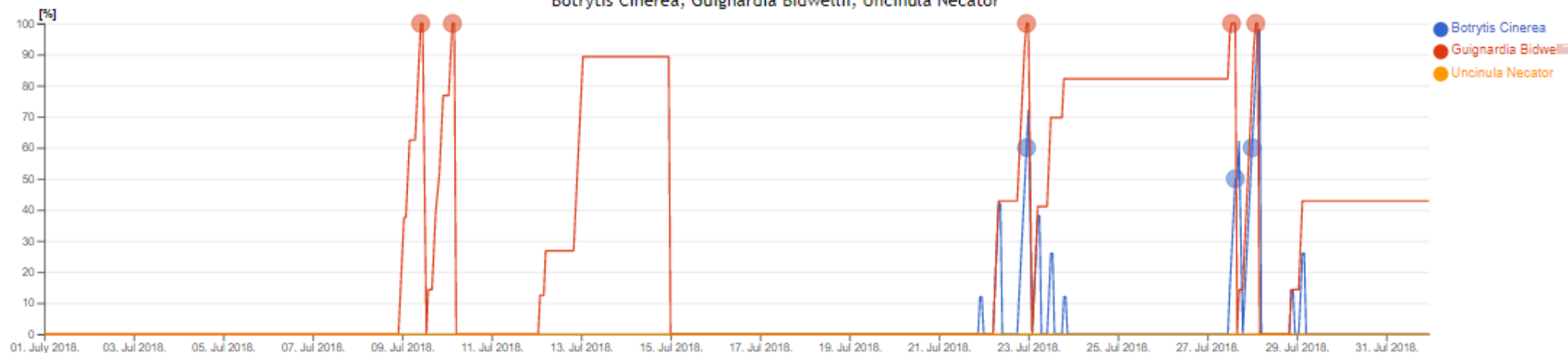
08/01/2018

Search

Fields

☐ Lobesia botrana(grapevine moth)☐ Cydia pomonella(codling moth)☒ Botrytis cinerea(gray mould disease), Guignardia bidwellii(black rot of grape), Uncinula necator(powdery mildew)

Botrytis Cinerea, Guignardia Bidwellii, Uncinula Necator

☐ Erwinia amylovora(fire blight of apple), Erwinia pyrivora(fire blight of pear)



Automatic (AI/ML) chicken recognition



poultryNET visualization - dashboard



Broilers

Home

Activity book

CHAT

Poultry analysis

Additional fuctionalities

AI implementation

Demo 1 ▾



Production cycle

5/12/2020 12:00:00 AM

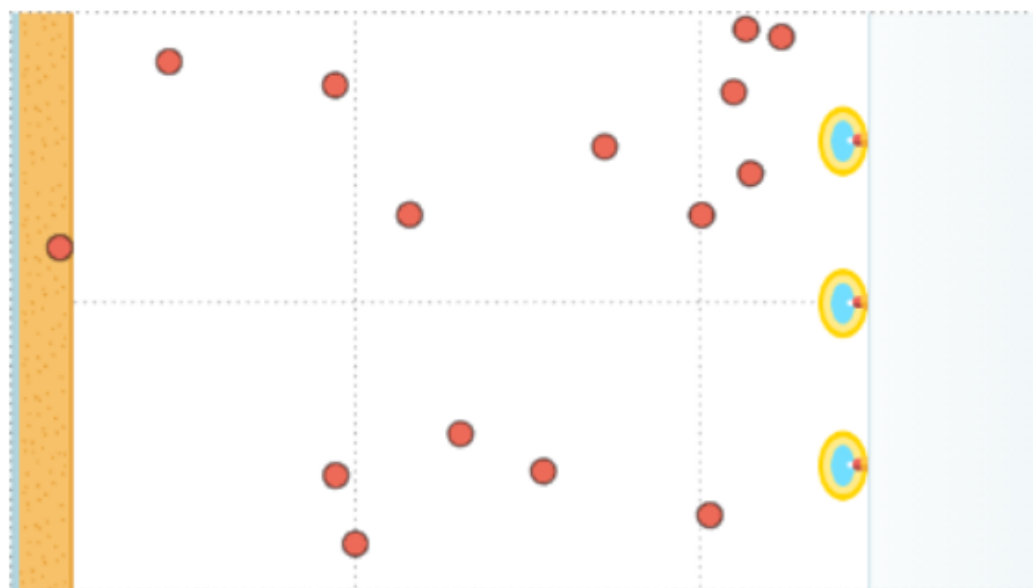


List of objects



Current cycle

Updated - minute ago



Analysis

Average weight

Water consumption

Conversion

Food consumption

day(s)

42

Number of
chickens

9725

↘ 285

Number of
chickens per
m²

12.97

↗ 0.38

Total losses,
cummulative

2.71%

↘ 271

Total culls

0%

↘ 6

Number of
chickens per
feeder

59.58

Number of
chickens per
drinker

12.59

Temperature

-



From
chickens to
pigs, the step
is not so big



**CONSUMERS
HAVE NEW
EXPECTATIONS...**

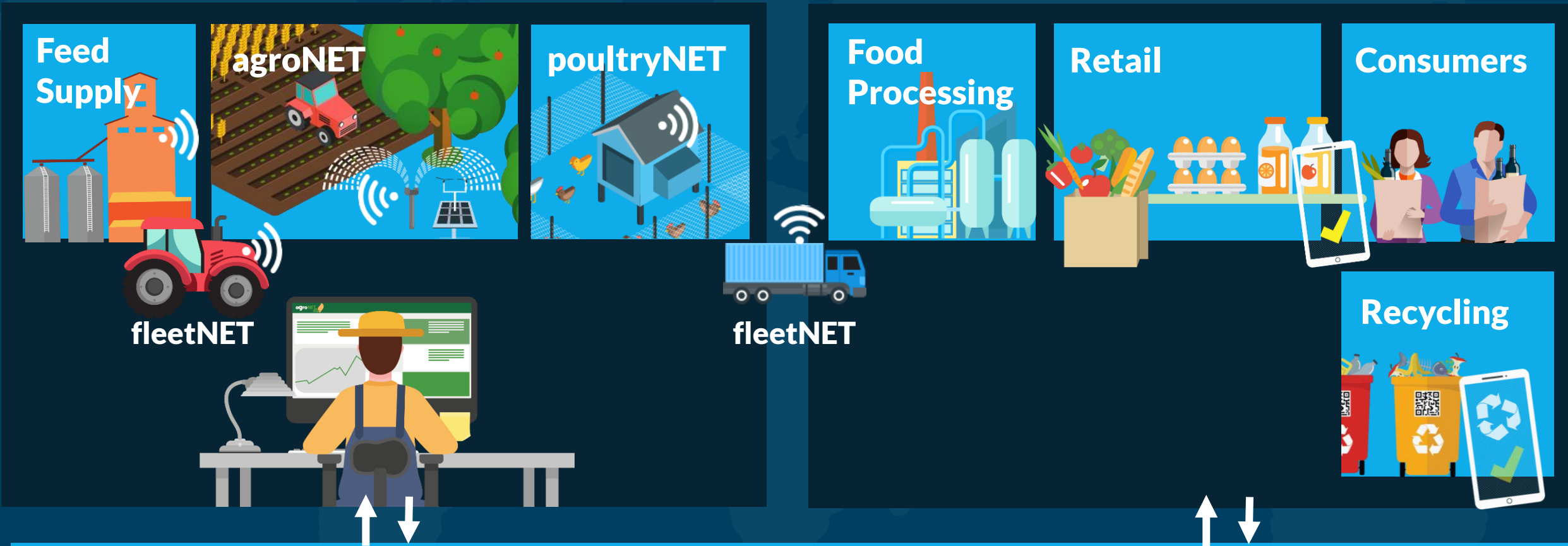
**...AS WELL AS
SUPPLY CHAIN
STAKEHOLDERS.**



Transparency

Data = new fuel

From farm to fork, transparently.



PRODUCT PASSPORT

 Microsoft Azure

Blockchain





Interested in DEMETER

- * <https://h2020-demeter.eu/>
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- * Facebook = @H2020DEMETER
- * LinkedIn = <https://www.linkedin.com/company/h2020-demeter/>
- * Newsletter - <https://h2020-demeter.eu/Newsletter/>



Digital wine



Digital prosciutto



Digital “sarma”





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