Alliance for IoT
and Edge Computing
Innovation

AIOTI AWARD 2023 – 10/10/2023

Implementation of the data-driven IoT NADIA platform to unlock the agrifood potential

AnySolution

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Background and Aims

Main Aims

IoT → Edge + ML → AI + Data Space

Data gathering & analysis. Improve decision-making mechanisms

01

Efficiency

02

Sustainability

03

AIOTI

2014
SOULFI-FIWARE
SMARTLOCK

2014-2025
IoT for buildings efficiency

2016-2018
- CREATE-IoT project

2020-2023
PLOUTOS project

2021-2022
CPS4AGRI

2017
AnySolution became AIOTI member

DATA SPACES

2022-2025
TANGO project

2022-2023
- DATES project

2022-2026
- Data4Food Project

2022-2026
Spade project

2022-2025
Quantifarm

NADIA's main objective is to collect information from all kind of devices, analyse that information **using AI** and display it in a simple (and personalised) way so that any user can improve their decision making. NADIA promotes **efficiencies** which imply a cost and resources use reduction, improving **sustainability, productivity and competitiveness.**
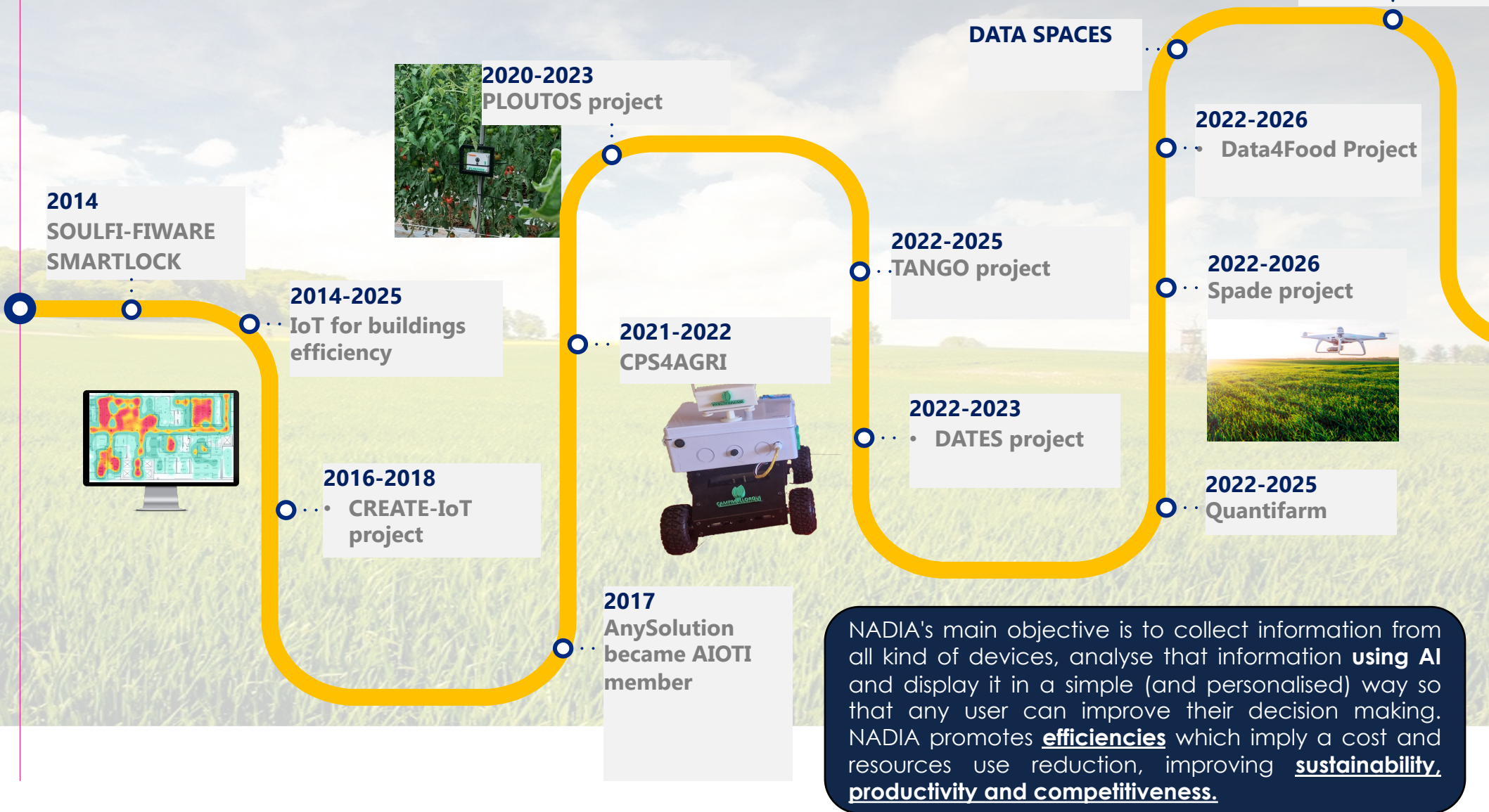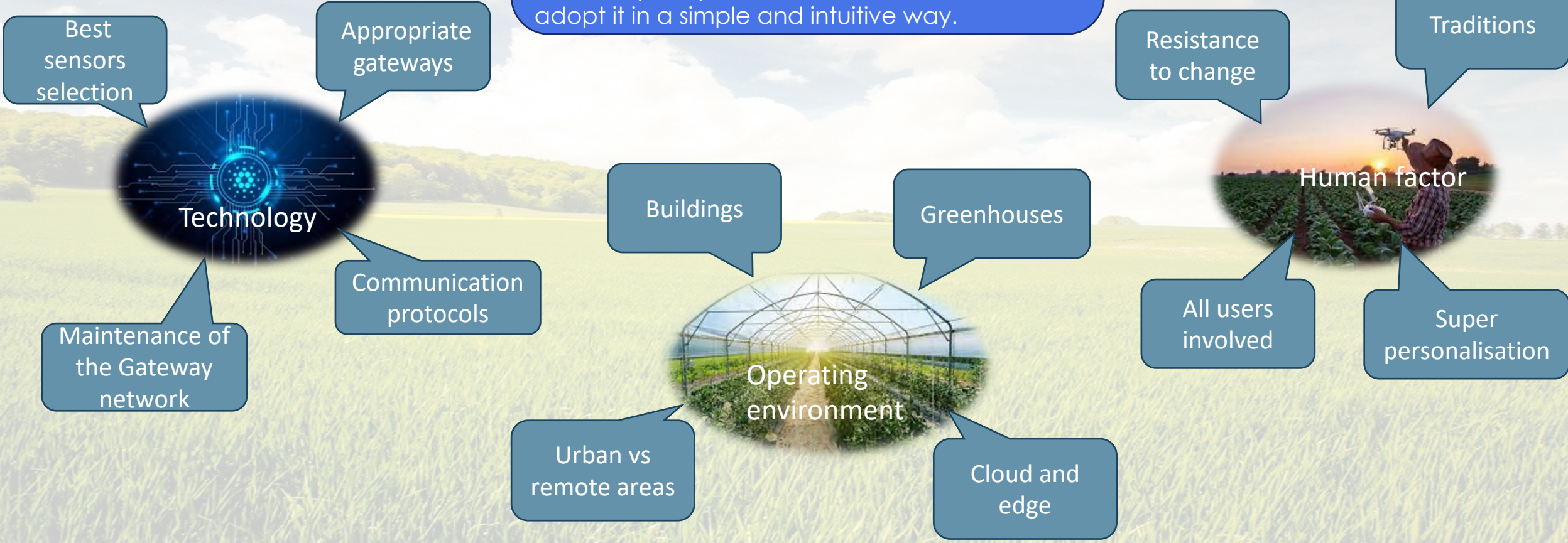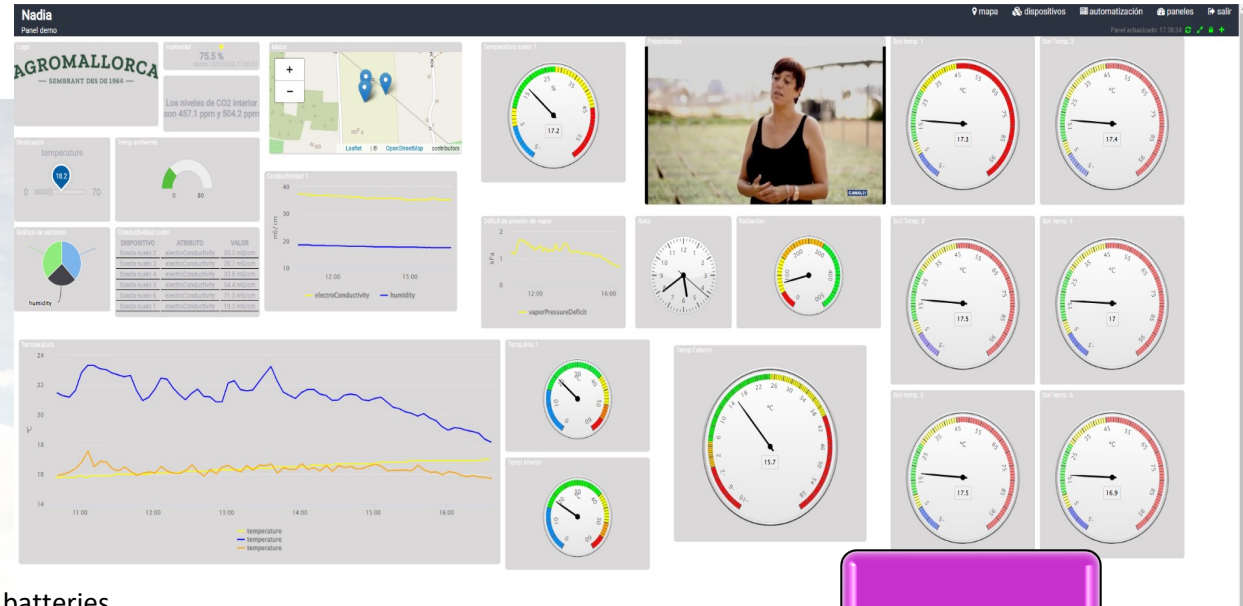
Challenges

NADIA was born and developed to bridge the technological gap between the disruptive technologies and the end users.

Along this pathway many challenges had to be faced to provide the platform with the necessary capabilities for the end users to adopt it in a simple and intuitive way.

Best sensors selection

Appropriate gateways

Resistance to change

Traditions

Technology

Communication protocols

Maintenance of the Gateway network

Buildings

Greenhouses

Human factor

Operating environment

All users involved

Super personalisation

Urban vs remote areas

Cloud and edge

AI⊛TI

Interoperability

Synergies

Data management

Solution or methods

Scalable and interoperable

Modular solution

Allows to incorporate new technologies

Context Broker

NGSI-V2

KeyRock

For the deployment of NADIA in the Edge, versatile, economical and easily accessible hardware solutions have always been used. Plug and play

The gateways have been provided with a wifi connection interface

The frequency of data collection from the sensors and their local storage, and also this interface facilitates the configuration of the device within NADIA automatically, allowing the device to be configured remotely on the platform itself

Benefits or results

Interoperable and scalable
- Large number of communication protocols
- Local configuration of devices: plug and play

Wide range of communication networks
- Urban environments: GSM and WIFI
- Remore areas: LoraWAN

Sustainability
- Solar Energy for batteries
- Resources reduction: water, fertilisers…

Highly configurable interface
- Highly personalised dashboards
- Visual and useful

Powerful alarm system
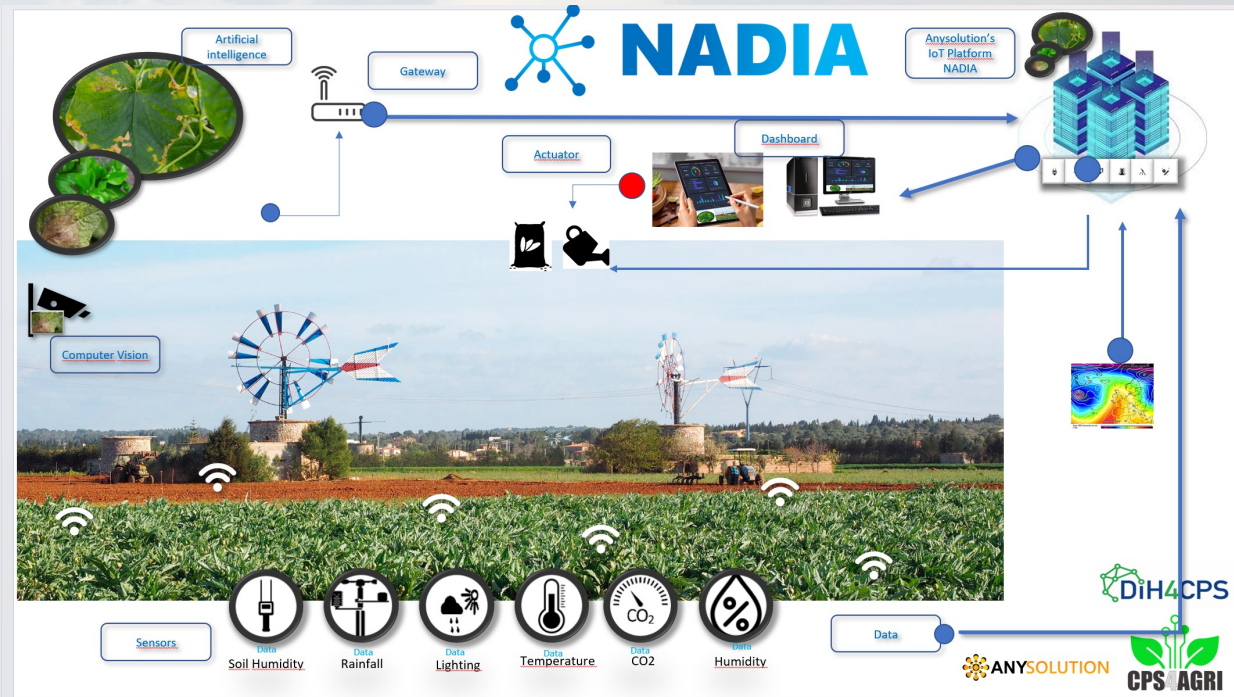- Through the dashboard
- Messaging

Easy to use

Fast ROI

Flexibility

Conclusions

European Projects and collaboration with entities in the framework of AIOTI allows us to keep up to date with the latest developments, which is fundamental to be able to remain competitive.

The world is becoming more and more connected, **and IoT is the basis for new trends such as data spaces**. Data is fundamental to developing AI. AnySolution is leading the European tourism data space, so expect more pilots in these areas in the near future.

Thank you