

AIoT

Internet de las Cosas y el sector
agrario. Realidad y futuro.

<https://bisite.usal.es>

Juan Manuel Corchado
University of Salamanca - Spain



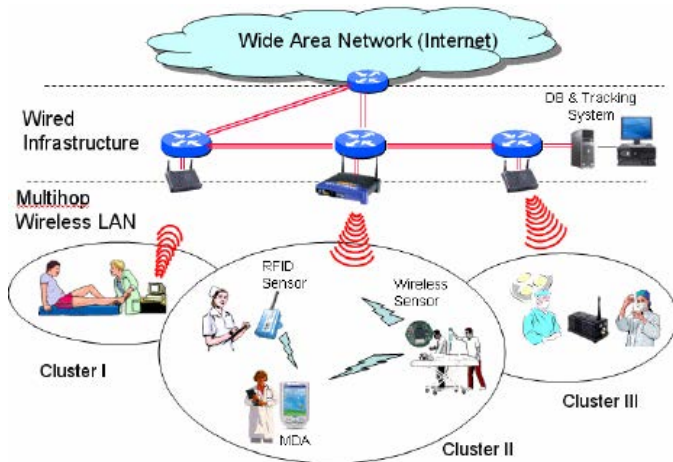


AIoT



<https://deepint.net>

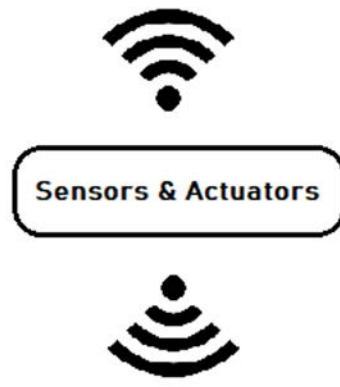
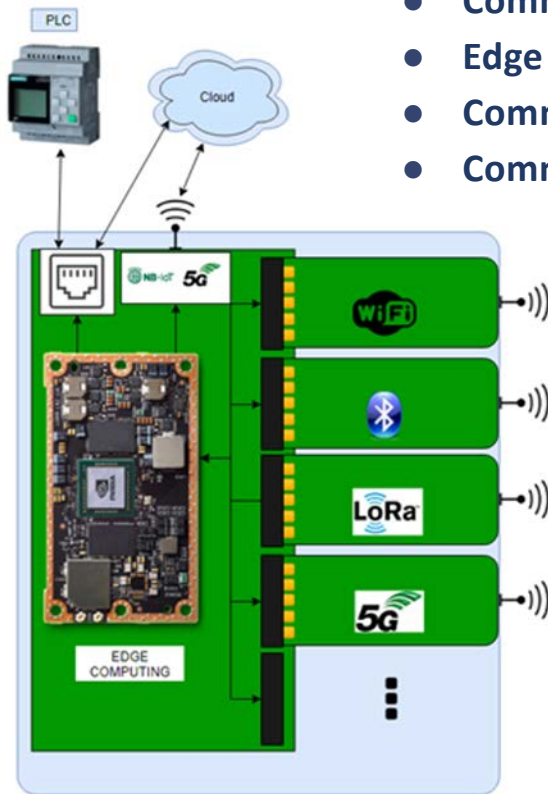
Wireless Sensor Networks (WSN)



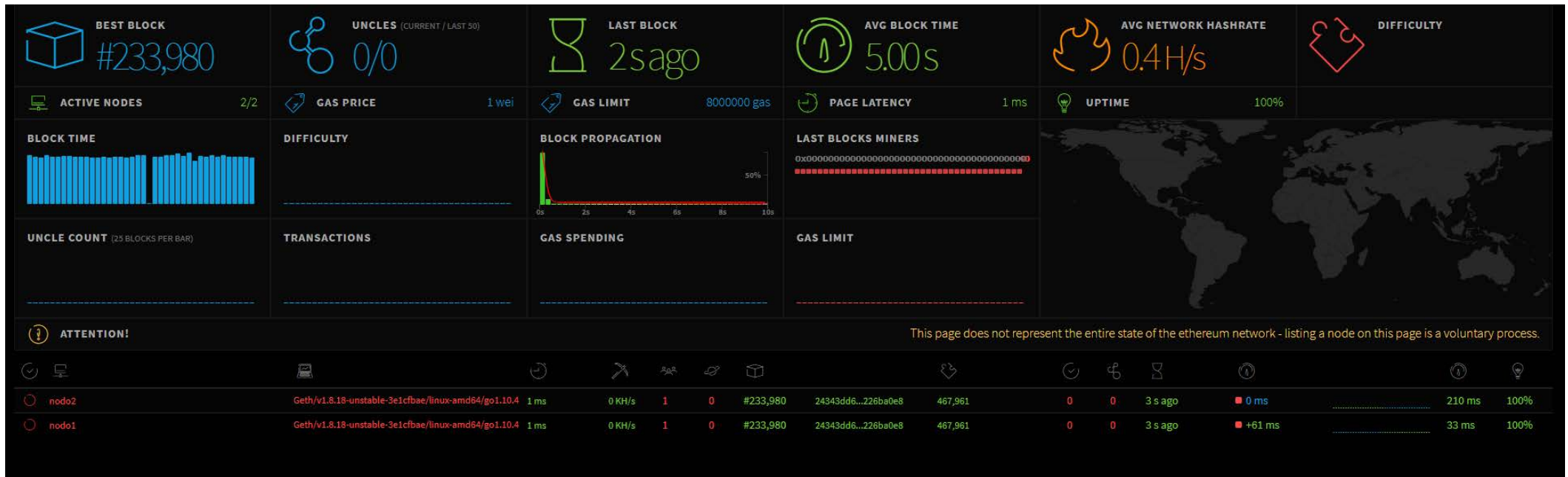
WSN common technologies

BISITE-PCB for EDGE computing

- Communication with sensors/actuators (WiFi, Bluetooth, LoRa...)
- Edge Computing with NVIDIA JETSON
- Communication with Cloud (Ethernet, 3G/4G, NB-IoT...)
- Communication with PLC (Ethernet/IP, ModBUS...)



trust - irrefutable proof - data integrity



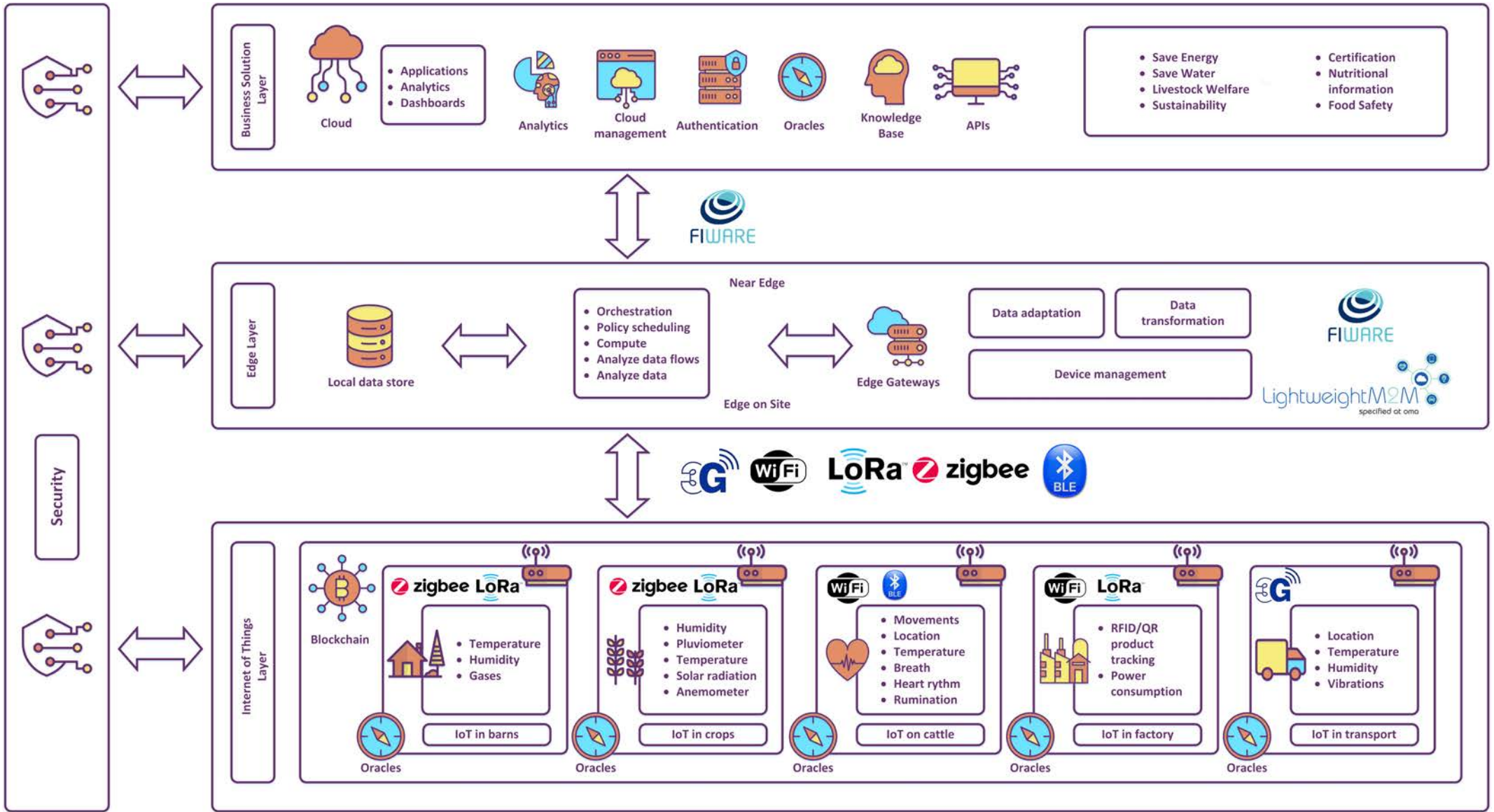


We must "listen" to our Reality.

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 RESEARCH GROUP
BISITE.usal.es



- Save Energy
- Save Water
- Livestock Welfare
- Sustainability
- Certification
- Nutritional information
- Food Safety



<https://deepint.net>

Deep int for AgroTech

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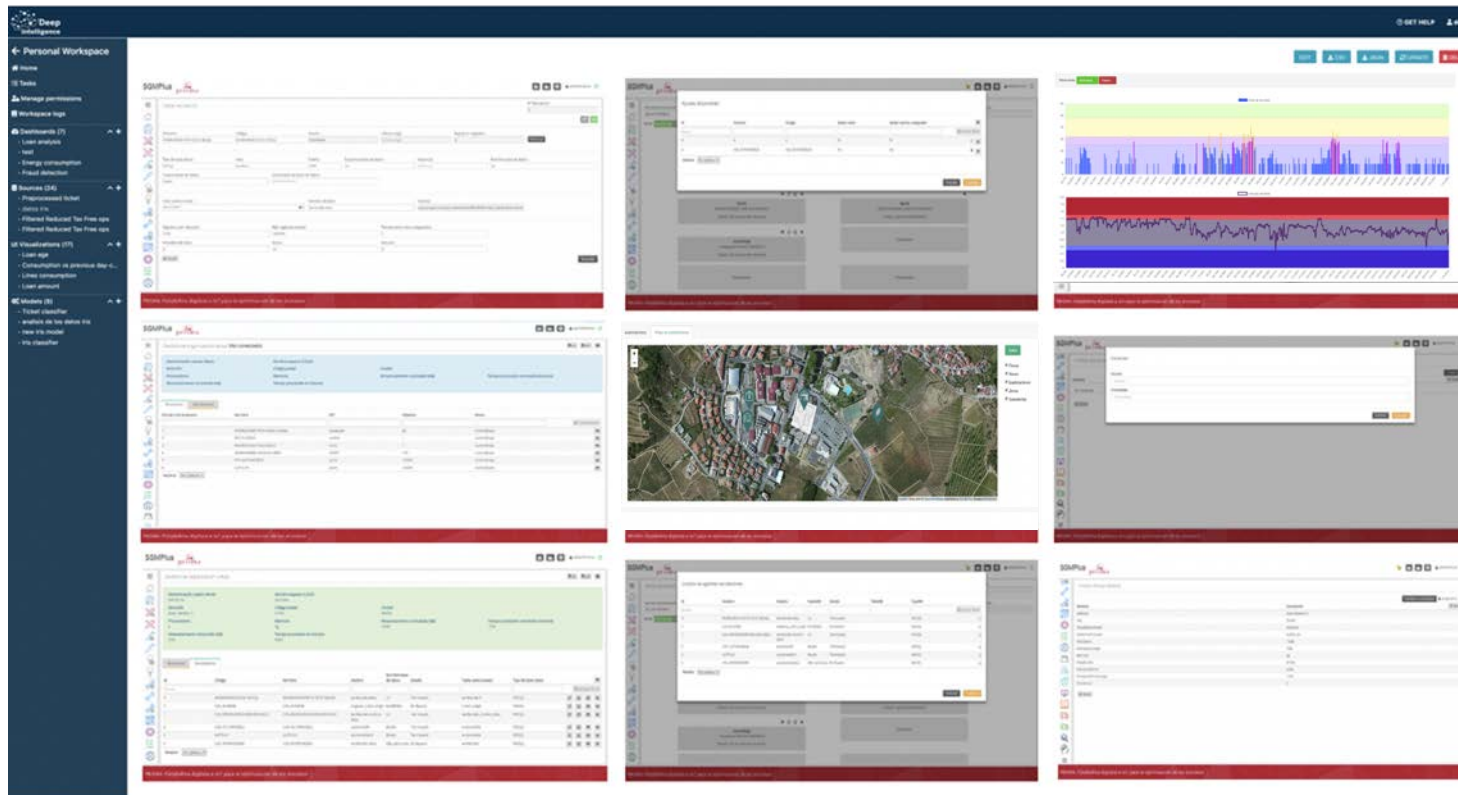
Username

Password

Sign Up

<https://deepint.net>

Deep Intelligence



Create data source

- Upload file**
Imports a data source from a file in your computer.
- Download from URL**
Imports a data source from an on-line file, given its URL.
- Import from database (Relational)**
Imports a data source from a relational database like MySQL, Oracle, etc.
- Import from database (Mongo)**
Imports a data source from a MongoDB collection.
- Filter existing source**
Apply a filter to an existing source. When the original source updates, this source will also update.
- Join two sources**
Join two data sources. When any of the parent sources update, this source will also update.
- Real time (Pub/Sub)**
Imports a data source from a real-time publish-subscribe messages queue.
- From library**
Imports a data source from our common sources library. You can find multiple sources useful for testing and learning.

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User



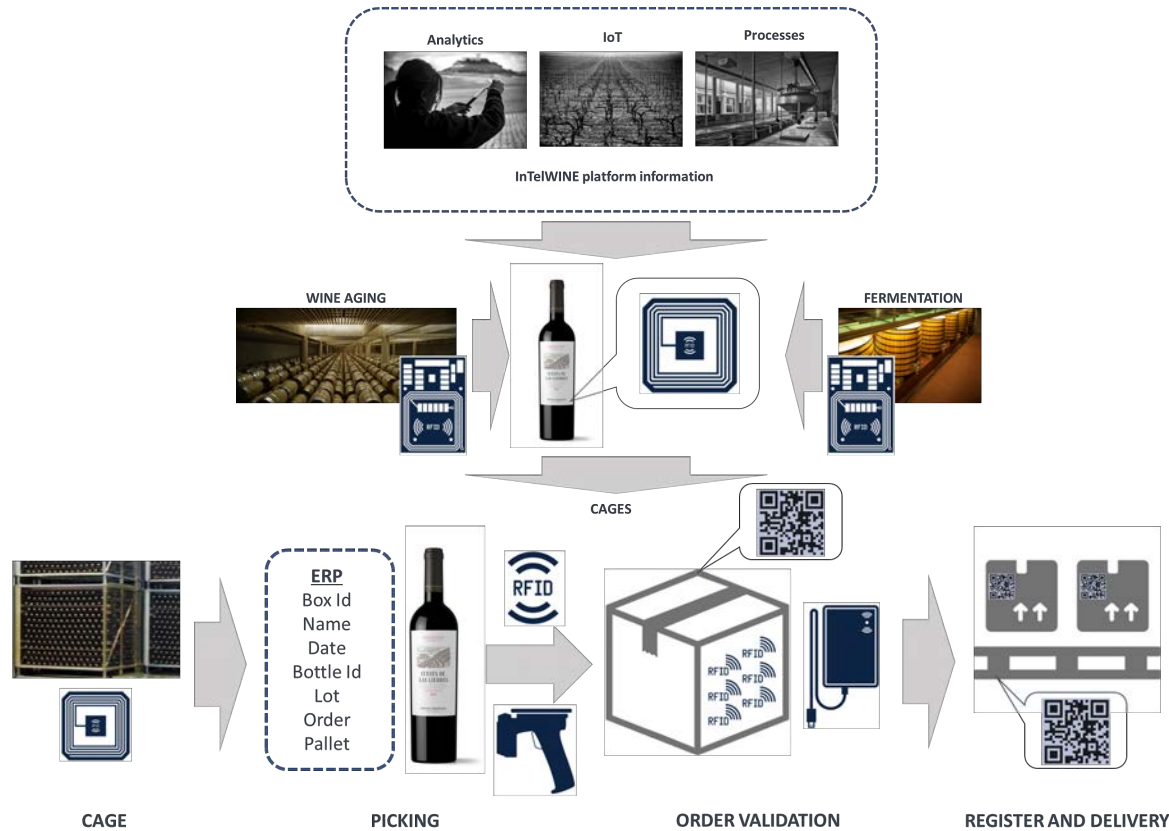
Cost



Connectivity

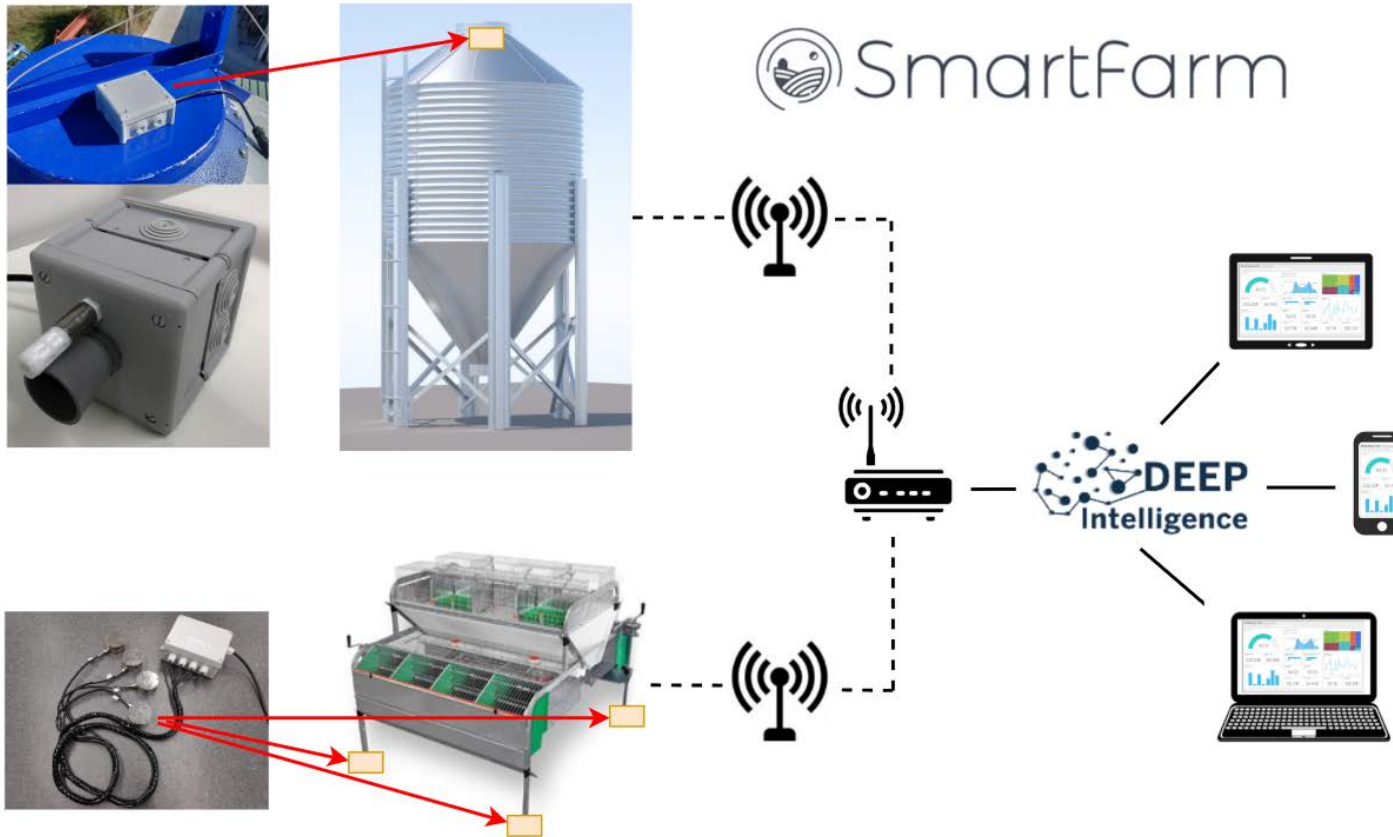


InTelWINE

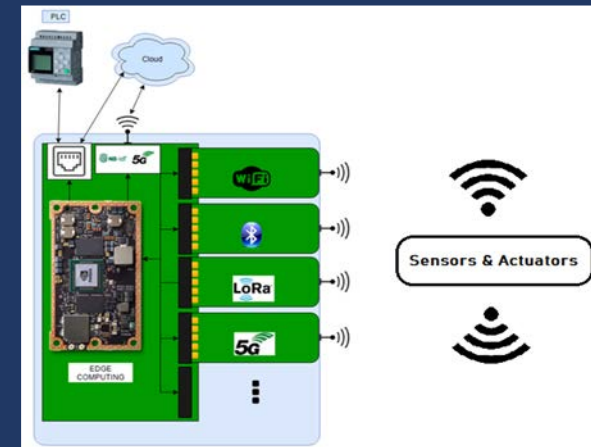


Research into new precision viticulture and food safety techniques that incorporate hybrid algorithms of artificial intelligence and Deep Reinforcement Learning capable of homogenizing processes and transferring expert knowledge to a system that guarantees the quality and wholesomeness of the wine that reaches the consumer

SMARTFARM



Automatic filling and weight level monitoring system for livestock farms.

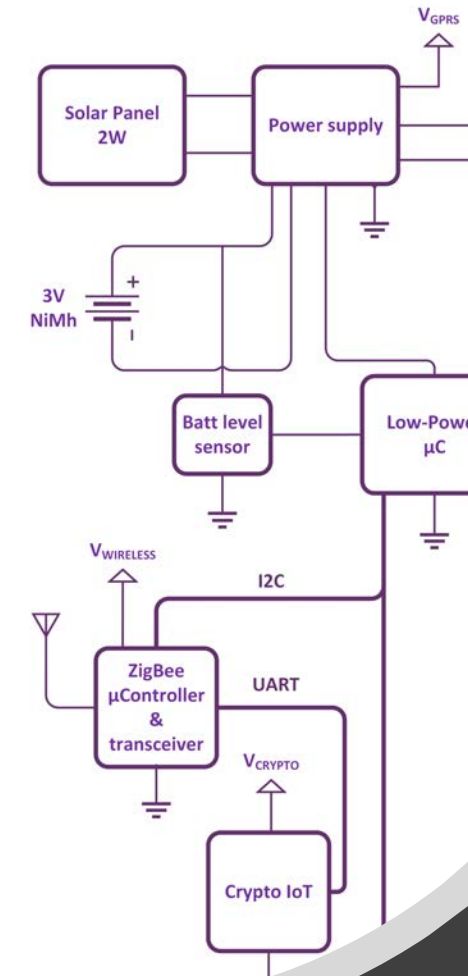


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Algunos de nuestros proyectos

- **SOSTVAN** - Estrategias tecnológicas para la mejora de la sostenibilidad del sector ganadero de vacas nodrizas.
- **WiForAgri 2021** - Smart Agriculture low-power IoT / Edge-Computing module.
- **RURAL-IOT** - Optimización de la producción agrícola y ganadera a través de soluciones inteligentes IoT.
- **MilkMeter** - Diseño y desarrollo de dispositivo de medición y control de rendimientos lecheros.
- **PROMIoTOR** - Low-Power Internet of Things and Artificial Intelligence for the sustainability of processes in Smart Farming.
- **CHAINWINES** - Investigación, desarrollo e implementación de una plataforma blockchain integral para vinos de alta gama, a lo largo de su ciclo de vida: de la viña a la mesa.
- **InTelWines** - Desarrollo e implementación de nuevas técnicas de inteligencia artificial para optimización de riego en viñedo y disminución de contenido en sulfitos en bodega.



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 Interreg
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 idiForest
innovation and emerging technologies for non-wood forest products