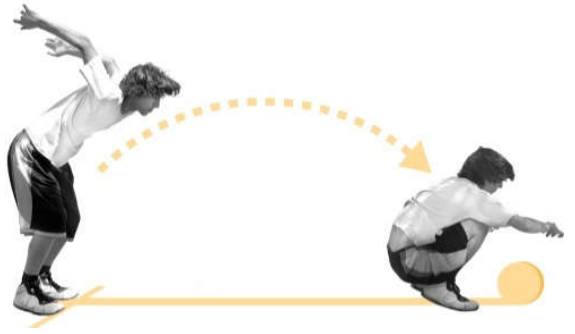
Odin
S
Let us invent Smart Solutions

Odin Solutions

Spin-off from the Universidad de Murcia (UMU) based on more than 7 years in the research and development on remote monitoring and sensor control systems

DIIC
Departamento de Ingeniería de la Información y las Comunicaciones

i@ Sistemas Inteligentes y Telemática



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Odin Solutions S.L.

Spin-off leveraging on IoT technology and different enablers developed over several years:

- Integration of heterogeneous sensors in a common IP-based gateways
  - KNX, HVAC, Deli, CAN, propietary alarms system, etc
  - 6LoWPAN support for new sensors
- SCADA web system for monitoring and actuation over sensors with an editor for defining interactions
- Results in the domotic, sensor fusion and the remote monitoring and operation on agricultural deployment

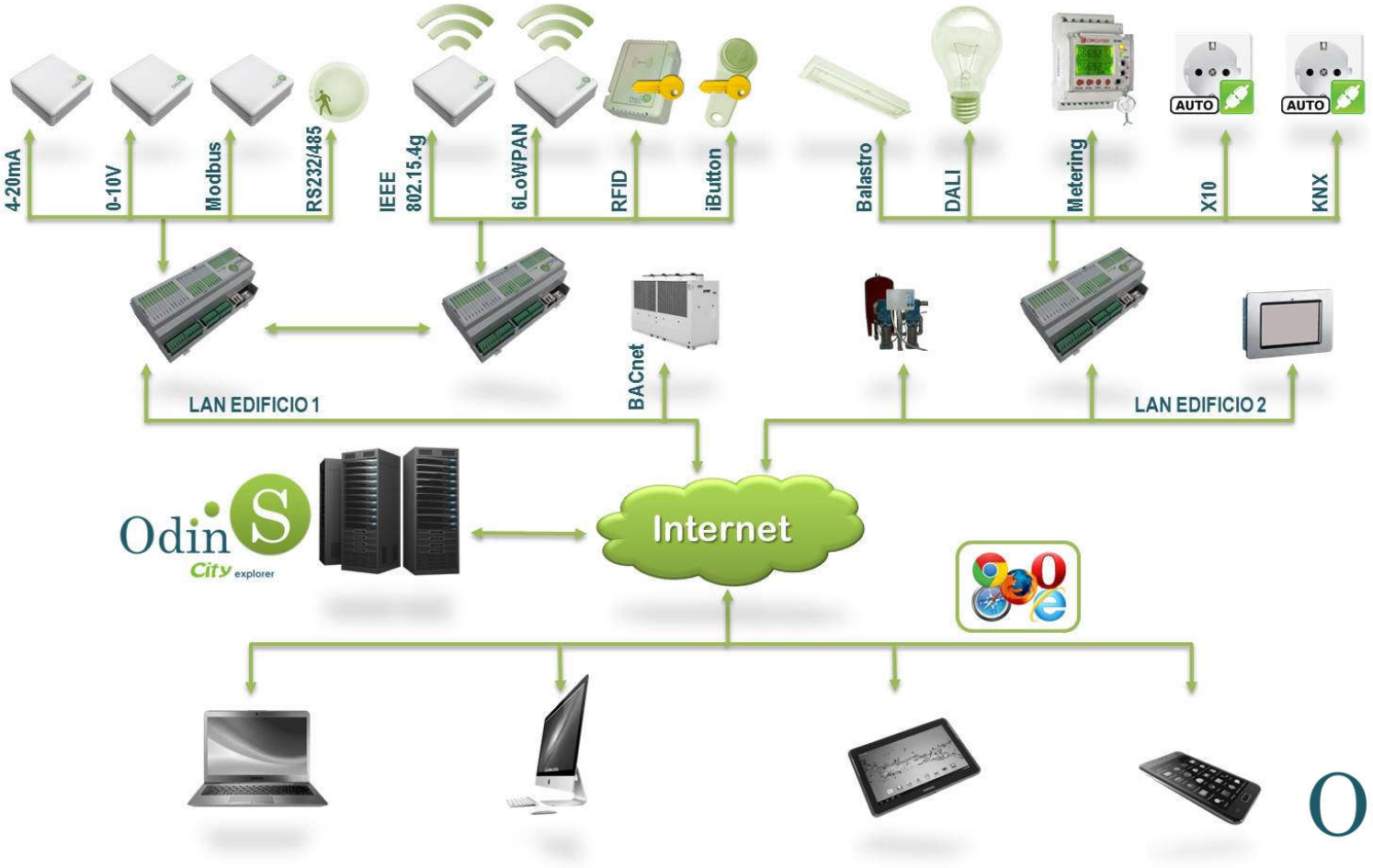
Impact of Technologies

- SMEs need to have an added value:
  - Take last technology: 6LoWPAN, LoRA, NB-IoT
  - Be compliant with SDOs follow standards
  - Offer advances solution to be different

- OdinS has been involved in several fora
  - FIWARE for the platform
  - ECSO for the security aspects and certification
  - AIOTI for IoT community
  - IoTForum
  - ETSI ISG-CIM
  - ...

Platform of Monitoring and Control

Cityexplorer



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Smart Buildings

- ✓ Integral Management
- ✓ Energy reduction

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Smart Infrastructures

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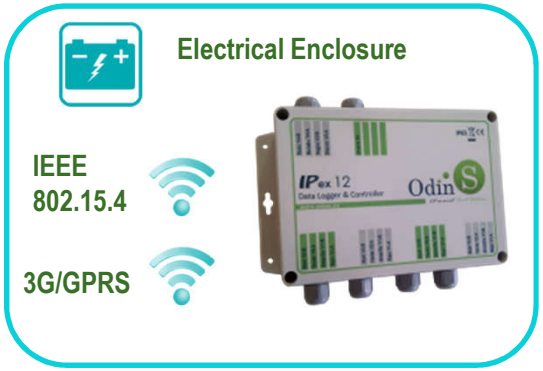
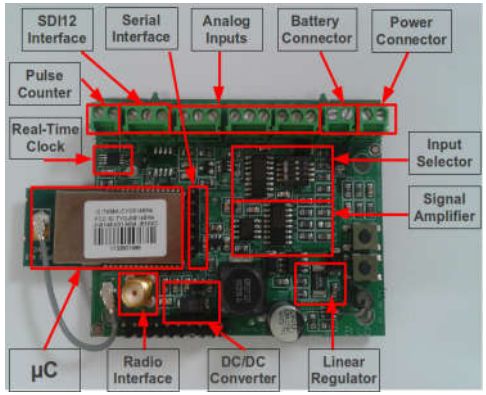
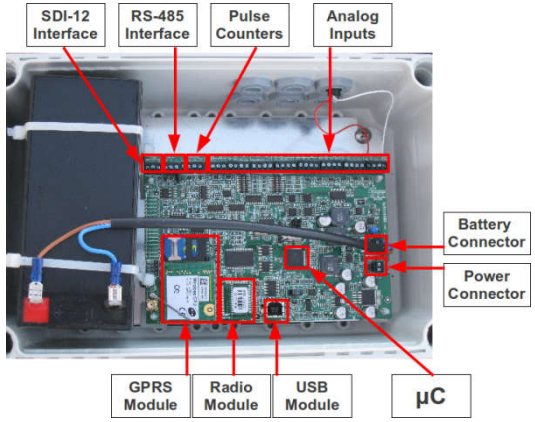
Country explorer



measuring air/soil/water temperatures

dielectric constant of the soil





Soil parameters

Water tension

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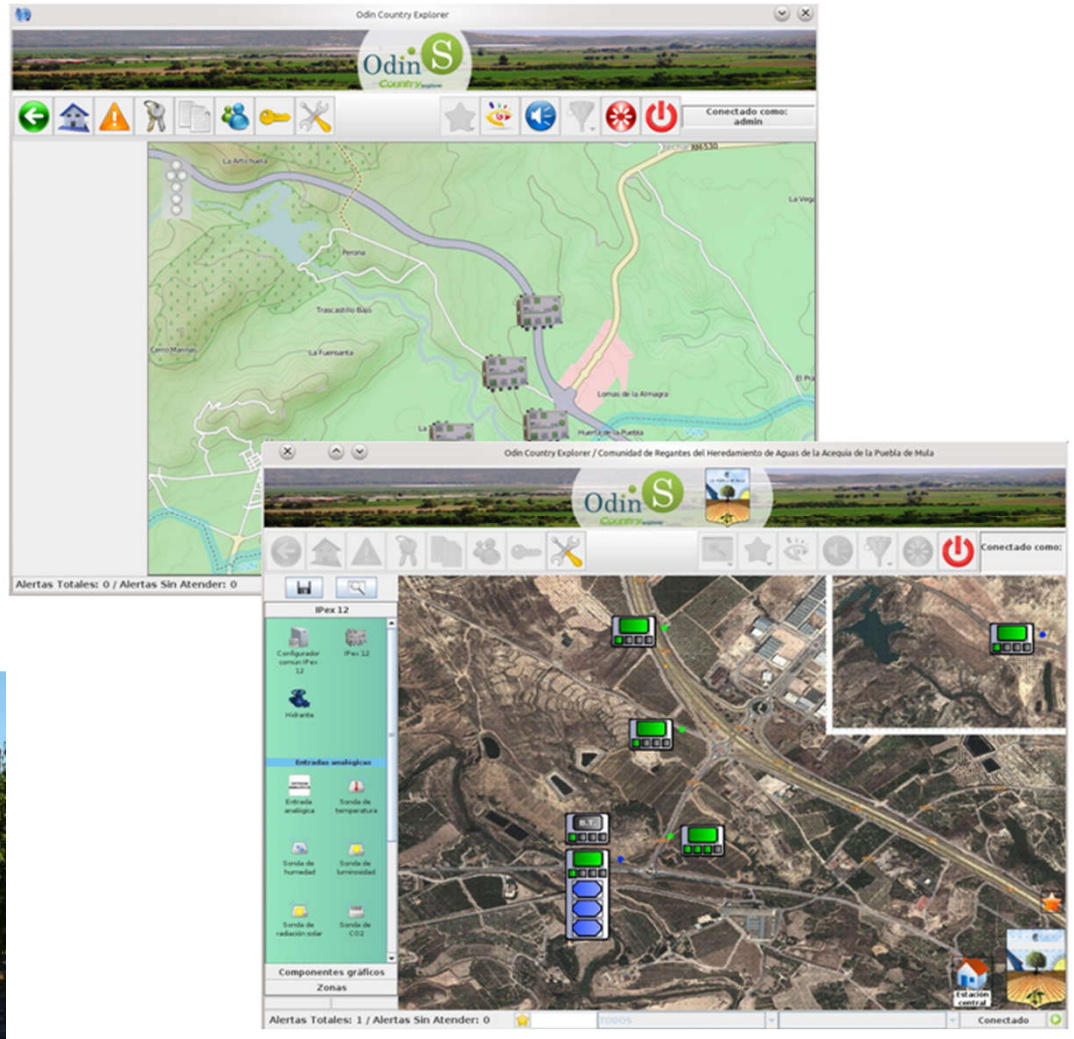
Deployment based on:

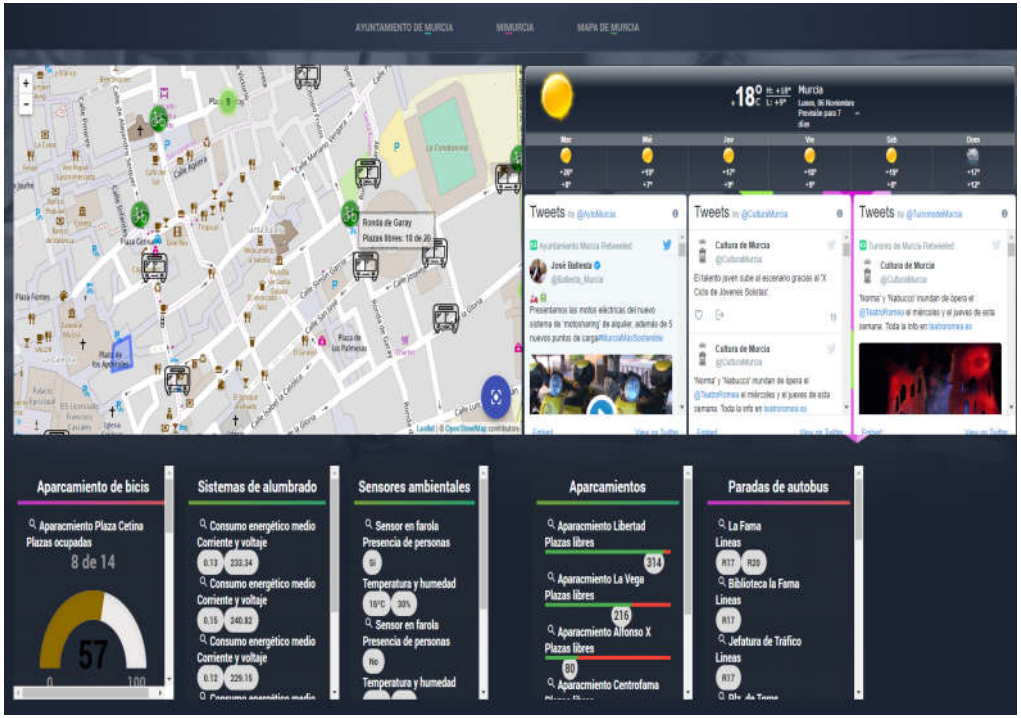
- SigFox
- LoRA
- NB-IoT

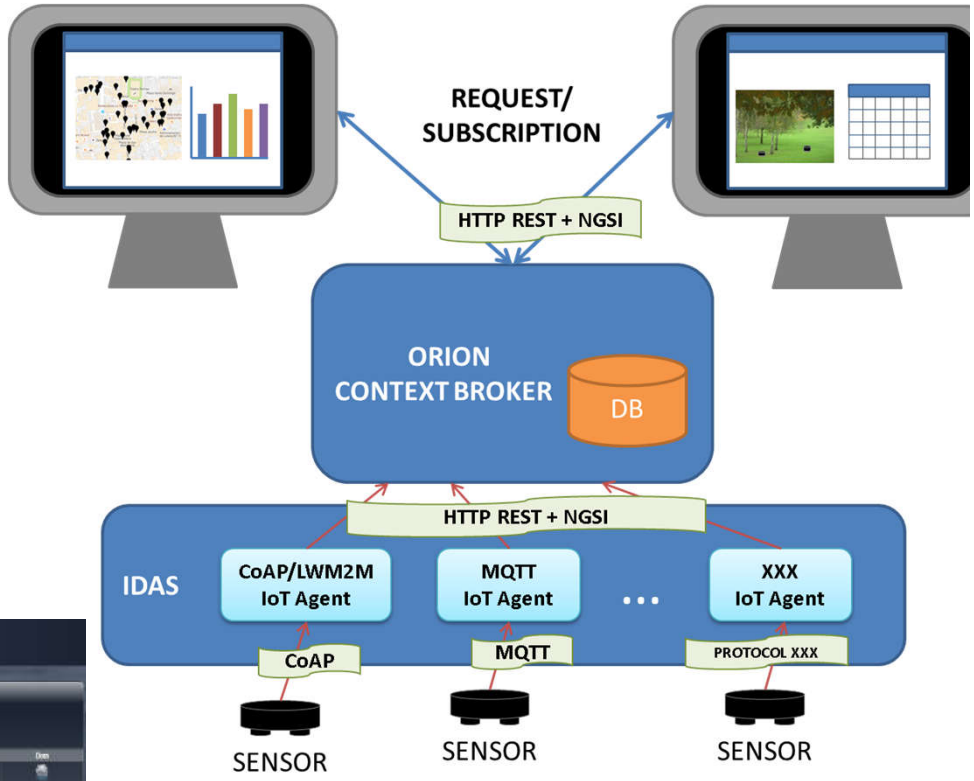
Irrigation Management and remote Monitoring

- ✓ Define periods and time of crops irrigation
- ✓ Incident Alerts
- ✓ Remote management of valves and infield devices
- ✓ Remote Water consumption counters

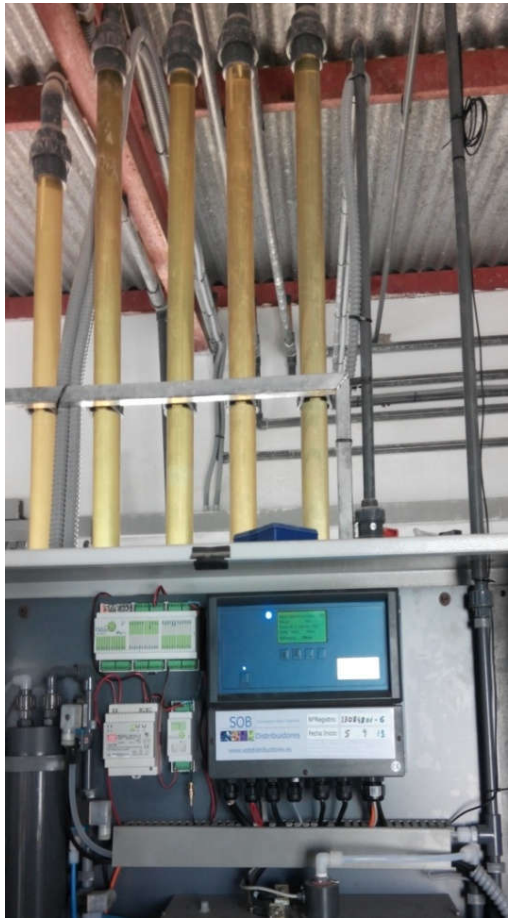


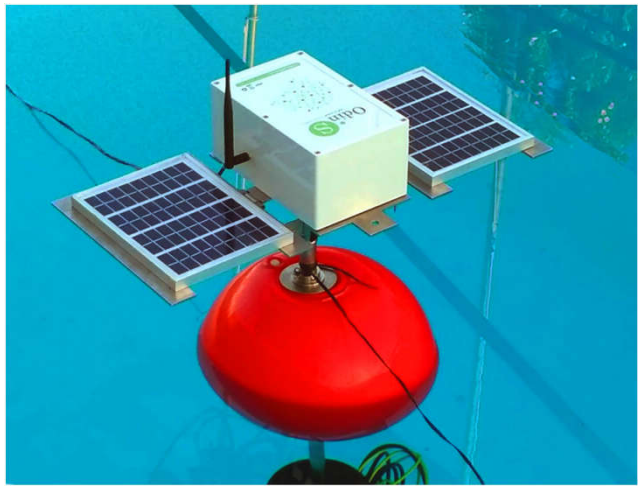
MurciaSmart City





Industrial Deployment





Conclusion

- Need to be aligned to SDO
- Integration of legacy system → interoperability
- New solution in classical sectors

- Deployment

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Smart ...
Smart city
Smart roads
Smart lighting
Smart buildings
Smart agriculture
Smart environment
Smart Solutions...
Thank you!