



We make it real

ikOR

SPAIN
MEXICO
CHINA

CONNECT GROUP
INTEGRATED SUBCONTRACTORS

Global company, local approach

3 production sites. **ONE IKOR**

Wherever you need us.



Spain



Mexico



China

S P A I N
M E X I C O
C H I N A

Always by your side

Our production sites are located in strategic areas such as Spain, Mexico and China.

The 3 facilities are aligned within the same strategy, processes and global procedures, to give you a single and unique experience of quality, proximity and reliability throughout our entire relationship.

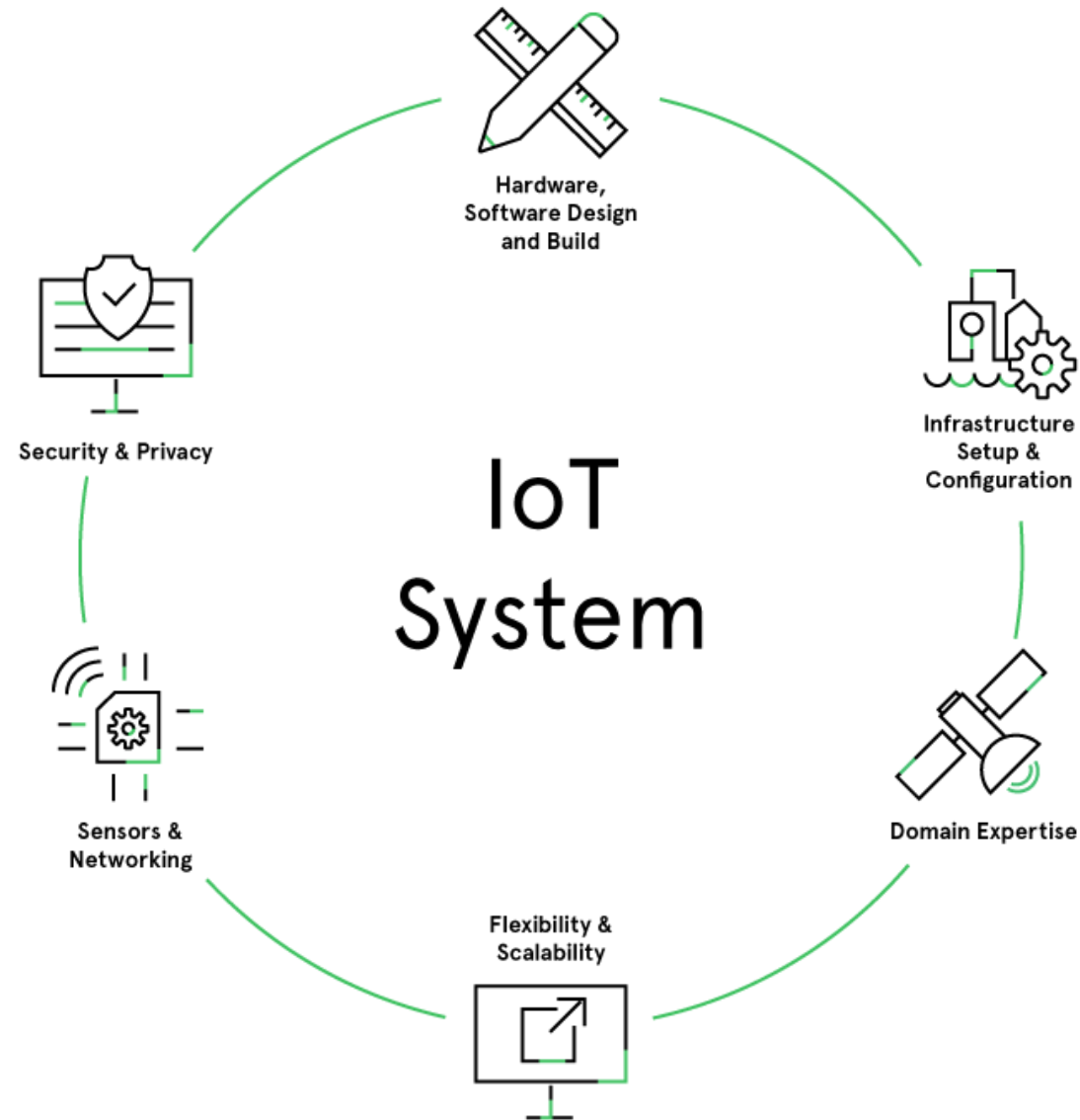
Closeness coupled with support for your development and manufacturing processes.

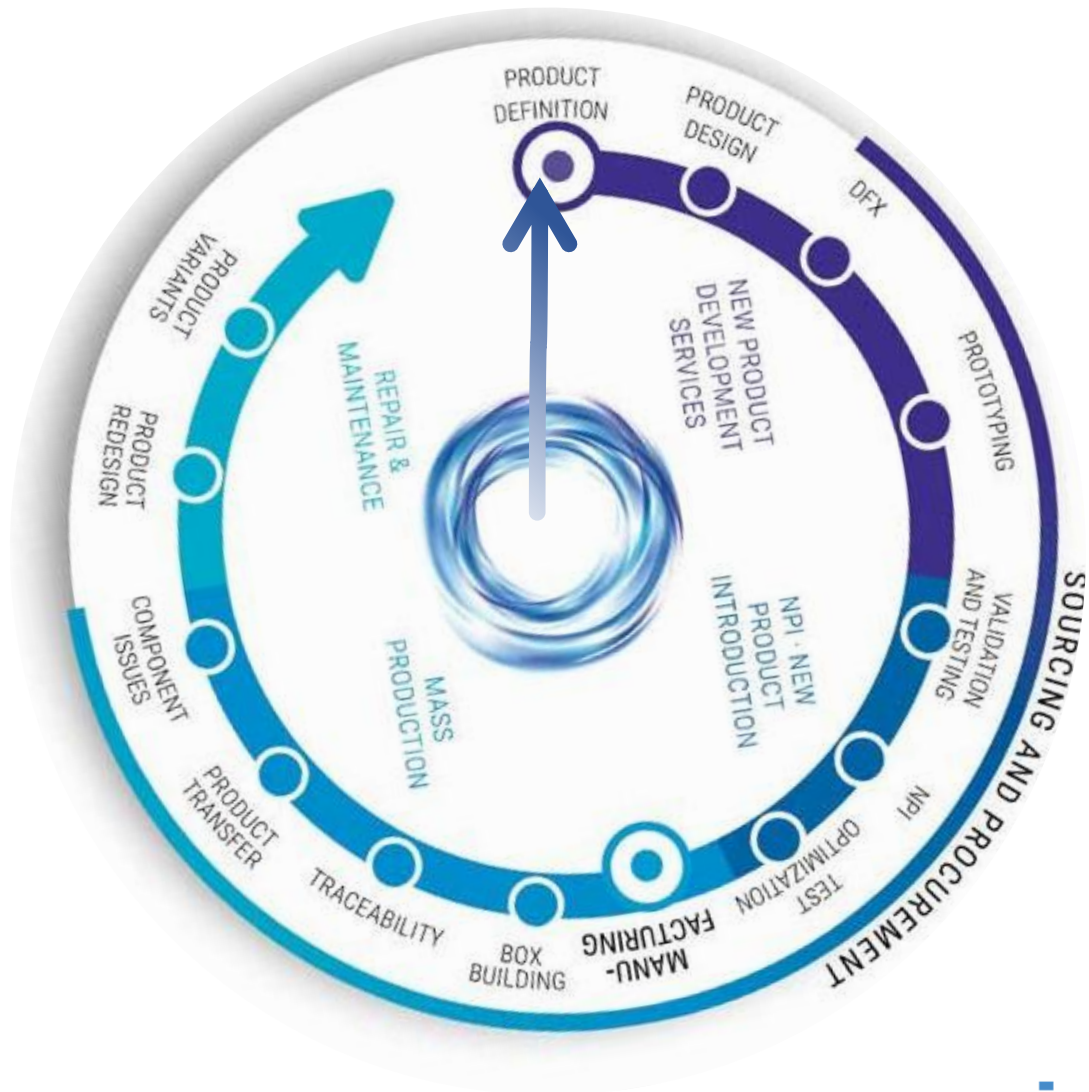
Our global production capabilities and our ability to transfer production ensures not only the optimal total cost but also the integrity and consistency in the quality of our service, regardless of the manufacturing site you work with: Spain, Mexico or China.

ONE IKOR. ONE TEAM. ONE COMPANY



A **CONNECT GROUP** company
INTEGRATED SUBCONTRACTORS





- P Product definition
- P Product conceptual design
- D Design check for excellence
- P Prototype
- V Verification & Testing
- T Transfer to production
- B Box building
- T Traceability

4.0 customizable HW...



4.0 Sensor box



4.0 Industrial collector/Gateway

- IOT - Technology selection
 - ✓ LoRA
 - ✓ ZigBee
 - ✓ Wi-Fi 802.11 b / g / n
 - ✓ Bluetooth - Low Energy
- 1x 100Mbps RJ45 Ethernet port
- 1x RS-485 with Galvanic isolation (Modbus RTU)
- 5x I2C digital connector
- RTC
- Hardware-based security implemented TPM 2.0

- LTE / 2G / 3G / 4G (3GPP Modem) MicroSIM holder
- IOT - Technology selection
 - ✓ ...
- GPS Glonass
- 1x 100Mbps RJ45 Ethernet port
- 2x RS-485 with Galvanic isolation (Modbus RTU)
- 5x I2C digital connector
- Hardware-based security implemented TPM 2.0 (Trusted Platform Module; highest level of security).

At the forefront of technology...

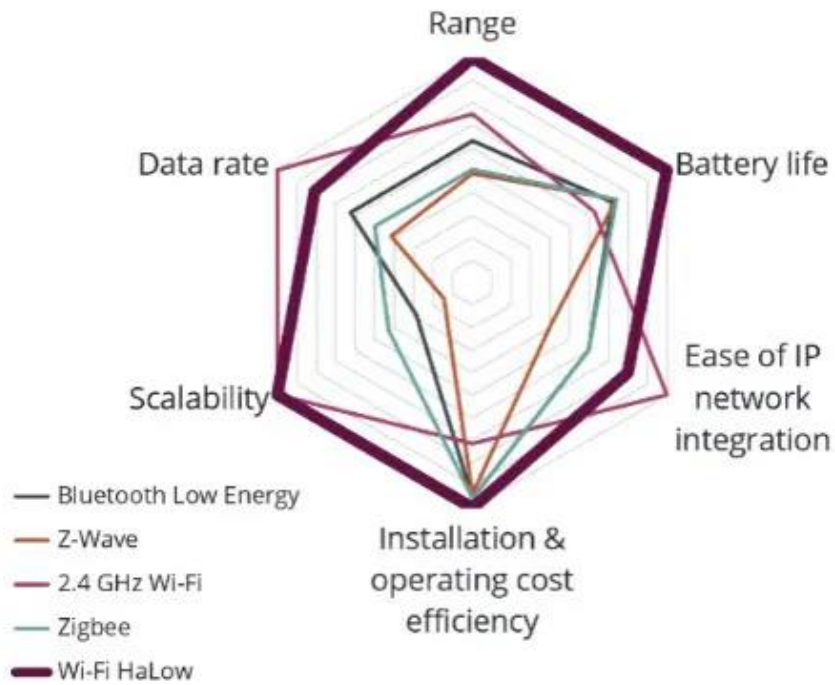
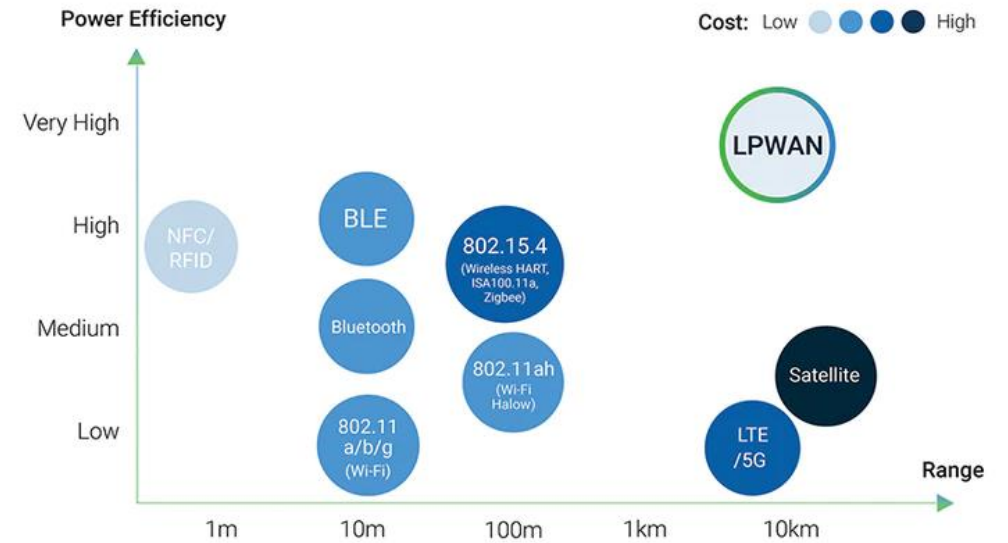
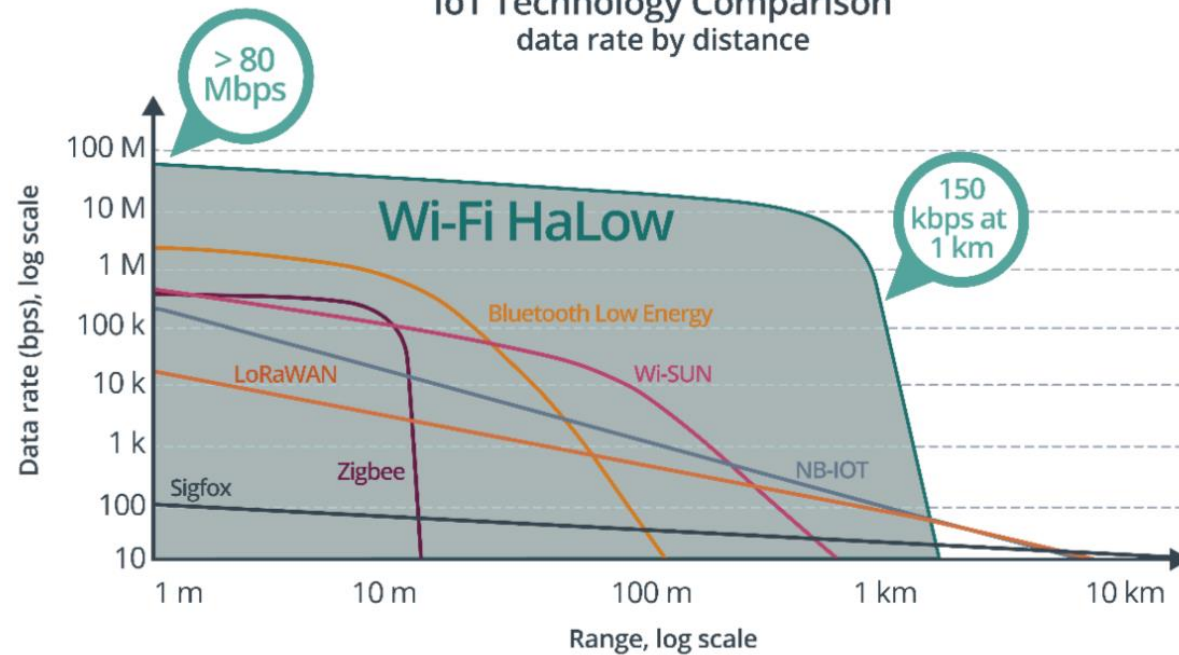


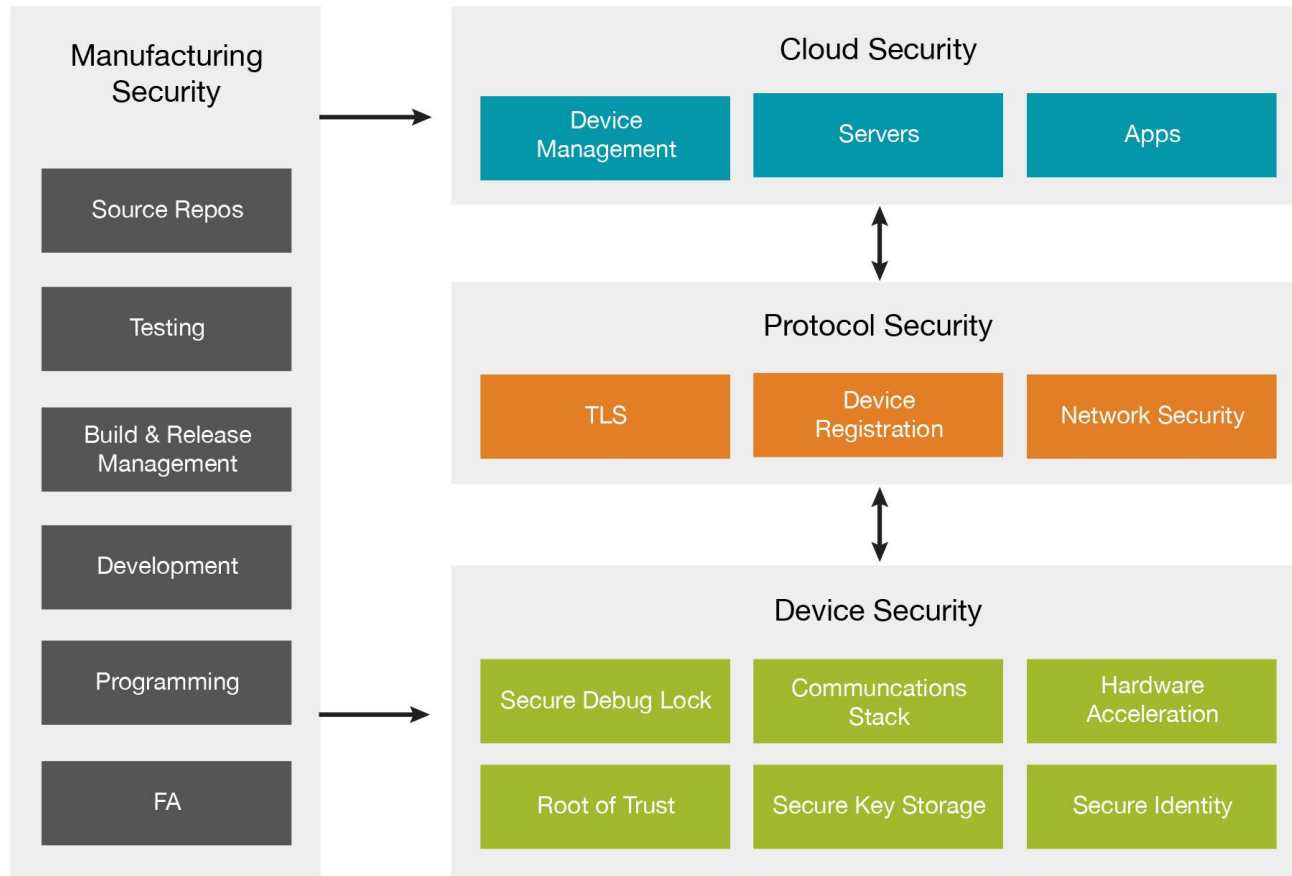
Figure 5. Wi-Fi HaLow meets most needs when compared to other IoT technology options.



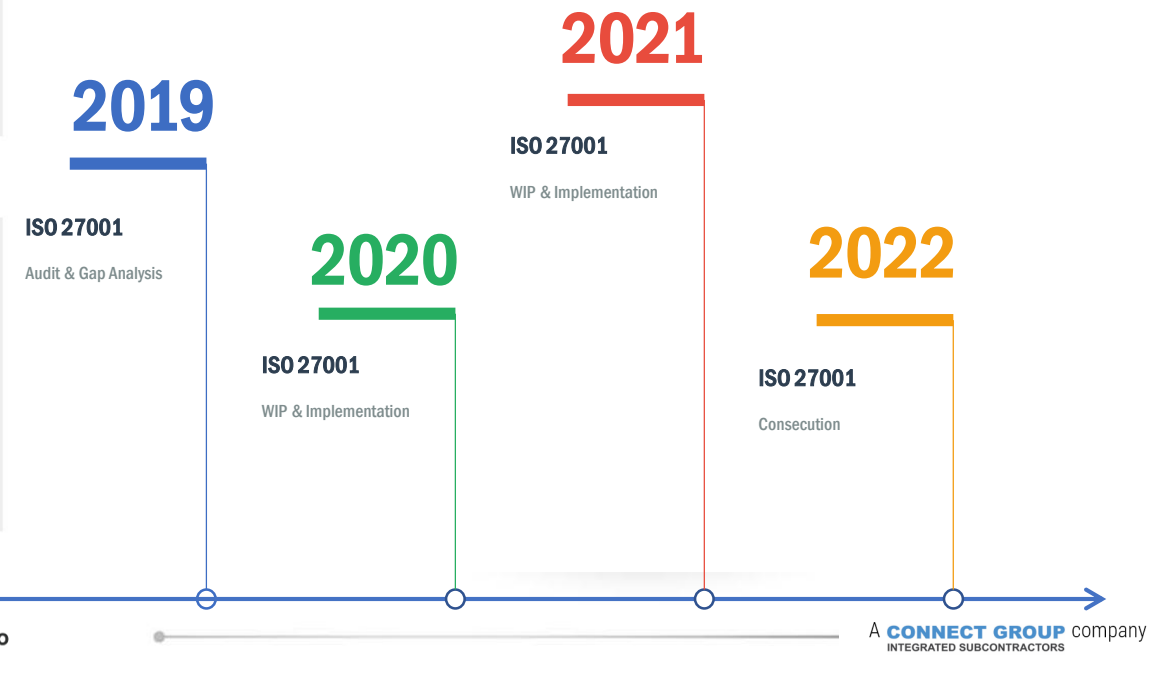
IoT Technology Comparison data rate by distance

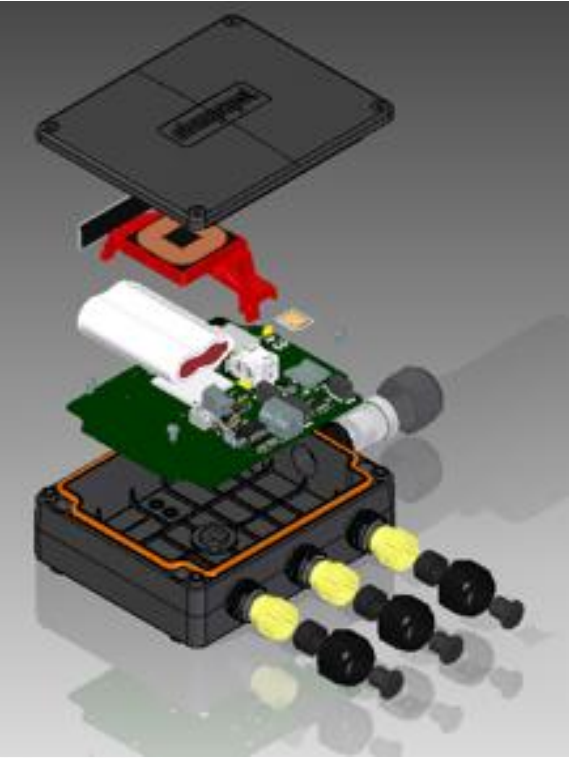
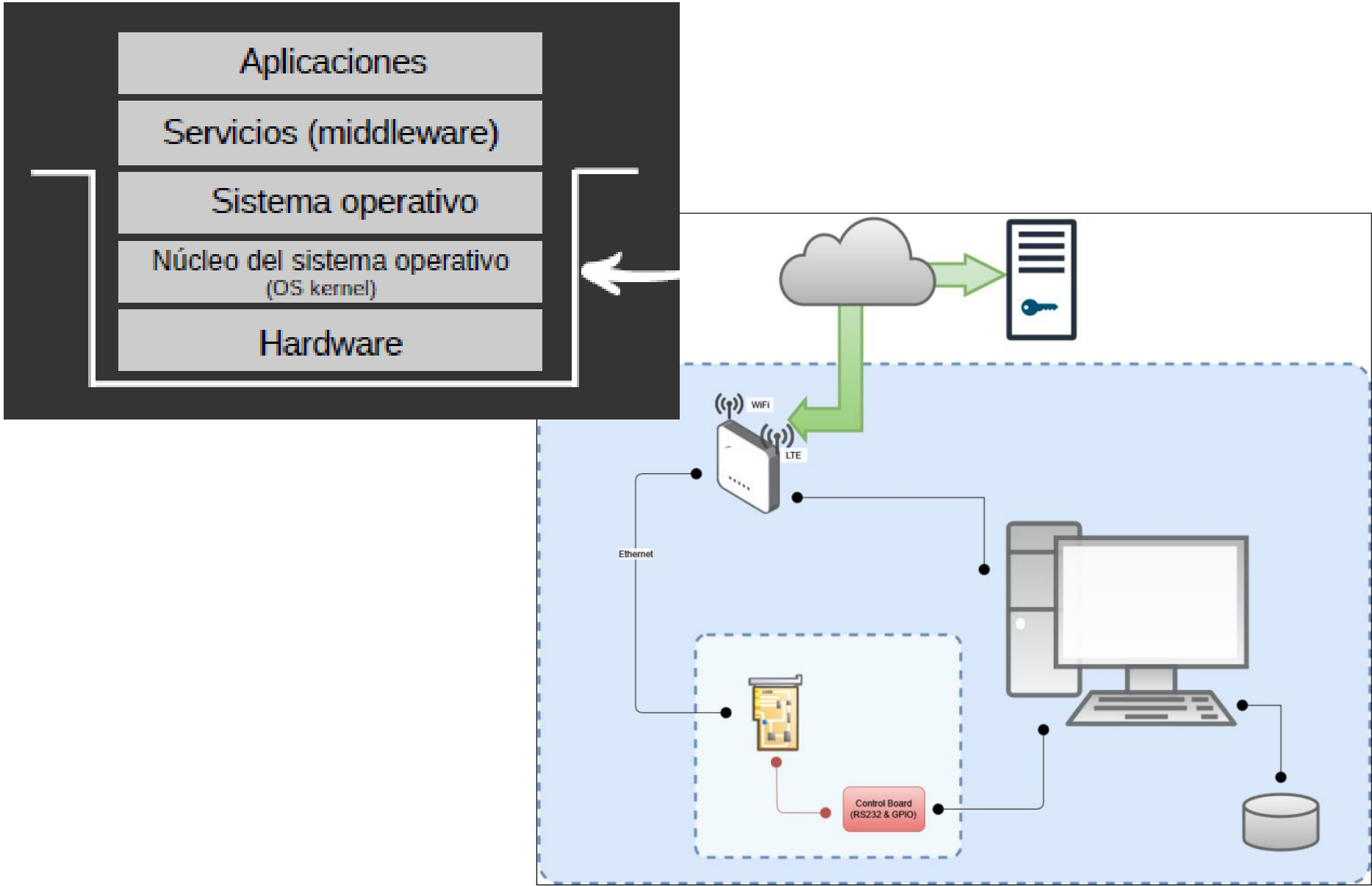


Aware of the hazards and alert...



Roadmap of certification







INDUSTRIAL

The advantage of being part of a powerful industrial group...

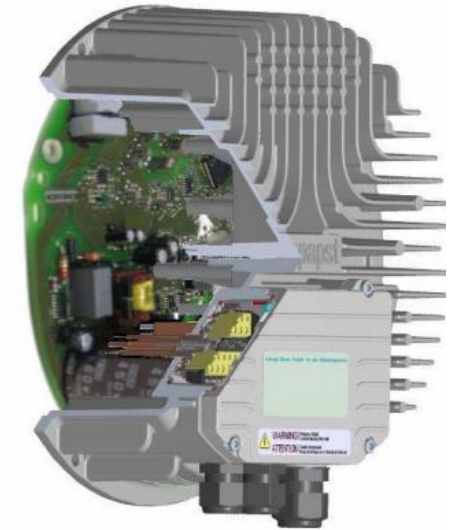
PROJECT DESCRIPTION

Ebm staff of design possess a wealth of knowledge and experience focused to developing cutting Edge equipment, from sub-assemblies to complete product ranges for its customers.

Design and electrical engineers advance the concept into a packaged air moving device incorporating sheet metal, fan controls, handlers, filters, gaskets and more. The design engineers utilize the latest design & simulation software to create a viable and cost-effective value-added solution. Close collaboration with customers enables all stages of the prototype design to be optimized until the final build of the product.

THE CHALLENGE

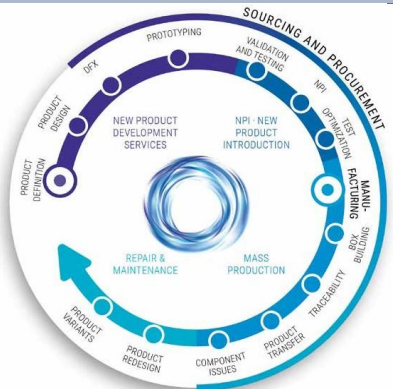
- Tandem collaboration between both companies engineers to ensure that the most innovative and energy efficient electronics is applied into the company air movement components.
- Leverage the integration of such components into industrial an/or building automation with the help of the IoT and industrial protocols expertise of Ikor's team of engineers.
- Join forces when industrializing to face the market with the most competitive product for its performance.



CUSTOMER PRODUCT

REQUESTED SERVICES

- Technological Roadmap in electronics
- Interim & bi-directional technical support (continuous over the time)
- Electronic development and Validation
- Prototyping, Industrialization and Mass production
- Laboratory testing & Certification



IKOR SERVICE MAP



Striving to unveil the 4.0 potential in our customers...

PROJECT DESCRIPTION

Customer is a cooling equipment rental company. One of their day-to-day challenges is monitor and overhaul their fleet and face claims from customers with damaged goods.

Customer researched a cooling control that could boost them into the IoT world and provide them mechanisms to identify misuse and provide them tools to deliver a better service.

Ikor Technology Center took advantage of its cooling control and IoT background to provide a turnkey solution that meet Petit Forestier Requests.

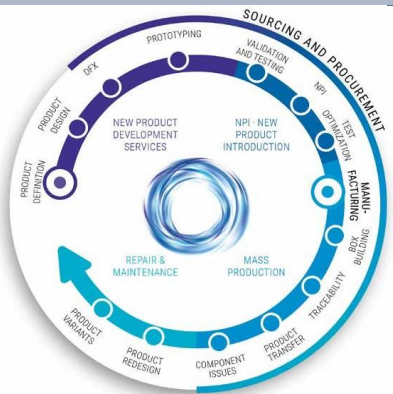
THE CHALLENGE

- Embed a cooling control and a Wifi, Bluetooth and Ethernet enabled IoT system in the industrial standard profile.
- Guarantee data reporting in an uncertain use case scenario.
- Implement a cutting-edge cooling control system based in 8 temperature probes that helps to identify bad use and report alarms.


CUSTOMER PRODUCT

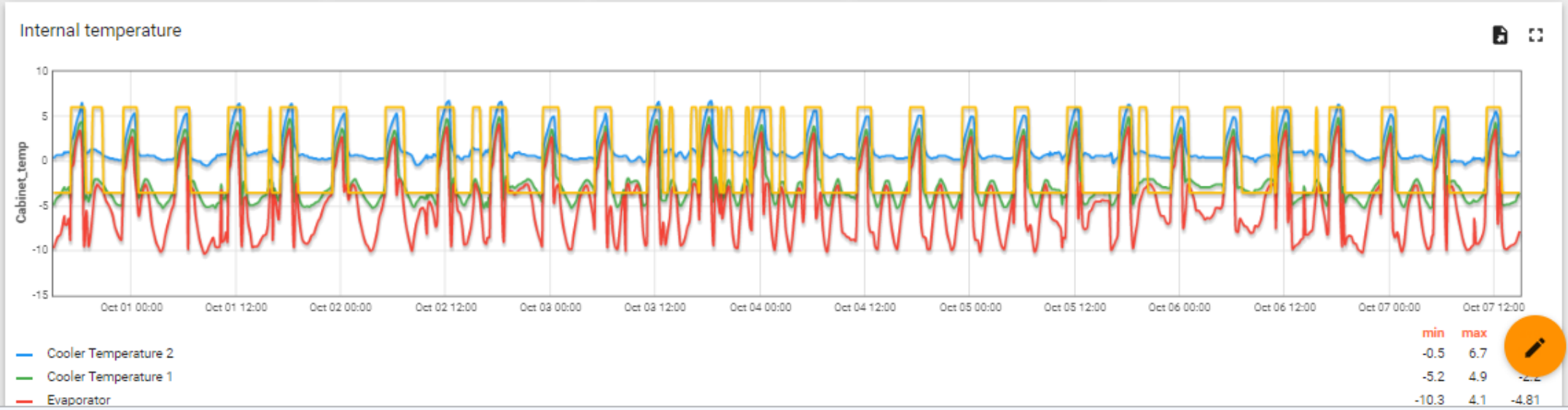
REQUESTED SERVICES

- Technological Roadmap in electronics
- Electronic development and Validation
- Prototyping, Industrialization and Mass production
- Secured end to end communications
- Cloud services and data analytics
- After Sales support (product failure analysis)



- HOME
- ROLES
- CUSTOMERS HIERARCHY
- USER GROUPS
- CUSTOMER GROUPS
- ASSET GROUPS
- DEVICE GROUPS
- ENTITY VIEW GROUPS
- DASHBOARD GROUPS
 - All
 - ikor Dashboards
 - epSE
- SCHEDULER
- WHITE LABELING
- AUDIT LOGS

Start Setpoint -2.0 °C	Stop Setpoint -5.0 °C	Defrost period 6 h	Defrost duration 80 m	Operating Mode
Start Setpoint -2 °C	Stop Setpoint -2 °C	Defrost period 6 h	Defrost duration 80 m	



THANK YOU!
MERCİ!
¡GRACIAS!
VIELEN DANK!