

Internet of Things

IoT totally integrated into a single management platform

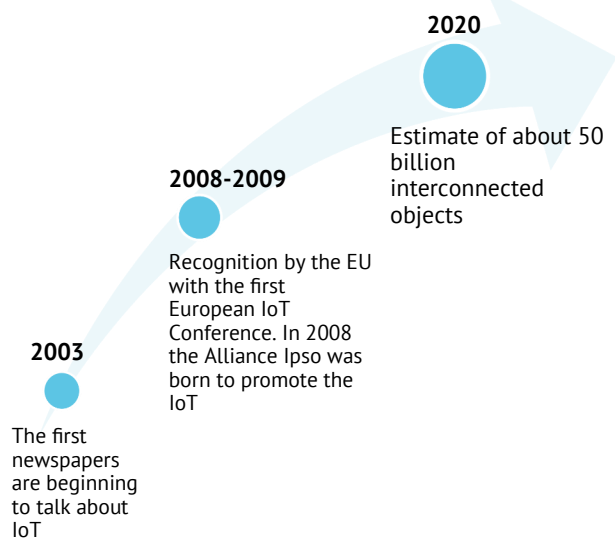
Guardian IoT

GUARDIAN is the first PSIM to integrate natively all the features of IoT (Internet of Things), with management of communication platforms such as Lora, Sigfox, Narrow Band, BLE.

Through a very low number of antennas it is possible to have a total coverage of the area to be controlled with a view to collecting data in real time.

The use of low-power long-range transmission modes, such as the LoRa, allows the use of battery-powered sensors with an average service life of more than 2 years (up to 5).

The consequent absence of wiring prunes to create very complex data collection architectures at low costs, opening the possibility to new ways of use such as wearable sensors for real-time collection of physical parameters.



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Everything is connected

The families of interfaceable sensors are very numerous, opening almost unlimited application scenarios. Some examples of applications on existing sensors are mentioned:

Smart Parking: monitoring free parking spaces and availability

Structural health: monitoring of vibrations and state of building materials

Noise Maps: monitoring of noise pollution

Smartphone Detection: detection, for statistical purposes, of the number of mobile devices in defined areas, by detecting the Mac Address of WiFi or Bluetooth connections.

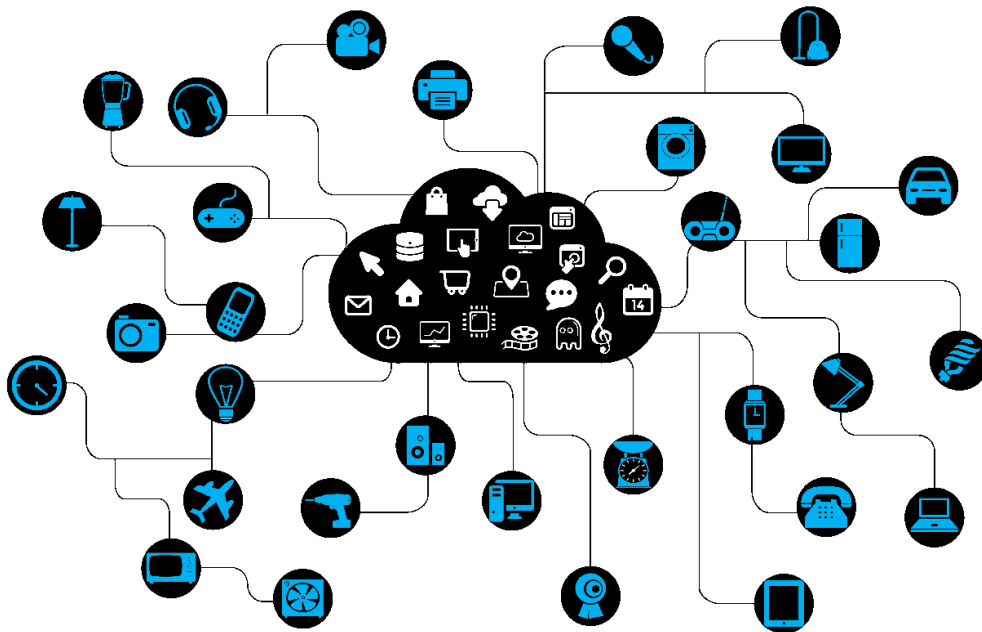
Drinking water monitoring: monitoring the chemical quality of water

Monitoring of water leaks: detection of the presence of liquids outside accumulation points or pipelines

Liquid level monitoring: control of water, oil, gas levels in tanks and storage areas

Photovoltaics: monitoring the parameters of photovoltaic installations

Water flows: monitoring of water flows for calculation of consumption and identification of losses.



Electromagnetic Field Levels: levels of electromagnetic pollution

Smart Lighting: intelligent lighting management for energy optimization

Waste management: automatic detection of the filling levels of waste containers for the optimization of emptying

Air Pollution: control of CO2 emissions and toxic gases

Snow monitoring: control of snow levels to optimize the intervention of cleaning means

Earthquake Early Detection: earthquake monitoring.

Radiation level monitoring: distributed measurement of the level of radioactivity in installations or areas at nuclear risk.

Monitoring of explosive gases: detection of gas levels and leakage in industrial environments, chemical industries, mines.

Air quality monitoring: indoor monitoring of the presence of toxic gases and oxygen levels

Temperature monitoring: temperature monitoring in closed rooms and cold chains

Monitoring ozone levels: monitoring ozone levels in indoor and outdoor areas

Vehicle diagnostics: diagnostic monitoring of vehicles equipped with Can-bus OSD interface

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