



New Generation Sensors - NGS

The IoT company

www.ngs-sensors.com

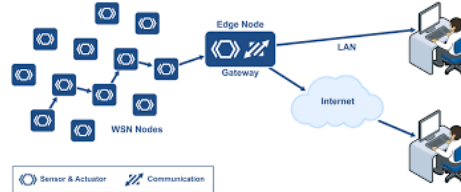
NGS, the IoT company

IoT systems and solutions

Multi-protocol gateway powered by battery or cable

Scalable solutions

Consulting and customization



NGS Solutions and IoT systems

- Solutions and IoT systems already developed
 - Smart Container - Logistica 4.0
 - Smart PlantOne - Predictive Maintenance
 - Smart Transport – City 4.0
 - Smart Agriculture





Logistics 4.0



IoT & Physical Internet

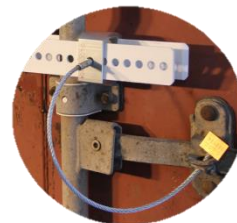
Multimodal Logistics



Where?



When?



How?

IoT for Logistics 4.0

IoT will enable the monitoring in a geo&time-referenced manner the state of the goods inside the containers. It will try to answer the following 3 questions:

Where?

When?

How?

Continuous monitoring of product quality, resulting in a better control of damaged, lost and stolen products.

Improve the product safety, especially for perishable products (e.g., food or pharmaceutical products).

Better support for decision making processes, supporting the planning activities and managing emergencies more quickly.

Make real-time product information available to intended users

Services

Continuous and Distributed Tracking and Reporting as a Service

- Different level of tracking & reporting:
 - Internet of **Goods** (IoG)
 - Internet of **Container** (IoC)
 - Internet of **Mode** (IoM)
- Provision of real time reporting



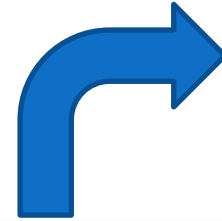
The Smart Container

A Smart Container is:

A
container...

... that
carries IoT
devices ...

... enabling
remote
monitoring
and control



Container Smart Router

- The container Smart Router provides real time data about the container and the goods inside
 - The Smart Router can manage sensors in/around the container (temp, humidity, seal, gas/light...)
 - Data is time-geo referenced
 - The Smart Gateway is battery powered and has internal memory to store data
 - The Smart Gateway has multiple communication protocols (mobile, Bluetooth, LoRa...)



Container sensors

- Multiple types of sensors can be deployed
 - Temperature/humidity
 - Gas
 - Light
 - Accelerometer
 - Seal/door control
 - Pallet/box





Thank You

New Generation Sensors s.r.l.
Email: alessandro.vaglini@ngs-sensors.it