



CONSTRUIRE DEMAIN

OPT 2025

IoT in New Caledonia

OPT-New Caledonia
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What is Internet of things means ?

IoT refers to the collective network of connected devices and the technology that facilitates communication between devices and the cloud, as well as between the devices themselves.

LPWAN Benefits for IoT connectivity

(Sigfox, LoraWan, NB-IoT & LTE-M)

- ❖ Low-power solution for IoT devices that need to be connected
- ❖ Reliable connectivity to devices that are located in remote areas with little to no infrastructure
- ❖ Cheaper than other forms of wireless communication because they require less power and infrastructure.
- ❖ Connecting thousands of objects (machines, sensors...) which increases efficiency and productivity

IOT



IoT Market in the world

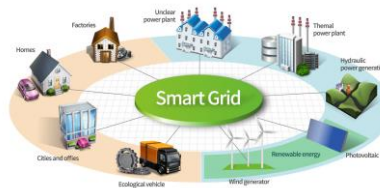
Objects invent new services for all sectors of activity (mining, logistics, transport, smart city, agriculture, home automation, etc.)

TOP 5 INDUSTRIAL IOT USES CASES

Entreprise and Industrial



Smart Energy



Smart city and Connected healthcare



Consumer IoT



TOP 5 INDUSTRIAL IOT USE CASES

- Predictive maintenance
- Remote and monitoring control
- Energy optimization
- Asset tracking
- Smart metering

TOP 5 SMART CITY USE CASES

- Smart lighting
- Traffic management
- Smart parking
- Noise monitoring
- Waste management

IoT Market in New Caledonia

~ **12 000** connected devices on OPT-NC Networks (2G/3G/4G)

75%

Asset tracking

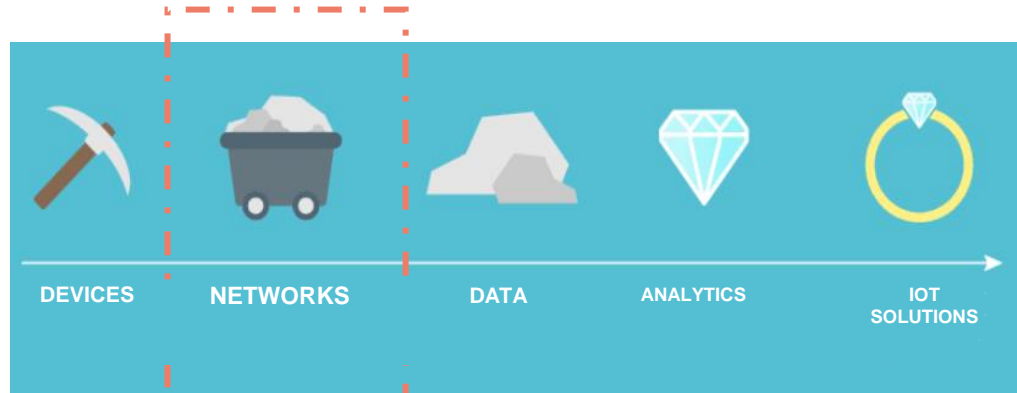
9000 connected devices for Tracking
vehicule

25%

Predictive maintenance, Environment sensors, Smart metering...

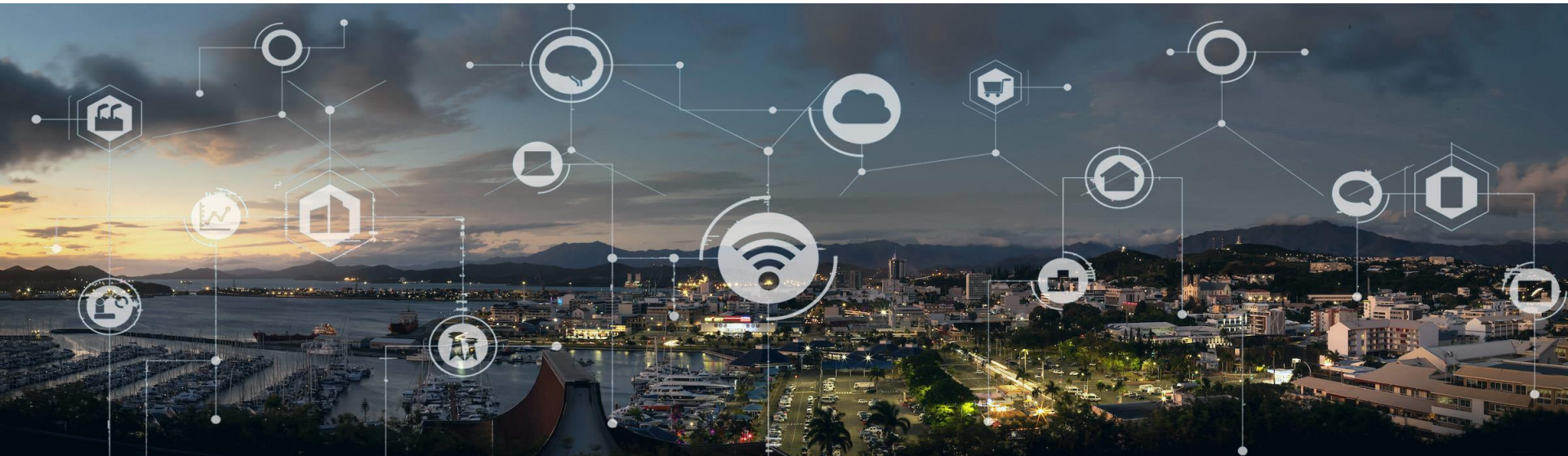


OPT-NC's position in the IoT value chain



OPT-NC

**OPT-NC is expected on
connectivity (a territorial
network)**



OPT-NC's technological position : NB-IoT & LTE-M

Very low energy consumption

Enables battery powered devices that can last for year

Global network coverage

Backed up by GSMA and telecom standards

No infrastructure deployment

Technologies built on the 4G network

Deep penetration

Increased coverage for indoor or remote areas



NB-IoT

LTE-M



	Indoor coverage	Data rate	Battery life	Global coverage	Over-the-air updates	Suitability for moving devices
LTE-M	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●
NB-IoT	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●	● ● ●

NB-IoT is suitable for many sensing and stationary applications in the area of smart city, smart building, or smart factory. It is also better suited for devices which are installed at hard-to-reach areas offers higher energy efficiency for battery-powered devices.



LTE-M is a better choice for over-the-air firmware updates performed during the lifecycle of IoT devices. It is also better suited for moving devices to avoid connection/data loss and offers higher data rates that enable more use cases.



OPT-NC's technological position : NB-IoT & LTE-M

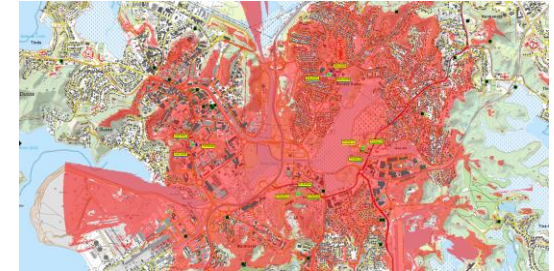
2021

OPT-NC opts for cellular IoT

2022

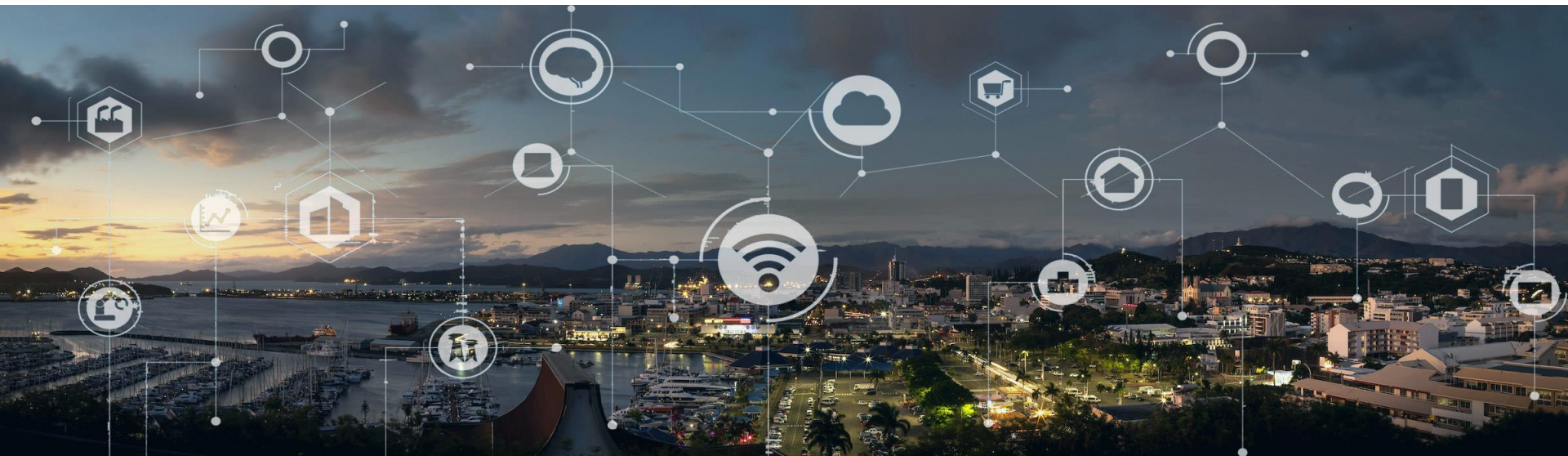
IoT Post-Launch

11 Months
10 mobile stations with enabled
IoT technologies
100 devices accepted on mobile
network



2023

IoT Launch (territorial network)



The fusion of IoT and GIS

The Internet Geography of Things

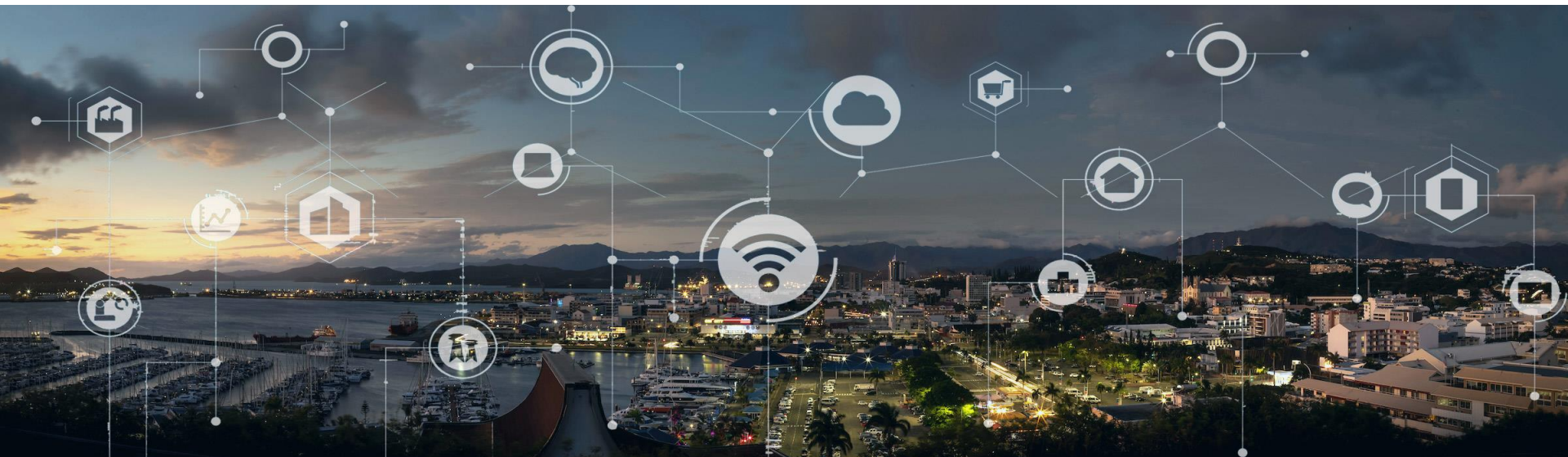
Interactions are multiple :

Administering and managing maps and sensors deployed in infrastructures and/or spaces

Analyse and exploit through interactive 2D/3D maps and plans, the measurements reported by the sensors

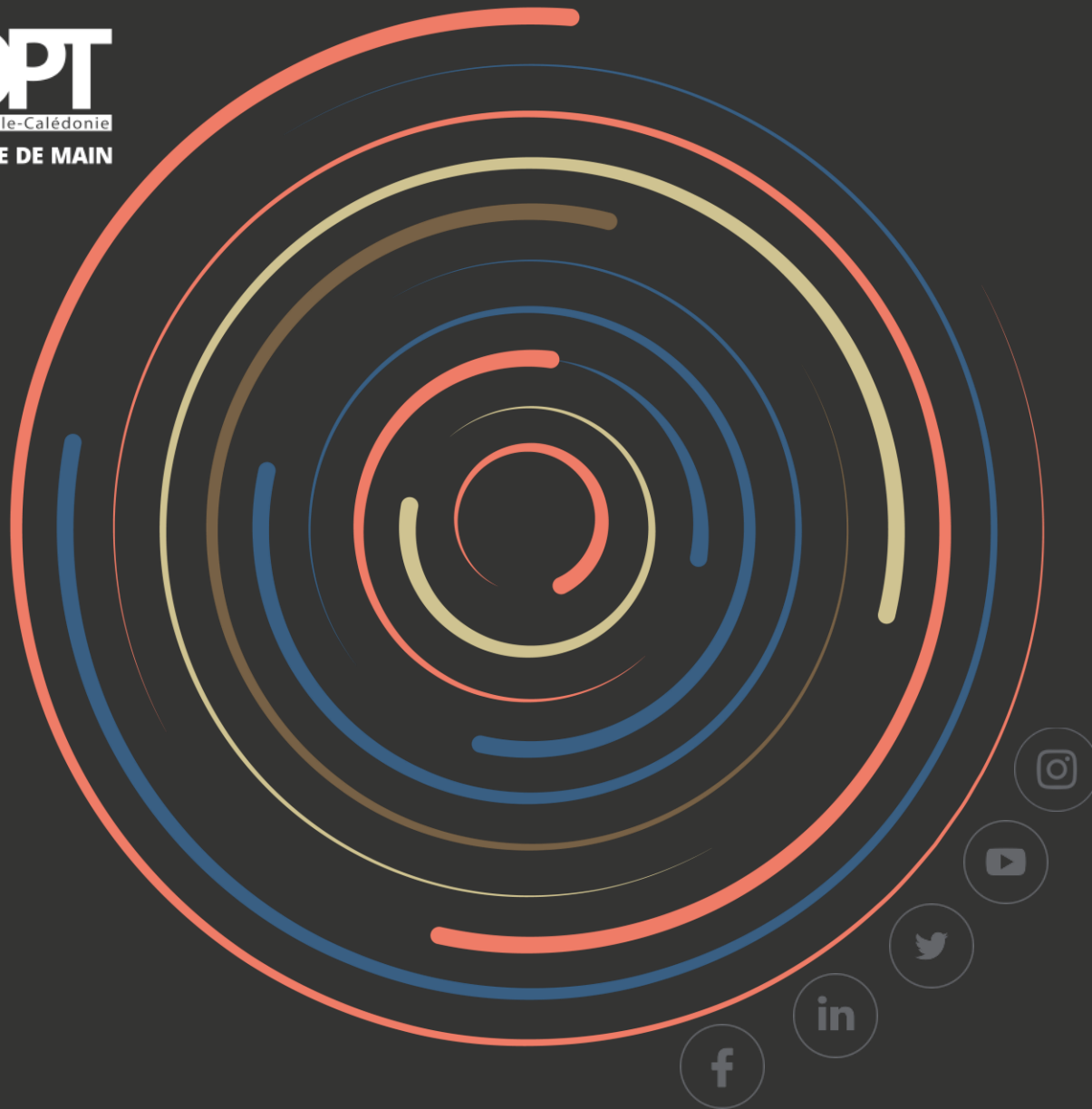
Study, optimise, manage and control the deployment of sensors in the field

When GIS and IOT work together, it offers benefits such as an increase in flow efficiency, cost efficiency, and, most importantly, can get real-time information from the sensors without the need for human intervention.





QUESTIONS ?



Texte

