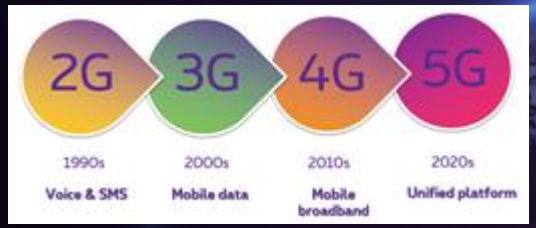
5G
A strategic pillar for innovation

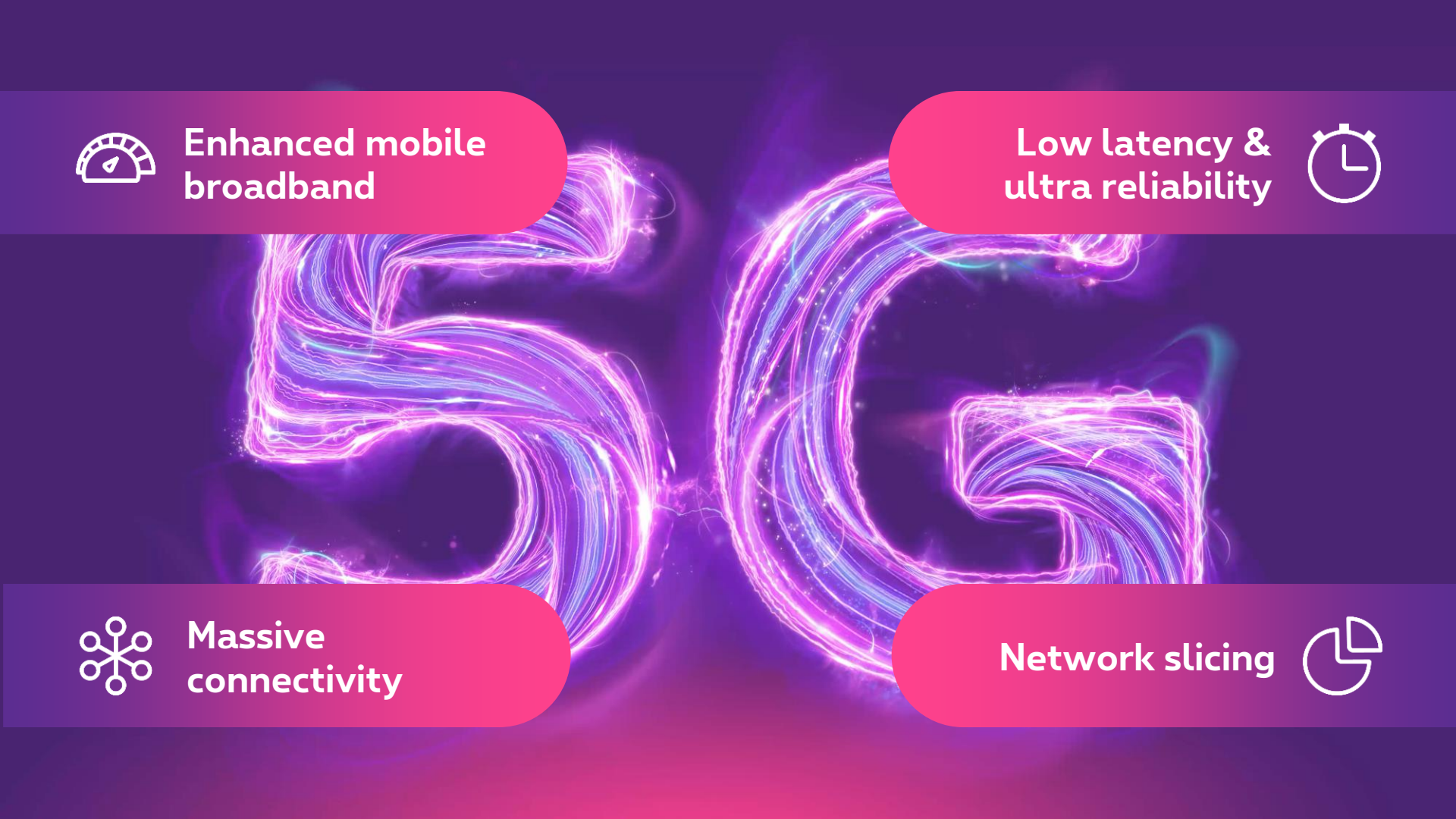
Frederic Renette
5G Private Network Business Development

From evolution

5G



... to revolution


Enhanced mobile broadband
Low latency & ultra reliability
5G
Massive connectivity
Network slicing


Transformation by connecting people and things in a secure and reliable way
Mobile Private Network
5G

Mobile Private Network (MPN)

Your network, your devices and your data

Data stream stays inside the private network

High data security,
Exclusive controlled access

High Performance : guaranteed latency, bandwidth, QoS

Reliability & stability

Scalability
Starting local, expanding nationwide

Network efficiency
Beamforming, energy consumption

Multiple purpose : Verticals - Industries
Multiple fields of aplications

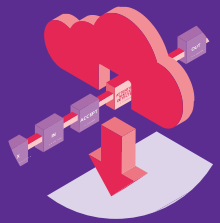
5G is built around technology Mega-trends

Digital empowered workforce

Increase mobility and improve flexibility & efficiency

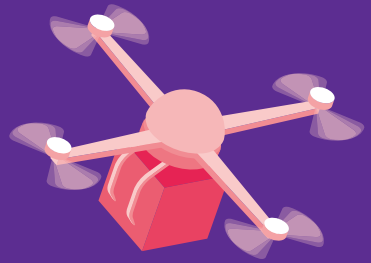
Automation & robotization

Reduce cost and the occurrence of errors with predefined operations of storing and moving goods



IoT

Enable faster innovation in Supply Chain 4.0



Drones

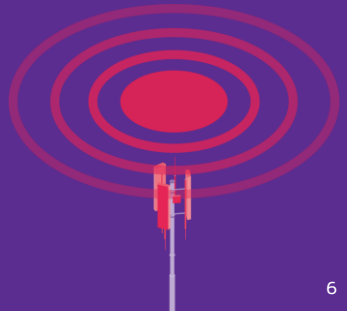
Execute fast last mile delivery and in-warehouse operational efficiency

AI, Big data, Edge Cloud

Manage large information flows to make quick decisions

5G networks

Accelerate the exchange of information & real-time data (automated guided vehicles, AI, drones, ...)



proximus NXT

5G Co-creation

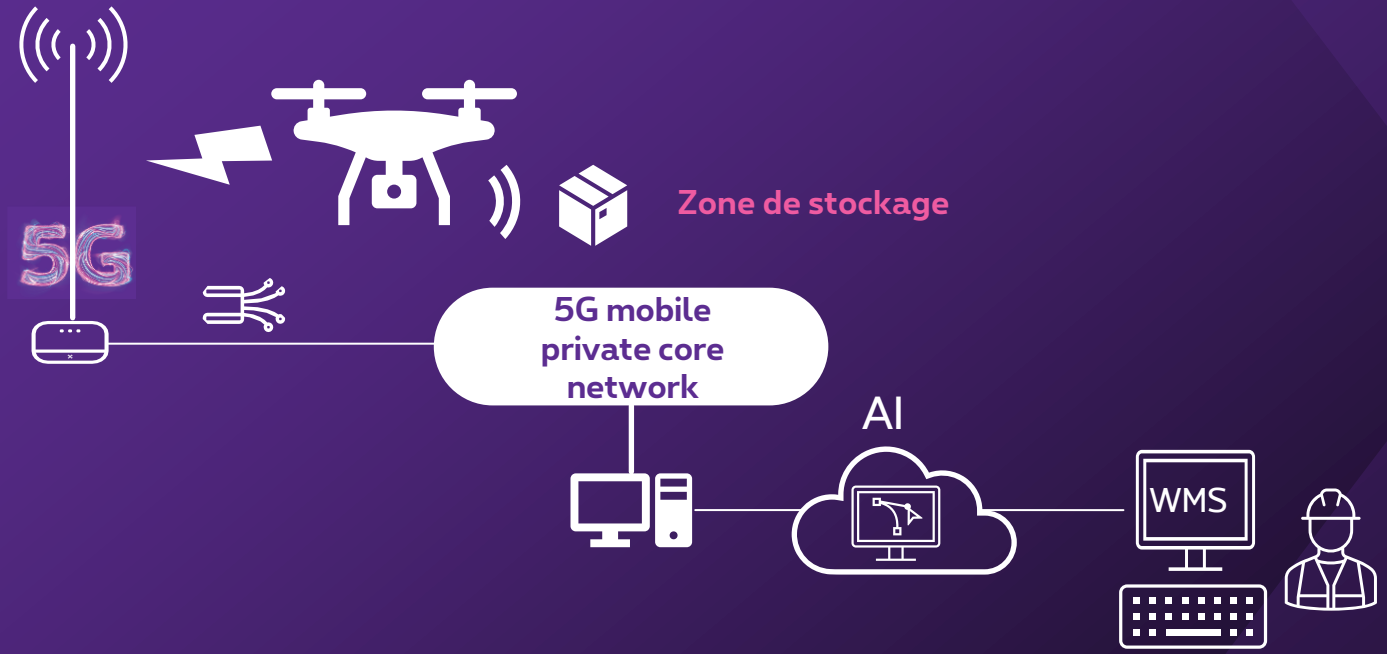
Some concrete examples

IMAGE RETINE

5G POC

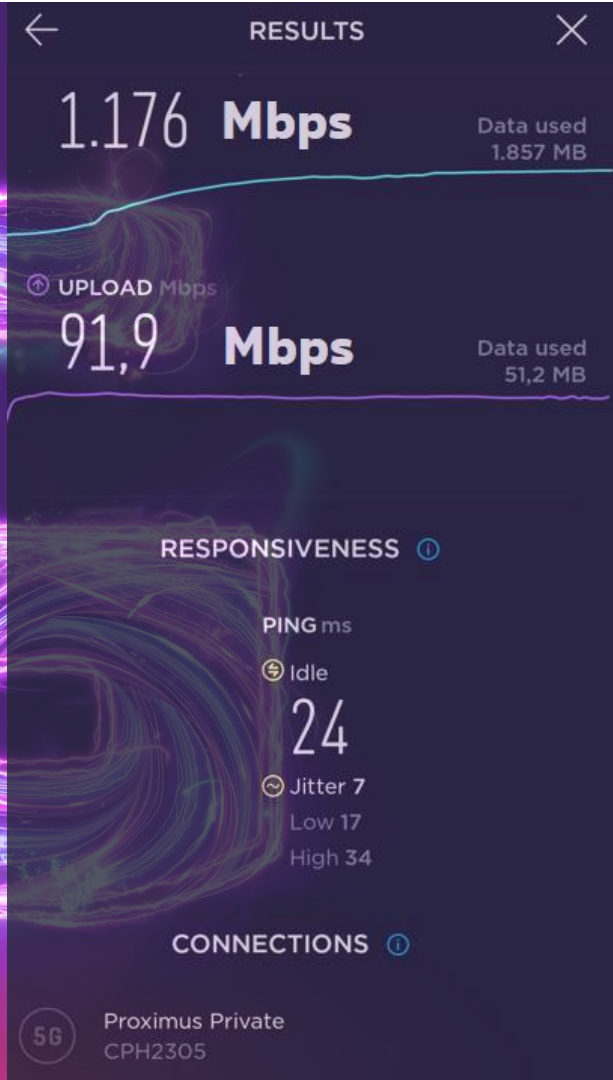
ID2Move – GSA – Deltrian - Proximus ADA – Proximus NXT

5G “suitcase” – IMAGE RETINE



Enhanced mobile broadband :
download speed > 1 Gbps

Low latency & ultra reliability :
latency 12 ms
(ping value / 2)

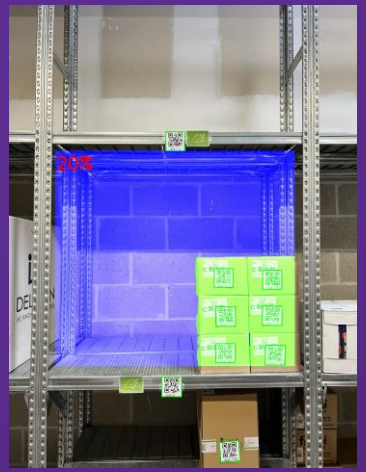


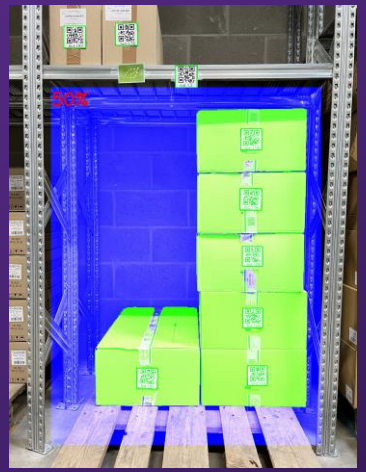


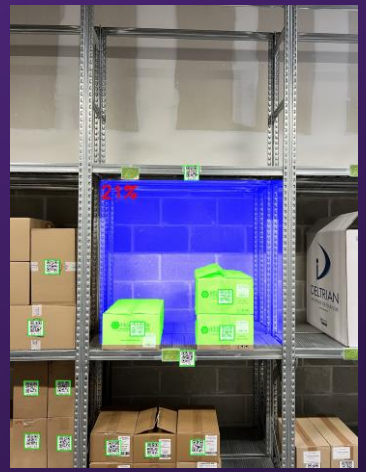




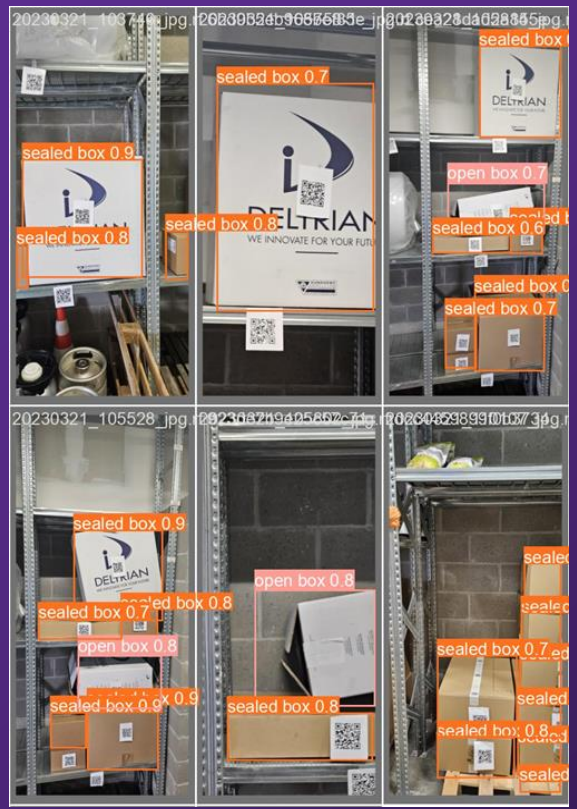


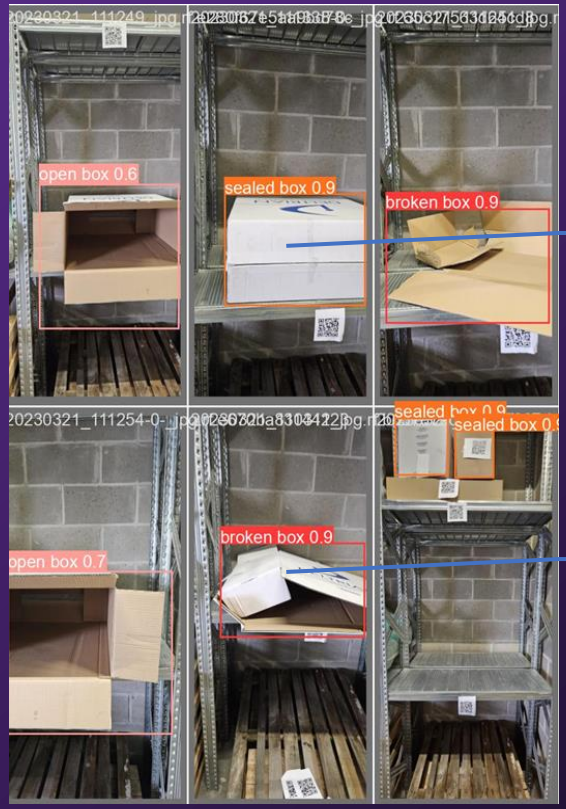







proximus ada





Identify open /closed boxes.

Identify damaged goods

Drone use case

Port of Antwerp-Bruges

High Bandwidth | Low Latency | High Reliability

Challenges

Monitor - Detect – Inspect
Coordinate - Support

Over a wide and difficult to access area

Solution

Drone missions

“As a service”

Why 5G?

- ✓ Port-wide, stable coverage
- ✓ Low latency for centralized, autonomous operations (AI)
- ✓ High resolution video streaming

The

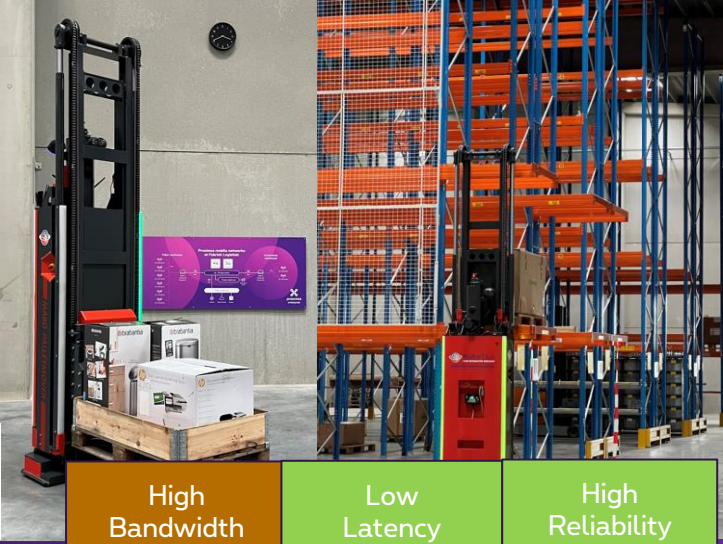
operating in the

Port of Antwerp

Examples of specific & potential use cases

Use Case

AGV in Fabriek Logistiek



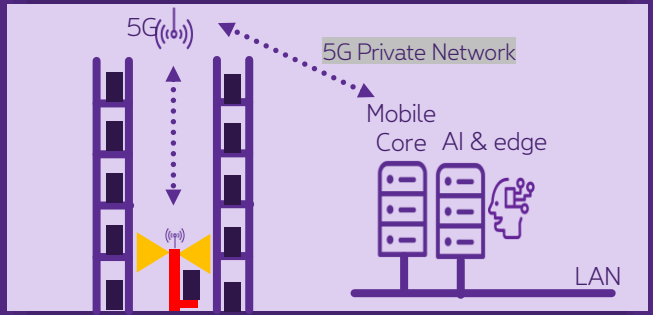
FABRIEK LOGISTIEK

High Bandwidth | Low Latency | High Reliability

Challenges

- ✓ Faster transport of goods
- ✓ Centralized traffic control
- ✓ Collaborative operation
- ✓ Remote emergency stops & operation of gates

Solution



Why 5G?

- ✓ Stable, reliable & secure NW
- ✓ Deep indoor coverage
- ✓ No AP-handover delays (ProfiSafe)
- ✓ Low latency for centralized, autonomous operation (AI-driven)

Thank you