MPNs for critical infrastructure in Belgium

#UPTIME23

Born and raised in B2B connectivity, we combine innovation, expertise, and talent into (mobile) connectivity solutions that will make both your business and society grow. OG to 5G.







Challenging the Belgian status quo as National Operator



European leader in Mobile Private Networks



Operator of the BE & NL OG IoT networks

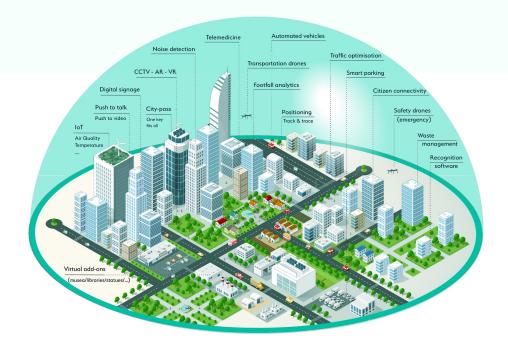


Unlocking opportunities with Safety Drones





Government











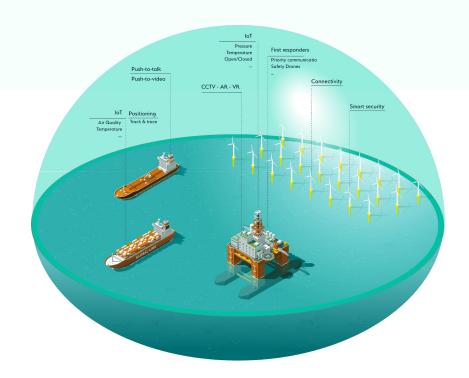








Blue energy









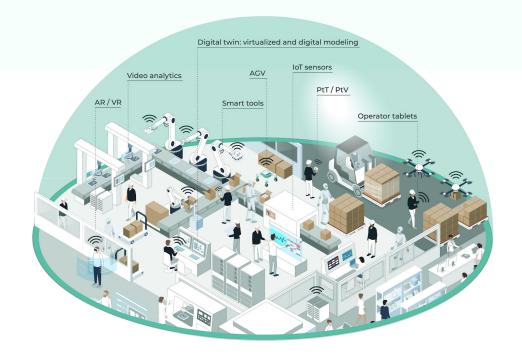








Industry









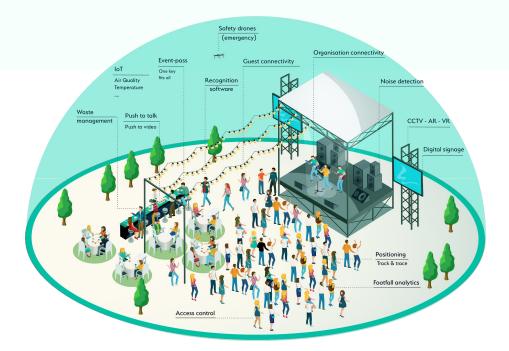








Entertainment



















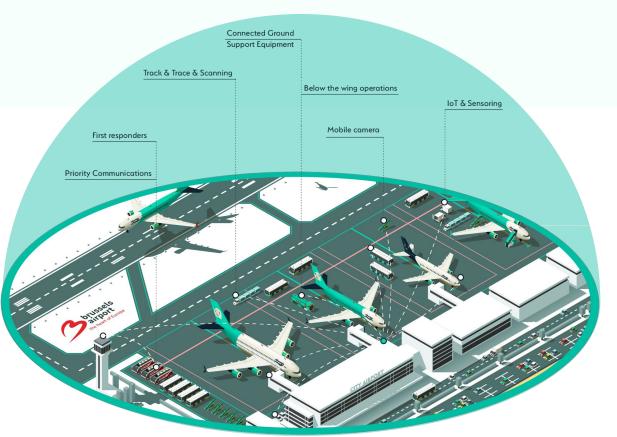
Brussels airport

Use cases

Together with Brussels Airport Company we defined 130 use cases for a Mobile Private Network at the airport.

5 mission critical 90 business critical

35 commercial





Private 4G networks support

95% of today's industrial and critical applications







Creating the airfield of the future

By integrating a modem in all airside light fixtures we can

- Create a digital twin of the air strip
- Get real-time sensor readings

All phase 1 project requirements can be fulfilled using 4G

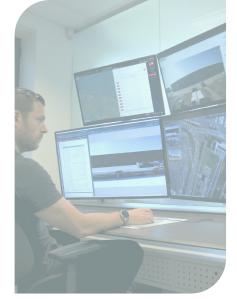
In phase 2, when realtime control is introduced, 5G (URLLC) becomes a hard requirement





SENSE

Deploying Safety Drones across all regions in Belgium





2 m. emergency calls

Per year in Belgium

70 Safety Drones

Deployed over 35 zones all over Belgium

40 pilots

Working from 5 remote control centers

+1000 flights

Were done during the POC phase from 2021 to 2023



Mission Critical MPN use cases Key learnings



Mission-critical use cases often create the need for an MPN but don't drive the budget.

Mission-critical use cases are often a small subset of the relevant use cases for a client.



Often it makes more sense to start with 4G and define a clear path towards 5G.

UE availability, 3GPP feature availability, brownfield UE landscapes and network stability can complicate reliable mission-critical use case deployment



Mission-critical use cases can require reliable connectivity beyond a small geographical area.

The requirement for reliable communication can go beyond the private network area, and may require creative hybrid networking solutions.

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Thank you

Robin Leblon CTO