PRIVATE 5G : THE NEXT BIG THING

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telenor

Private 5G networks : The Next Big Thing

Employee

IT
Admin

OT
Production

Internal

Sensitivity: Internal

Drivers for Private 5G networks

1 Connectivity Constraints

2 Industry trends

| Industry | Health | Defence | Energy, oil & gas | Transport |

3

Customer needs and use cases are diverse
– requiring a set of Private Mobile Network options

Net-centric | Dedicated on prem core

Integrated with macro network | Isolated

What to think about:
- Customer need and use-cases
- Integration requirements
- Cost
- Reliability and security
- Isolation requirements
- Local/Edge processing of data and critical applications

A — Public mobile NW — Core — P 5G NW

B — Public mobile NW — Core — P 5G NW — GW

C — Public mobile NW — Core — P 5G NW — Core

D — Public mobile NW — Core — P 5G NW — Core
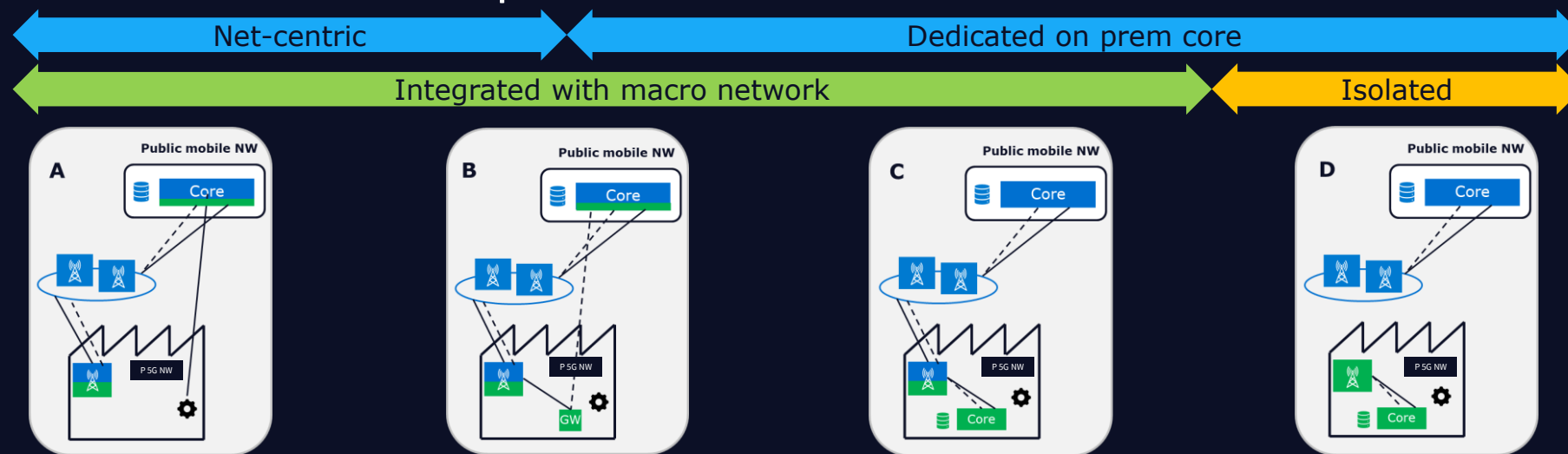
|	Private Network delivered through public network	Local GW to terminate traffic locally	Full dedicated private network, RAN shared with public network	Dedicated and fully isolated RAN and Core
Dedicate coverage & capacity	✓	✓	✓	✓ ✓
Low latency	✓	✓	✓	✓
Network autonomy			✓	✓
Data stays local		✓	✓	✓
Seamless integration with Telenor mobile network	✓	✓	✓	
Commercial mobile services	✓	✓	✓	

Potential application areas of Industrial 5G

Mobile & portable

assets

Moving & rotating
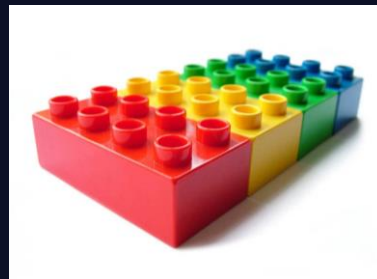
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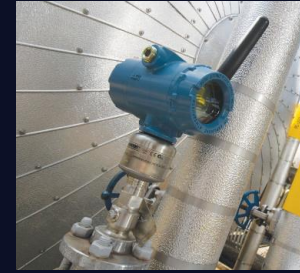
Wireless

sensors

Human-machine

interaction

Positioning & tracking

Modular production

Retrofit solutions

Network convergence

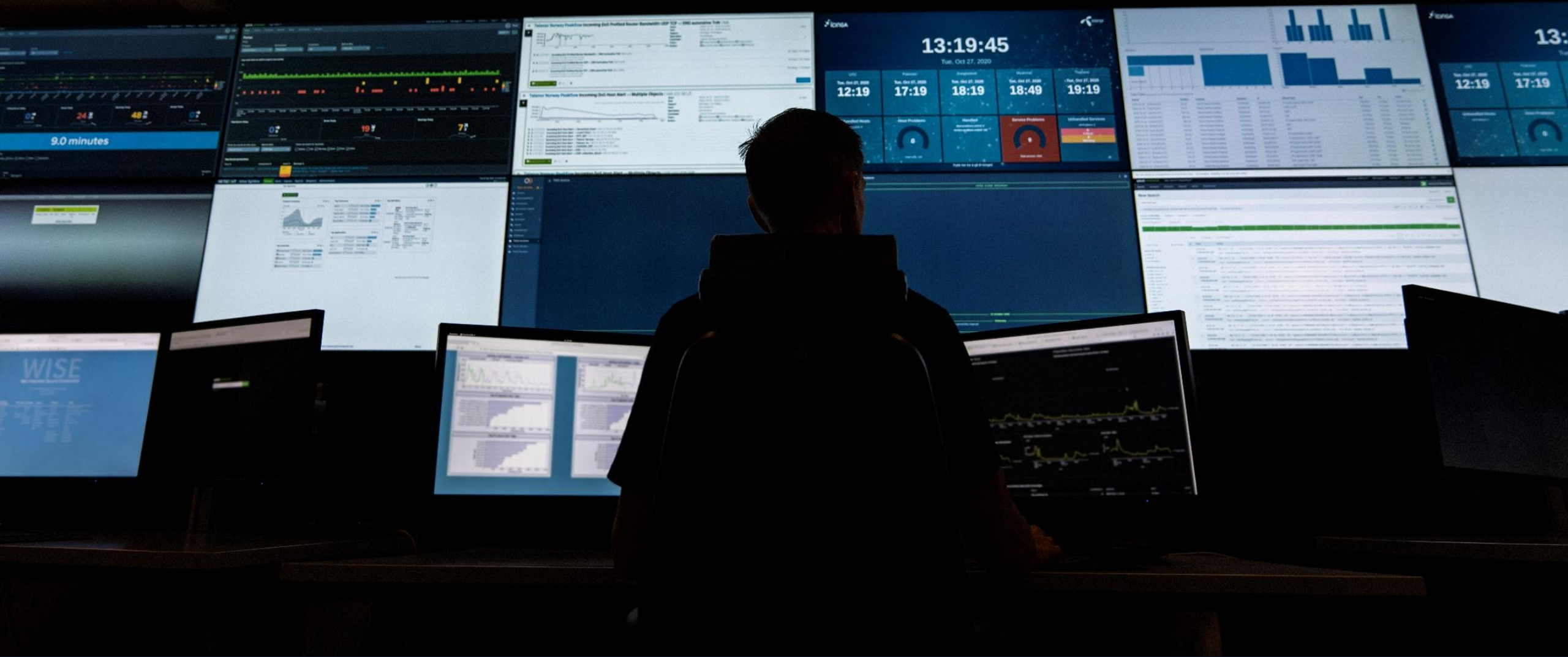# IT meets OT : Security in private 5G networks is not about frequencies

OT is the next step in the business digitalization journey

Security & safety is the key

Linking cyber threats with consequences for the infrastructure is a major challenge

Employee

IT
Admin

OT
Production

Security

Safety

At Telenor, security its in our DNA

OMNY – new cybersecurity–startup

Security competence

Software competence

Industry competence

Omny

A contextualized OT security software, bringing industry closer to omniscience.

The perfect storm

IIoT
Industrial IoT and sensors connected collecting the data in real time

5G
Fast, reliable, low latency and high capacity transporting the data through the network

AI
Applications, new analysis and compute methods requires low latency

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Questions?

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