

## **5G IoT for Manufacturing at MWC Barcelona 2022**

**Manufacturing Summit Session 2** 

Private & Dedicated Networks for Industry 4.0

Industry City Stage, Hall 4, Fira Gran Via

**28 February 2022** 





#### **Elise Neel**

Senior VP New Business Incubation, Verizon



#MWC22

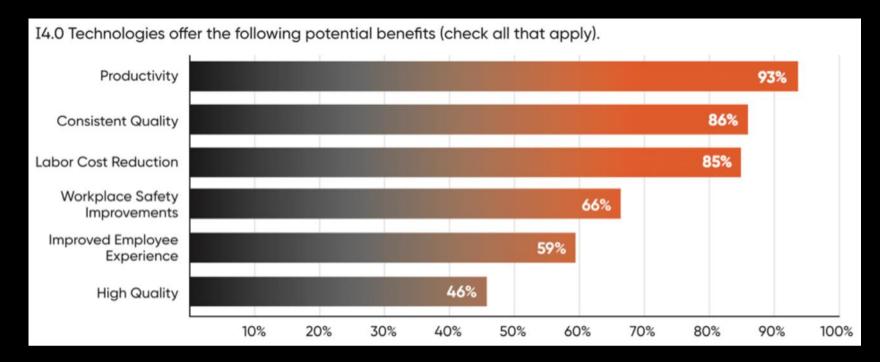
# Private and Dedicated Networks to Drive Industry 4.0



# Digital transformation isn't a buzzword.

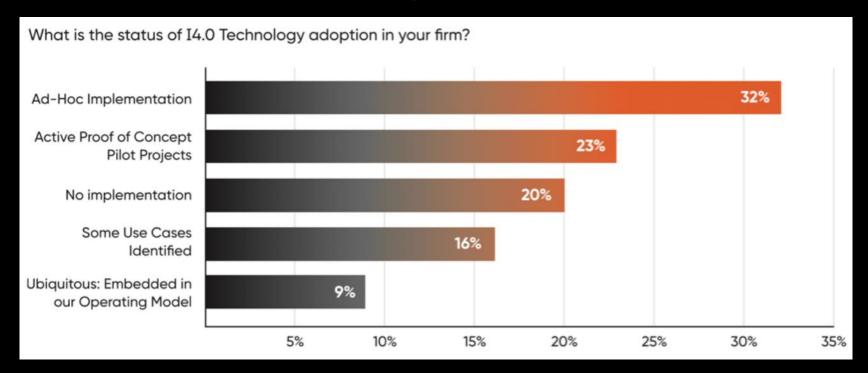
It's an operational requirement.

#### Benefits of Technologies that Enable 14.0 Outcomes



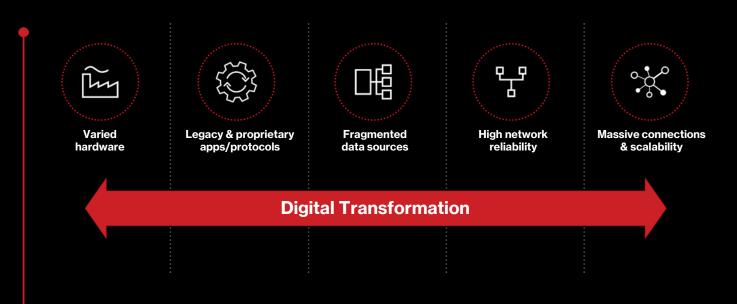


#### The Status of I4.0 Technology Adoption

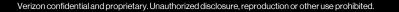


#### **Customer Pain Points**

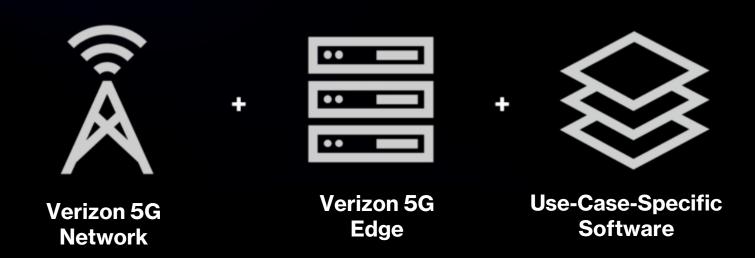
Manufacturers face many challenges in accelerating their digitization efforts.



Source: ABI Research, "5G and Edge Networks In Manufacturing"



#### **Building for Industry 4.0 Customers**



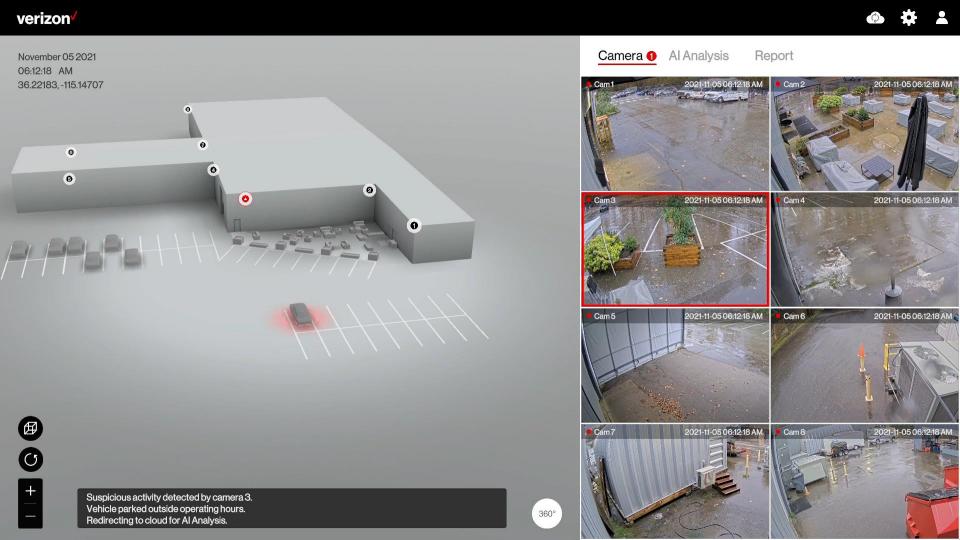


#### **Private or Dedicated 5G Networks**

Bring a custom-tailored 5G experience to indoor or outdoor facilities where high-speed, high-capacity, low-latency connectivity is crucial.

Dedicated
Bandwidth
Security
Needs
High-Quality
Consistent,
Always-on





### verizon

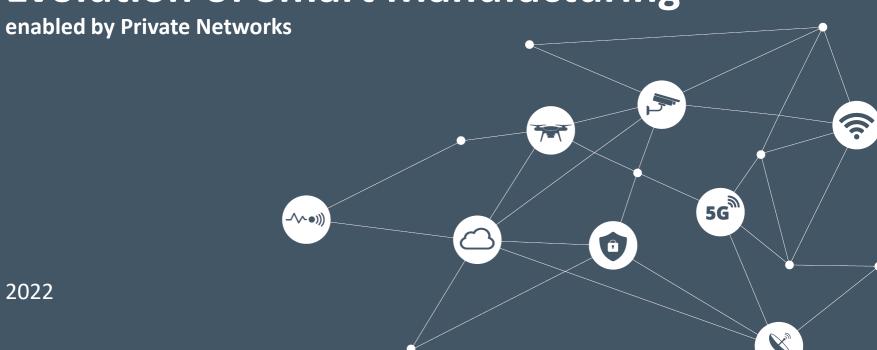
#### **Catherine Gull**

Consultant, Cellnex





#### **Evolution of Smart Manufacturing**



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#### Cellnex/Edzcom



#1

independent telecom infrastructure services provider in Europe



130k

Sites for wireless telecommunications infrastructure in Europe 13

Covered countries in Europe and expanding

40

Private 4G/5G deployed

16

Years of experience in mission critical communications

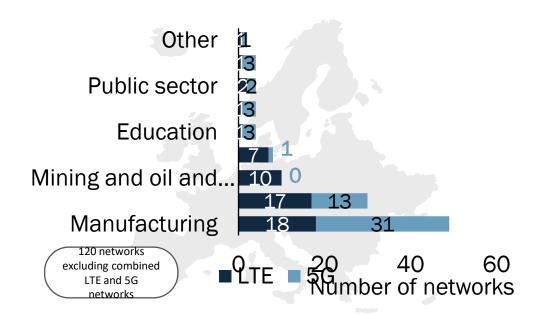
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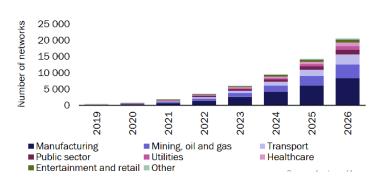
Years of experience and market leaders in Edge Connectivity



#### Private 5G in the Manufacturing Industry

early adopter of 5G technology in Europe





Number of private LTE/5G networks per industry



Source: Analysys Mason

#### Key

#### **Challenges**













Automatio

# Key drivers for 5G Private Networks

- Industrial transformation is underway; COVID and a changing work force has accelerated the process.
- Mix of use cases legacy, automation, mobility, demand for flexibility
- New spectrum regimes are facilitating the adoption of private 5G networks.



#### Comparison

#### Private Networks as the cornerstone of Digitalisation





**LEVEL OF AUTONOMY** 

**CAPACITY / SPECTRUM** 

**SECURITY** 

**MOBILITY** 

**RELIABILITY** 

**COVERAGE** 

1

#### **Boosting 5G research into Automated &**

Digitalised solutions for factories and ports





resolutio n wireless peras

Load handling safety

Site security

Operation al integrity



#### Interconnecting Production

Buildings, tanks of silos, people, self-driving trucks & assets

#### **D** • **BASF**











#### 100% Control for the customer

#### Bespoke OSS



#### Designed and built for the customer

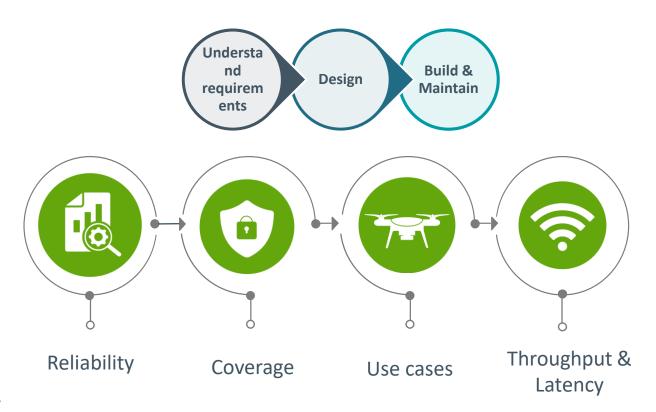
to accommodate the use cases and the scope and specifics of client's site

- Controlled by the customer
  - with real-time visibility via dashboard
- Build as you grow

Phase-by-phase investment and to expand capacity, coverage or robustness for future growth needs



#### **Your Own Private Network**









#### **Moderator: Kevin Kapich**

North America Private Networks Lead, Principal Strategy Director, Accenture

#### **Kim Krogh Andersen**

Group Executive, Telstra

#### **Stephane Gervais**

Executive VP Strategic Innovation, LACROIX Group

#### **Elise Neel**

Senior VP New Business Incubation, Verizon

#### **Patrick Castagnino**

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