

Uncovering the  
value behind 5G  
Private Networks

A new era of  
connectivity for  
enterprises

# 5G Private Enterprise Networks

Private 5G networks are increasingly gaining momentum. Security, ultra-reliability, high-speed, low-latency, power-efficiency and high device density capabilities are driving the demand.

## Private Networks landscape and key figures

~ **56%**

Of organizations believe their current network prevents them from addressing the innovative use cases they want to target

~ **58%**

Of organizations are either running pilots or deploying 5G solutions

~ **2/3**

Of organizations are seeking network modularity and will turn to external parties to help with integration

~ **69%**

Of organizations are engaging with up to 9 different provider types for network deployment

~ **98%**

Of organizations believe they'll be using both Wi-Fi 6 and 5G in parallel within the next 2-3 years

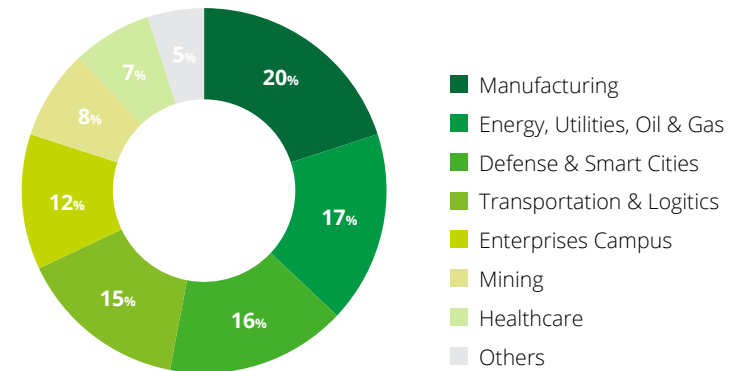
> **70%**

Of organizations are adopting advanced wireless networks for competitive advantage and to enhance customer interactions

**The market is expected to see an investment of up to ~10B USD by 2024 in mobile network equipment and services**

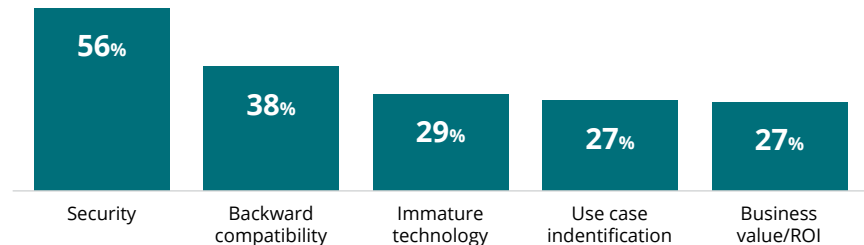
## 5G Private Network adoption per sector by 2030

Manufacturing, Energy & Utilities, Transport & Logistics, and Govt & Defense expected to be the **sectors with higher levels of adoption**



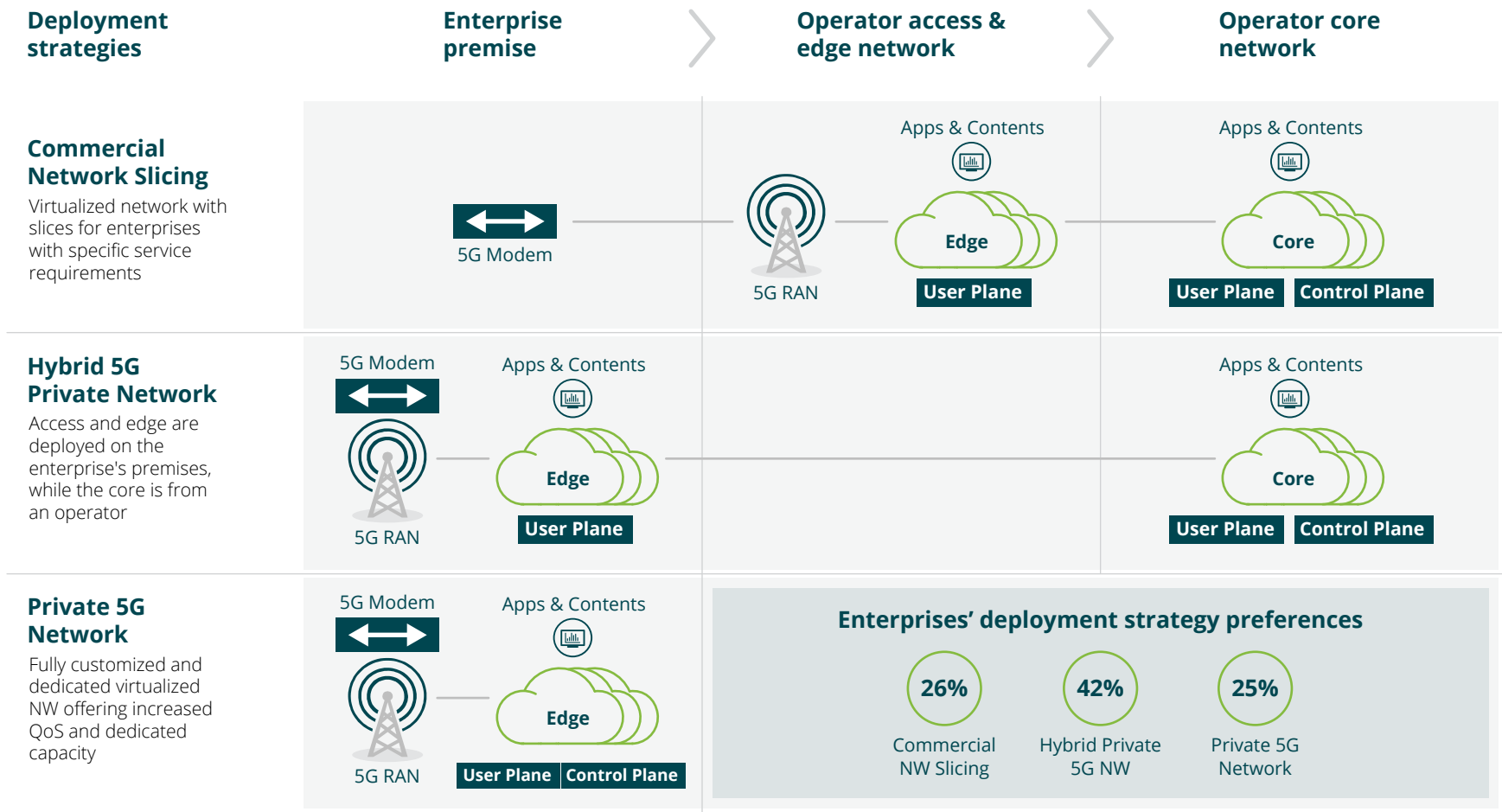
## Top challenges for 5G adoption

Although 5G is considered essential for the future, **enterprises face multiple challenges related with its deployment**



# 5G Private Networks deployment strategies

Enterprises can choose between multiple network deployment models to address their use cases and connectivity requirements

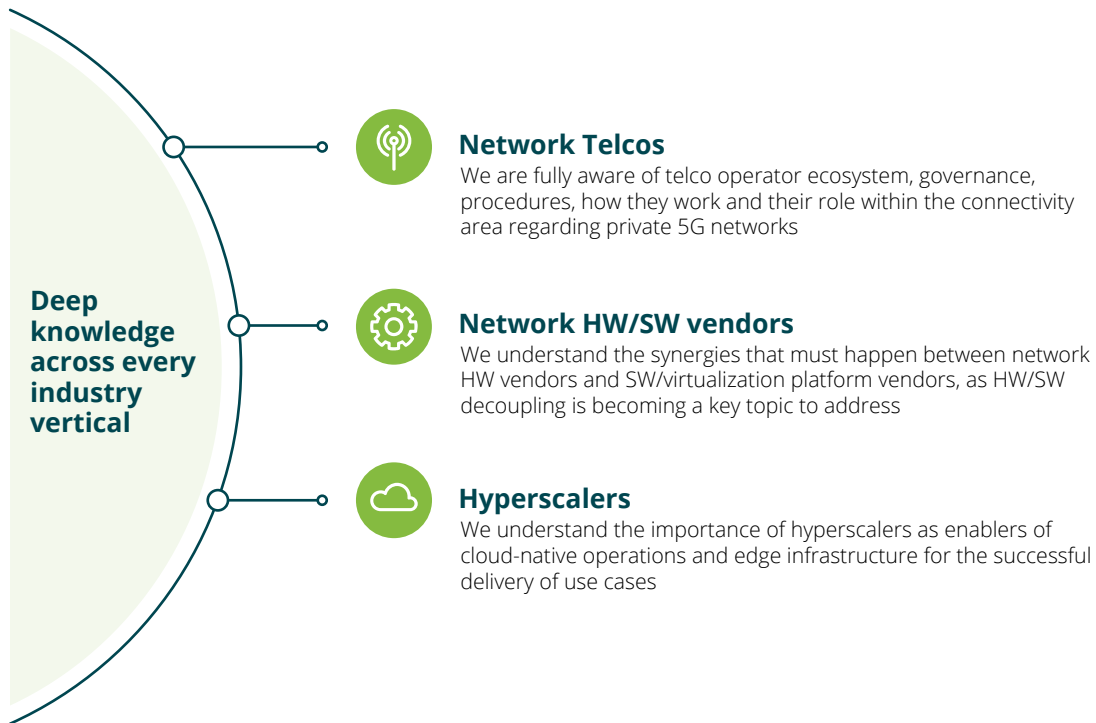


There is no "one-size fits all"

Enterprises must carefully select the options, or a combination of them, that best suits their use cases, taking into account factors such as network performance, TTM, security, edge computing power, customization and CAPEX/OPEX spending

# Our 5G Private Network offer

Building 5G solutions for each vertical requires a deep understanding of the specific industry so that use cases lead to meaningful business outcomes. Is all about **selling an outcome rather a technology, requiring a shift from transactional to consultative selling**



**Deloitte translates business challenges and industry needs into technical requirements, fully delivering the 5G Private Network promise**

## Deloitte approach

From use case ideation and strategy definition, towards build and implementation, Deloitte can help deliver value added E2E 5G solutions

- Ideate and prioritize**  
Select the areas to be improved with 5G use cases, ideating, identifying and prioritizing the top 5G use case opportunities
- Develop the business case**  
Formulate the 5G private network associated operational benefits and associated business case value proposition
- Design POC Tech requirements**  
Define and design use case technical solution architecture and requirements, taking into account deployment strategies, edge and 5G core functions, network connectivity and application requirements
- Build and evaluate**  
Support the building of a working 5G private network PoC, monitor and evaluate the 5G use case(s) performance
- Integrate, operate and maintain**  
Integrate E2E 5G solutions, define overall governance, operating model, procedures and 5G private network CoE for global deployment

# Some of our successful projects

Across several industry verticals, we have been able to support organizations strategizing, ideating and defining the path towards the adoption of 5G technology



## Definition of IoT connectivity standards

### **Standardization of IoT solution requirements and specifications,**

ensuring alignment of multiple shipping companies, simplifying interoperability across the shipping industry and laying the foundations for specifications within the IoT domain and private 5G use cases within Transports & Logistics.



## 5G ready PVNO platform strategy and deployment

### **Support PVNO platform strategy, market consulting and deployment for a power distribution company,**

participating in the solution design, solution deployment and strategic roadmap accommodating the future demand for private 5G demanding use cases.



## 5G deployment program management

### **E2E program management of 5G deployment in a telco operator,**

supporting the setup of technical streams, planning of activities, governance model and service provider management, bridging the gap between technical, engineering and operational teams.



## Mining Private Wireless Network Assessment

### **Wireless Private Network assessment for a mining company,**

providing LTE connectivity for the autonomous haulage solution, evaluating E2E network reliability and assessing security from devices, air interface, RAN, backhaul, core network and supporting tools.



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