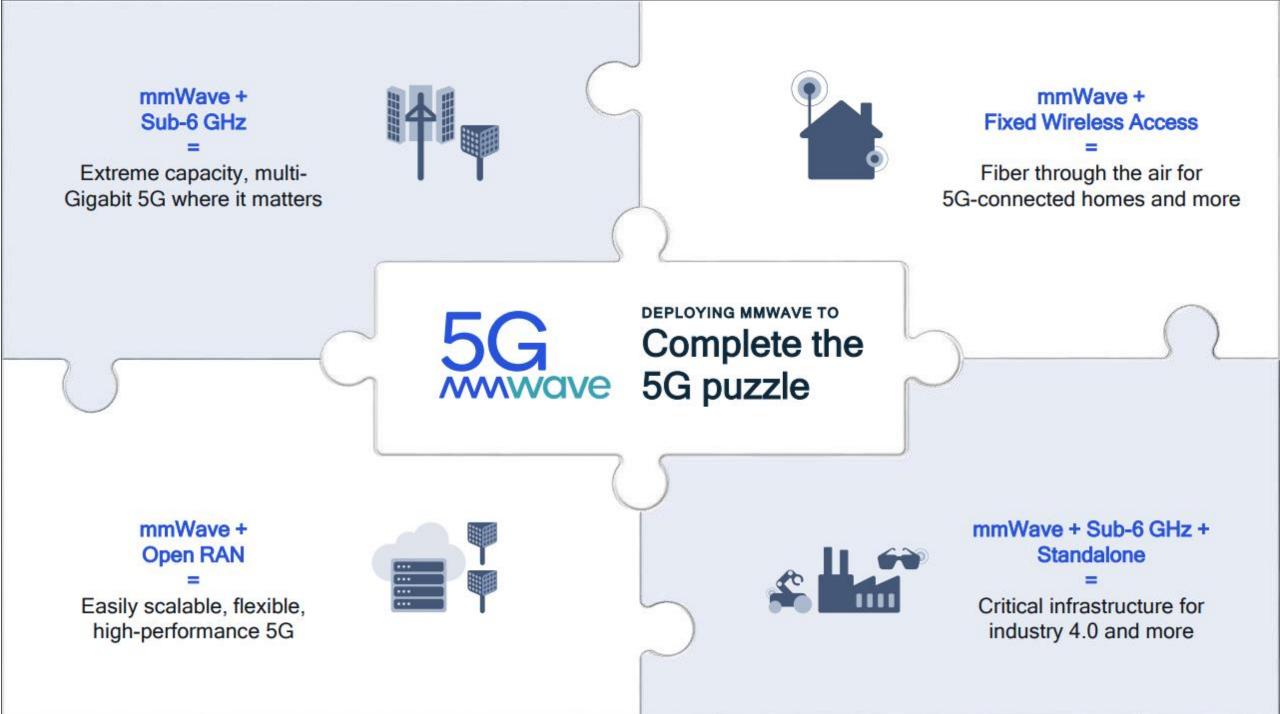
November 2021

XI Congreso Internacional de Espectro ANE - Colombia

### Qualcom

# Espectro para verticales y futuros esquemas de asignación

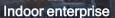
Francisco Soares Vicepresidente de Relaciones Gubernamentales Qualcomm



### Delivering on the 5G vision

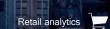
Connected

Mix of deployment models required to realize this future



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Public networks



Fixed wireless access

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Smart transportation

Smart buildings

**Private networks** 

XR factory production

Connected educatio

**5G** 

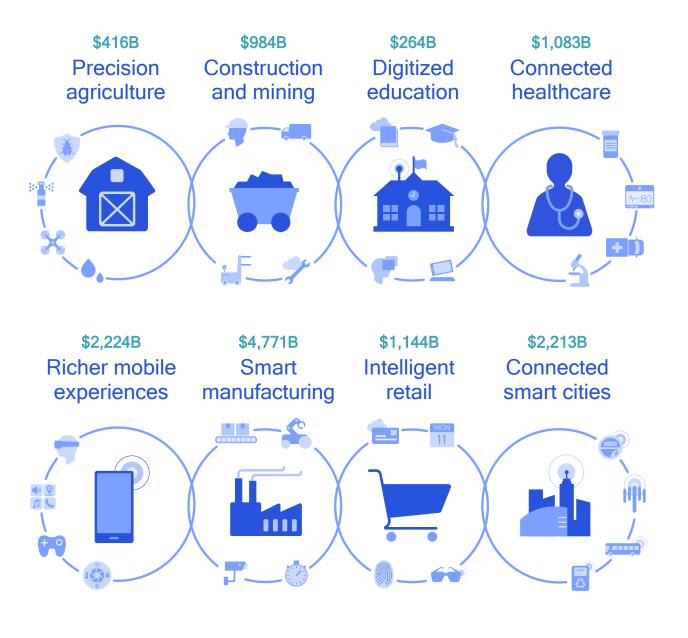


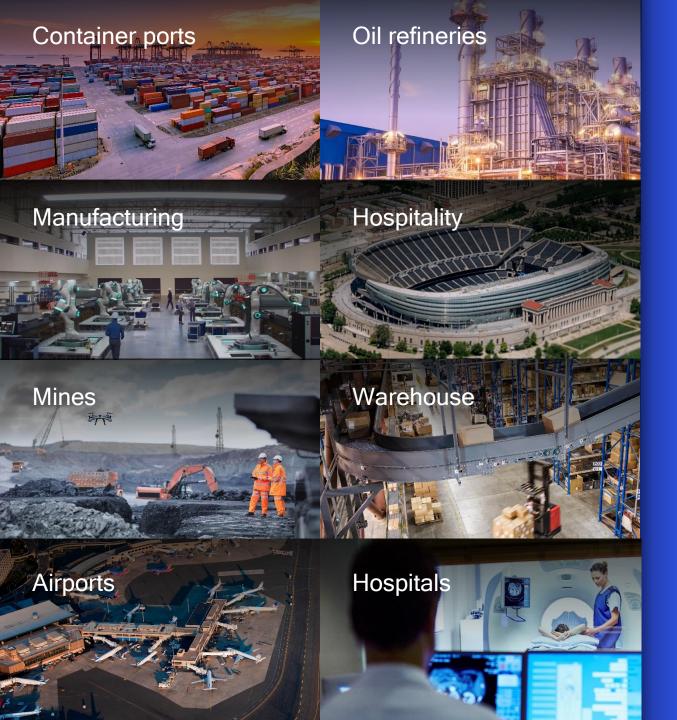
# 5G will expand the mobile ecosystem to new industries

Powering the digital economy



\* The 5G Economy in a Post-COVID-19 Era - an independent study from IHS Markit, commissioned by Qualcomm Technologies, Inc.





## 5G private networks will expand the market

Wide range of industries from manufacturing and seaports to venues and enterprise

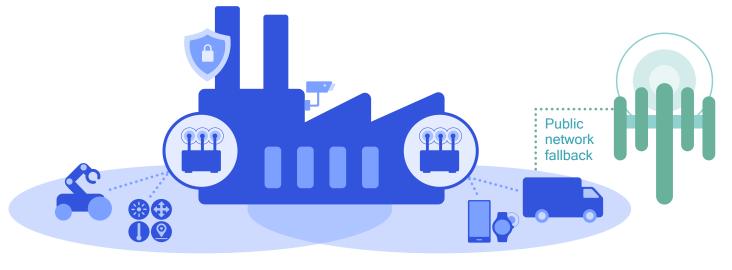


global private LTE/5G market size by 2026<sup>1</sup>

18% CAGR

1. Mobile Experts, "Private LTE/5G 2021" (Feb. 2021)

## 5G private networks bring benefits to industry and enterprise



Private network<sup>1</sup>

#### Dedicated

Local network, dedicated resources, independently managed

#### Secure

Cellular grade security, sensitive data stays on-premise

#### Optimized

Tailored performance for local applications, e.g., low latency, QoS<sup>2</sup>



#### Coverage, capacity, and mobility

Outdoor/indoor, high data speeds, seamless handovers, public network fallback

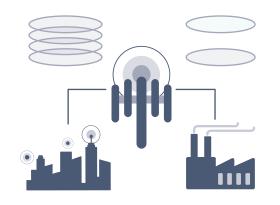
#### Reliability and precise timing

Industrial grade reliability, latency and synchronization (eURLLC<sup>3</sup> and TSN<sup>4</sup>)

#### Interoperability

Global standard, vast ecosystem, future proof with rich 5G roadmap

**5G private networks: An opportunity for mobile operators** To deploy, manage, or offer as a service, both in licensed and unlicensed spectrum

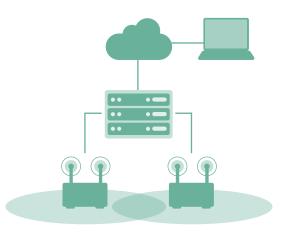


#### Licensed spectrum assets

Dedicate a portion for private networks

Spectrum may be under-utilized in industrial areas

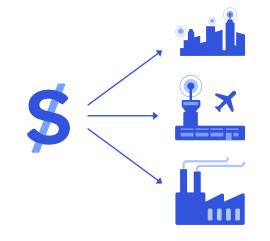
Reuse mmWave spectrum indoors, such as for private enterprise network



#### Expertise in mobile networks

Relevant expertise in deploying, optimizing, operating mobile networks

Existing ecosystem relationships

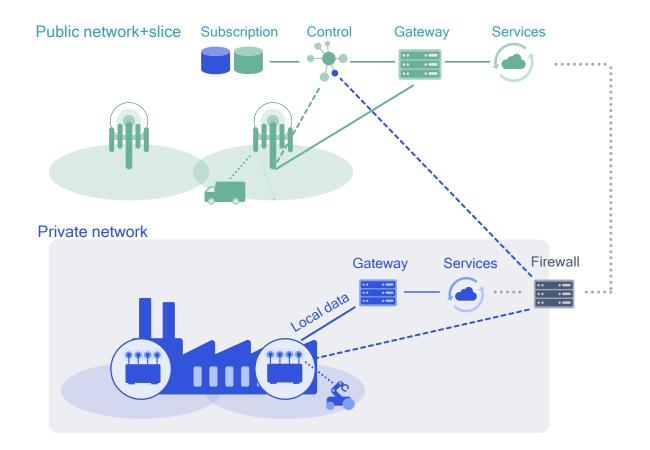


#### **Existing sales channels**

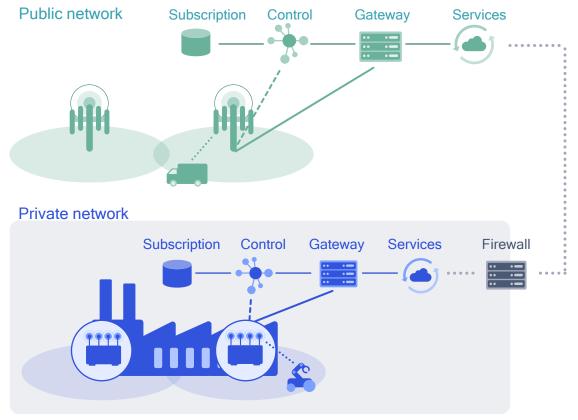
Already provide services to many industrial and enterprise customers

Multiple business opportunities, from deploy to offer private network as a service

#### Integrated private network



#### Independent private network<sup>1</sup>



1) Mobility between private and public networks can still be supported via dual subscriptions

#### Multiple private network architectures for flexible deployments

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## Thank you!

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