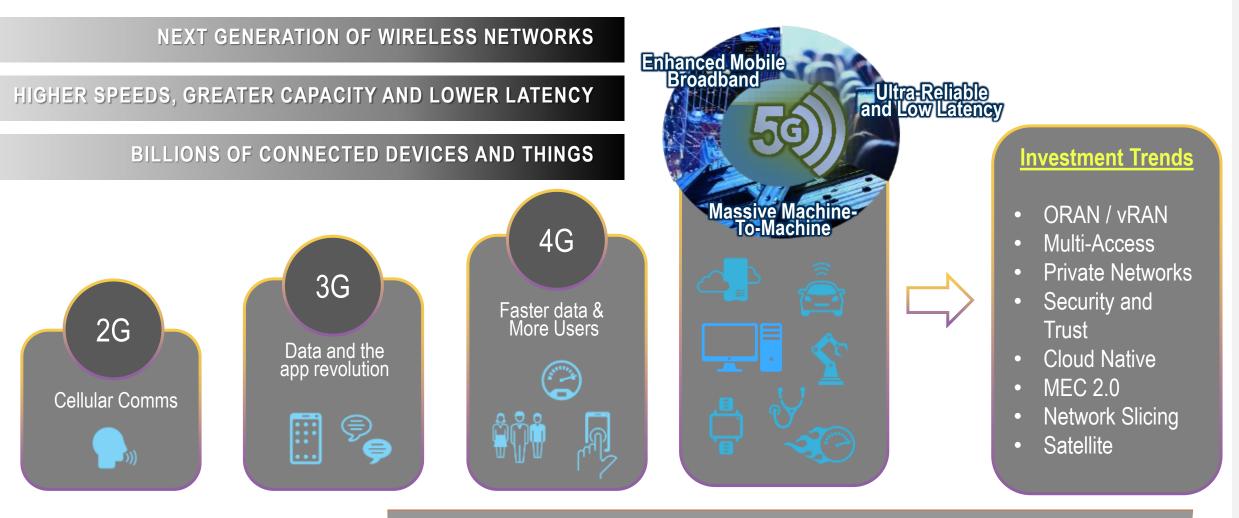
ORAN and 5G Private Networks

CAROLINE CHAN

Vice President, Network And Edge Group Intel Corporation

5G Accelerates Digital Transformation

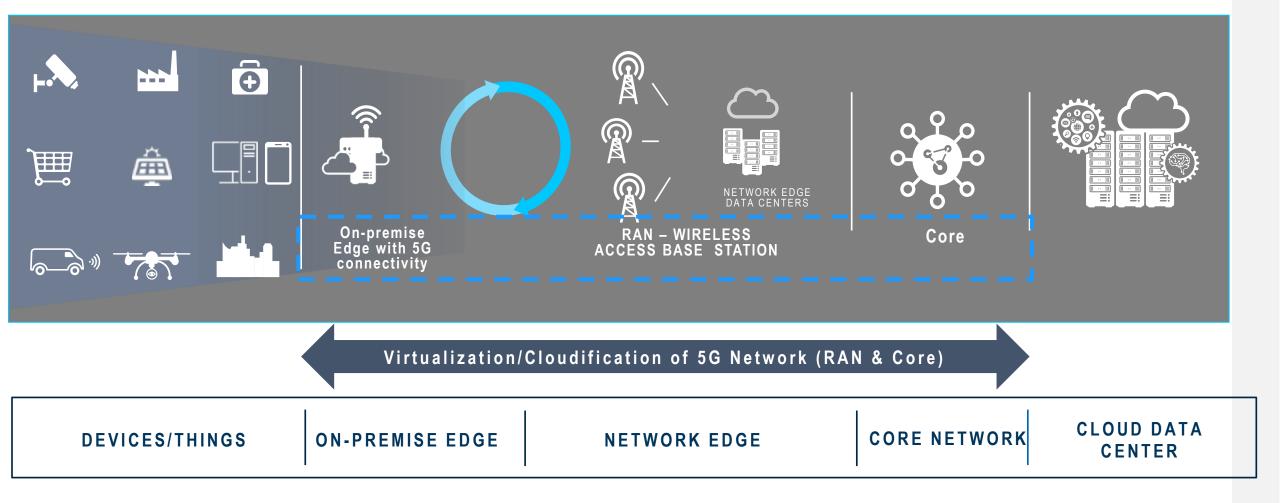


Agility, Scalability and Intelligence Throughout the Network

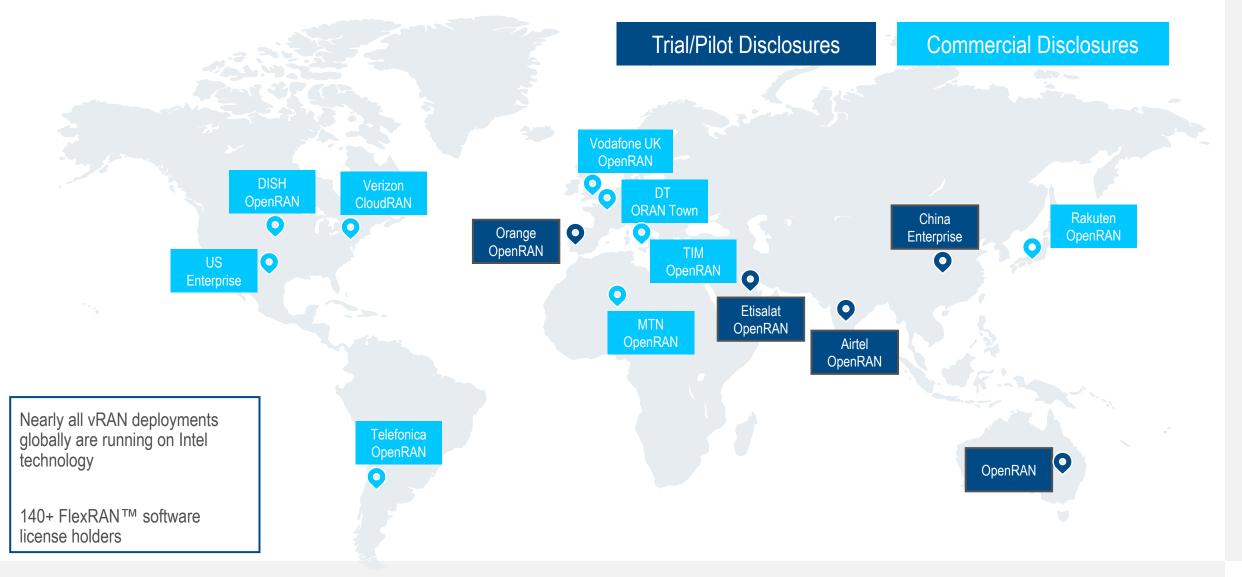
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5G Wireless Network - Today

RAN : Radio Access Network, VRAN : Virtualized Radio Access Network



Global vRAN/ORAN Momentum



Virtualizing the Radio Access Network

ON INTEL

TRIAL & Commercial Plan	つairtel dish. Rokuten <i>Telefonica</i> 诊中国移动 ピーク目目信
INDUSTRY MOMENTUM	SCARSON SCARSON REFERENCE SOFTWARE
ECOSYSTEM READINESS	ALTIOSTAR BaiCells Comba DELLEMC HBC Hewlett Packard Lenovo. COCT Radisys SAMSUNG
	Victor Victor
	Real Deployments, Real Momentum, Built-in Al

What Is A Private 5G Network?

A wireless network set up specifically for dedicated use to drive better coverage & control

Comparing public and private networks

(⁽ⁱⁿ⁾⁾ Private

- Spectrum owned by enterprise or CoSP
- Network management flexibility
- Targeted coverage, for example, campuses, arenas, retail
- Versatile deployment options for vertical use cases

Hybrid

Uses public and private aspects and network slicing to reduce complexity and cost while increasing capabilities



- Communication service provider-owned spectrum
- Provider manages network and scalable services
- Broad coverage across a wide area
- Licensed spectrum, including mmWave

Private Network Deployments

INDUSTRIAL

Autonomous Mobile Robots **Textile Defect Detection** Virtual Power Protection Relay PCB Defect Detection



EDUCATION

Remote Education

Remote Testing

Recording / re-runs



CITIES & TRANSPORTATION

Intelligent Traffic Management

Smart Campus

Marine Port Truck Access-Gate Automation

Smart Spaces

RETAIL

Inventory Management

Personalized Shopping

Frictionless Stores

Customer Traffic Monitoring









Protecting / transmitting video surveillance data





Ports Indoor /Outdoor

Connectivity

Mfg. w/ real-time data collection and analysis

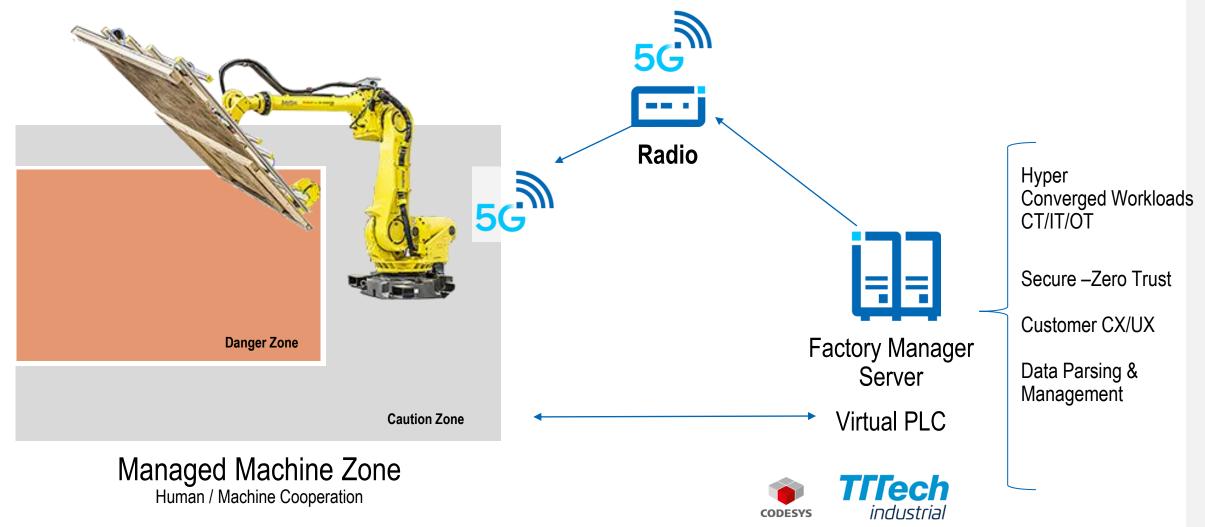
Integrated Wired/ Wireless Motion Control

Remote Facility monitoring

Reconfiguration

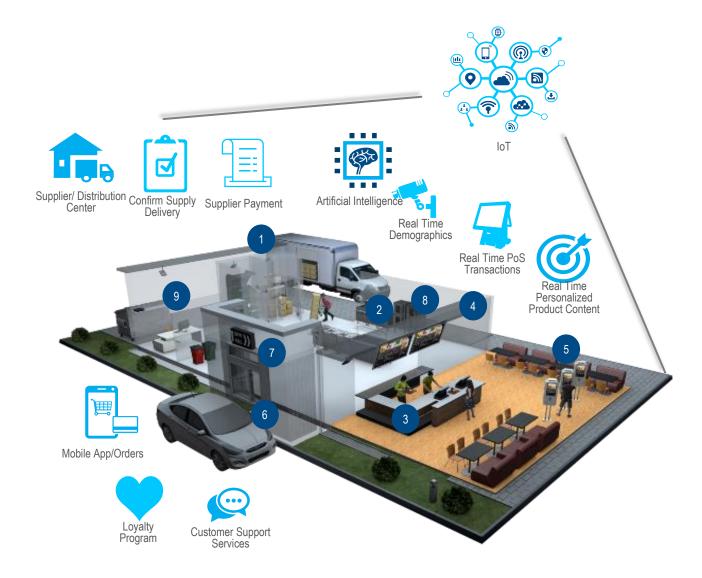
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Industry 4.0 Realized : Factory of the Future



Driving the promise of Industrial 4.0 in improving the cost, flexibility and performance on the factory floor

Edge Quick Service Retail (QSR) Infographic



QSR Edge Automation Use Cases

- 1. Supply/Inventory Management
- 2. Kitchen Ops Optimization
- 3. Associate Service Activation
- 4. Personalized Product Content
- 5. Interactive Kiosks
- 6. Mobile Checkout
- 7. Predictive Traffic Analysis (Queue, Weather, Events, Time)
- 8. Loss Prevention
- 9. Workforce Management

#