

5G + AI + IoT: Beyond Magic



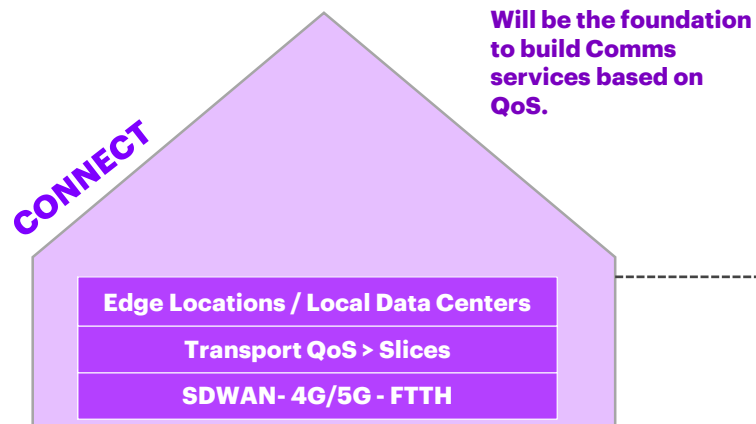
Jefferson Wang

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Opportunity Beyond Connectivity

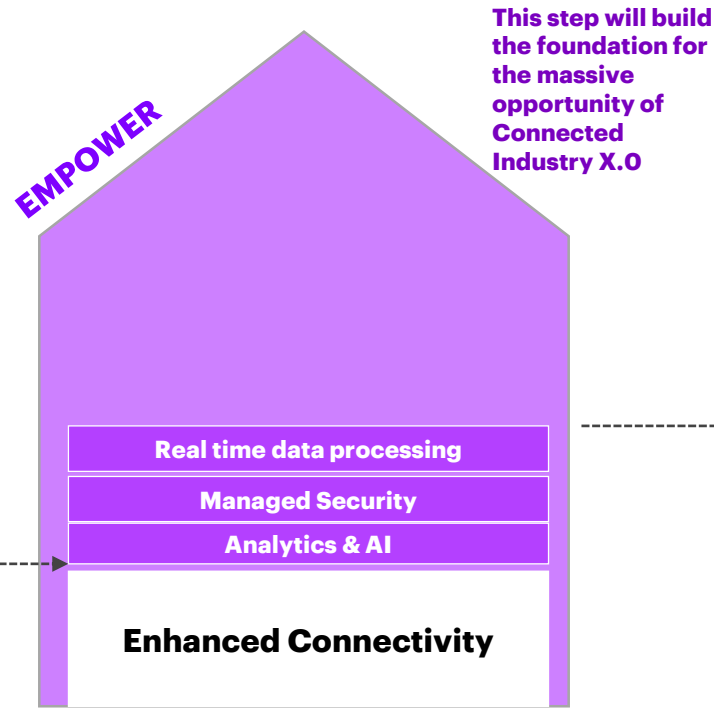
ENHANCED CONNECTIVITY

Personalizing connectivity (programmable network, Public + Private) and edge computing (MEC)



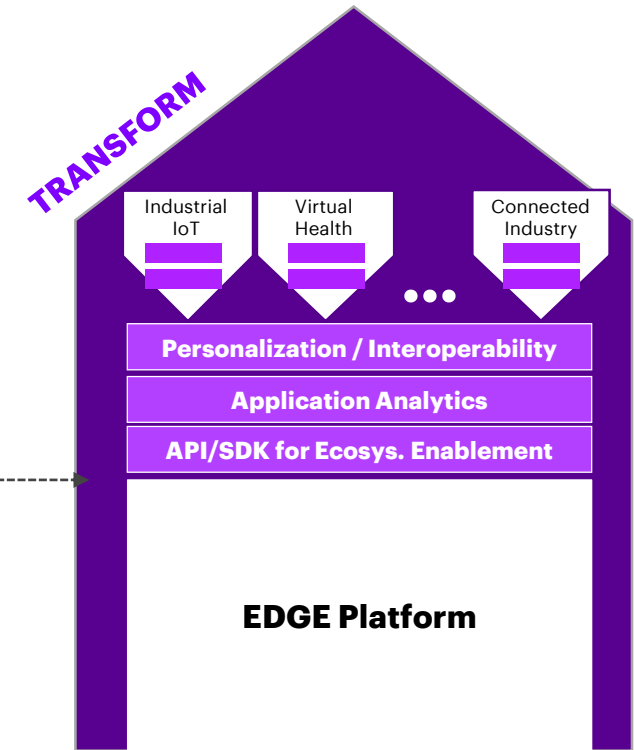
ANALYTICS CAPABILITIES

Powering Enhanced Connectivity with advanced analytics in real time



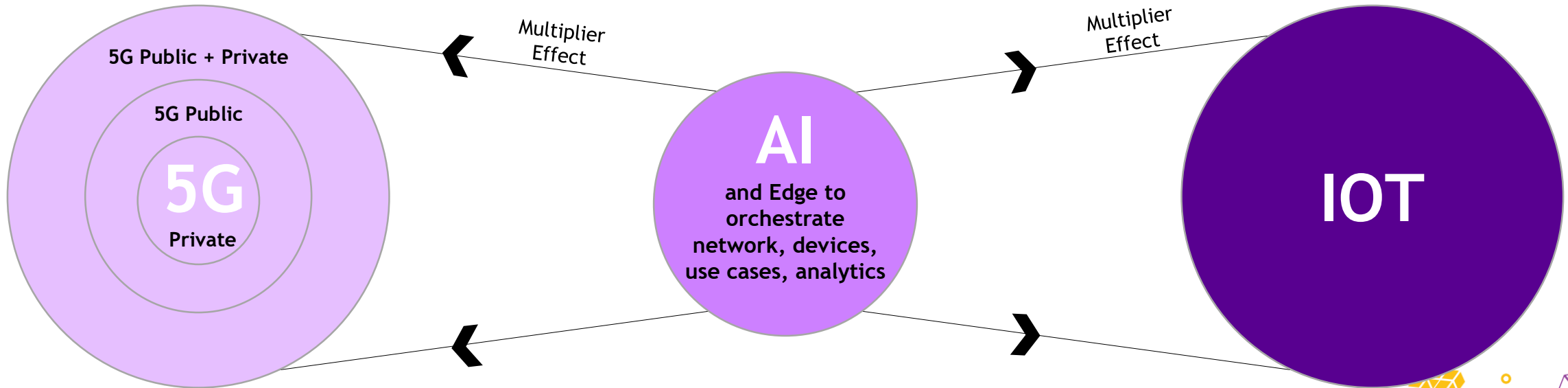
DIGITAL TRANSFORMATION

Package enablers and horizontal technology to help vertical industries digitally transform



5G + AI Enabling IoT

Digital Transformation

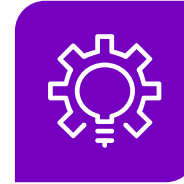


Key Challenges to 5G



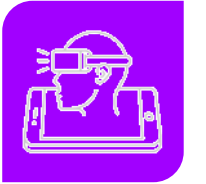
1.0 SPECTRUM AVAILABILITY AND DEPLOYMENT FEASIBILITY

Access to aggregated 5G spectrum - high, medium, low



2.0 USE CASES & BUSINESS MODELS

Use cases by segment, new biz models beyond connectivity



3.0 DEVICE INNOVATION AND TECH BREAKTHROUGHS

Band fragmentation, post Smartphone era device form



4.0 NETWORK TECHNOLOGY & DEPLOYMENT

3GPP Rel 15 with network slicing still working on deployments, network density for mm Wave












5.0 ARCHITECTURAL AND PLATFORM INNOVATION

Cloud partnerships, multi-cloud integration, clear edge strategy



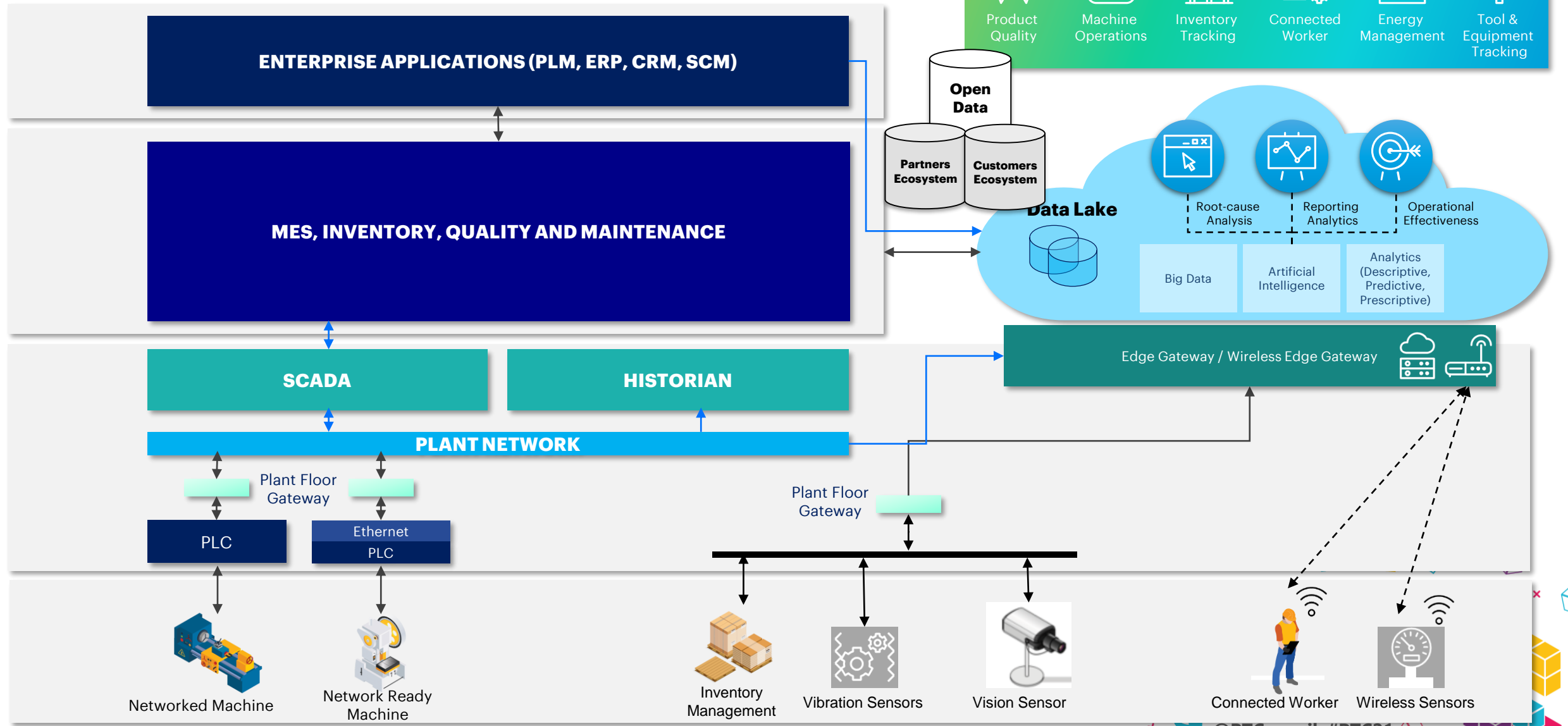
6.0 OPERATIONAL COMPLEXITY
4G and 5G co-existence, small cell network density, private network, business-centric

5G Use Case

Customer Segments	Consumer Mobile, Nomadic, Stationary	Small and Medium Business (SMB)	Enterprise Corporations, Sports, Media Companies, Higher Ed	Government Federal, State and Local, Education (K-12)	Industry Manufacturing, Retail, Health, Oil & Gas, Utilities etc.		
Enhanced Mobile Broadband (eMBB)	Fixed Wireless Access / Mobile 	Ultra Resolution Video / Next-gen Entertainment 	Next-gen Comms / Social / AI Assistant / Training 				
Ultra Low Latency (ULL)	Virtual Reality (VR) Augmented Reality (AR) Extended Reality (XR) 	Autonomous Vehicles / V2X Mesh / Edge Compute 	Robotics Automation Remote Operations 				
Massive Internet of Things (mIoT)	Massive Sensor Networks 	Smart City / Smart Spaces 	UAV Non-line of Sight Drones / Internet of the Sky 				
Deployments	In-Home	In-Building	Venue	Dense Urban	Urban	Suburban	Rural



5G + AI + IoT Example





Thank you!

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