

5G ACCELERATES ENTERPRISE APPLICATIONS

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THE DATA CENTRIC WORLD



WAS CREATED IN THE LAST





INDUSTRY MEGA-TRENDS

PROLIFERATION OF



ARTIFICIAL INTELLIGENCE



CLOUDIFICATION OF THE NETWORK & EDGE





5G - DNA FOR THE INNOVATION PLATFORM OF TOMORROW





ULTRA-RELIABLE AND LOW LATENCY



AVG. INTERNET USER 1.5 GB

OF TRAFFIC / DAY

(000) **AUTONOMOUS VEHICLES 4 TB**

OF DATA/DAY

CONNECTED AIRPLANE 5 TB

OF DATA/DAY

.....

SMART FACTORY

1 PB

OF DATA/DAY

CLOUD VIDEO PROVIDERS 750 PB

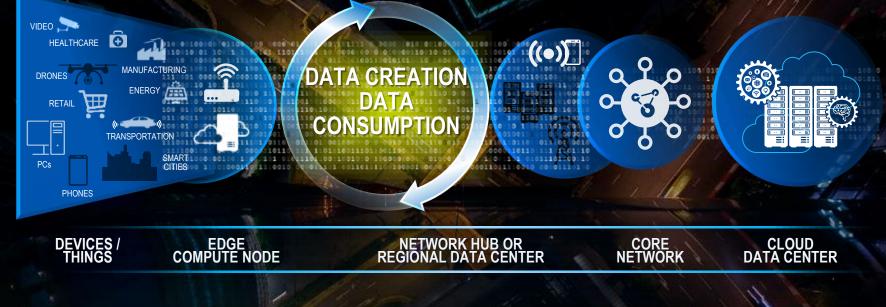
OF VIDEO/DAY



Source - Gartner - Edge Computing for Infrastructure / Operations Leaders

WHAT IS THE EDGE?

By 2022, 45% of data will be stored, analyzed, and acted on at the edge



TAKING ANALYSIS TO DATA



USE CASES ADOPTING EDGE



WAREHOUSE & MANUFACTURING



TRANSPORTATION



CONNECTED CAR



SMART CITY



EDGE CLOUD GAMING



INSPECTION & INFRASTRUCTURE

SMART STADIUMS



SECURITY, RECOGNITION, SURVEILLANCE



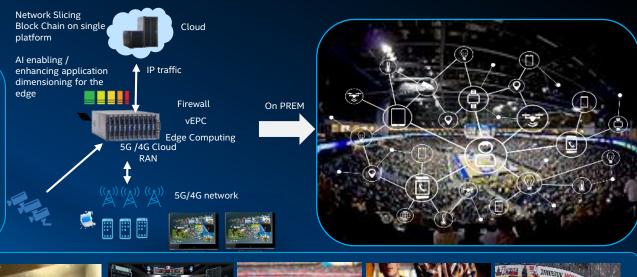
SMART VENUES

Massive Connectivity demanding capacity Vchat/Multi-Angle viewing

Game Data Acquisition and Analysis

Edge Server reduced latency of live video chat from ~30s to ~0.5s

Retail and recommendation opportunities **Operational and Entertainment services**





Adaptive Transcoding





Retail, Recommendations Services



AR/VR Edge for

(DSS)

Video Security Surveillance

360 VR live broadcasting/replay



Hologram



Live Video Chat

Crowd Management



Facility Management

Gaming



SI MILTRE

Tracking

CDN Edge for events/Inference

HOSPITALITY

Streamlined Owners/ **Brands Interactions**





Consolidated Hotel Operations

BRANDS



peak data transfers



Streamlined Owners-Brand Interactions



Higher Guest Satisfaction





OWNERS



CUSTOMERS





RETAIL DIGITIZATION



BENEFITS : ADDITIONAL PRIVACY, LOW LATENCY, QOE, CONTROL OF LOCAL CONTENT, HIGHER EFFICIENCIES, WORKLOAD CONSOLIDATION



MEC PLATFORM

TODAY





TOMORROW





inte



INDUSTRIAL PRIVATE NETWORK



MANUFACTURING MOVES COMPUTE & ANALYSIS TO THE EDGE WITH AI, BLOCKCHAIN, ...









SMART CITY

42 Million Visitors 650K Residents



192

Entertainment





Innovation District





Facilities

Safety

Consumer Experience

Efficient City Operations

Full-proof Public Safety





KEY PAIN POINTS BANDWIDTH / CONTROL OF CONTENT

LOW LATENCY / REAL TIME





ADDITIONAL SECURITY / PRIVACY



INCREASED RELIABILITY

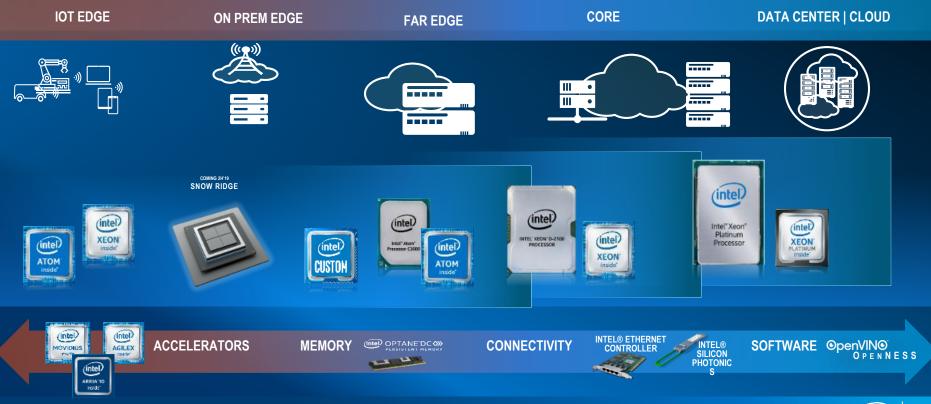
PROVIDE

REMOVE HURDLES

- On prem wireless connectivity & management (private & public)
- Enable multi-tenant secure switching/routing/ communications
- Automate manage services / SLAs insure security/privacy



INTEL'S TECHNOLOGY FOR NETWORK & EDGE



SUMMARY

- 5G is just not connectivity. It's an innovation platform of tomorrow for enterprises.
- Latency, increased bandwidth and improved coverage are the key 5G elements.
- More and more data will be captured, analyzed and monetized at the edge vs cloud.
- Intel is well positioned with its rich portfolio of products to support endto-end transformation.
- Multiple use cases across the globe will drive the 5G to reality.



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