

The New Open "Edge"

IOT+Telecom+Cloud+Enterprise+Industrial

 LF EDGE

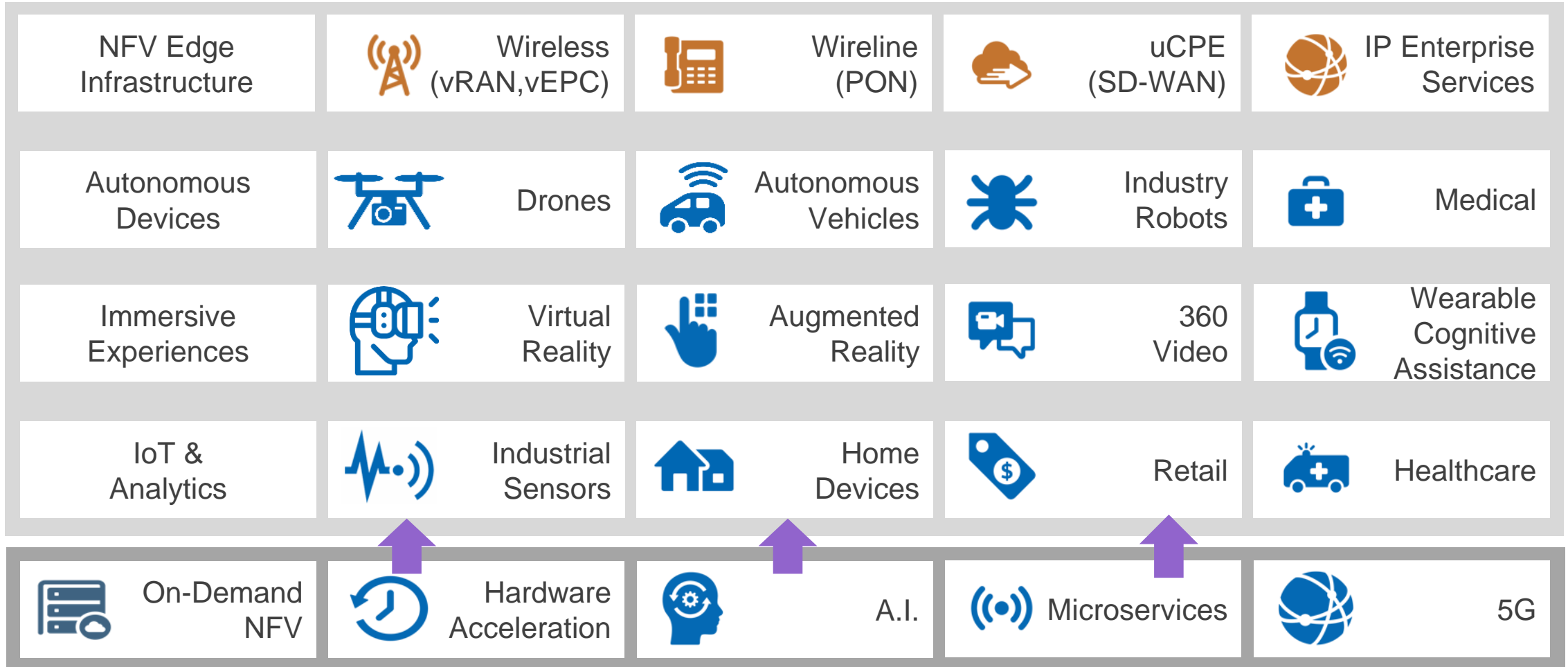
Tina Tsou
LF Edge Board Chair
June 2022

 THE **LINUX** FOUNDATION

Why Edge

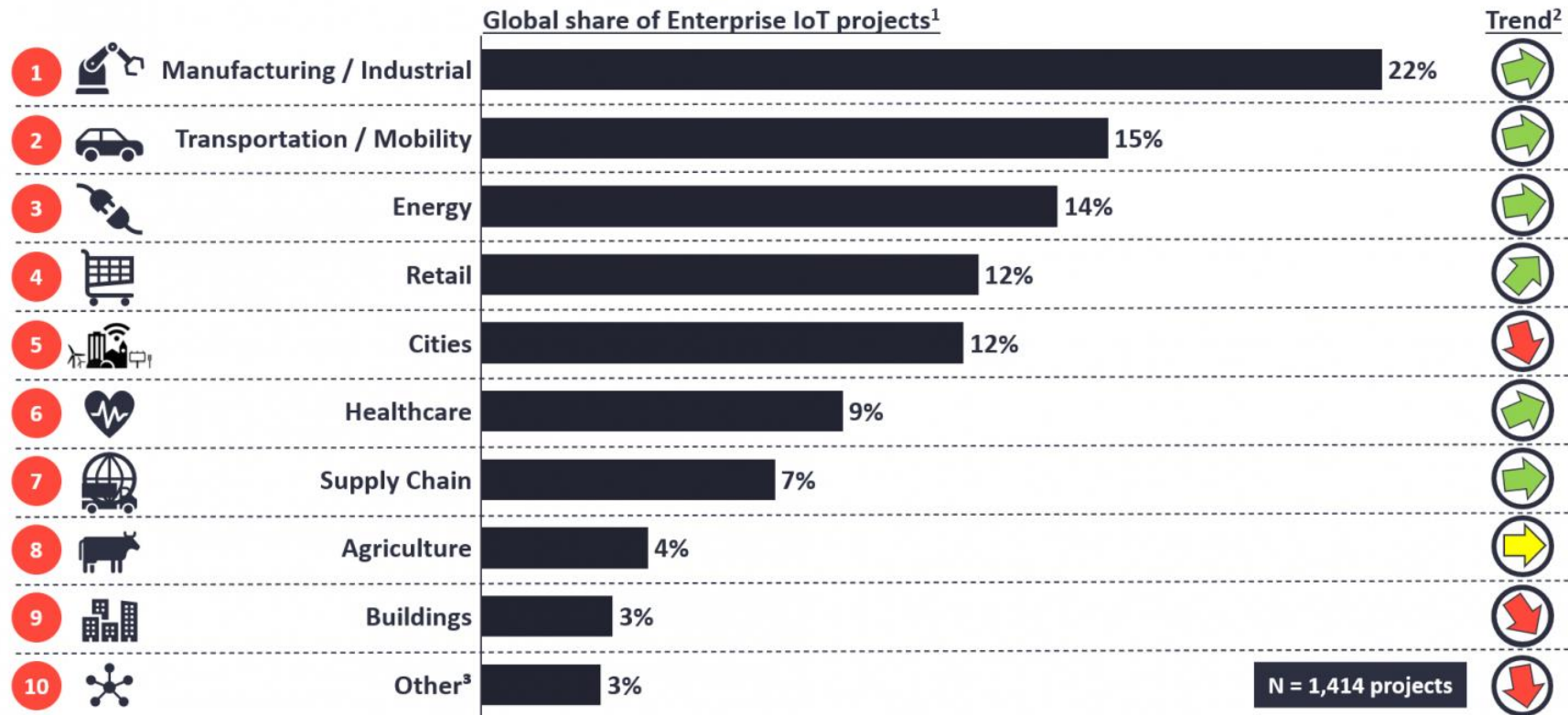
Emerging Edge Applications & Convergence of Technologies

are demanding & fueling lower latency + accelerated processing



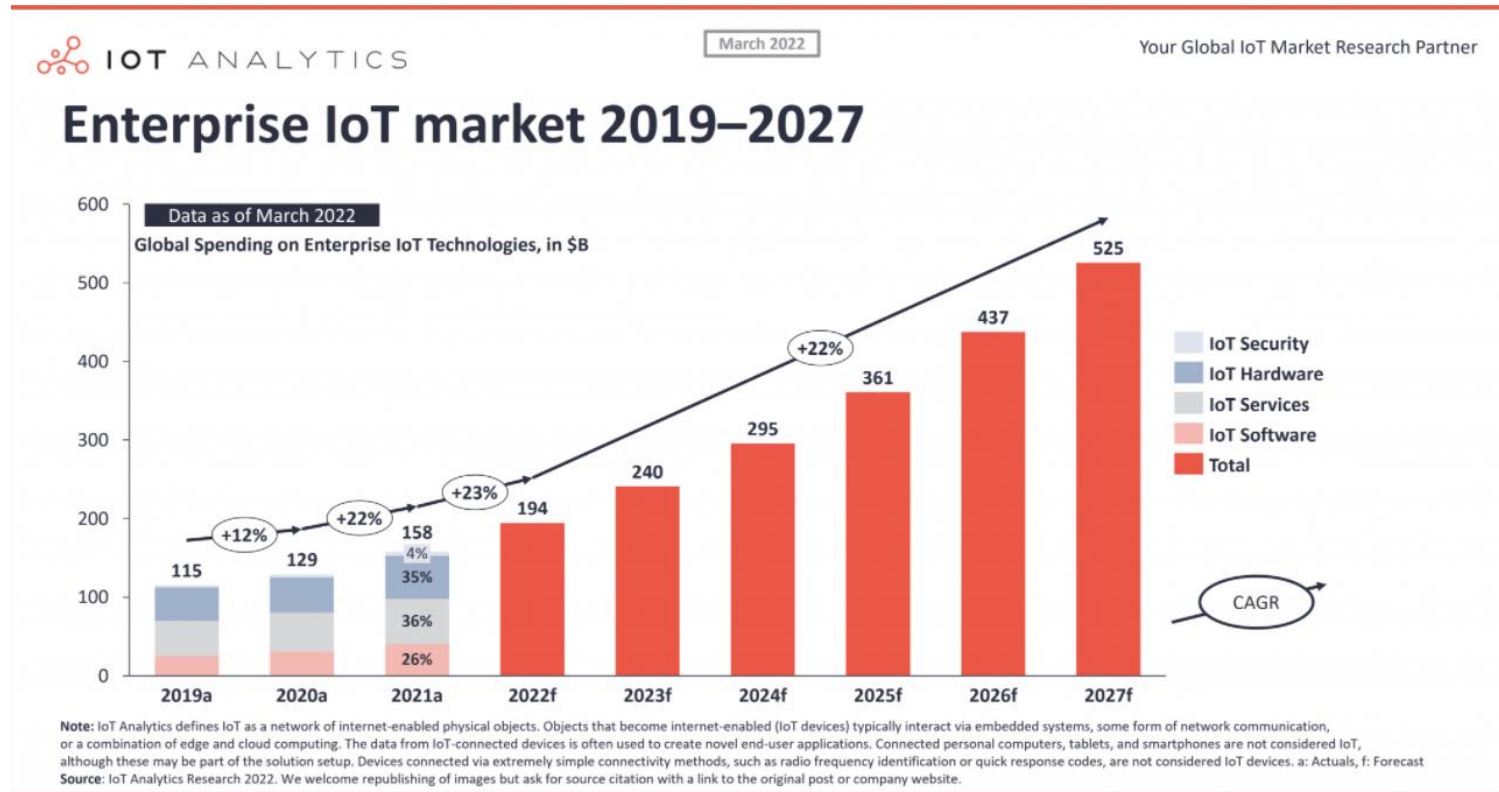
IOT Killer apps 2020

Top 10 IoT Application areas 2020



Note: 1. Based on 1,414 publically known IoT projects (not including consumer IoT projects eg smart home, wearables, etc.) 2. Trend based on relative comparison with % of projects in the 2018 IoT Analytics IoT project list e.g., a downward arrow means the relative share of all projects has declined, not the overall number of projects. 3. Other includes IoT projects from Enterprise & Finance sectors. **Source:** IoT Analytics Research - July 2020

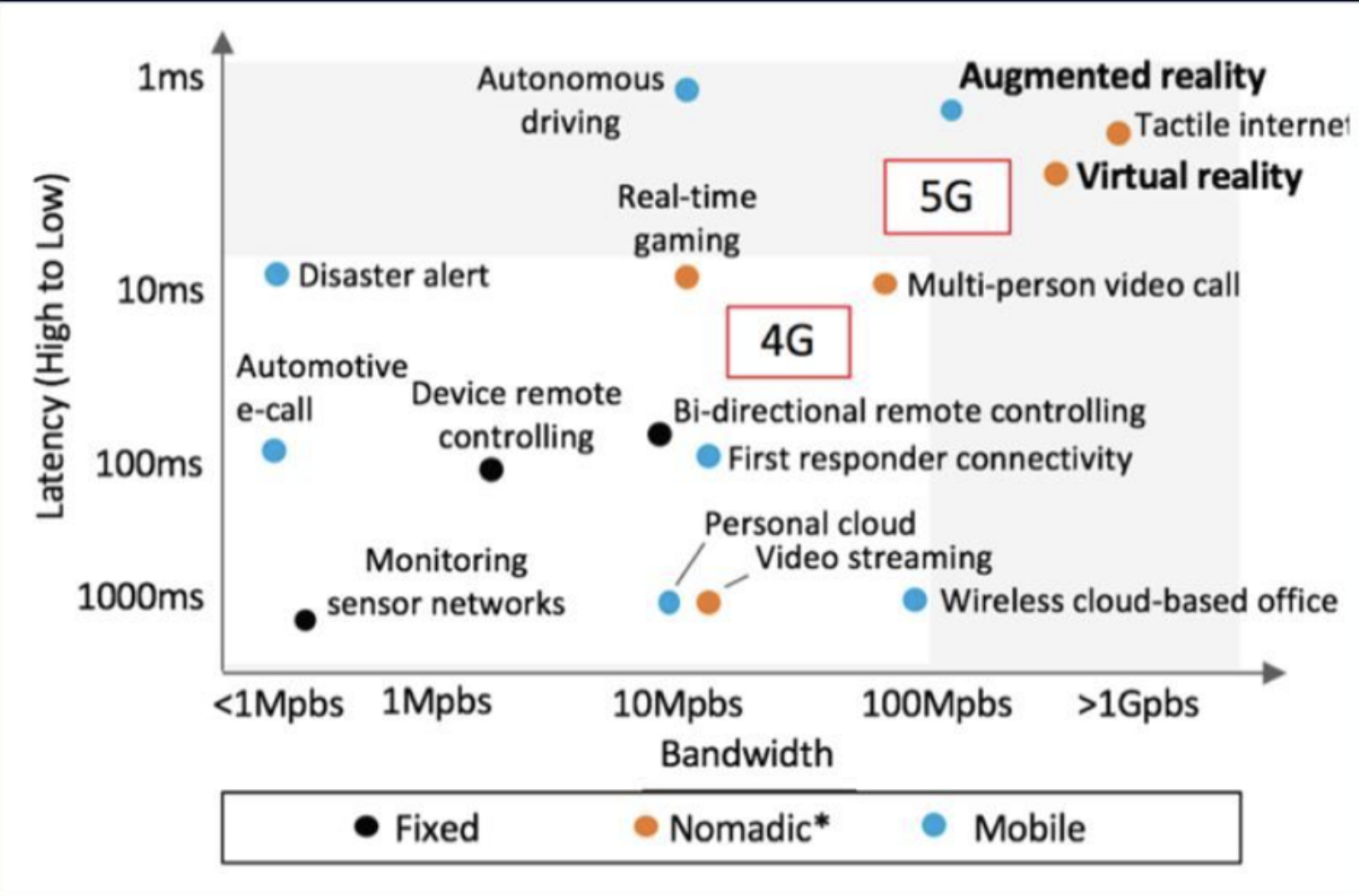
<https://iot-analytics.com/iot-market-size/>



Slide on McKinsey Report on IoT

<https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/iot-value-set-to-accelerate-through-2030-where-and-how-to-capture-it?cid=other-eml-nsl-mip-mck&hlkid=553ed7508f214bd5ba811684d33866a2&hctky=11384639&hdpid=69d8e649-dc7d-4735-ab44-f74c92f1a37d>

AT&T : Projected network demands of emerging technologies !



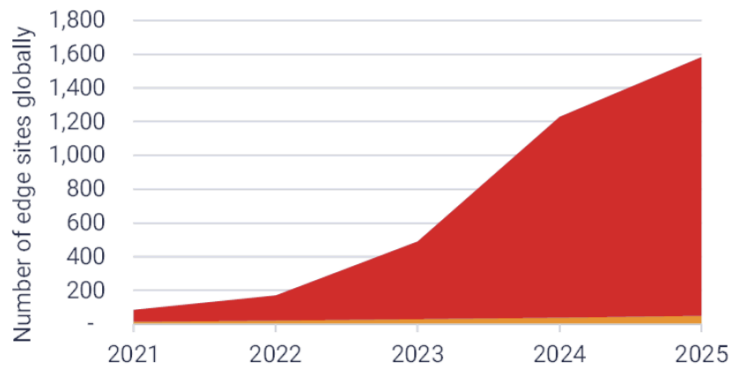
	Level of Mobility	Markets Captured
Accelerated Uptake	Truly Mobile (Cellular)	<ul style="list-style-type: none"> Retail Engineering & Field Operations AR Entertainment Military/Public Service & Safety Real estate
Base Case	Nomadic (Wi-Fi)	<ul style="list-style-type: none"> Education Healthcare Video Entertainment Live event streaming
Delayed Uptake	Fixed (Ethernet)	<ul style="list-style-type: none"> Video gaming

*Nomadic: Connectivity is wireless but not ubiquitous - limited to disjointed hotspots

https://stlpartners.com/research/forecasting_capacity_of-network-edge-computing/
<https://stlpartners.com/research/edge-computing-market-sizing-forecast/>



Number of edge sites globally by location type

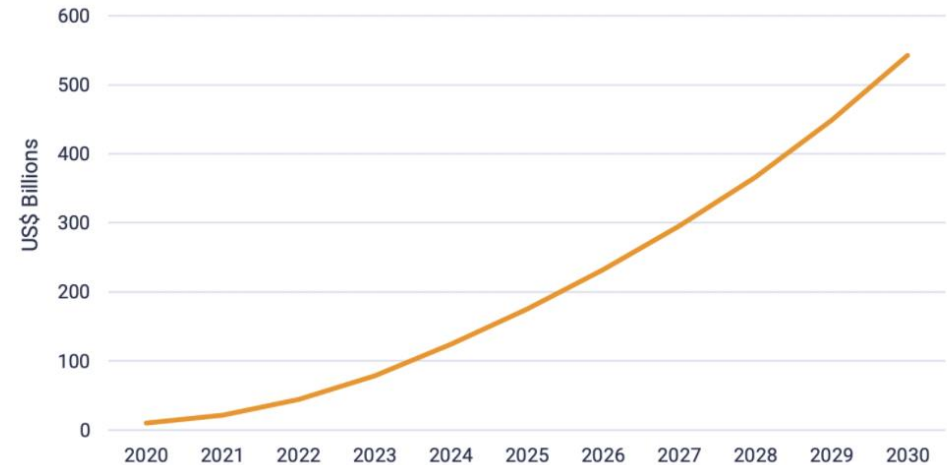


■ Access aggregation ■ Transport aggregation

Edge site within access network that provide functionality across multiple access points (e.g. base stations)

Edge site within transport network; regional/metro nodes on a national backbone

Total edge computing revenue 2020-2030



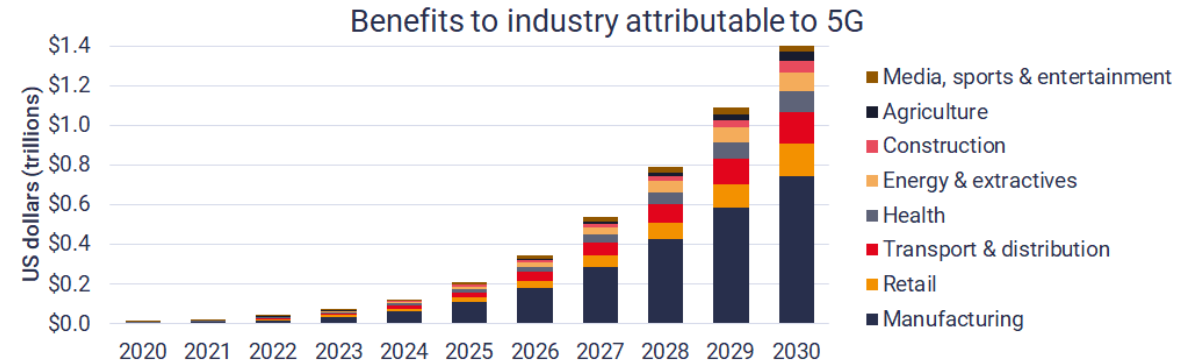
5G and Edge Critical in the Next Battle, a new normal!

Edge is 4X the Size* of Cloud Market !

“As businesses and governments establish their own new normal, **5G and Edge computing** will be necessary to deliver the automation, performance and cognitive insight required by many industries—including manufacturing, healthcare, energy and utilities, among others. Telecom operators will need to embrace open ecosystems to externalize innovation and accelerate new services.”

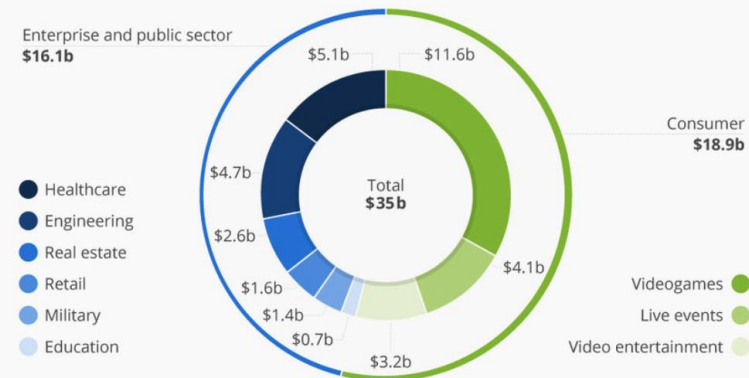


<http://www.chetansharma.com/publications/edge-internet-economy/>



The Diverse Potential of VR & AR Applications

Predicted market size of VR/AR software for different use cases in 2025*



* Base case scenario
@StatistaCharts Source: Goldman Sachs Global Investment Research

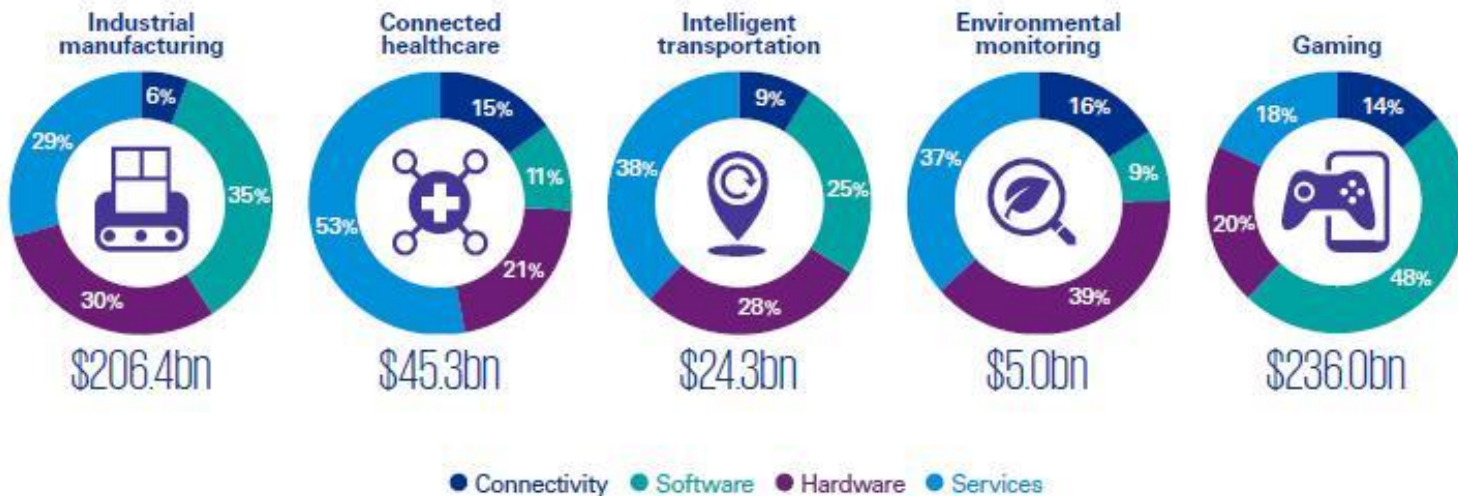


How VR and AR will be used in 2025

Image: Statista

Top 5 Edge Markets - KPMG

The US\$517bn 5G+Edge ecosystem across just five industries



1. Industrial Manufacturing
2. Energy (Oil & Gas, Utilities)
3. Commerce/Retail
4. Homes (including B2B2C use cases)
5. Automotive
6. Fleet/Transportation
7. Logistics
8. Building Automation
9. Cities and Government
10. Healthcare