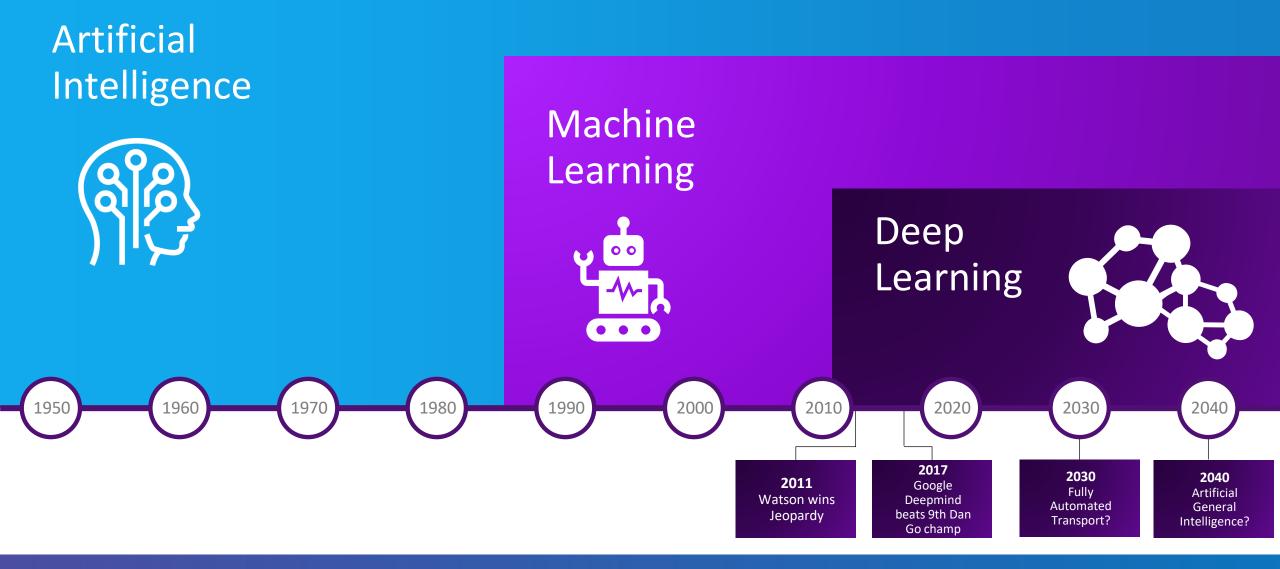
## **COMMSCOPE**<sup>®</sup>

## HITS Spring 2022 NAB 22 Review

May 19<sup>th</sup>, 2022





## AI, Machine Learning and Deep Learning Timeline

## **Servers With Accelerators Deliver Deep Learning**



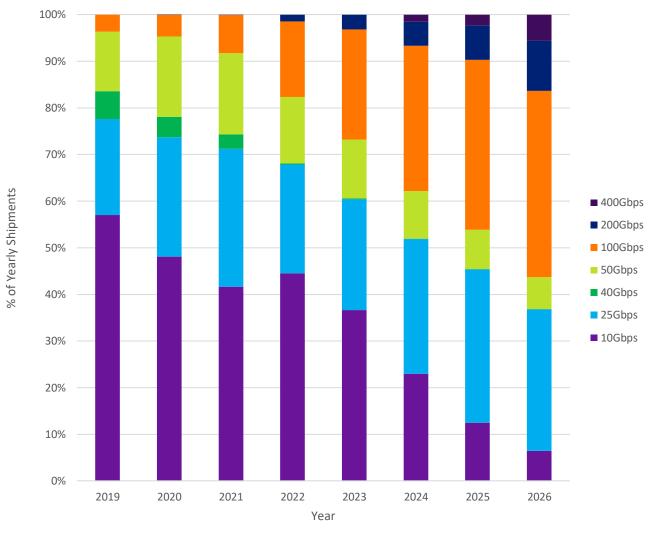
**Google TPU** 

**CPU** 

ntel



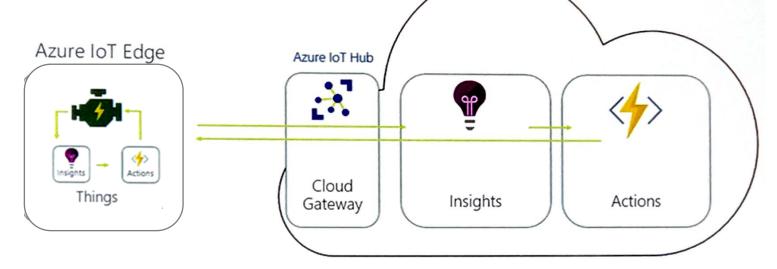
**GPU** 



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### AI – Models From The Core Implemented At The Edge

- Machine Learning at the Edge
- Edge IoT data sets used to train models
- Models deployed to the Edge
- Feedback from Edge AI to Core Deep Learning
- Models evolve and are deployed at the edge
- The Cycle continues

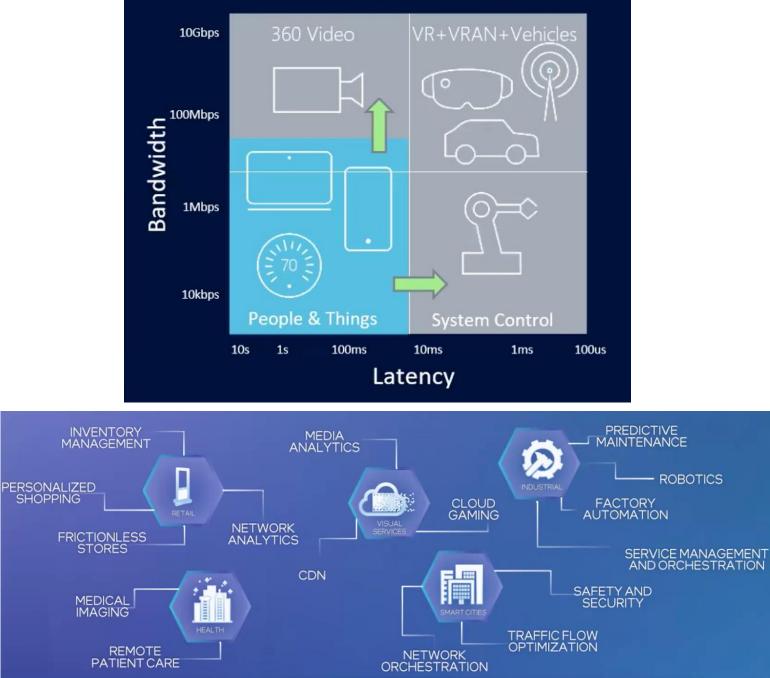


# Why move to the edge?

A network to enable application evolution

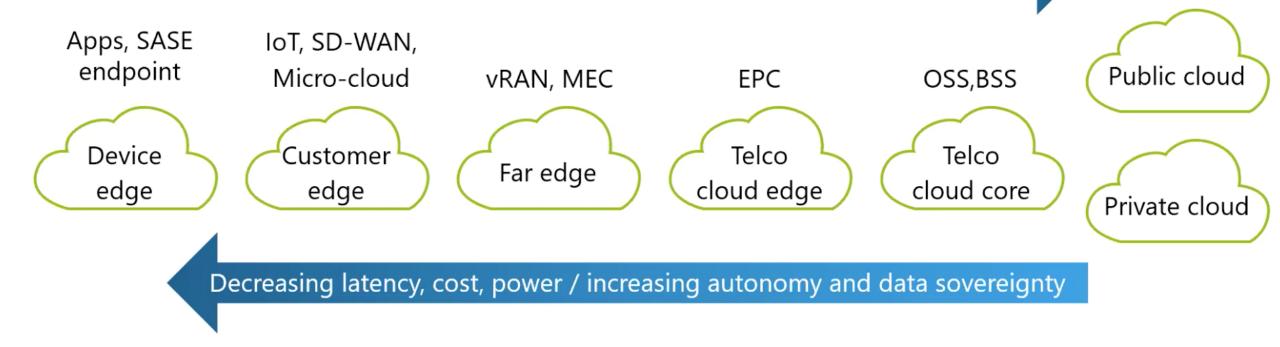
"Because no one can beat the speed of light"

#### INDUSTRIAL APPLICATION REQUIREMENTS



1 – Albert Rafel, BT

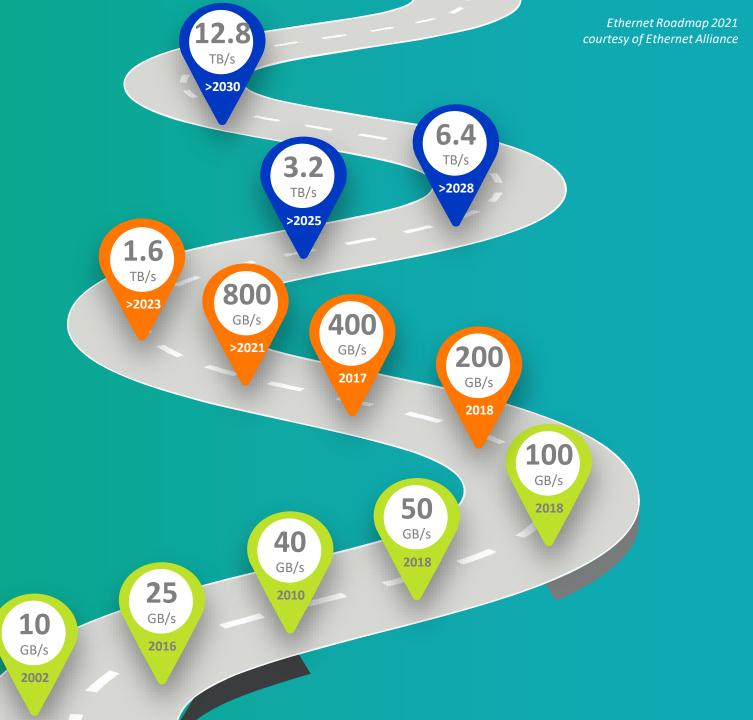
#### Increasing scale, elasticity, reliability, bandwidth, cost



A Telco would view the edge from their current network perspective

## COMMSCOPE®

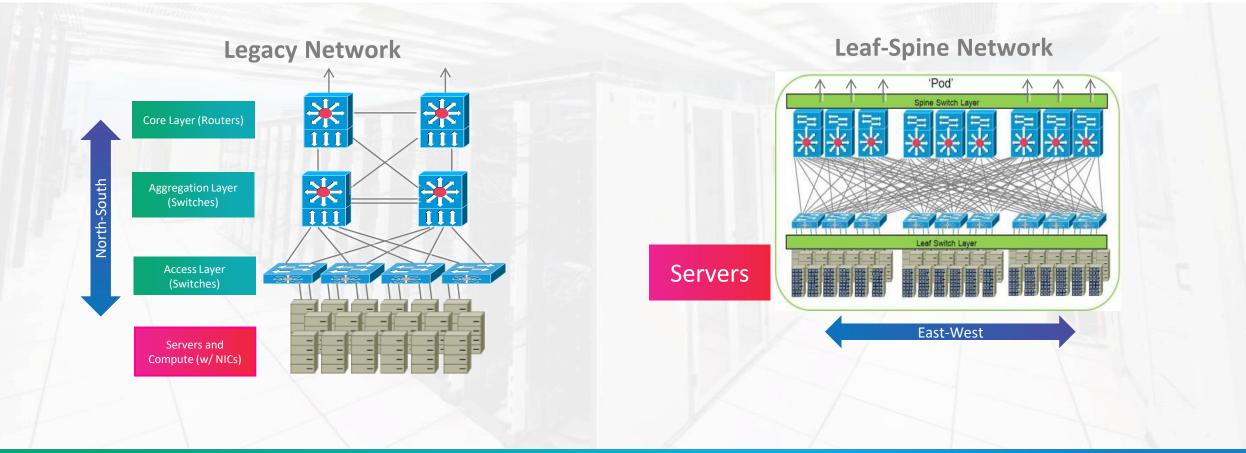
## Capacity Crunch Drives Network Speed Investment



Ethernet Speed in Possible Speed Development Future Speed

### Cloud compute is different

- Change/Risk to upgrade strategies
- Higher speed support when?
- Can I support new network topologies?



## DC network topologies continue to evolve

# Efficient network architectures

