

# The 5G Journey... and the 6G Destination

Hyperconverged Networks: Space + Terrestrial

The Undiscovered Country  
The Journey to AI Native 6G Networks

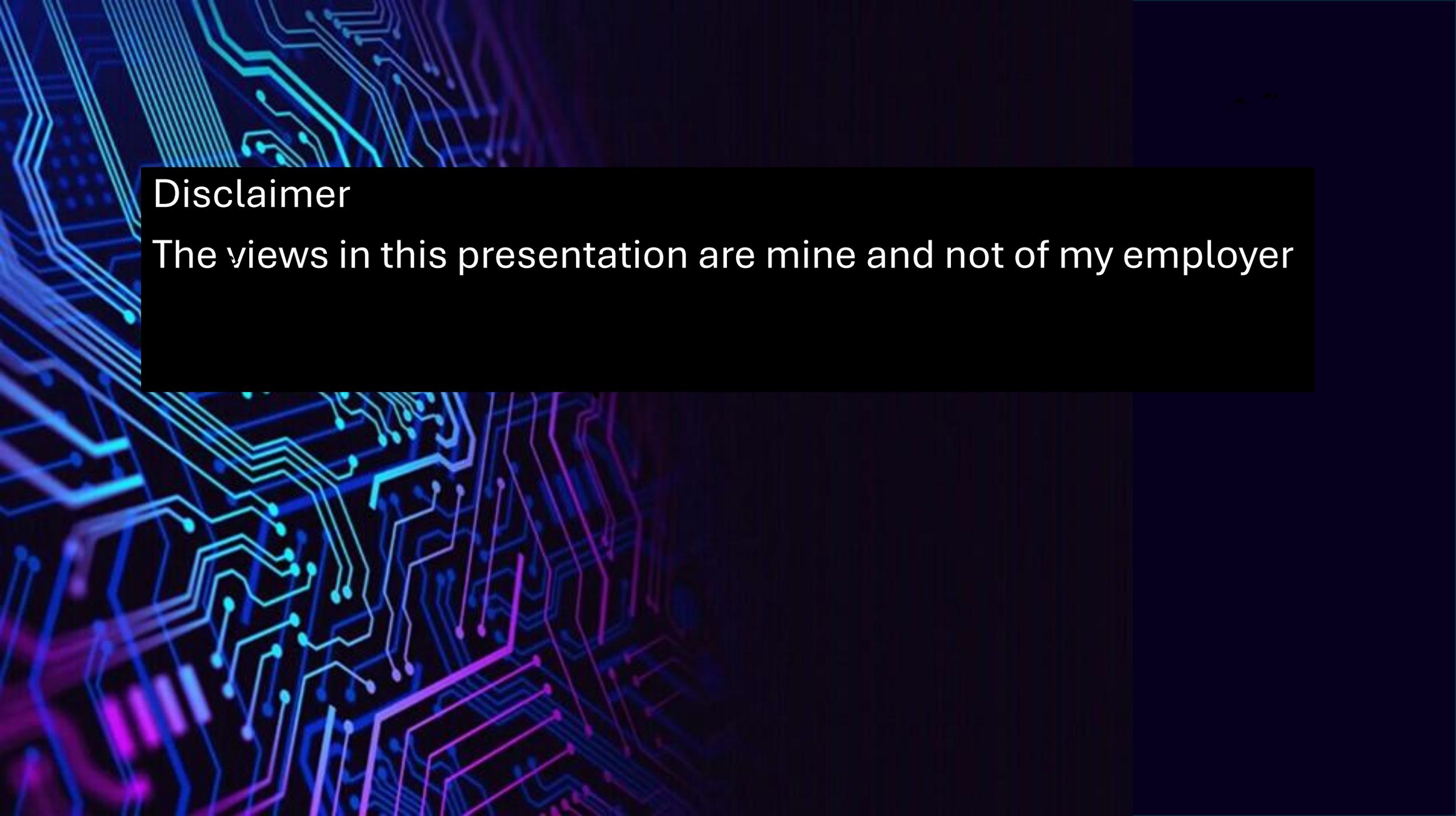
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**c21-virtual**

the 5th epoch series





## Disclaimer

The views in this presentation are mine and not of my employer

# The Undiscovered country

The unknown realm beyond the current 5G implementation



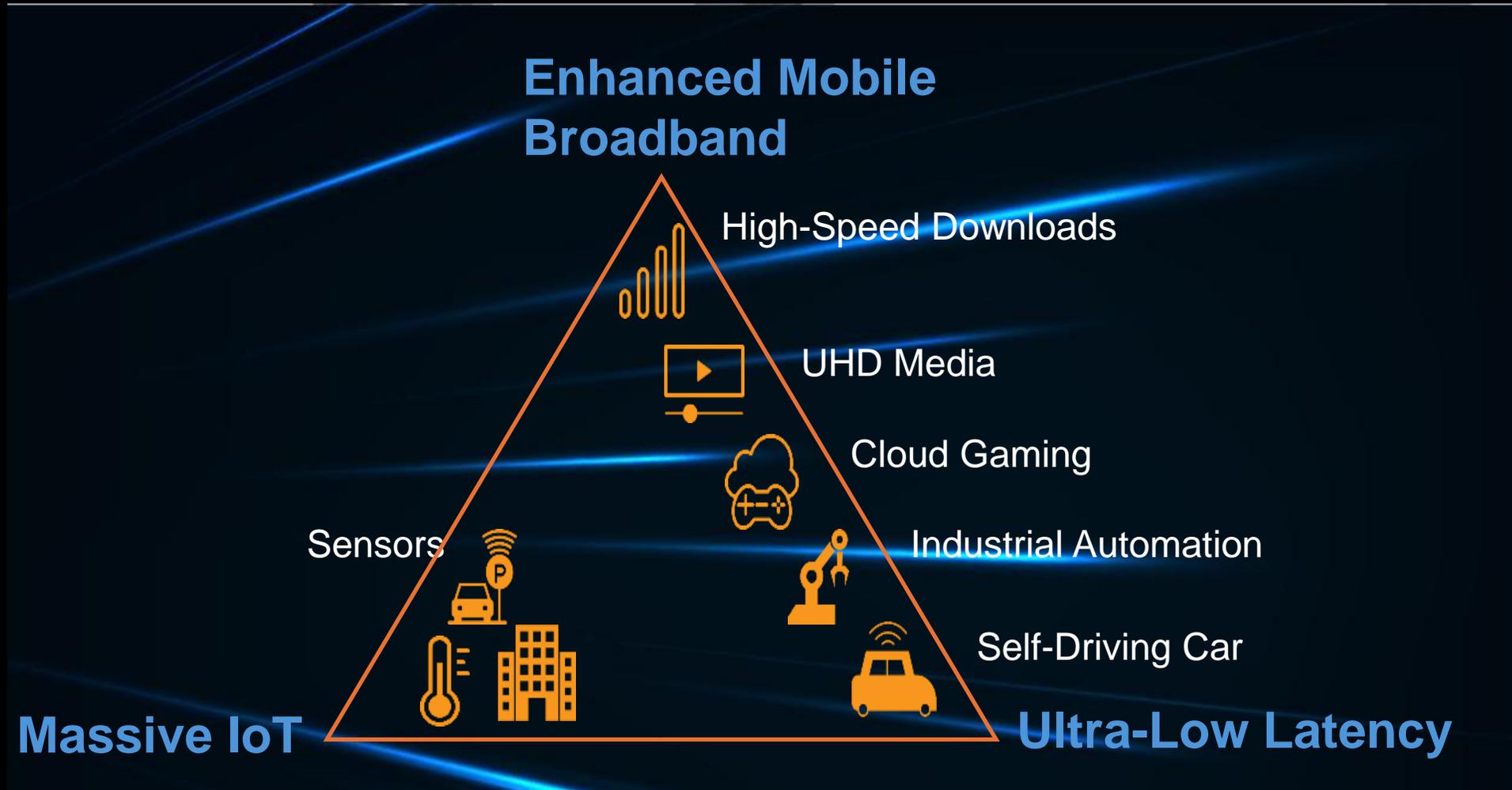


## 5G a retrospective

### Essentially

- Move to Cloud Native
- Improved spectral efficiency

# The 5G Triangle





## The challenges with 5G

- Coverage
- Energy
- No new breakthrough services and devices
- Geopolitical distractions

## The surprises

- AI
- Non-terrestrial networks

## What does 6G promise?

- Terahertz communication
- AI-native networks
- Quantum communications and security
- Holographic and tactile internet
- Sustainable networking: Green energy and low-power architectures
- More alternative networks such as private networks and Satcom

# The AI Network

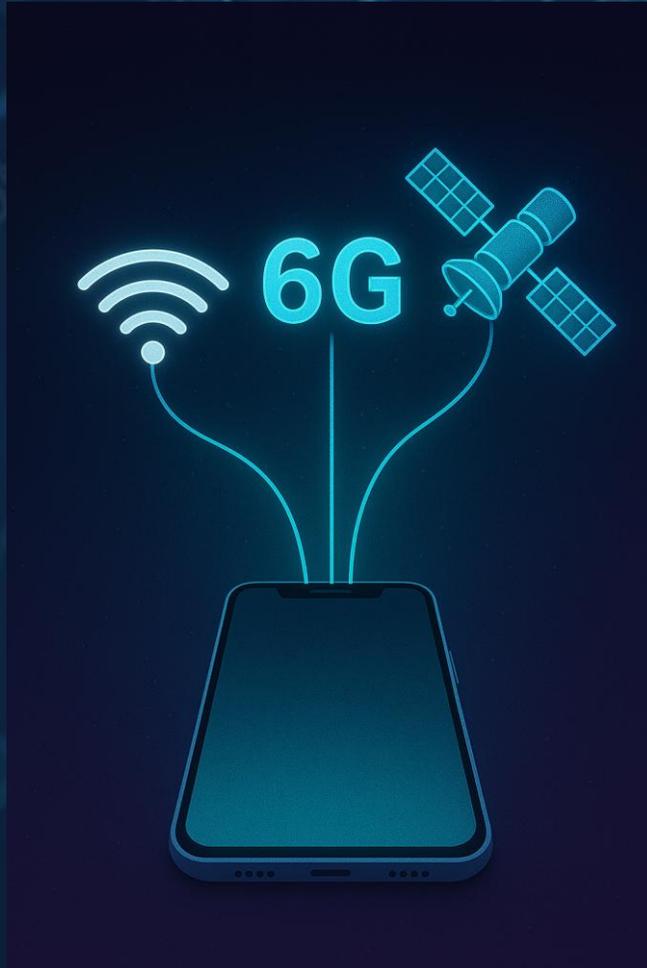
- Intelligent routing for training and inference
- AI will become standard in all aspects of software including services and networks
- AI services such as those using video augmentation will require low latency and be on the edge
- The services will require access to GPU clusters as well as managed cpu so will rely on the hyperscalers

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# The AI Network



# Coverage



- 6G Public
- Previous generations
- Private networks
- WiFi
- Satcom

## Key take aways

- 5G is still being built out and requires more work to achieve the required coverage
- 6G will be AI centric which brings the opportunity of innovative services as AI technology evolves
- Coverage will be improved using a number of network options (public, private and Satcom)



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