



Disruptive Analysis

Don't Assume

Metaverse Connectivity

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Image credits: Pixabay.com / Dean Bublely

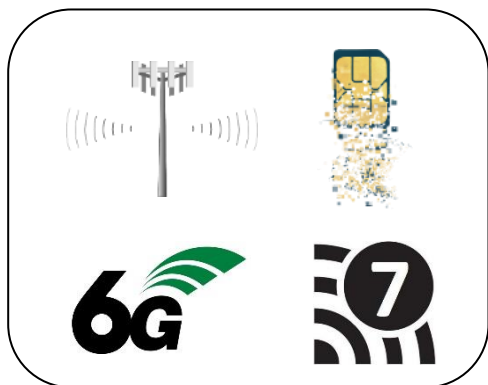


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Dean Bublely & Disruptive Analysis @disruptivedean

- Tech/telecom analyst & strategic consulting since 1991
- Covering Internet, 5G, 6G, Spectrum, FTTX, Wi-Fi, Edge/Cloud...
- Advisor to telcos, large & small vendors, investors, government
- Not afraid to criticise my own clients (or industry groups)
- Biases: Against monopolies, lazy incumbency & hype



**Network Tech, Policy
& Business Models**



**Communications
Apps & Services**



Telecom-Futurism



**Industry Analyst
Consulting &
Reports**




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Immersive experiences don't always need Gbps & URLLC



KOGNITIV SPARK

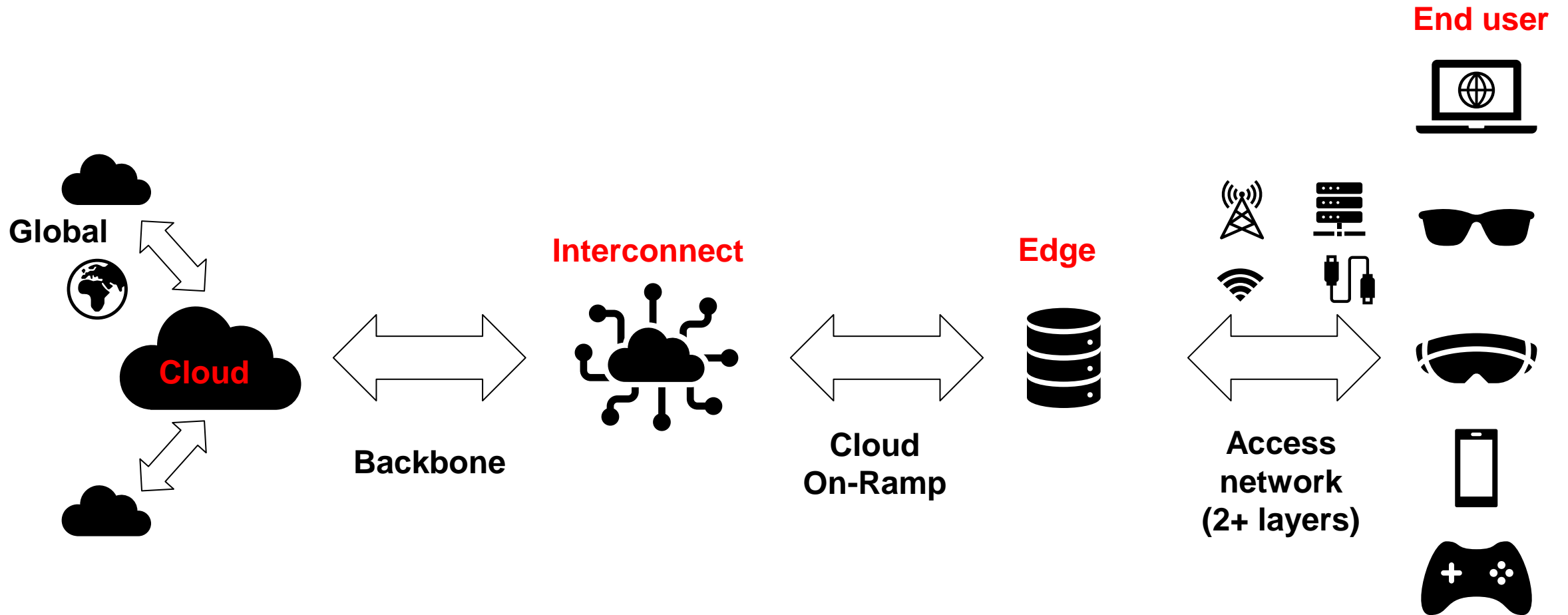


Low-Bandwidth Capabilities

Ideal for remote locations, a minimum of only 128kbps is required to operate voice & video calls, including 3D holograms, and IoT integrations. Reliable calls can run while connected to a mobile hotspot.



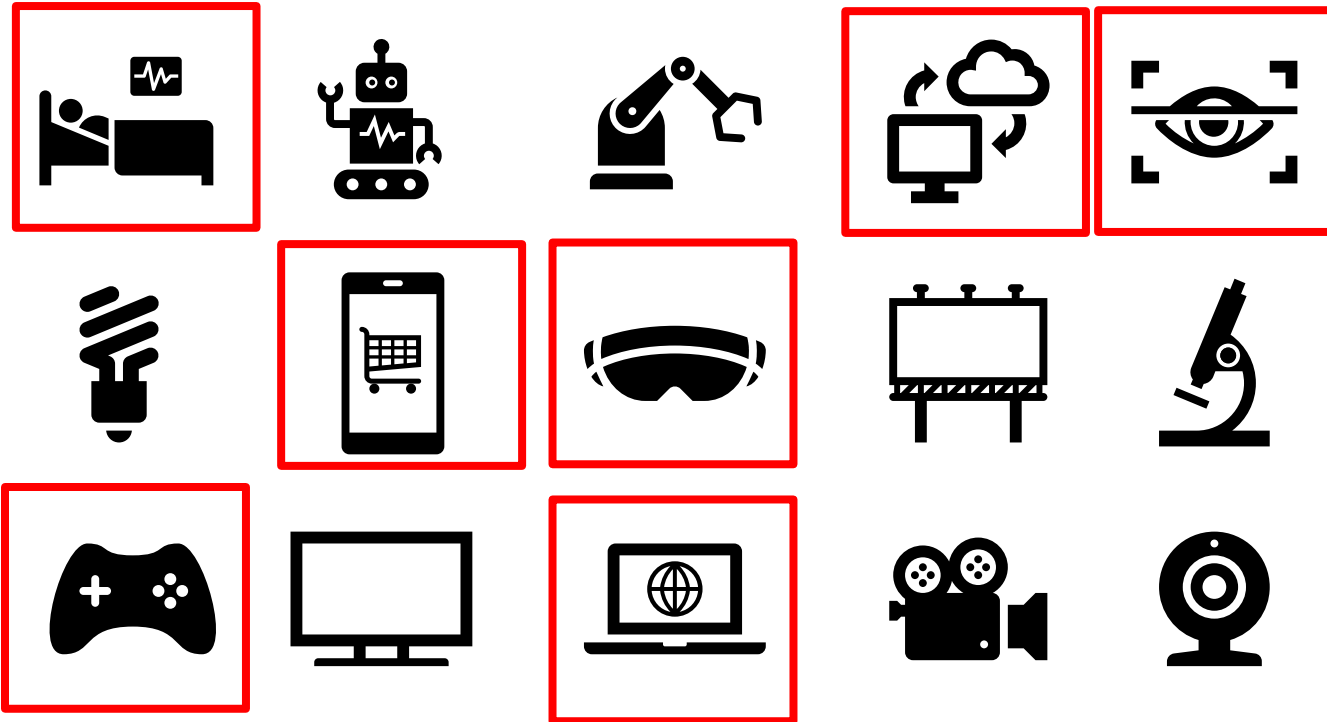
Many different network connections for metaverses



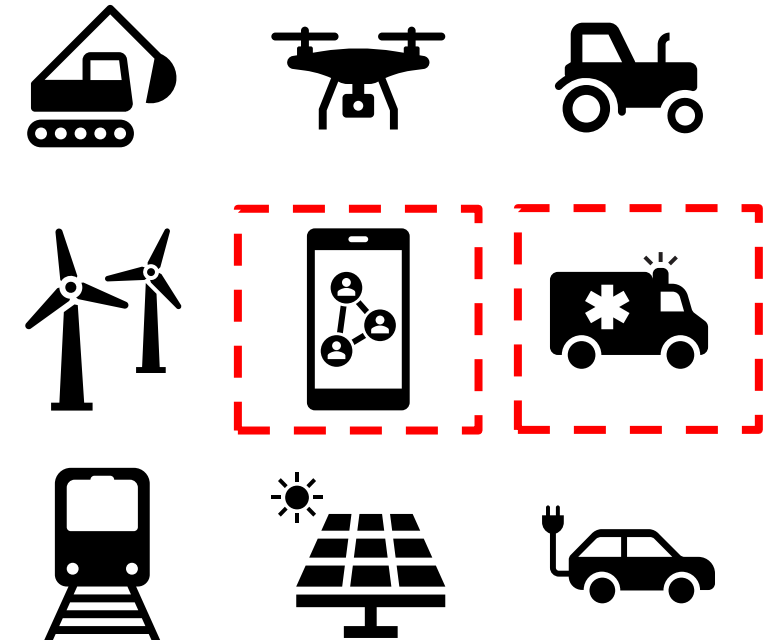


Most AR/VR/MV use-cases, apps & devices are indoors

Indoor

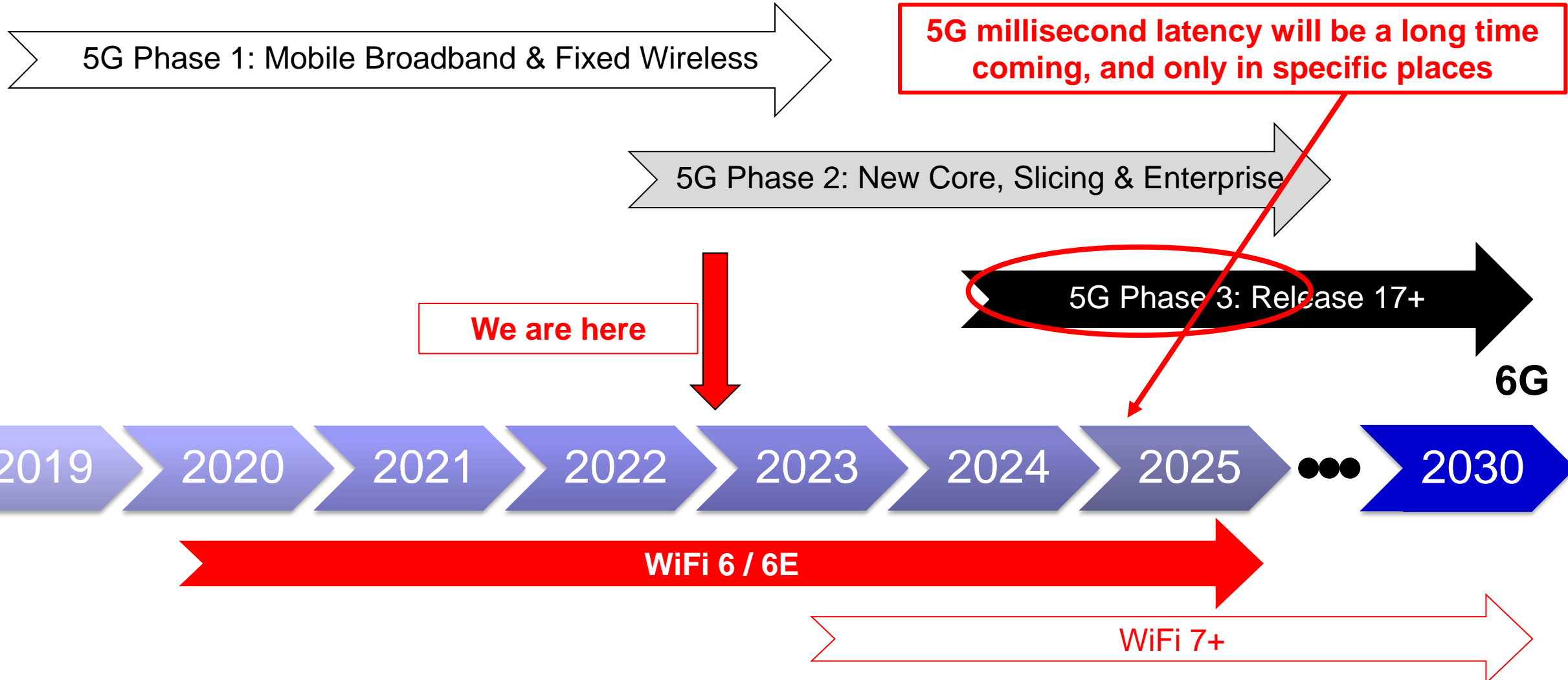


Outdoor





5G capabilities will be phased; WiFi 7 before 5G Rel 17





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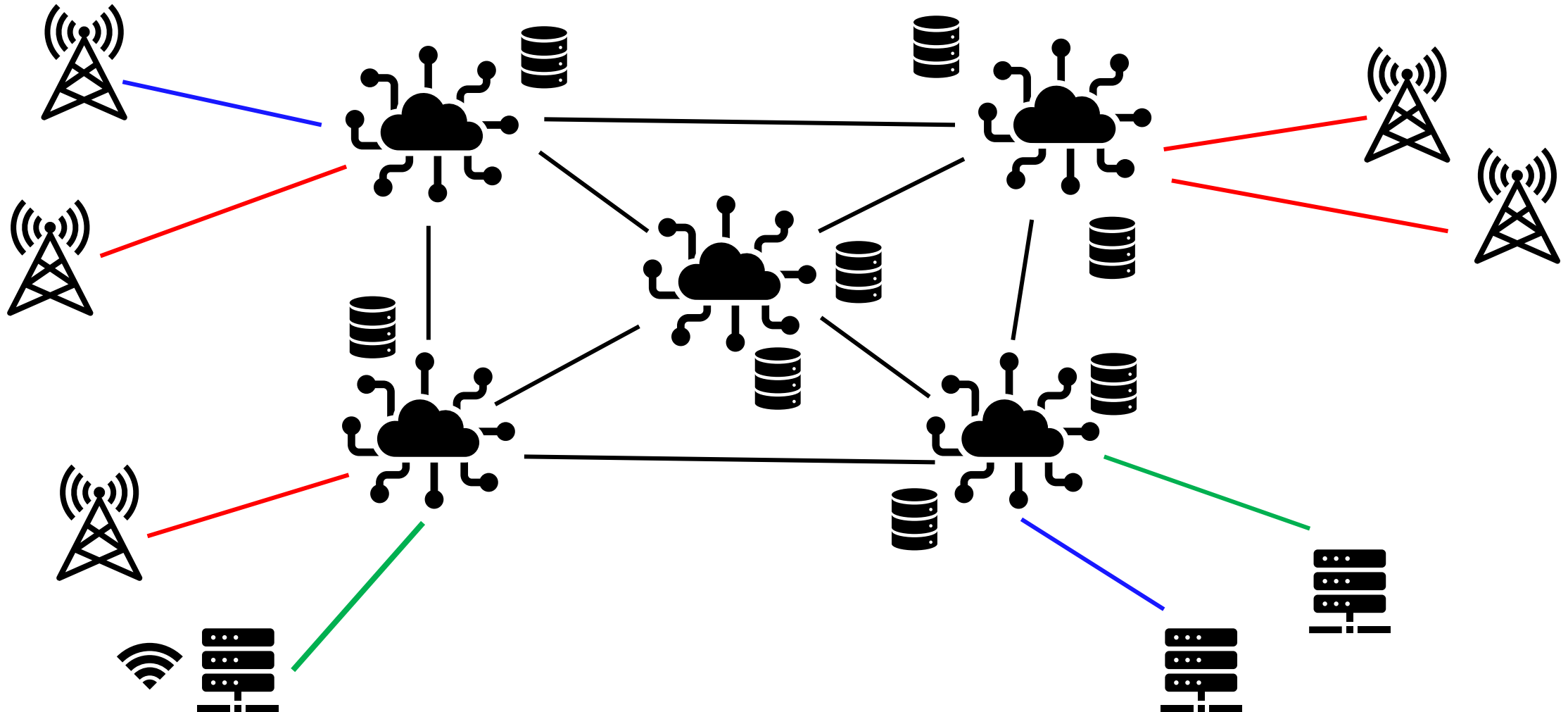
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A thought experiment....





Edge interconnect: as important as edge computing





What is the m/Metaverse opportunity for CSPs?

The screenshot shows a LinkedIn post from 'Dean Bubley's Tech Musings'. The main image is a digital rendering of an elephant standing in a rustic, stone-walled room with a fireplace, a deer head on the wall, and various objects like a lantern and a wheel. Below the image, the article title 'No, the Metaverse is not the killer app for 5G' is displayed, along with the author's name 'Dean Bubley' and his title 'Outspoken Industry Analyst, Strategy Advisor & Chair/Speaker on Telecoms, 5G, Wi-Fi, Spectrum Policy, IoT & Futurism'. The article was published on November 2, 2021. At the bottom of the post, there is a line of text: 'Let's stop the next cliché before it even starts.'

- 10-15 year evolution path
- AR / VR / MV mostly used indoors
- Expect WiFi 6/7 or 5G/6G small cells
- Forget “decentralised wireless” for MV
- Many metaverses, not **The** Metaverse
- Many experiences / network traffic profiles
- Lots of uplink (video, LiDAR, sensors etc)
- Maybe scope for edge compute
- Will require local breakout / peering
- Strong links to cloud platforms / functions
- Likely telco opportunities – but not obvious!



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