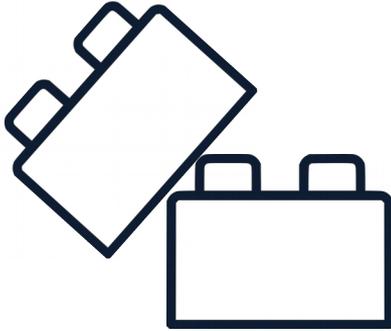




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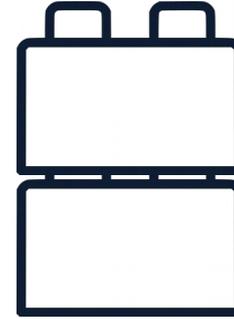
How is your 5G Innovation Strategy?



The Sprint - One Vendor, One Network

Vendors offer closed and proprietary end-to-end solutions, focusing on one technology only

The result is multiple solutions stacked together with complex network architectures, difficult to manage and control



The Marathon - Invest in sustainable growth

Flexible networks seen as cloud-native end to end platforms that scale fast.

Compete with hyperscaler cloud companies - solutions seem to be tailored and purposely made, but the solution has low customization

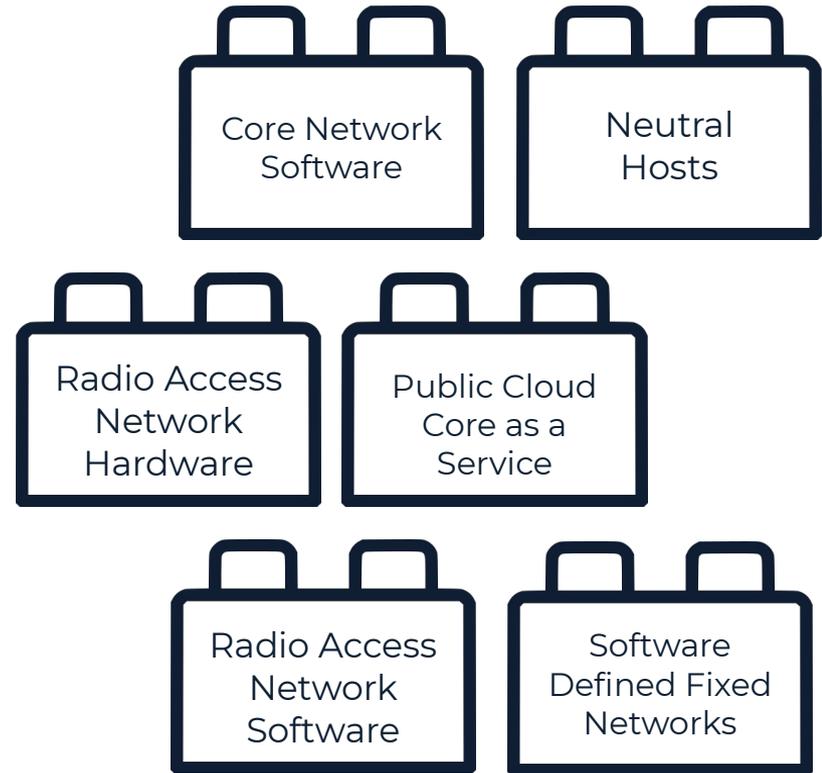
Disaggregation means Mix and Match ... Plug and Play!

Cost savings are maximized when applied to all domains with E2E view

Open interfaces and Open standards are key to ensure interoperability across components and technologies

Traditional security models do not apply to the interoperable models

How can all of these pieces come together in a secure way?



We are building **Cell Stack**, a software layer that leverages our own messaging system, **wireMQ**.

To reduce barriers to innovation and increase security within diversified infrastructure ecosystems



Open-interfaces and open-standards: allows more participants to enter the market which will increase the supply of connectivity

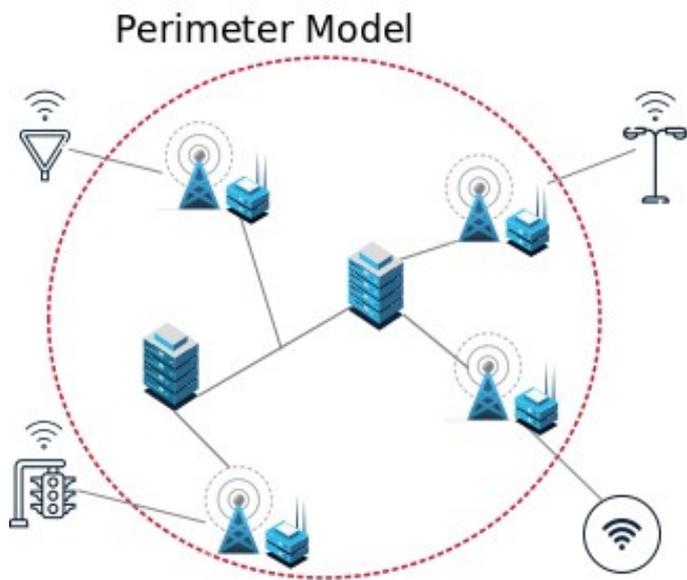


Focus on Security: Cell Stack and wireMQ are built from the ground up with security as the main goal

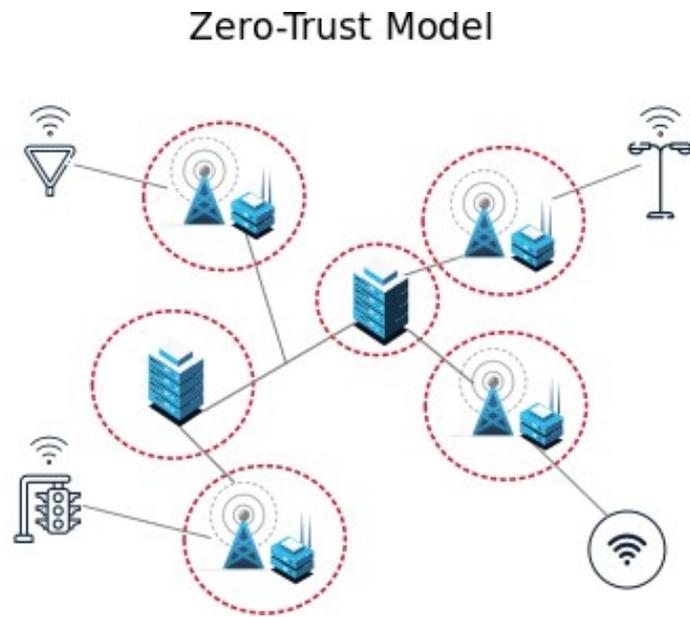


Makes networks more reliable in the market: we strive to minimize security vulnerabilities as networks become more and more virtualized.

In order for interoperability to work, the traditional security model needs to change, just ask UK NCSC



...



- Security by obscurity as a result of traditional security models
- With virtualization the perimeter disappears...

- Authenticate everything
- Authenticate everywhere
- Know your assets!

Smart Junctions 5G



Department for
Digital, Culture
Media & Sport



£2.36m



Innovative SME who specialises in bringing Machine Learning products to the Road Infrastructure Market



Transport for
Greater Manchester

Transport Authority with an established relationship with the Smart Junctions product, and a track record of fostering innovation in the transport sector



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Innovative SME creating Cell Stack and wireMQ that aim to promote interoperability and security

Smart Junctions 5G
Using Reinforcement Learning
to optimize urban traffic

Innovative business model which leverages capital funding to improve productivity, and private sector revenue to provide long term sustainability

Smart Junctions 5G Objectives



Demonstrate Benefit to Smart Junctions of 5G

Remove civils and hardware costs

Fully understand impact of latency

Cost Benefit Analysis of 5G vs alternatives

Smart City Use Case

Delivery of a 5G Private Network

Cost-effective Cloud-Native disaggregated Network (O-RAN)

Use Cell-Stack for seamless integration of connectivity assets

Prioritise Cyber-Security in a multi-vendor Network

Vendor Diversification

Demonstrate long-term commercial Benefits

Network as a Service commercial model for public sector

Integration of private/public Networks

Build a Sustainable model for Local Authorities to own infrastructure

Business Model



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