

Comp-0-Ran

Graham Currier

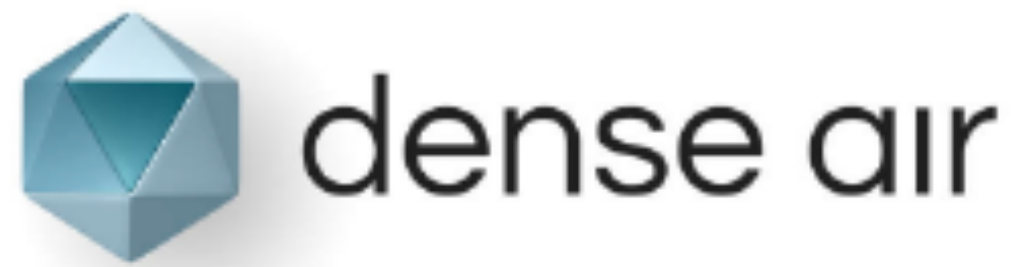


Department for
Digital, Culture,
Media & Sport

**UK
5G**

**Innovation
Network**

Project Lead:



Neutral Host Network Operator

Project Partners:



Intelligent Software Algorithms



Based on an Open Architecture



5G Small Cell Technology

CoMP

O-

RAN

WHY: Revolutionizing the performance and cost-to-deploy for densified 5G New Radio (NR) outdoor small cell clusters.

HOW: Using Intelligent Software Algorithms to capitalise on the advancement of 5G Small Cell Technology which is based on an Open Architecture

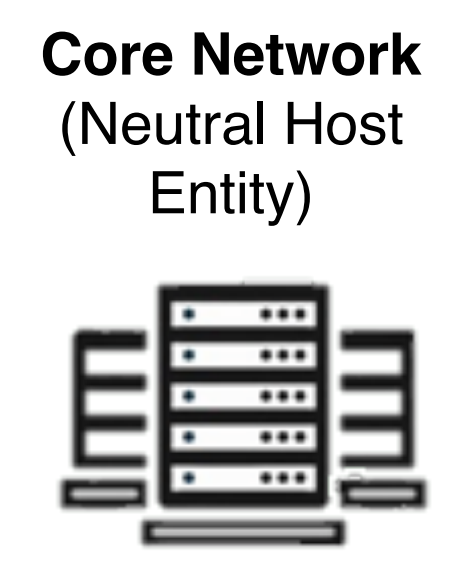
Coordinated Multipoint Open Radio Access Network

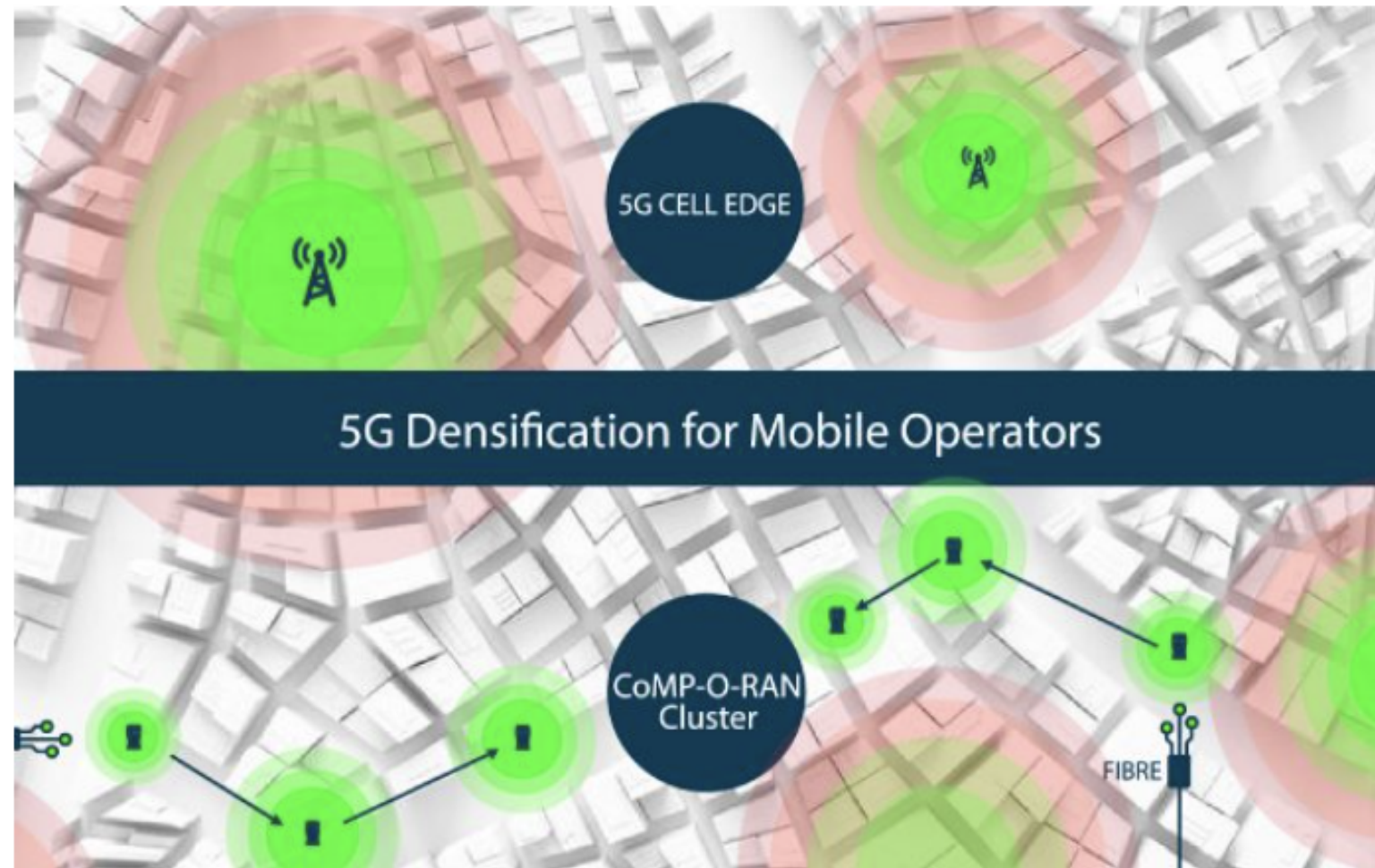
5G NR O-RAN DISTRIBUTED MIMO

- Application of mmWave transport systems and the integration of standard Open Radio Access Network technology
- Enabling the deployment of disaggregated multi-transmission and reception multi-node 5G NR
- Removing the need for excessive fibre deployment, driving down capital-intensive deployment costs and reducing time to deployment

Increased Dependency on Fibre
Increased Civils work and Planning
Increased expenditure, multiple providers

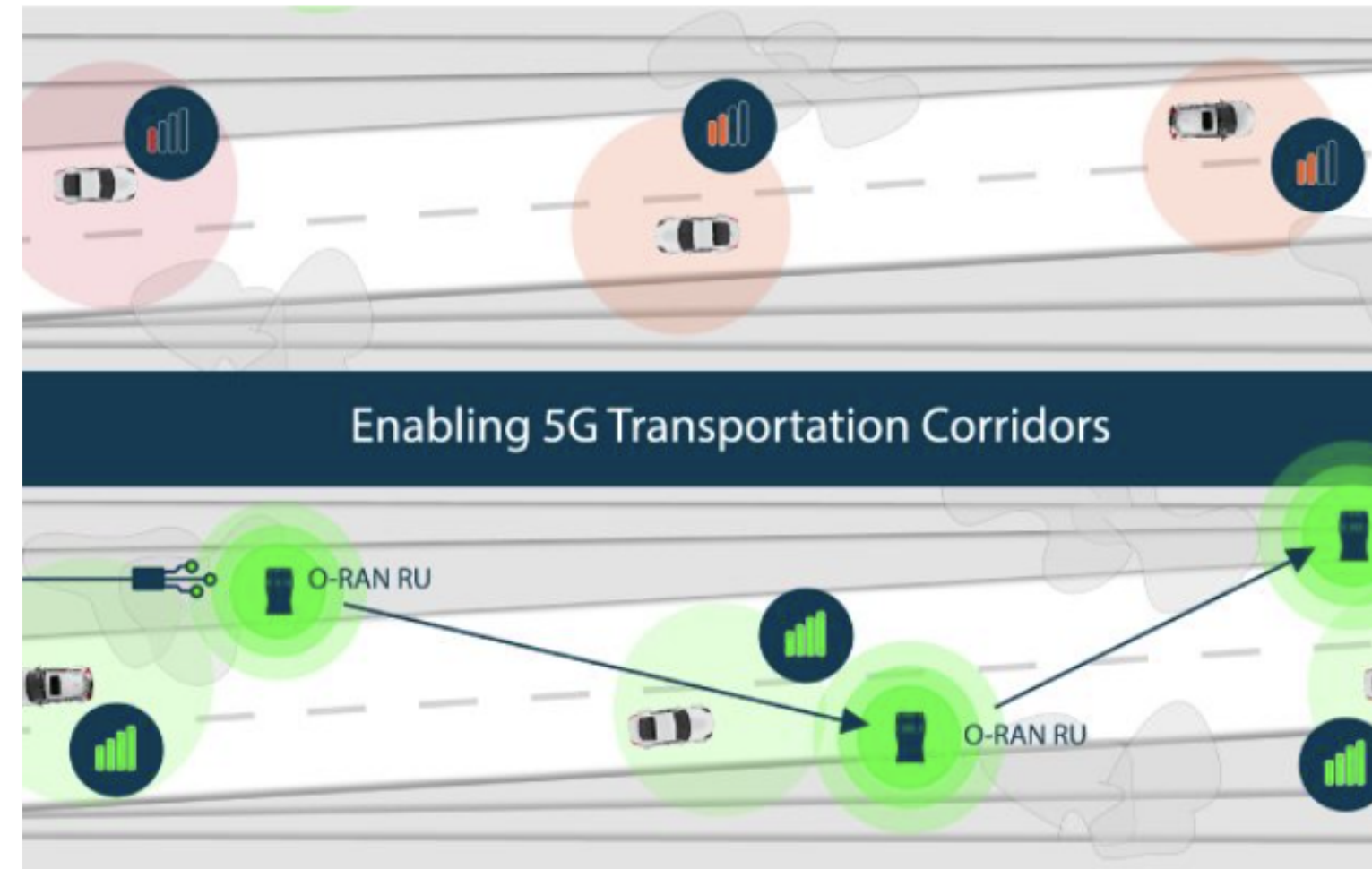
Reducing Fibre Dependence
Reducing CAPEX
Reducing OPEX





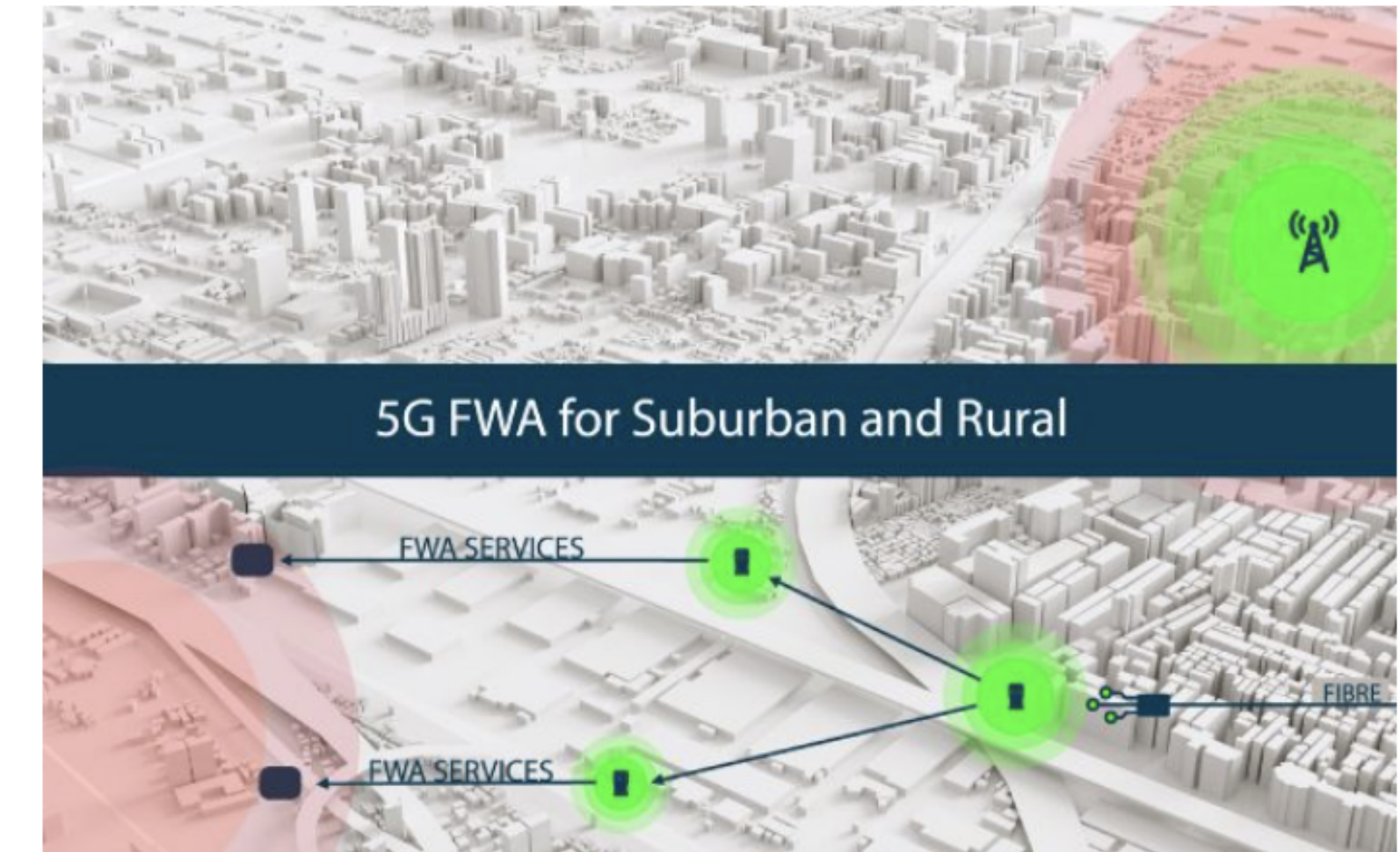
5G Densification for Mobile Operators

CoMP Clusters in-fill Urban and Suburban areas with high performance 5G at a fraction of the cost of a new Macro or Mini-Macro deployment



Enabling 5G Transportation Corridors

Each Fibre backhaul contains and edge DU node that provides connectivity for up to 10 CoMP O-RAN RU's. Delivering up to a 10km Corridor Footprint.



5G FWA for Suburban and Rural

Joint Transmission and Joint Reception improve the Signal to Noise and result in higher cell capacity and faster peaks speeds.

GET IN TOUCH

