

Private Mobile Networks

enabling do-it-yourself

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Industry drivers

- New use cases like smart robotics, predictive maintenance, AR/VR
 - Throughput and low latency
- Increased cyber risk awareness
 - Apply own security policy and manage networks along with rest of the digital infrastructure
- Productivity gains and reduce costs
 - Asset and material tracking
 - Connect employees and production machinery to backend
 - Remote control
- Worker Safety & Sustainability



Urban not-spots/Mines



Factories



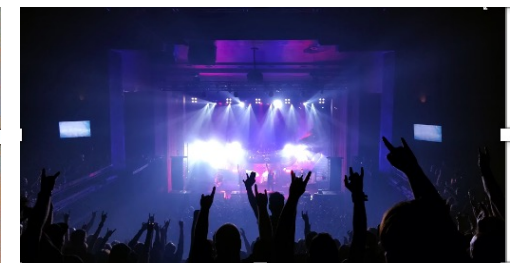
Harbors/Airport/Depots



Stadiums/shopping centers



Moving work



Events

Images Sven Mieke,, Michael Descharles, Martin BrechtI, VOO QQQ, Lalit Kumar. : Aksh Yadav:
unsplash

Emerging markets, Remote & Rural

- 3 billion people with no Internet access
 - Education
 - eHealth
 - eGovernment
 - Asymmetric market information
 - Access to markets
- Remote
 - Business & digitalization enabler
 - Local coverage & Internet access
 - IoT



Agriculture



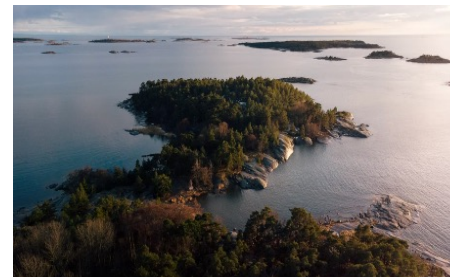
Mountains



Rural hotspots & hotels



Communities



Archipelago



Villas, ski cottages

Frequency deregulation

- UK Shared Access License (1800Mhz, 2300 Mhz, 3800 - 4200 MHz and 24,5-26.5 GHz)
- US CBRS (3,5-3,7 GHz), 3-tier system
- Traficom Finland 2300-2320 (B40) GHz, 24,24-25,1 GHz
- NR-U

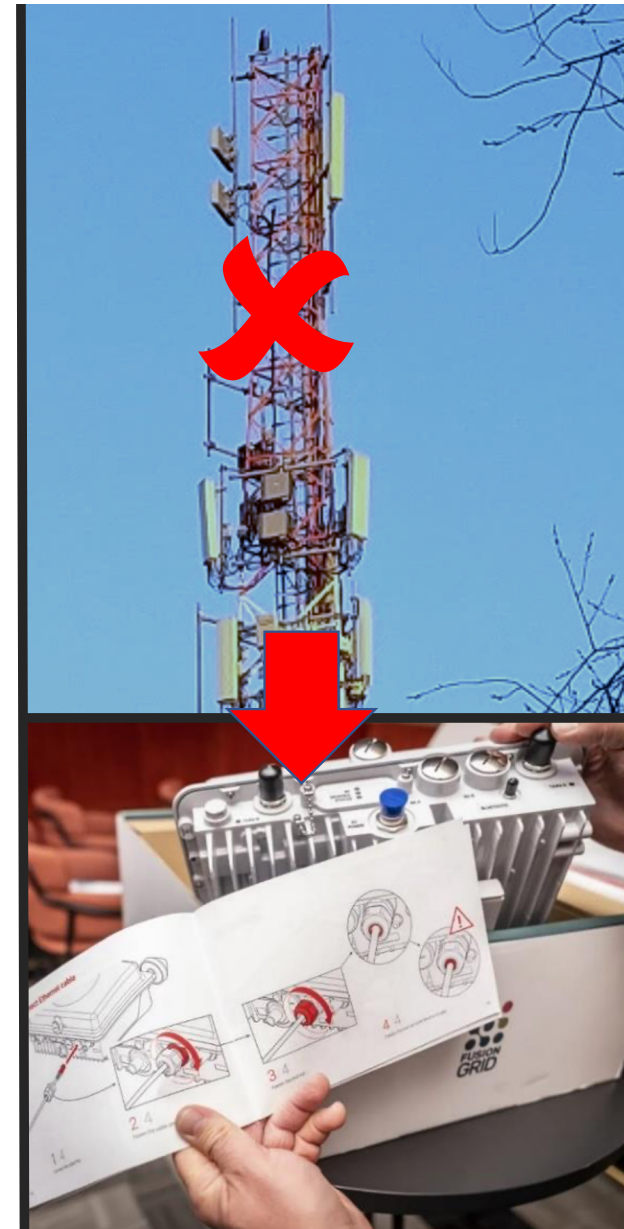


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simple mobile networks

- One drop shipment of self-installable consumer packages instead of exhaustive material consolidation.
- No construction or assembly work with special skill requirements
- Customer branding

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Connectivity in a box: private mobile network



Community/enterprise hosted
LTE for 1 ~ 10 km² coverage.

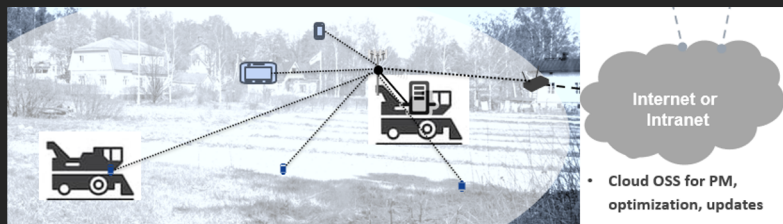
Use with regular mobile devices

Core is 5G ready ... need a small
gNB ... and more different type
of UEs

NR-U for capacity



Frequencies are still an issue, but US, UK and Finland are showing the direction
Cities could take an active role
5G for connecting private networks




Rakkatec Connectivity Solution

Self-contained moving pop-up network for remote control



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Temporary networks

Dedicated network for events to support service providers and staff on ground

Poutanet offering

- Simple mobile networks
 - + assistance in getting license
 - + consulting if needed
 - + Targeting hub partners (local integrators)
- Sunshine management and mediation solution for Nokia base stations
 - + related consulting & integration
- Consulting on private mobile network topics



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