

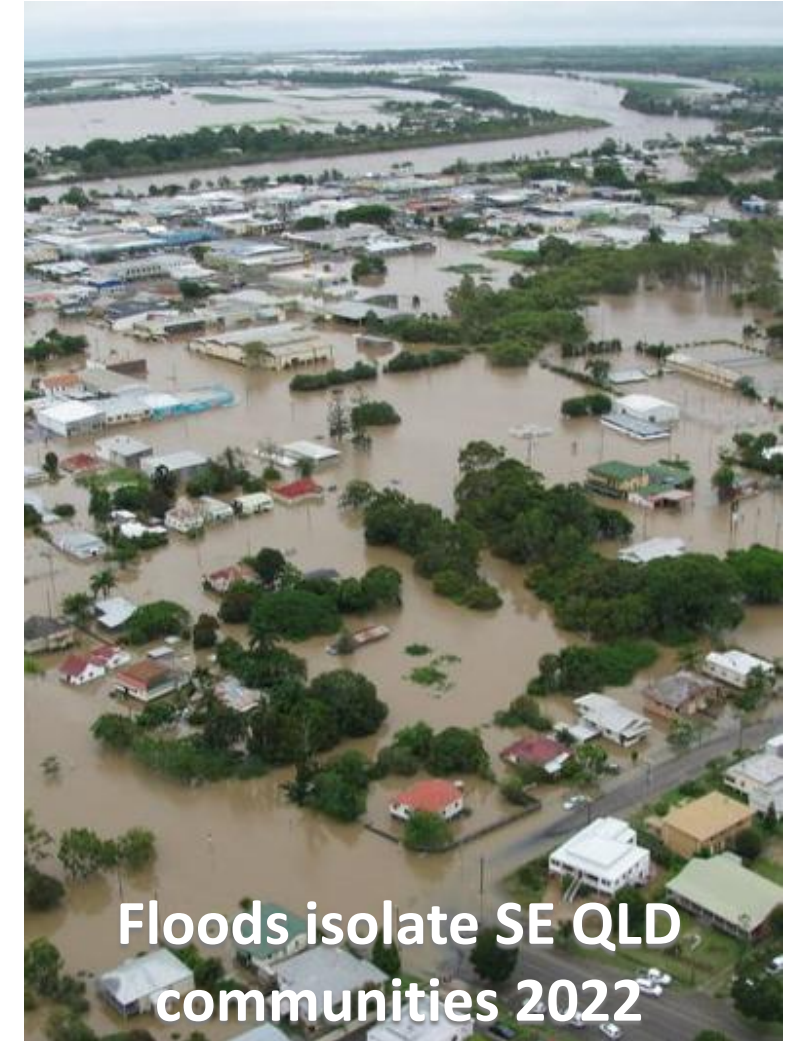
LRDR: The Resilience Layer When Everything Else Fails

30 July 2026

Presented by Robbie Huxley

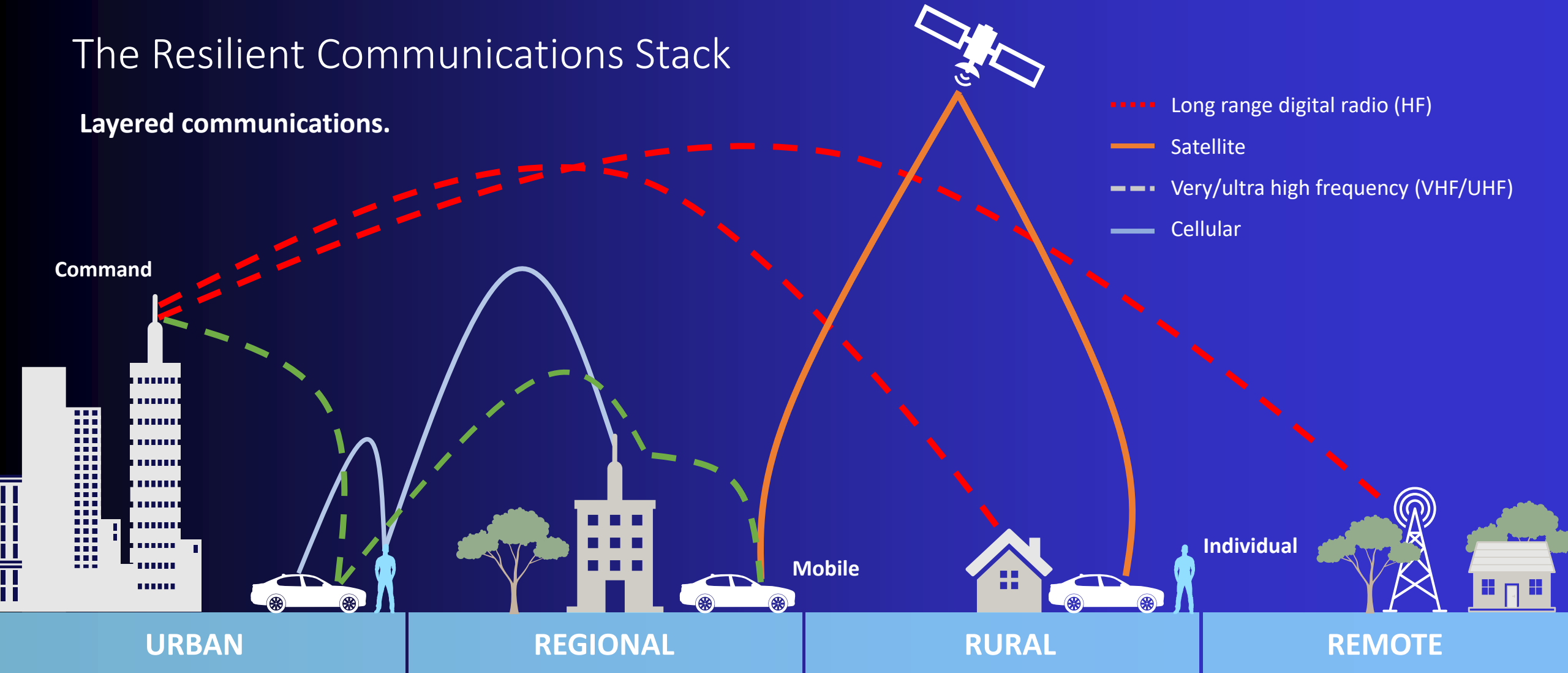
Technology Failure or Architecture Failure?

Single network = single point of failure

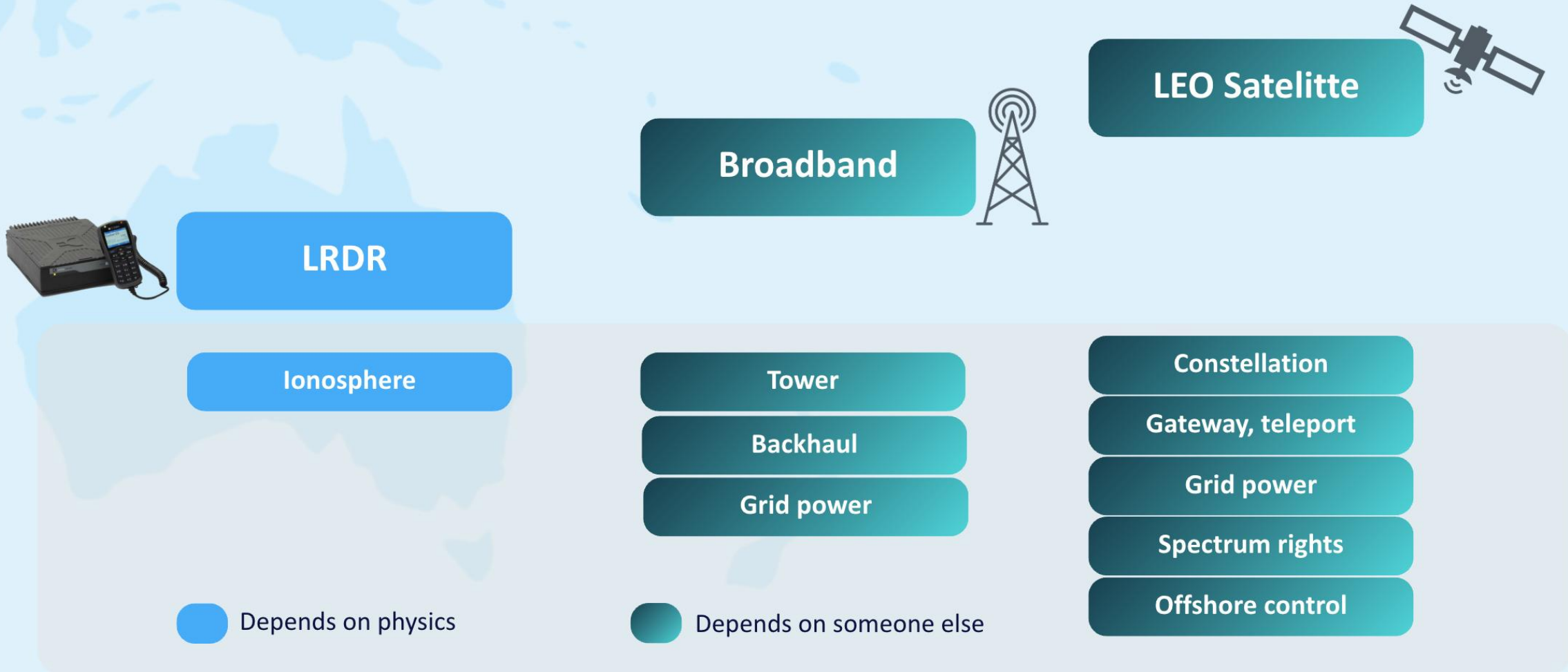


The Resilient Communications Stack

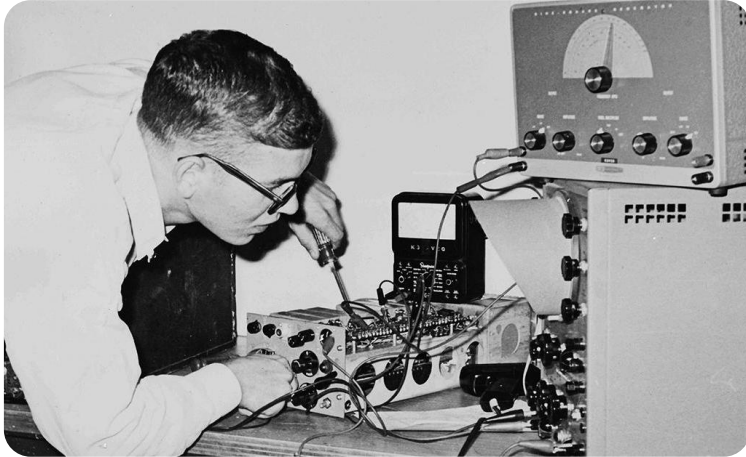
Layered communications.



Where LRDR Sits



LRDR Isn't Dead.



HF Analog Voice



Channel condition: (+16 db)

It Has Evolved.



HF Digital Voice



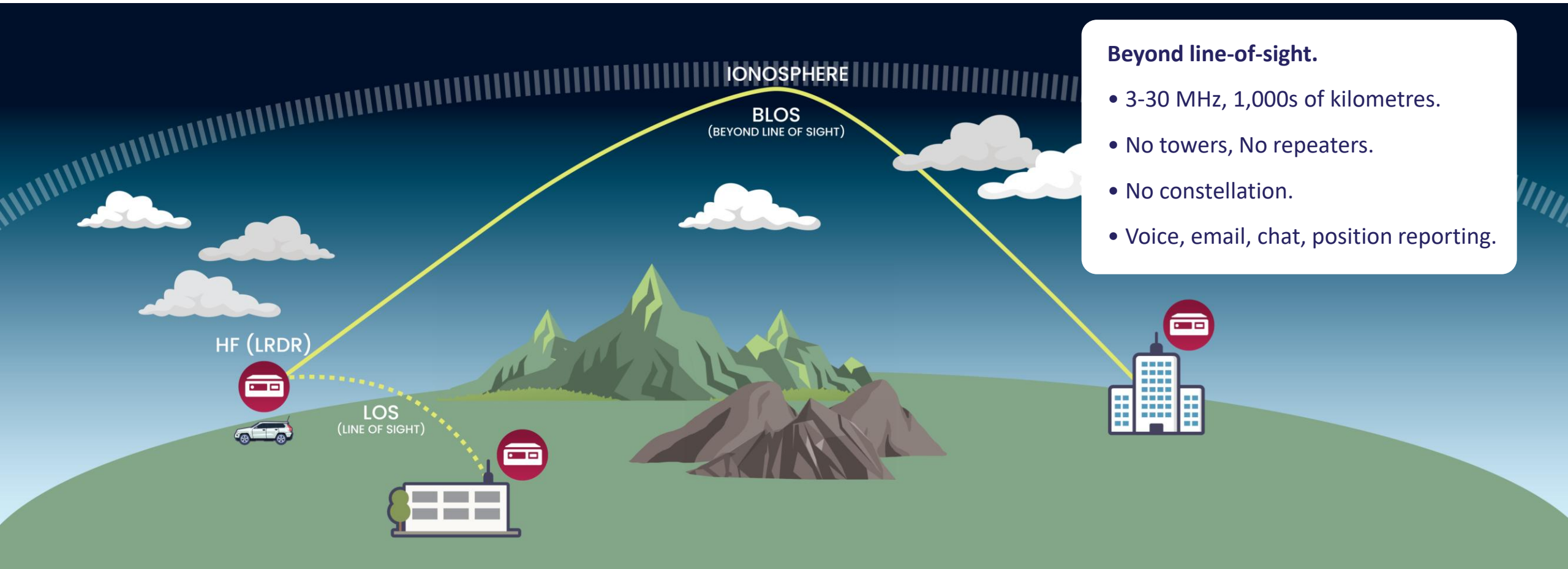
Channel condition: (+16 db)
2400 bps



Channel condition: (+6 db)
1200 bps

The Radio That Works When Nothing Else Does

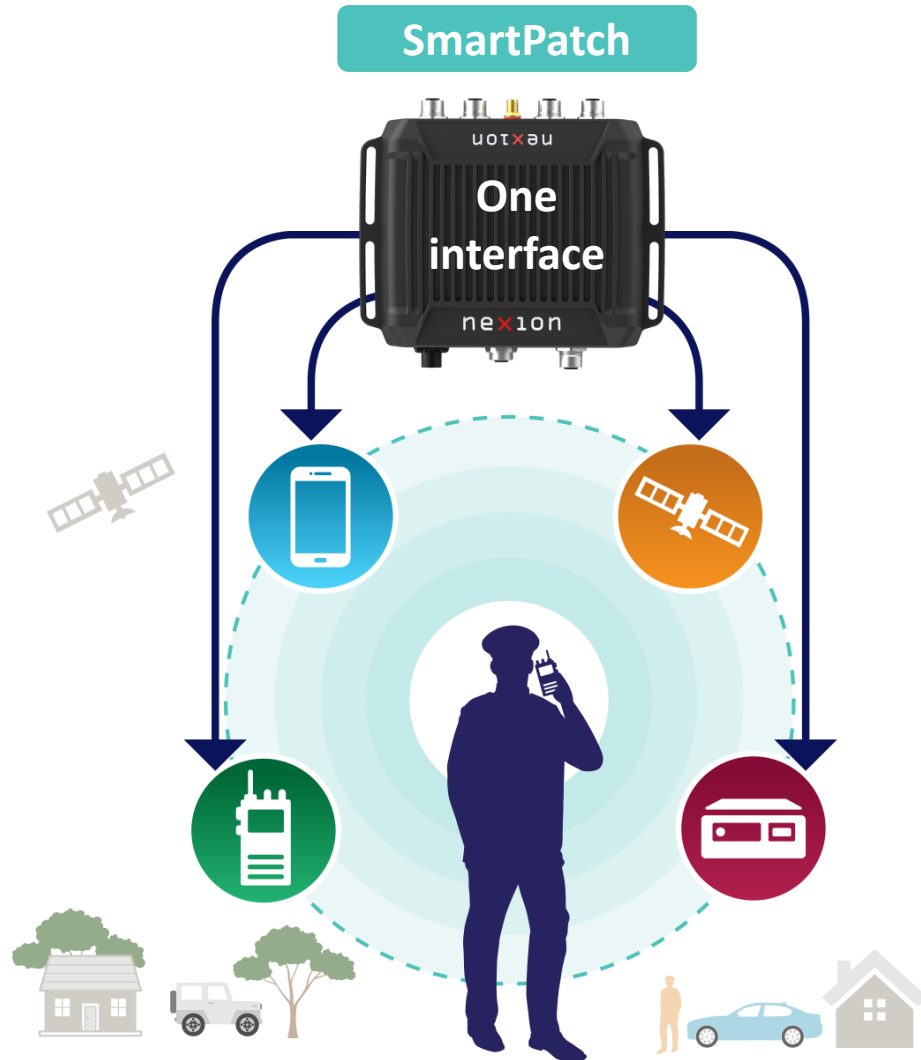
HF is the only BLOS comms that requires no third-party infrastructure.



Beyond line-of-sight.

- 3-30 MHz, 1,000s of kilometres.
- No towers, No repeaters.
- No constellation.
- Voice, email, chat, position reporting.

Architecture in Action: Connecting Every Layer



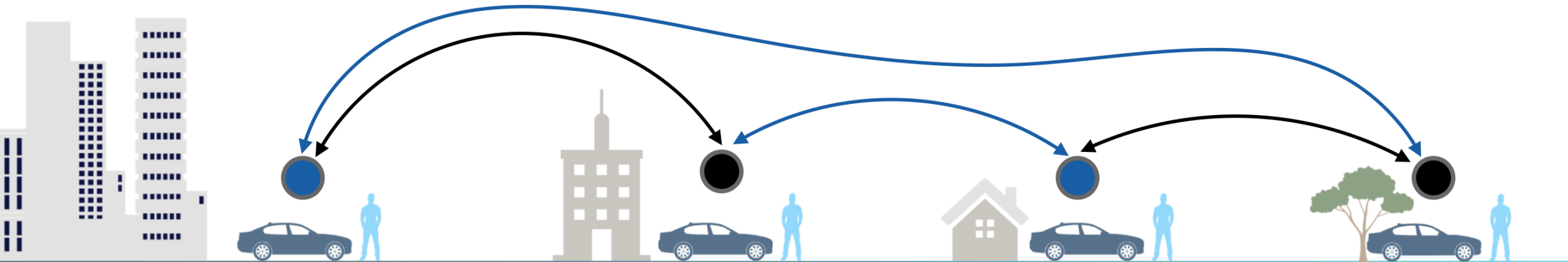
Interoperability.

- HF ↔ VHF/UHF ↔ Satellite ↔ LTE bridging
- Radio over IP
- Dispatch integration
- Cross-agency communication

Cross-Vendor Interoperability



Digital voice, ALE and selcall interoperate



Long Range Digital Radio (HF) Alone Is Not the Solution.

Vehicle-as-a-Node. We combine them all. One interoperable, secure, and field-ready system.



South Pacific Demand Signal



Real-World Operational Impact

The hardest proving ground in the region.



Operational deployments.

- Pacific island connectivity
- Cyclone response networks
- Remote mining operations
- Border protection communications



Who This Matters For

Resilience matters where infrastructure is fragile.

- Emergency services
- Remote industry
- Defence & border protection
- Remote communities

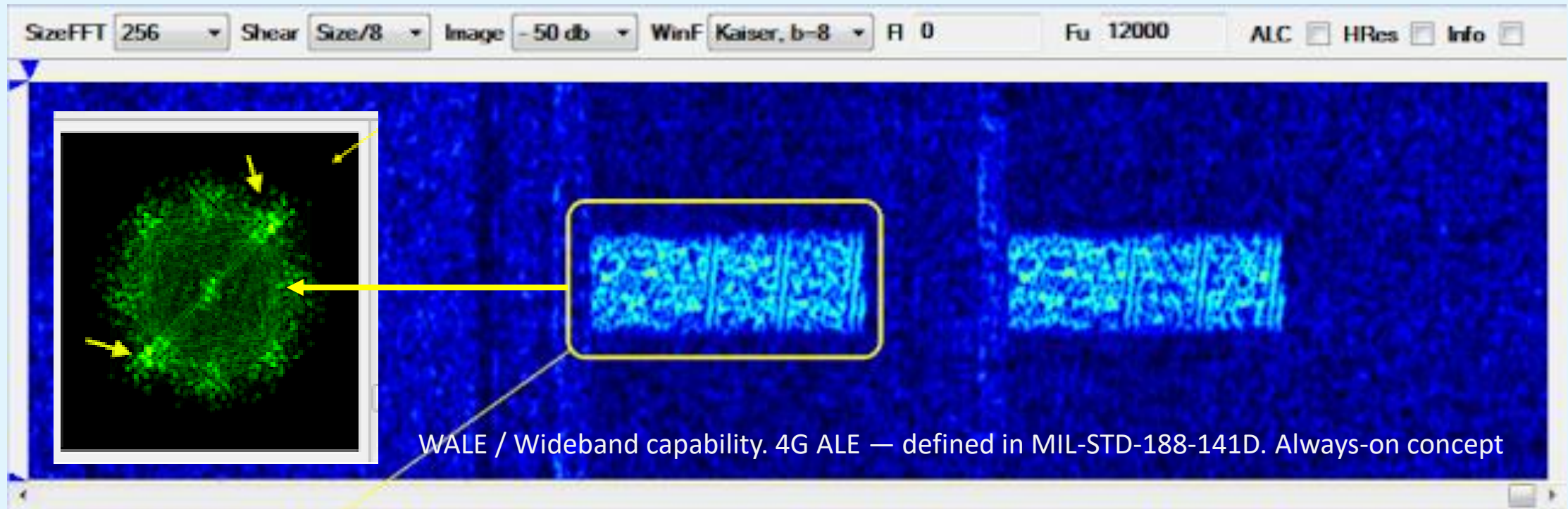
When resilience planning for large events and mass gatherings matters too.



The Future of Resilient Communications.

From Voice to Adaptive Networks.

LRDR is becoming an infrastructure-independent data layer.



This is opening the door to IP data, command systems, even compressed video without infrastructure.

LRDR isn't dead. It's still part of the solution.

And it's the only thing that works when nothing else does.