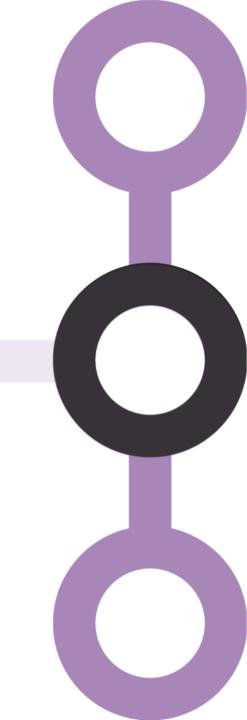


Programme Update BAPCO November 2023

Niall Stokoe OBE **Director Delivery and Deployment**Emergency Services Mobile Communication Programme



What is the programme doing now?



Governance and contracts



Coverage



Capability delivery



Live services



TAS and future setting













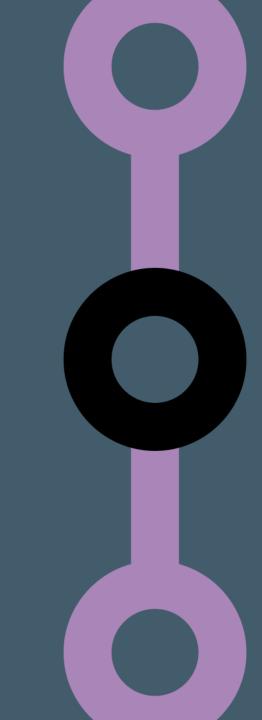
Any questions?





Thank you

You can find representatives from ESN on stand 30



What have we achieved in the last year?













ESN Air

Air to Ground Network

- 44 Sites out of 82 passive build complete.
- 19 sites Ready For Activation
- Ongoing Network Testing programme in flight

Aircraft Communication System

LTE

- Model A pre-production prototype delivered
- **Tetra**
- Contract for Development and Manufacture awarded to Chelton
- Model A Preproduction Prototype delivered











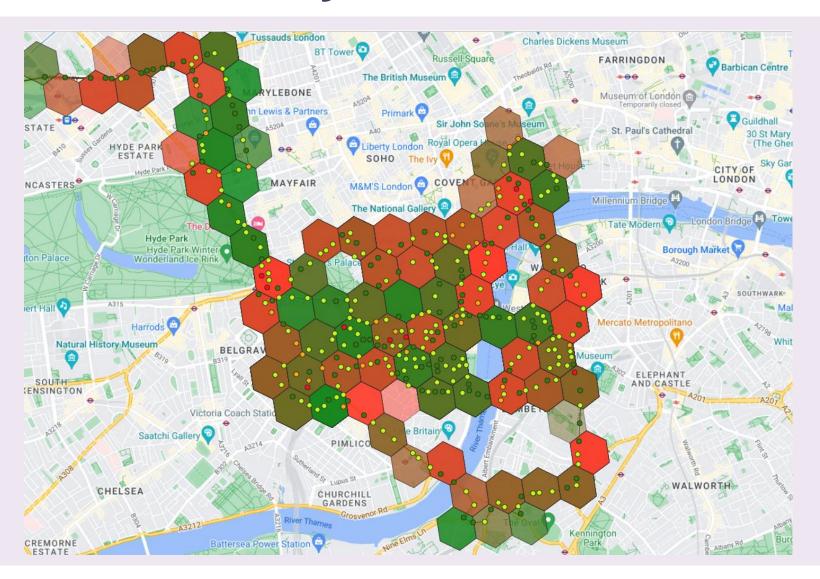




Voice Quality of Service Test Objective

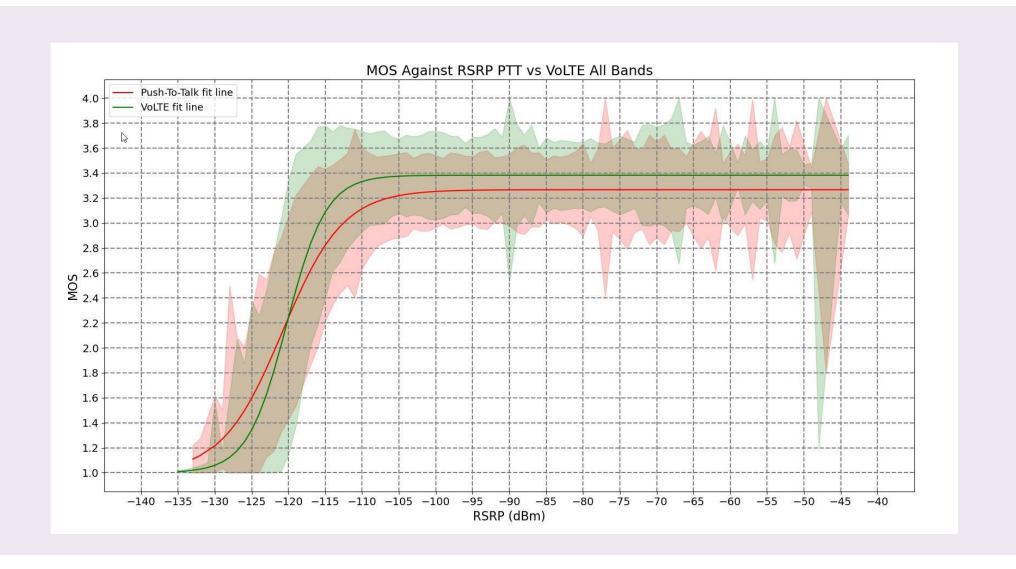
To drive at least 4000KM at cell edge areas around the country to measure MOS (Mean Opinion Score) of VoLTE and PTT calls and compare the actual service (usable voice quality) against predictive coverage

Voice Quality Plotted Over RSRQ Hex Bins



- Voice Samples
- <2 Mos PTT</p>
- 2 2.5 Mos PTT
- >2.5 Mos PTT
- **○** Hex RSRQ BINS
- < -10 RSRQ PTT</p>
- > -10 < 0 RSRQ PTT</p>
- > 0 RSRQ PTT

Usable Voice Quality Coverage Meets With Predictions



Termination Services - Testing

Over the last 10 months, the team have been conducting **major events testing** using the Kodiak PTT solution and the EE RAN, supported by user SMEs, suppliers and programme Resources

The objective is to understand how RAN operates under capacity and congestion, including the behaviour of the network under specific performance loads and differing coverage conditions and across different vendor configurations.

Testing has been conducted at several major events and will continue until June 2024



Stonehenge



BBC Big Weekend Dundee



Beat Herder



Armed Forces
Day - Falmouth



Westminster

Termination Services - Testing

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- Lorem ipsum dolor sit amet, consectetur adipiscing elit



Stonehenge



BBC Big Weekend Dundee



Beat Herder



Armed Forces
Day - Falmouth

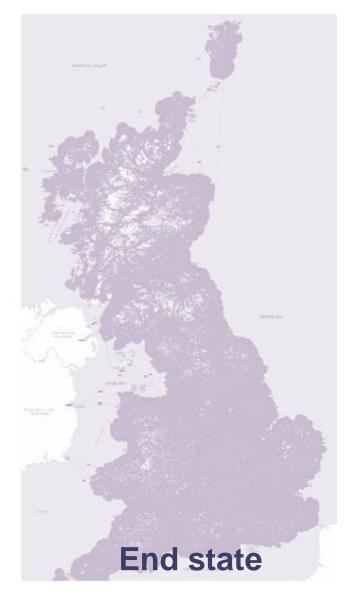


Westminster

EE Coverage Progress; outdoor handheld coverage at ground level







EE Coverage Progress



19,420
EE site
upgrades
total

19,337
EE site
upgrades
completed

99%
EE site
upgrades
complete



767
EE new sites total

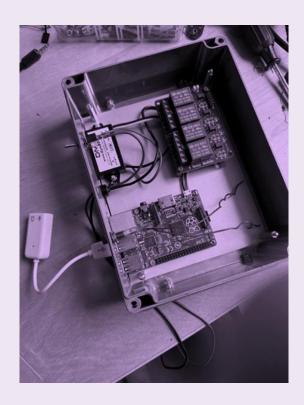
755
EE new sites build complete

96%
EE new sites activated

Voice Quality of Service Testing



Listener and recorder



SBC Control Box



What is this image?

Extended Area Services Progress

- 62 EAS sites now activated – providing coverage to rural parts of Scotland, Wales and England
- 130 total to be active by March 2024 and remainder by December 2024
- 999 stats [Heather]



Wales Mos V Predictions (Volte/PTT)



