ESN

Emergency Services Network

15 Oct 2025

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Andrew Mould – Chief Information Security Officer
Emergency Services Mobile Communications Programme (ESMCP)

Agenda

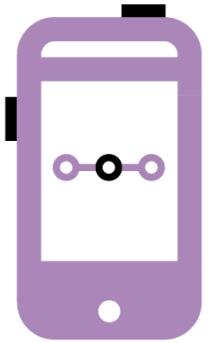
- Programme brief - Niall
- Technology brief - Andrew
- Reflections on programme delivery - Niall
- People - Andrew
- Q&A

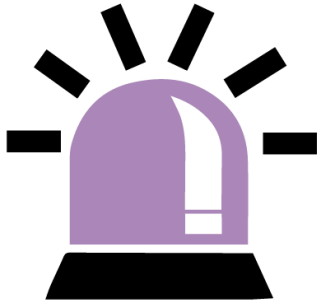
Programme Brief

Niall

ESN will deliver:

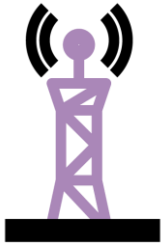
- Secure and resilient mission critical communications the emergency services can trust to keep them safe
- A voice and data platform which will enable the emergency services to improve frontline operations
- A common platform to enable emergency services to work more closely together for data sharing in emergencies





ESN summary

107 emergency services



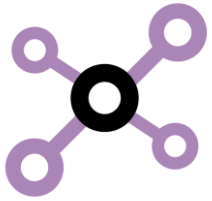
20,840 total sites, with 1,045 new masts*

c.200 control rooms

90+ aircraft

Up to 10,000ft in the air

300,000 service users



32 nationals and more than 300 sharers

45,000 vehicles

538,000km of road

Out to 12 nautical miles

**Figures correct as of January 2025*

Delivering ESN together

ESN

ESN Suppliers

ESN Ecosystem Suppliers

ESN User Services

ESN Emergency Services Network

OFFICIAL SUPPLIER

IBM

+

SAMSUNG

MCX

- Delivering the MCX solution, with features enriched for User Organisations across Great Britain.

ERICSSON

BSS, OSS, Mobile Core

- Enabling connectivity between MCX and Mobile Services solution, delivering Operational and Business Support Services.

FREQUENTIS

Control Room Interface

- Delivering the interface between the MCX and control room solutions.

exponential-e APPLIED INNOVATION

Infrastructure

- Delivering managed infrastructure service across three data centres.

paloalto NETWORKS

Security

- Securing ESN with mobile network, cloud assets, and security operations environments, supported by 24/7 response and digital forensic services.

telent

Onboarding

- Leading User Organisation onboarding to ESN.

Other suppliers

LEONARDO

Control Room dispatcher software

CHELTON

Aircraft Communications Systems

ESN Mobile Services

BETTER FOR BUSINESS

Britain's largest 4G and 5G networks | Best network performance
Trusted critical national infrastructure partner

Coverage
Road, marine, air
Vehicle based
User-led locations

Resilience
5-day power
Satellite backhaul
3- Site Mobile Core

Reliability
Private Network MOCN
Always-on priority access
Scalability

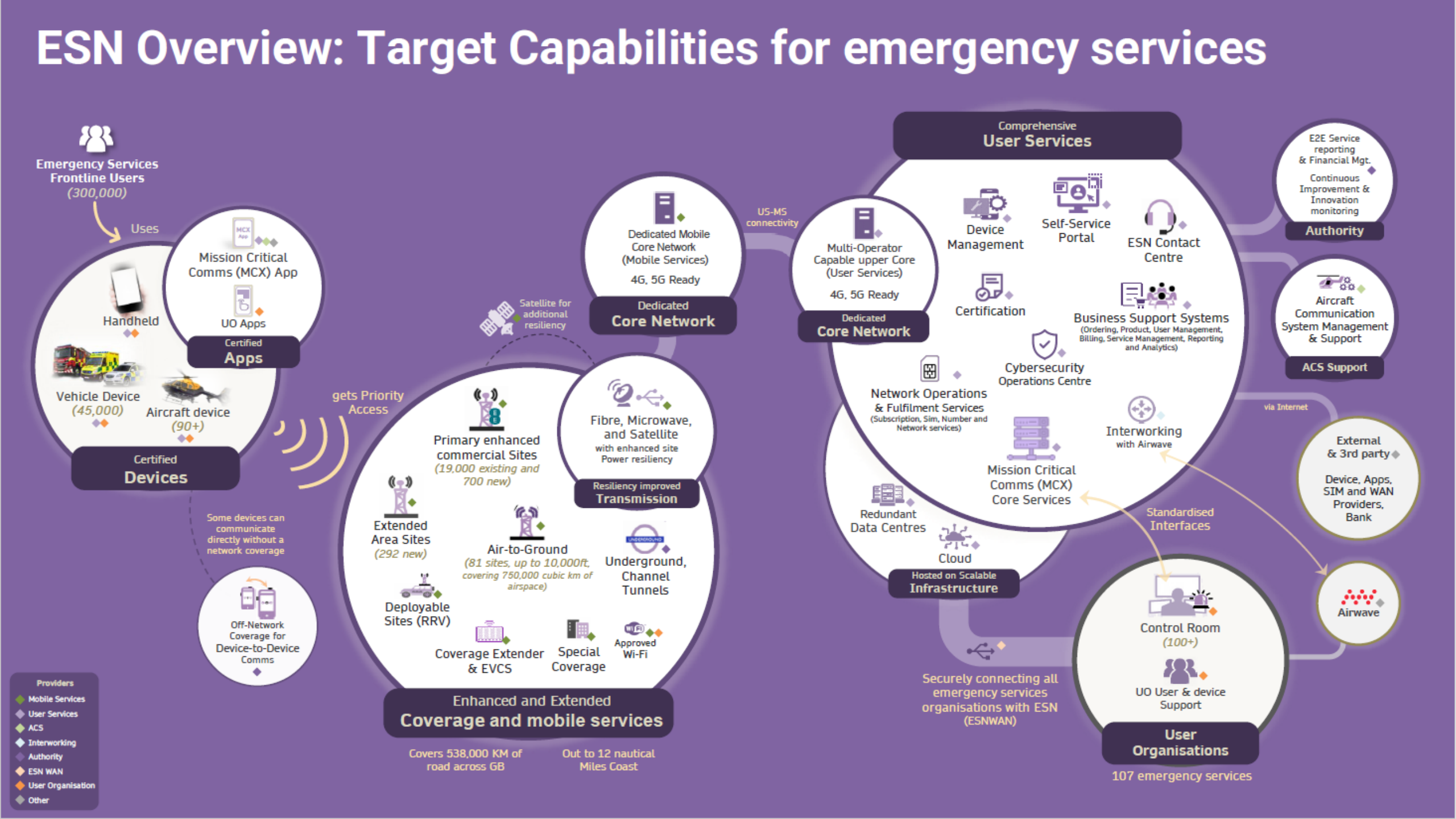
Culture
User first
Mission Critical mindset
Partnership

Integration with ESN ecosystem

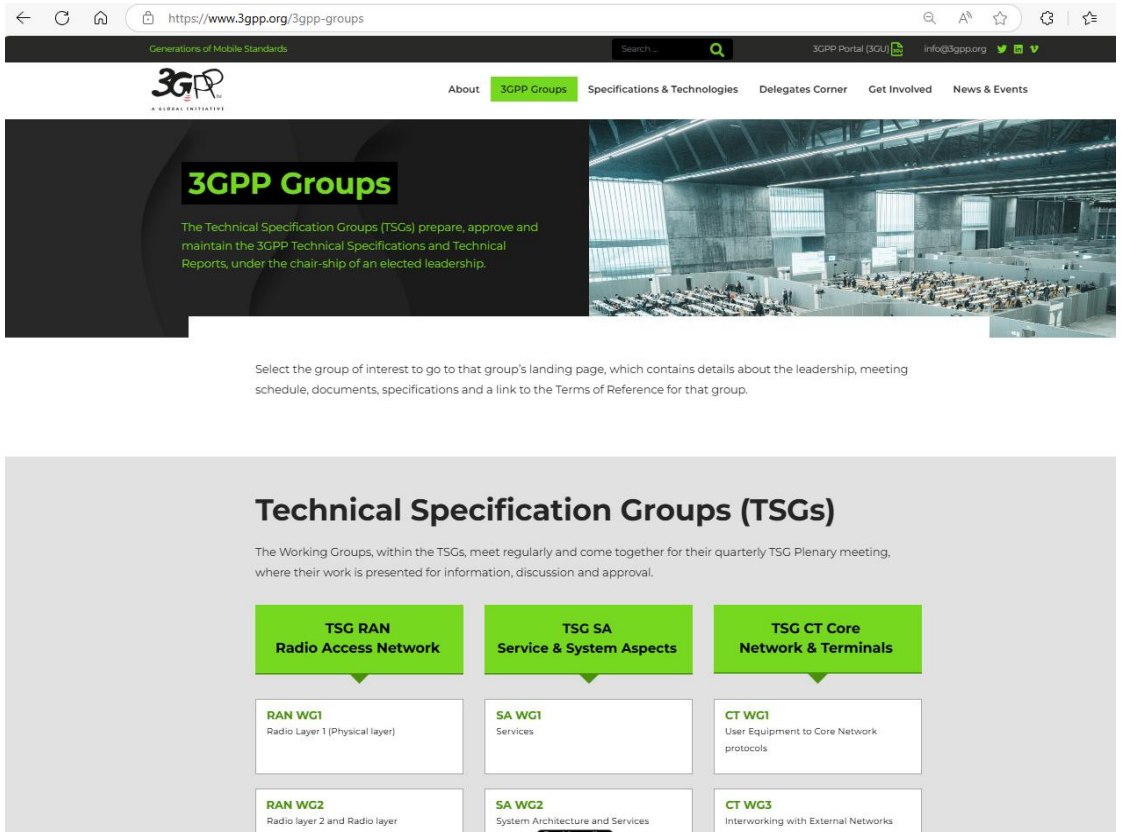
Technology

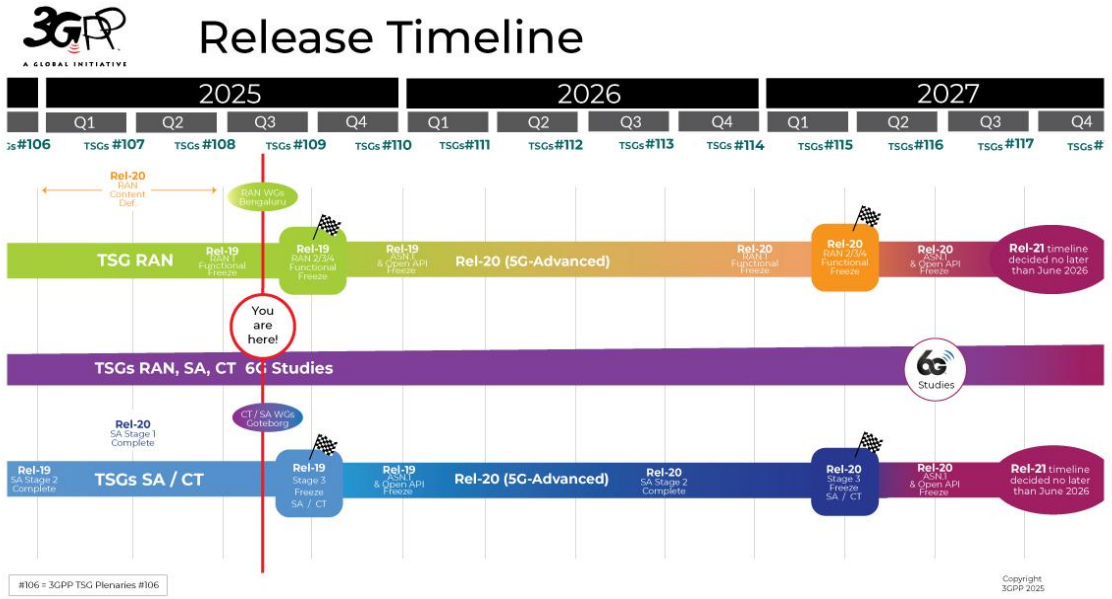
Andrew

ESN Overview: Target Capabilities for emergency services



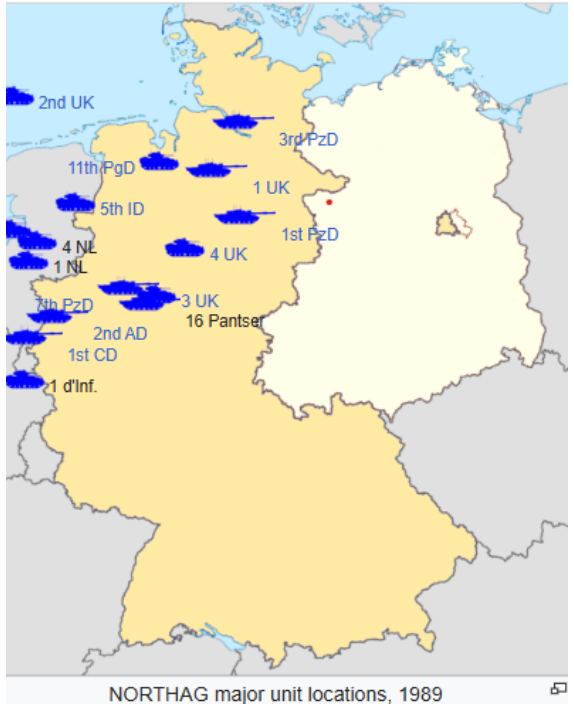
Mission Critical Communications (MCX)



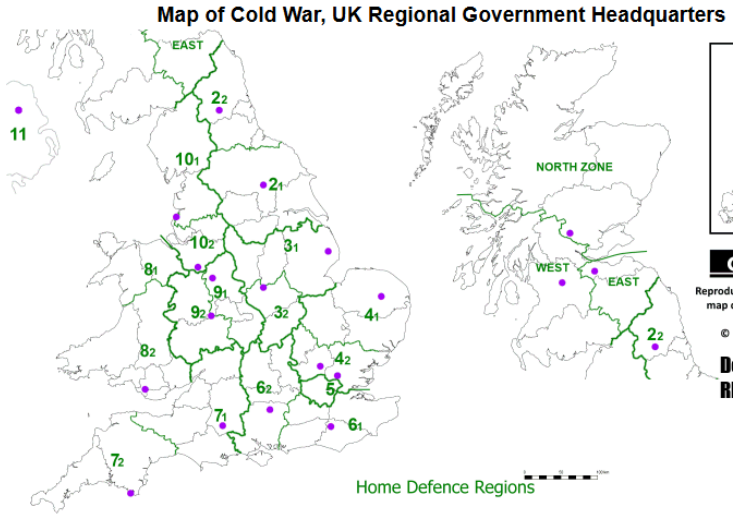


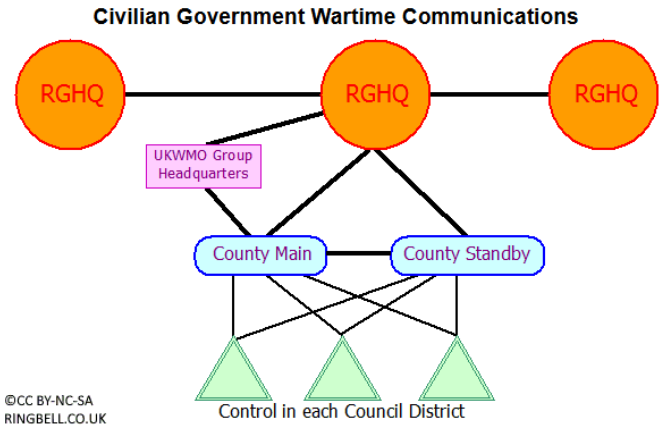
A bit of history…….. (how did we get here?) …/1

1970s/80s



NORTHAG major unit locations, 1989






https://www.ringbell.co.uk/ukwmo/index.htm

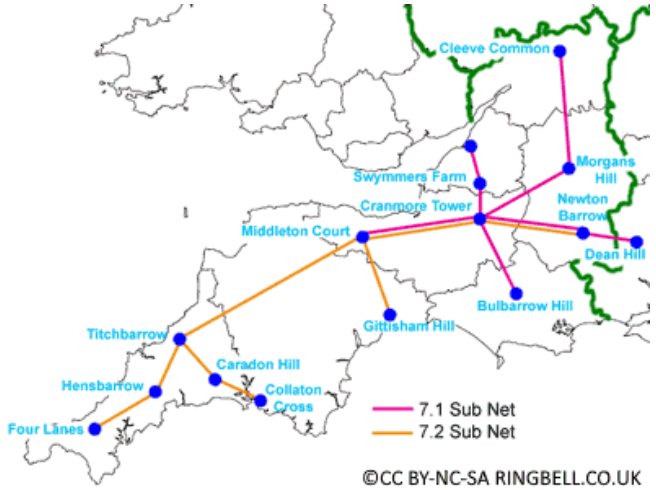

Bedford MK box body fitted with D11/R234 and generator

CONRAD
'Control by Radio'

A bit of history…….. (how did we get here?) …/2

1980s/2000s

MOULD

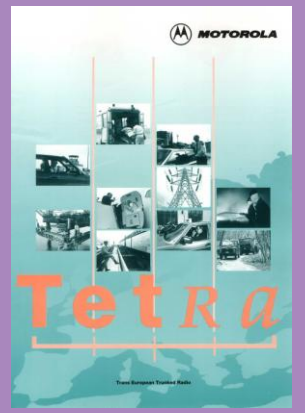


Pye 914 and Selcall Unit

Landrover-Borne MOULD Station

MOULD Vehicles in Civilian Colours

2005 - TETRA



Reflections on the programme

Niall

People

Andrew

Transferable Skills

Security

Quals - CISSP / CISM / CompTIA

Experience – Govt Security Classifications,
Physical Security – Info Sec, Opsec

Digital Comms

Radio, data comms, digital networks
Deployable networks, hand-held SA tools

Technology

Application of technology
Innovation
Resourcefulness

Project Leadership

MPLA / PLP
MSP, APM etc.

Capability Integration

'Get stuff done'

ESN

Emergency
Services Network

Thank you