









Agenda

- Introduction
- What we do now
- What the future holds
- How we get there

• Q&A



UK Power Networks



population served

18m

peak demand

16 GW

Delivering your electricity

Our Vision



Safest Best employer



Most reliable
Best service
Most innovative
Most socially responsible



Lowest cost





Looking after the network

45,849 km of overhead lines

Inspection regime:

Towers (yearly)

Wooden poles (6 years)

Pre-outage and post-fault

Helicopter and foot patrol



Faults identified by helicopter







Drone Pathfinder Programme





Department for Transport

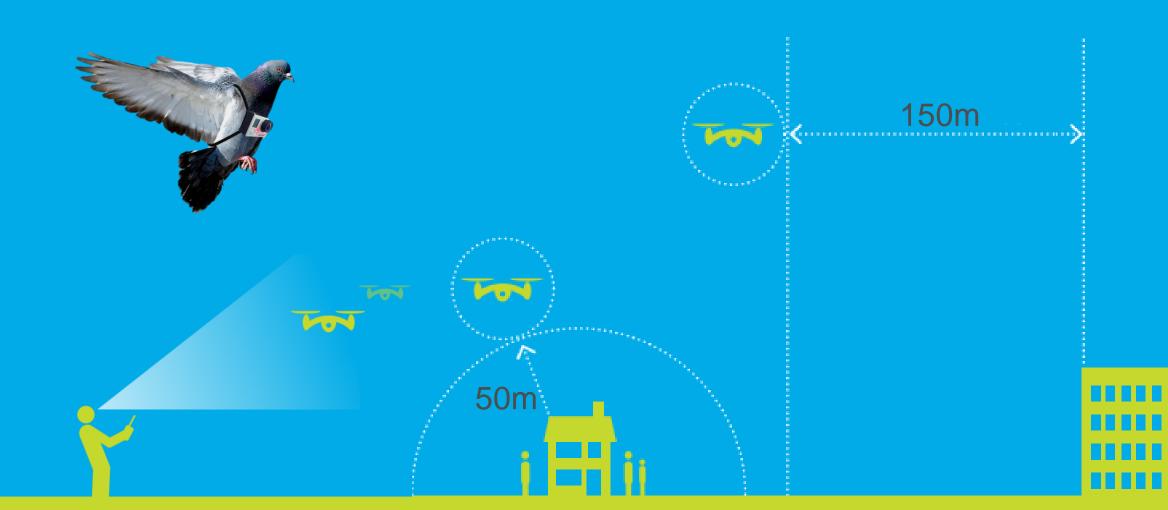


Department for Business, Energy & Industrial Strategy





The Drone Code



Project: Above and Beyond

Funding Partners















Delivery Partners









Wales & West Utilities

- 2,362km of high pressure pipelines
- Fortnightly surveillance flights





Callen-Lenz





- Concept of operations
- Operational planning software tool
- Technical business enablers
- Safety cases
- Acceptable to regulators, networks and the Connected Places Catapult



Case Study – Baglan Bay



Traditional survey



Drone survey



Case Study – Chepstow Bridge



Traditional survey



Drone survey



Photos from a helicopter







Child's tricycle on HV line



Photos from a drone

