



Stewart Davison

Gas Tag

Daniel Winn

Vodafone



# IoT Barriers

- 2G/3G/LoRA/SigFox/Wi-Fi
- Battery life
- Ease of install
- Cost of running



# Narrowband IoT unlocks the next generation of IoT use cases

- To connect previously inaccessible devices
- New connectivity technology
- Open standard based on LTE
- Uses a Low Power Wide Area network (LPWA)

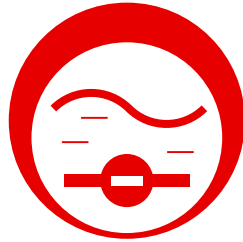


# The benefits of Narrowband IoT lend themselves to high volume, nationwide deployments

- This network uses low power and provides increased coverage for devices with low bandwidth requirements.



**10+ Years  
Battery Life**



**Deep  
Penetration**



**Mass  
Deployment**



**Low  
Bandwidth**



**Device  
Cost**



# NB-IoT features and benefits

**Global IoT Platform**  
Manage all your services in one place

**Global SIM availability**  
Fully secure NB-IoT subscriptions



**Developer tools**  
Software and documentation with the help of our Solution Architects

**Reliable network**  
Direct connection, broad usage, dedicated network, fully licenced spectrum



**Packet Data Service**  
Works with existing solution

All backed up by robust end-to-end security built in from the ground up with multiple layers of protection

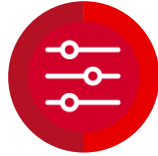


# Use cases directly tied to operational goals is critical to post-pilot adoption



## Operational efficiency

Save time through process optimisation



## Cost control

Full visibility and control of business processes at a granular level



## New business models

Be ahead of the game through innovation and new services



## Compliance

Comply with regulations and standards



## Customer satisfaction

Improved customer experience



## Case studies

Big wins across multiple industry verticals



# Large scale UK deployment

10,000 + property roll-out across mixed tenure  
Sensor packages, NBloT network and modified GT portal

A set of 'events' to provide operational support to HA staff, these events to include;

- CO above defined level
- Humidity above defined level
- Temperature above/below defined level
- Low temperature where external temperature is low
- Movement sensor activation outside defined parameters
- Alarm activation
- Sensor unit low battery
- Sensor unit non-functioning



# The World of Tomorrow...Today







Thank you

