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# 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)

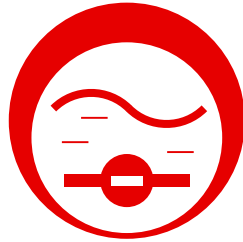


# The benefits of Narrowband IoT lend themselves to high volume, nationwide deployments

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



**10+ Years  
Battery Life**



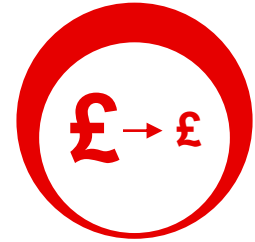
**Deep  
Penetration**



**Mass  
Deployment**



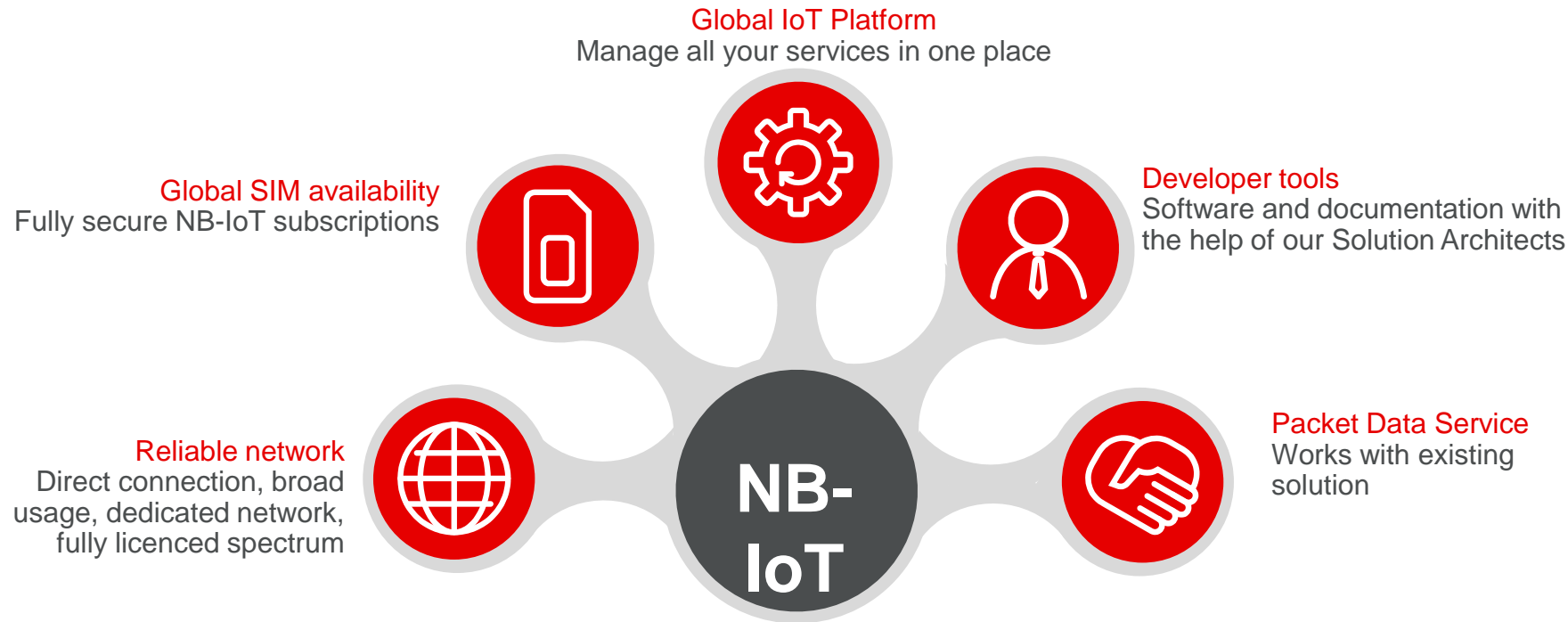
**Low  
Bandwidth**



**Device  
Cost**



# NB-IoT features and benefits



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

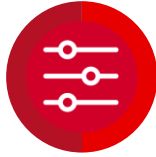


# Use cases directly tied to operational goals is critical to post-pilot adoption



## 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, NB-IoT 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

