

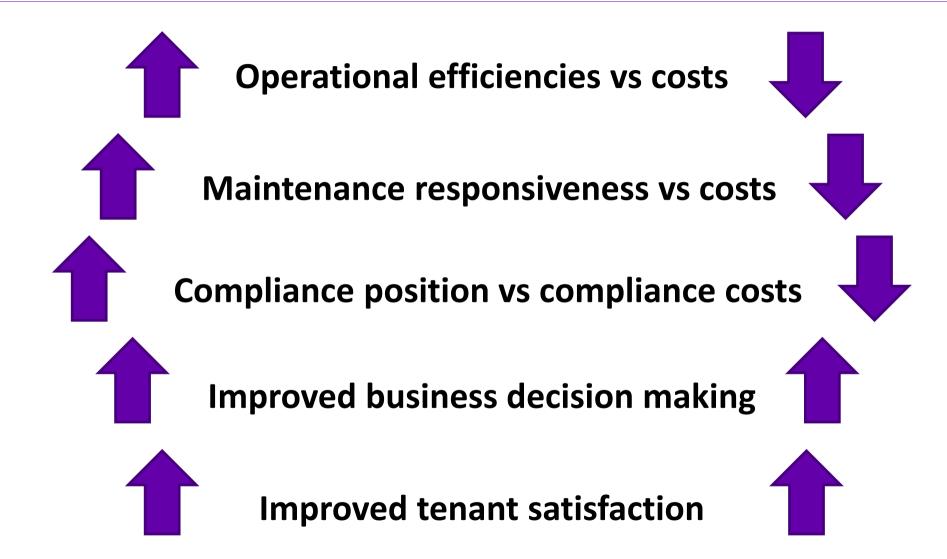
Internet of Things for Housing

Housing Technology

Mark Frost – BT IoT 10th September 2019

Email: mark.2.frost@bt.com

Why Internet of Things (IoT) for Housing Operations





How IoT helps achieve this...



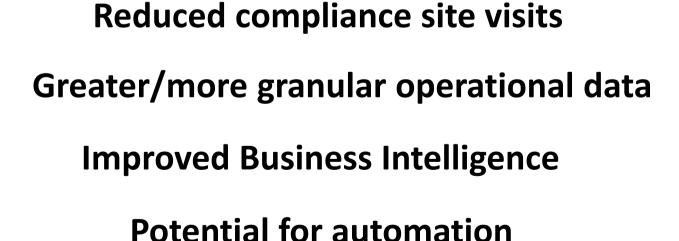




Real time visibility of housing assets

Identify and respond to issues early

Move to proactive/predictive maintenance











Potential use cases (not exhaustive)



Legionella compliance



Temperature & Humidity



Carbon dioxide/monoxide



Air quality



Damp



Utility metering (Landlord's)





Fire alarm status



Leaks



Lift control systems



Emergency Light testing



Where are we now...



Proof of Value trials



Testing use cases





Meaningful data & presentation

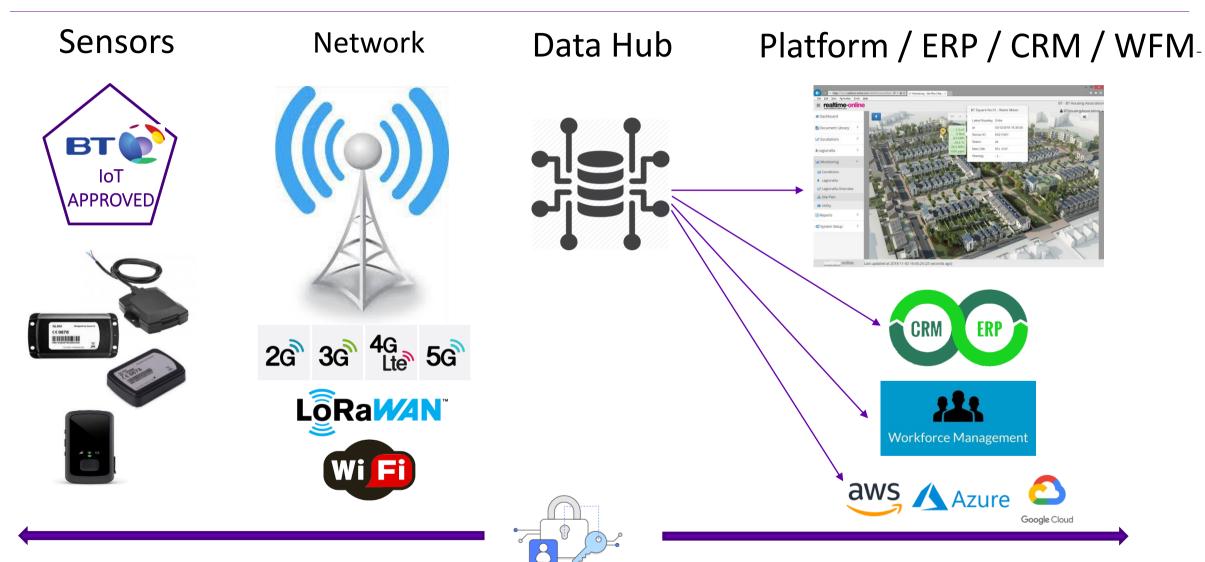




Target operating model



BT Managed IoT Service





Anecdotal statements from current pilot

Keeping An Eye On Our Contractors – Lift Maintenance

Issue - I know when our contractors are supposed to carry out their monthly lift maintenance but I have no way of checking if it's been done



Insight - I'll check the dashboard for the relevant date to find out if the lift was serviced when the invoice says It was

Reduce my water hygiene workload

Issue - I want to know which outlets have been compliant in the last week so I don't have to flush them Insight - I'll look up the legionella dashboard on the day I do my flushing to check which ones I need to check



I know when a fire alarm has gone off, wherever it is

Issue - The fire brigade get called to our properties when an alarm goes off. If it's a false alarm they contact me but most of the time it's the first I've heard of it. That's embarrassing and we can be charged for the callout Insight - I'll check my alerts and proactively investigate fire alarms that are going off when they're not supposed to



Anecdotal statements from current pilot

When a block is too hot I can turn the heating down

Issue - Some communal areas in our buildings are heated according to a timer and don't respond to changes in ambient temperature. This wastes energy and costs us money

Insight - I'll use the information from the platform to check our heating systems are not overheating our properties to save energy and money



Combining connected systems

Issue - I got a lift out of order notification but I don't know what happened Insight - I'll note the time of the alert and check the CCTV footage





Looking at data trends – Lift Maintenance

Issue - I want to give our development team advice on the type of lift we prefer to maintain

Insight - I'll pull off a report from a lift to see how many times it went out of service in a given period and use this to compare lift types





