HAPPI HOUR WEBINAR

Shared practice learning: Joining the Dots

The importance of robust asset data and knowing your stock

Gavin Wright – Head Of Property Management

BIELD FREE TO BE

Housing LIN Connecting people, ideas and resources

A collaborative project

Project Aim: Exploring the potential of IoT technology in a asset compliance and property management. To provide a holistic view of tenants' environment and wellbeing, enabling predictive and proactive interventions to improve service delivery and tenant outcomes.

BIELD FREE TO BE	archangel a better way	FarrPoint	Digital Health & Care Innovation Centre
Facilitating tenant engagement and sensor deployment.	**SaaS platform provider unifying data for proactive decision-making.**	**Providing evaluation and data analysis.**	**Supporting dissemination and scalability discussions.**

GLASGOW CITY REGION

The property and the people

Langvout Court - Retirement Housing development. Biggar, South Lanarkshire.

- **25 self-contained flats** and **communal areas,** fostering a vibrant and active community.

- **Utilising LoRa** National Infrastructure for connectivity.

- A **variety of sensors** deployed across tenant **properties and communal spaces.**

- Deployed within Biggar specifically to test an IoT deployment within **a remote and rural area.**

Sensors we have now...and for the next steps.

limitless IoT sensor opportunities for supporting people and assets
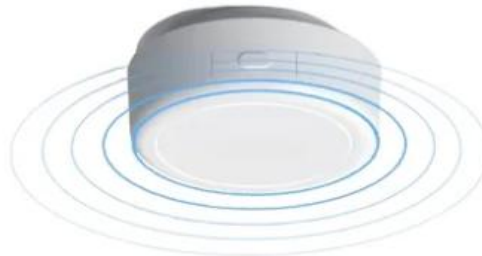
Multi-Sensor

- PIR motion detection
- Room occupancy
- Ambient temperature
- Humidity, Light levels
- Optional magnetic detection which can be used for windows/doors
- Exit doors
- Communal doors
- Loft hatches

Water Temperature / Water quality sensing e.g. legionnaires

Thermostatic radiator valve

mmWave Fall prevention/detection radar

Water usage and leak detection

Sensor with visual display for tenant

Assess - aggregated asset and social housing data
sharing data with internal & external stakeholders

- Multiple co-designed dashboards.
- Tailored stakeholder dashboards, reports and infographics.
- Actionable insights and alerts.
- Enabling proactive and preventative approaches.
- Powerful data analytics.
- Manual alert rules, machine learning, and AI modelling.

EVIDENCE IN ACTION
Independent validation by FarrPoint

Smart care trial delivers results.

In partnership with Bield Housing and Care and the Digital Health & Care innovation Centre (DHI), Archangel took part in a rural care project backed by UK Government funding.

Assessed by independent digital consultancy experts FarrPoint, the trial showed how smart sensor tech made a real life impact across:

1. Reduced utility costs

2. Reduced maintenance costs

3. Reduced manual checks

4. Improved tenant safety

5. Improved regulatory compliance

6. Supports Net Zero targets

4.4:1 Return on Investment (ROI)
Multi-use sensors easily show a positive ROI within the first year based upon just initial utility and maintenance cost savings.

However, there are numerous additional qualitative benefits of multi-use sensors (regulatory, safety and health and care), alongside the possibility for scalability and proactive asset maintenance that can lead to an even greater ROI.

70
IoT sensors deployed

£600,000
Investing in smart housing

10
Properties and residents benefitted

£7,670
Annual saving in heating costs per sheltered housing development

£2,825
Annual saving in maintenance costs per sheltered housing development

£3,250
Annual saving in reduced damp specialist surveys

£18.5 million
Annual savings across Scotland based upon just initial utility and maintenance reductions

- Improved regulatory compliance
- Improved resident safety
- Reduced risk of damp related illnesses
- Early detection of changes in activity
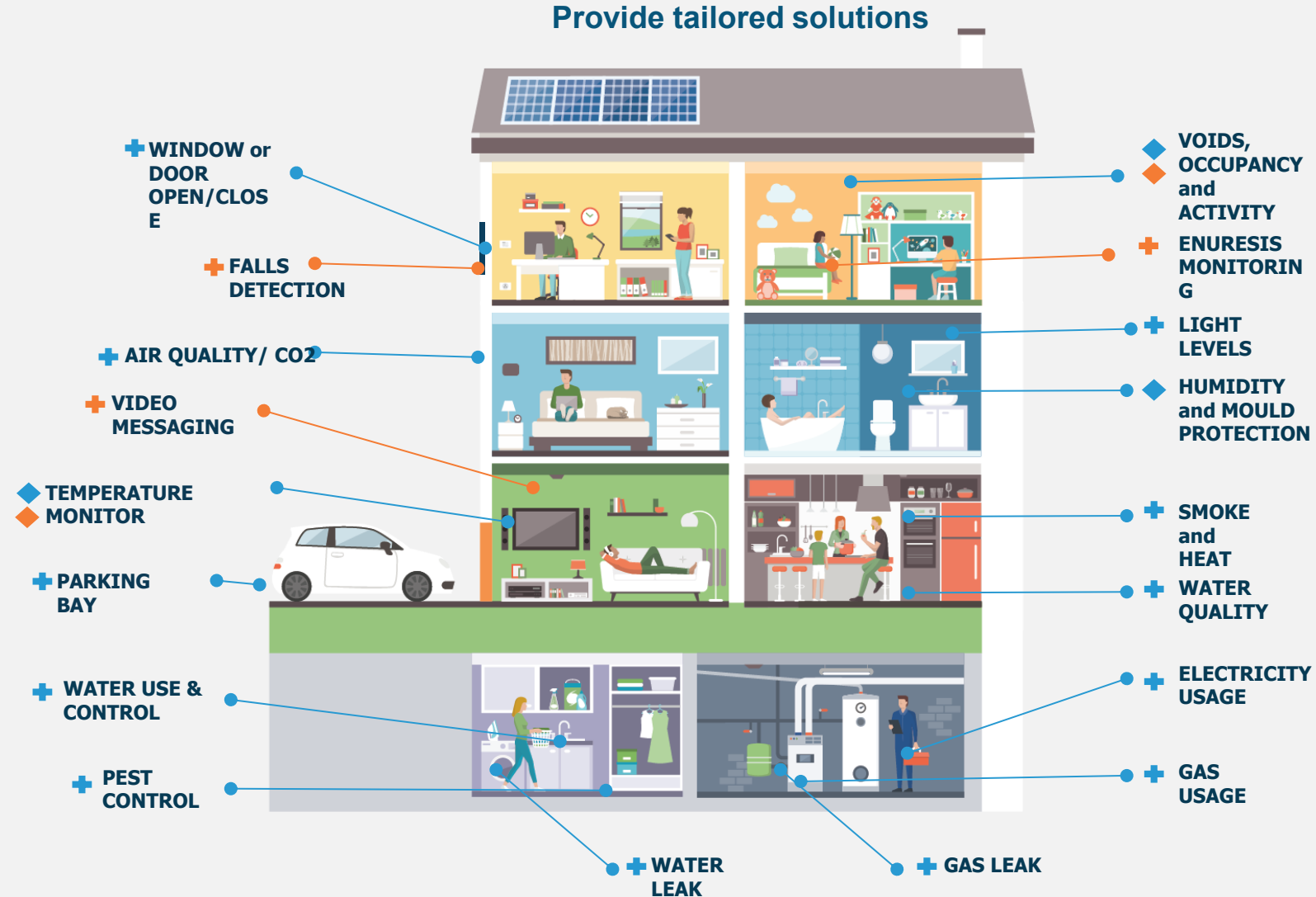- Share and personalise care provision

Integrated housing and care applications

Provide tailored solutions

Housing Management & Compliance

- Safer Homes ◆
- Safety Upgrades ✚
- Energy Monitoring Upgrades ✚

Social Care, Wellbeing & Health Compliance

- Safe & Well ◆
- Activities of Daily Living Upgrades ✚
- Proactive Care Upgrades ✚
- Integrated Health Integrations (e.g. Integrate data from Virtual Wards) ✚

✚ WINDOW or DOOR OPEN/CLOSE

✚ FALLS DETECTION

✚ AIR QUALITY/ CO2

✚ VIDEO MESSAGING

◆ TEMPERATURE MONITOR

✚ PARKING BAY

✚ WATER USE & CONTROL

✚ PEST CONTROL

◆ VOIDS, OCCUPANCY and ACTIVITY

✚ ENURESIS MONITORING

✚ LIGHT LEVELS

◆ HUMIDITY and MOULD PROTECTION

✚ SMOKE and HEAT

✚ WATER QUALITY

✚ ELECTRICITY USAGE

✚ GAS USAGE

✚ WATER LEAK

✚ GAS LEAK

Full Evaluation Report.
Request your copy now via the QR code:

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Thank you for attending!