# **Data-Driven Decisions:**
# Delivering Retrofit Outcomes through Data

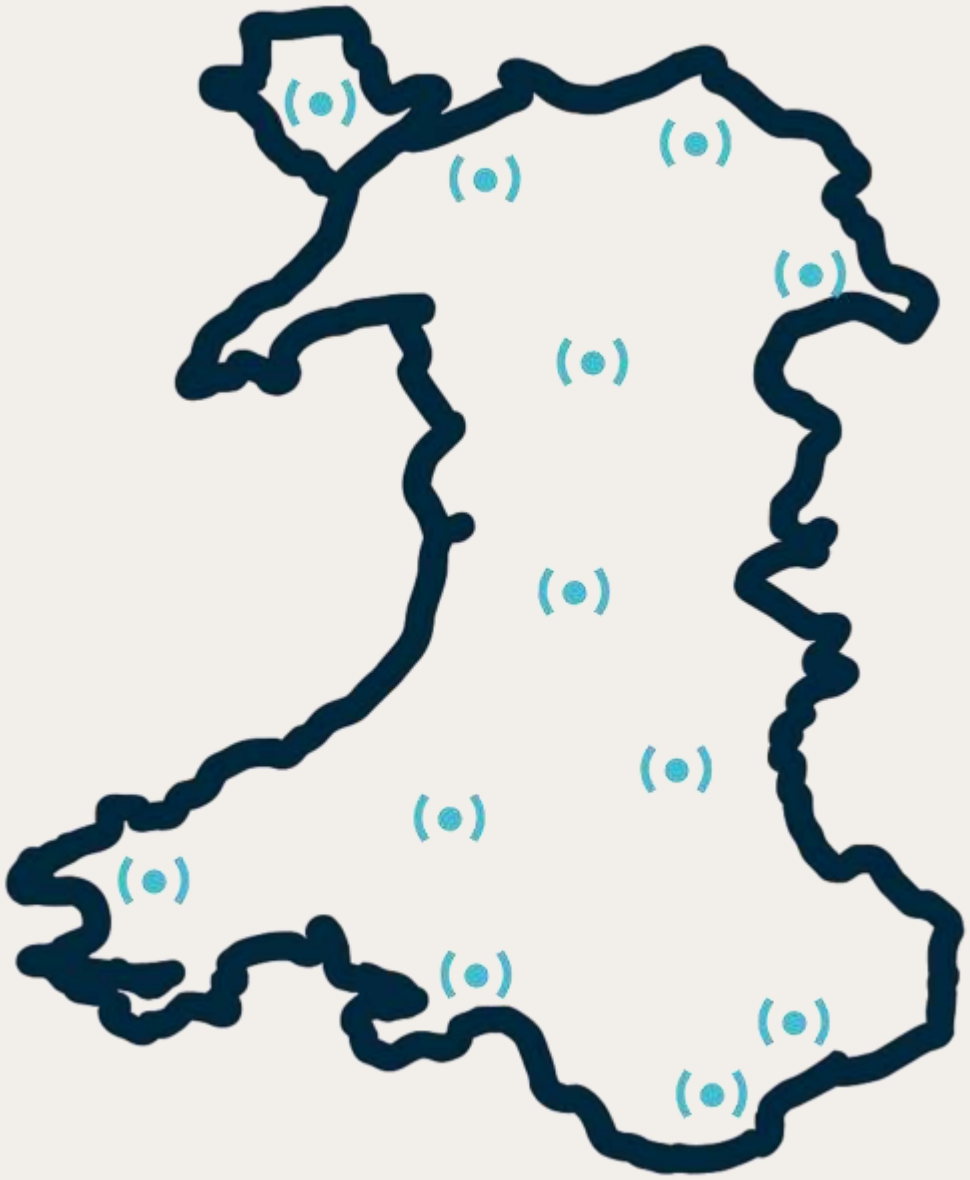
iOpt.

# About iOpt in Wales.

**9** Years in Sector

**20+** Social Landlords

c. **11,000** Sensors Deployed



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## Opportunity.

- ORP
- Technology
- Data is key

"ORP **embraces** a **test and learn** approach to decarbonising homes, adopting a risk appetite which matches the **innovative and entrepreneurial** activity required to decarbonise **effectively and efficiently.**"

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# iOpt – Detect. Prevent. Protect.

- Remote property monitoring
- Sensors/third parties
- Data insight specialists


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Properties that are ‘Damp’ despite warmer weather.

| 1 | 2 | 5 |
|---|---|---|
| Well Heated + Well Ventilated | Well Ventilated | Poorly Ventilated |
| Possible Fabric Issue | Possible Fabric Issue | Ventilation Advice Required |

Poorest Performing Properties: Bottom Two

## 6 iOpt Drive

Bedroom 1

| | 30 Days | 90 Days |
|---|---|---|
| °C | 18.5°C | 16.4°C |
| % | 70% | 72% |
| $CO_2$ | 871ppm | 1140ppm |

Alert: • Damp despite good heating and ventilation

Issue:

- Heating improved and $CO_2$ levels have dropped. Despite this, humidity remains above 70% red threshold.

## 80 iOpt Park

Bedroom 2

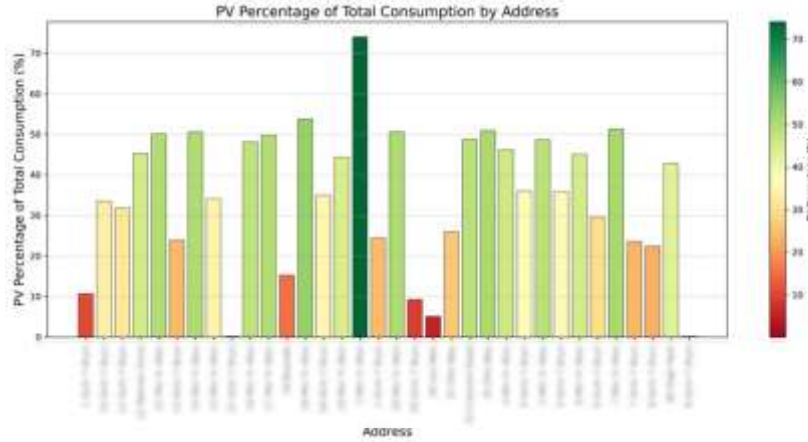
| | 30 Days | 90 Days |
|---|---|---|
| °C | 16.9C | 16.5C |
| % | 70% | 62% |
| $CO_2$ | 810ppm | 770ppm |

Alert: • Damp despite good ventilation

Issue:

- Humidity has risen above red threshold. This is despite ventilation remaining low.


## PV Generation as a Percentage of Total Consumption




In June, many properties showing PV generation around 50% of total consumption. A few in red worth reviewing.

## iOpt – Detect. Prevent. Protect.

- Remote property monitoring
- Sensors/third parties
- Data insight specialists
- Aggregate, learn, share
- Adoption
- Barriers – fear/status quo/communication

# “Another thing I have to do!”

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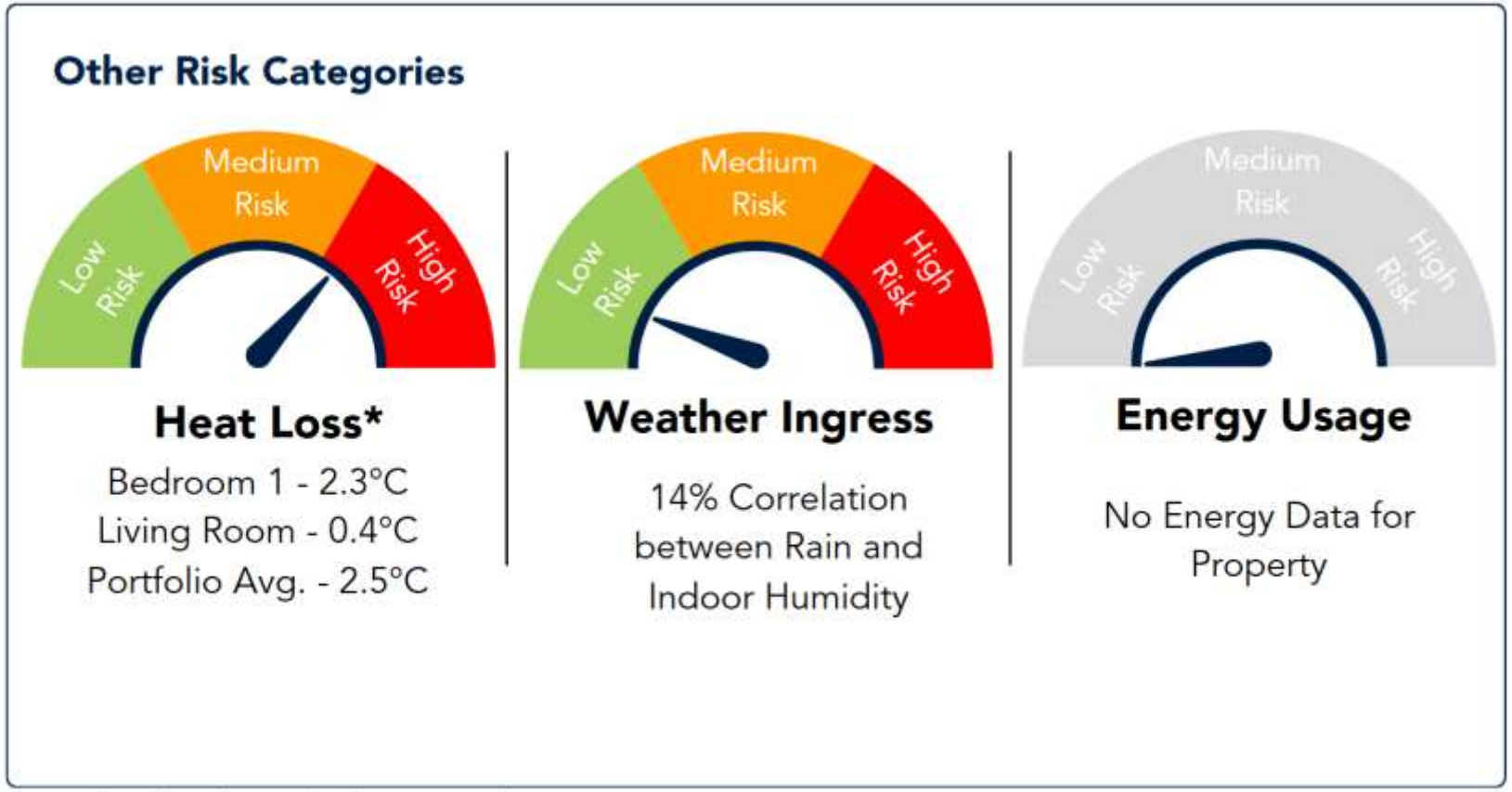
# Beyond Basic Monitoring.

- ASHP
- Solar PV
- MVHR
- Battery Storage
- Fabric Interventions




*Avg. loss first hour after heating cycle

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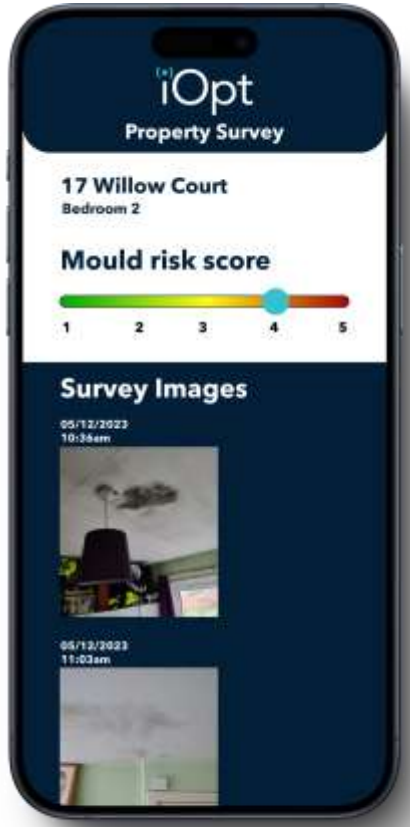
# AI and Property Management.

- Predictive Analytics
- Dynamic Threshold Setting
- Anomaly Detection
- Image Recognition and Analysis

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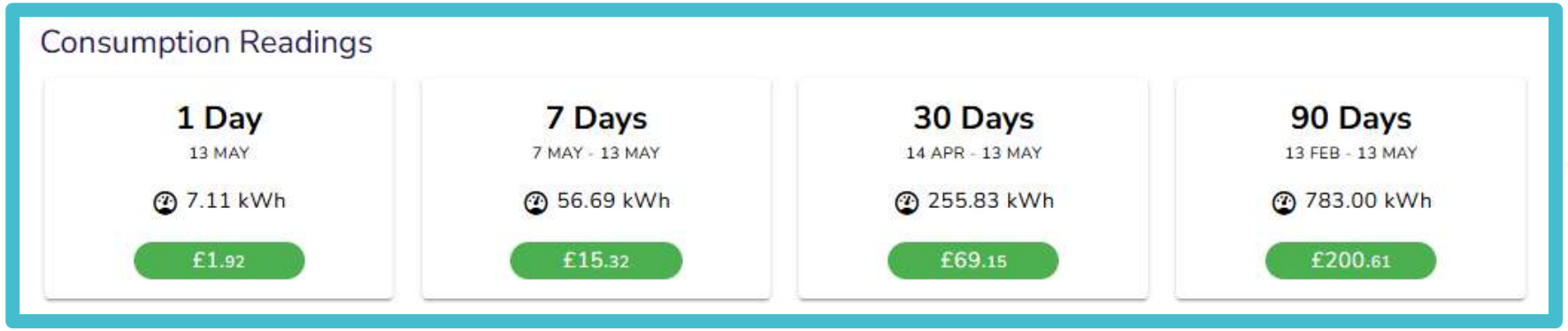
# Social Value.

- Improve Health Outcomes
- Avoid Disengagement and Frustration
- Thermal Comfort Appraisals
- Reduce Fuel Poverty and Overheating
- Prove Energy Cost Reduction
- Evidence Based Impact

# Delivering Retrofit Outcomes

- Close the loop
- Support your teams
- Learn at scale
- Drive social value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# Contact.

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