

Unlocking Net Zero With Real Data

RAC & Copeland - Store of The Future Event



Veritherm 





Who are Veritherm?

Better Data, Better Buildings

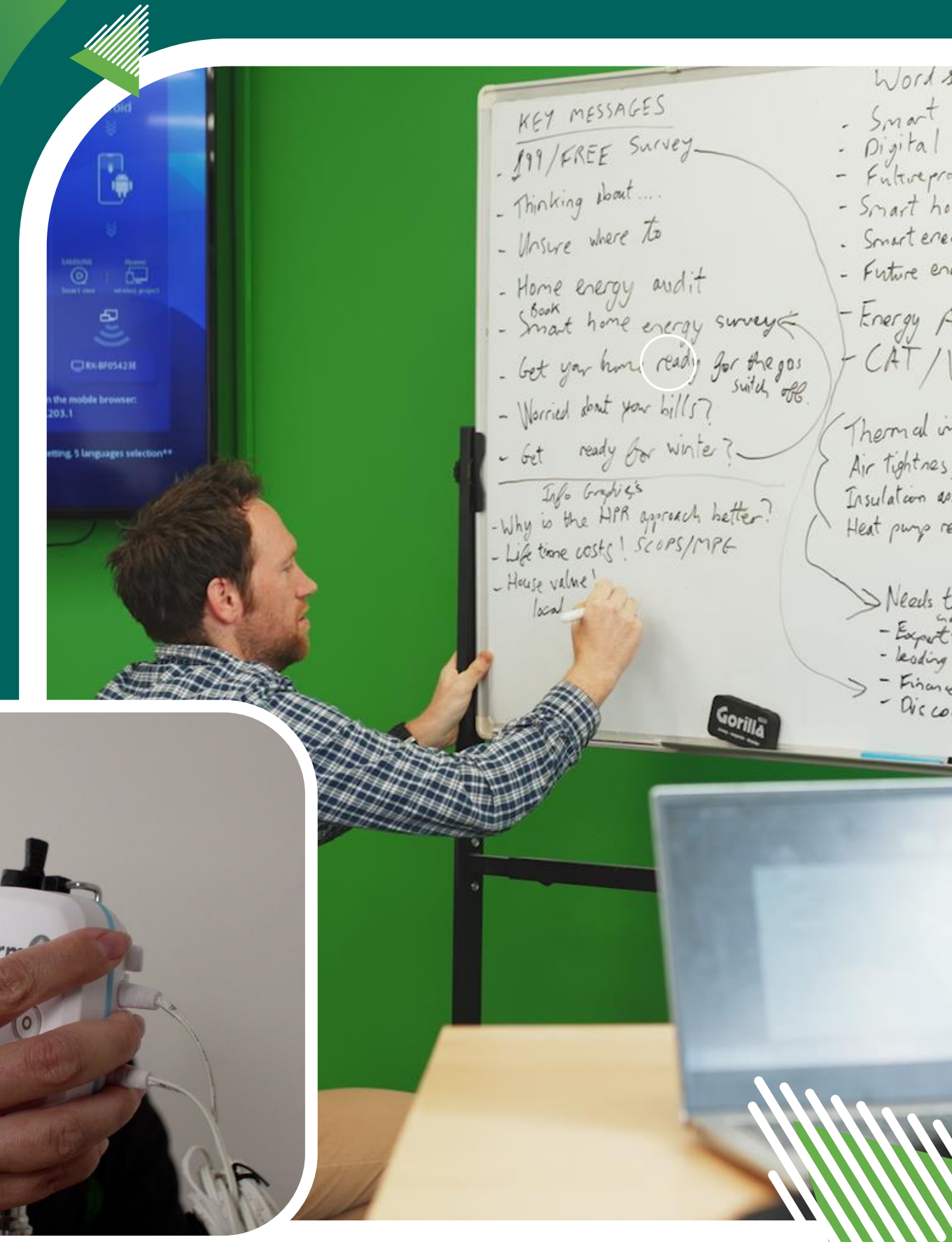
- We specialise in creating and bringing to **market building performance measurement solutions**.
- We use **sensors and smart software algorithms** to deliver accurate and reliable energy performance results.
- Our science-based approach to measuring building efficiency is **supporting building owners in reaching Net Zero effortlessly**.



Measuring thermal efficiency in buildings

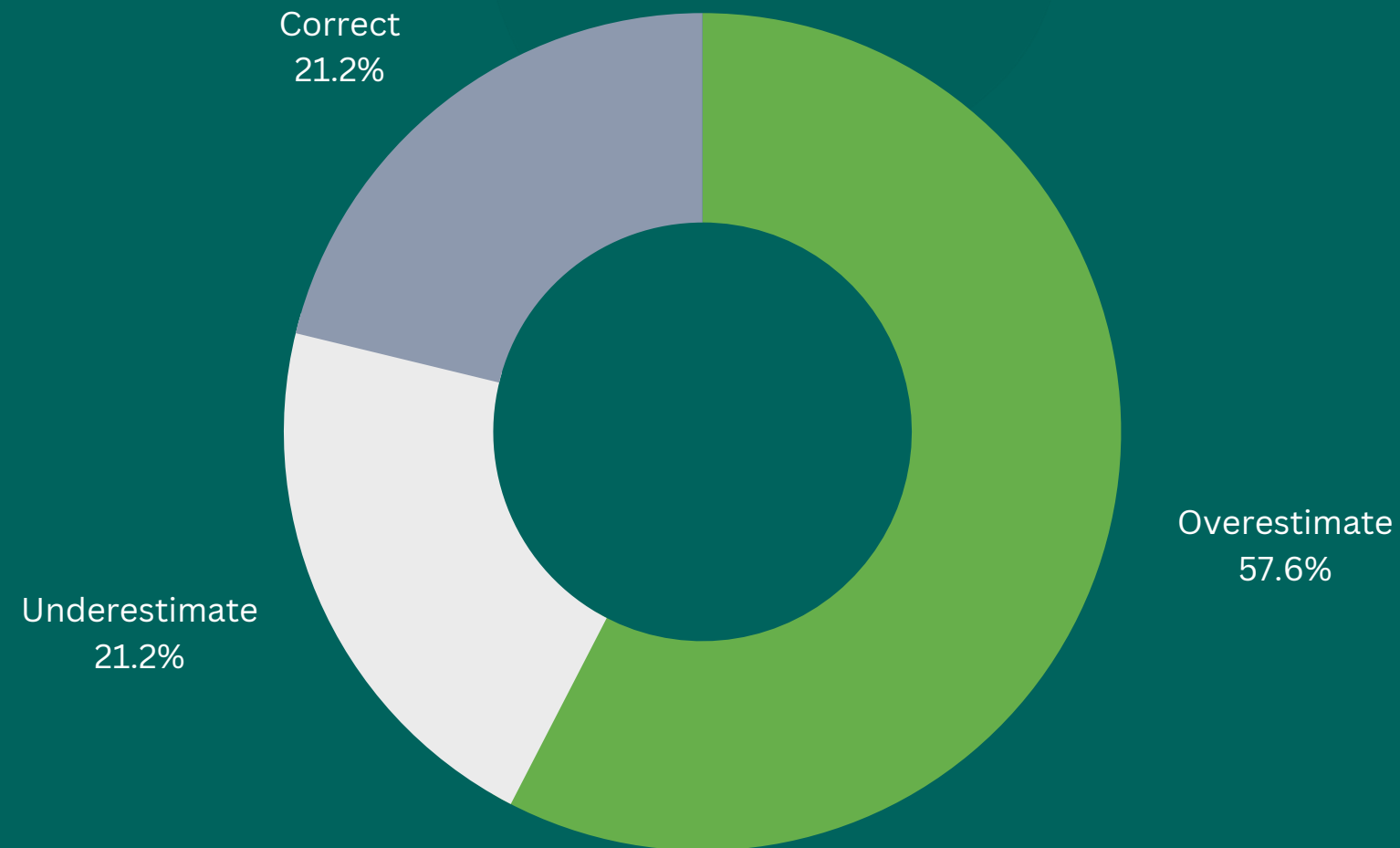
Our science is enhancing building performance

- Pre & post refurbishment assessments
- Designed vs As-Built assessments
- Real-time building performance analysis using live data
- Data-driven and predictive heating/cooling automation



Heat Loss Measurement In Heat Pump Design

Why is Real Data Better?



In a trial of 69 buildings the calculated heat loss was only correct for **21%** of the buildings. For **57%** the heat loss was overestimated and there would be a risk of an oversized and expensive system. While **21%** the heat loss was underestimated and there would be risk of insufficient heating.

So, what does a store of the future look like?



Digitised
Assets



Real Data



Automation



Carbon
Reduction

Smart Energy Performance Audit

Future Store - Case Study

Digital Twin Creation

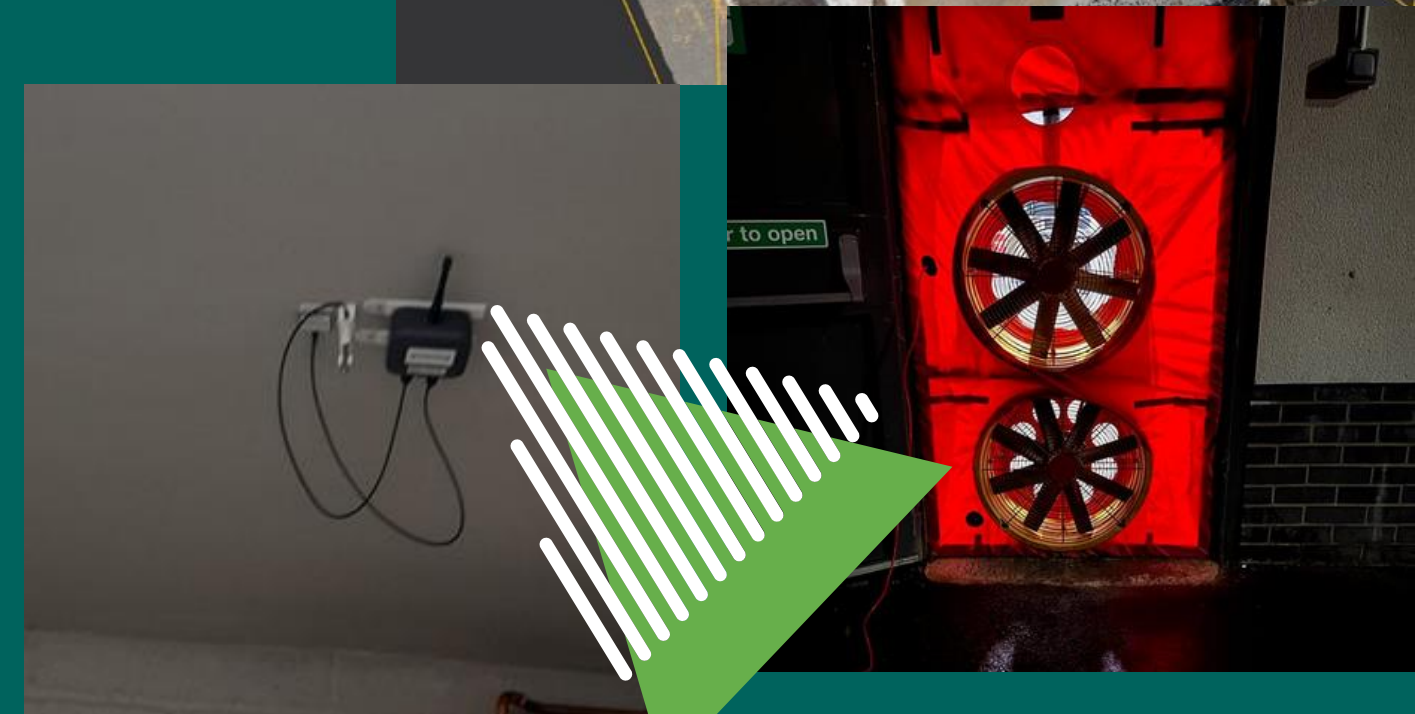
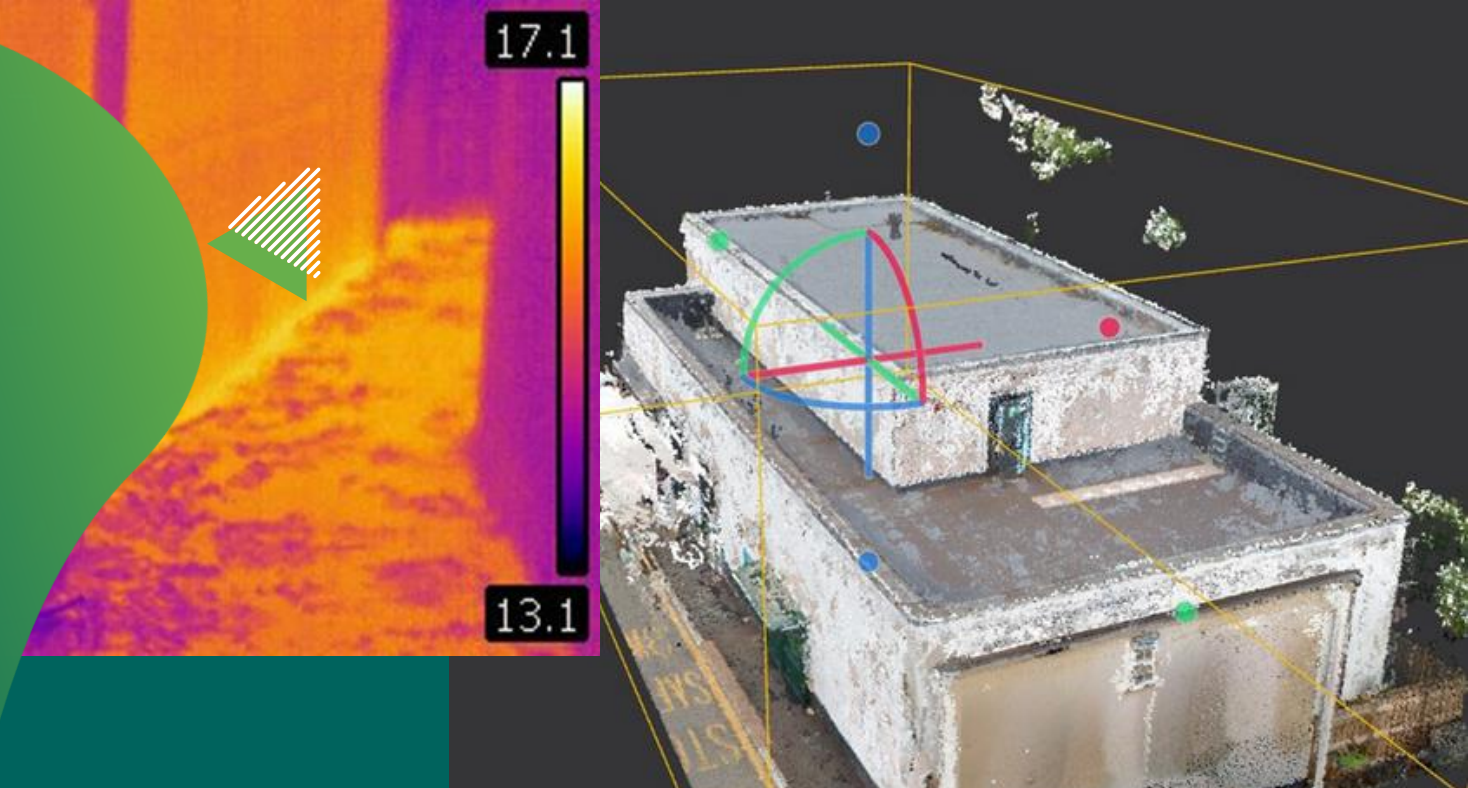
Digital copy of building with accurate dimensions, central data repository, no requirement for future visits.

In-situ measurements & data analysis

Thermal Imaging, Air Leakage, Fabric Performance

Feedback & building optimisation

Conduct exhaustive analysis to identify energy saving opportunities





Real-time thermal analysis for operational excellence and reporting

Live Data Algorithm Services

- Identify inefficient buildings for targeted retrofits
- Use real data and verification to reduce investment risks
- Implement system modulation strategies for flexible energy tariffs in heating and cooling
- Develop data-driven and predictive heating control strategies
- Provide evidence-based and verified carbon savings for ESG reporting

Veritherm 

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