HAPI and Building Performance Network (BPN)
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Need hindsight and foresight

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An example from BPE study of a low-carbon housing development (Gupta 2013)

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**HAPI**: Management of housing performance information through hindsight, insight and foresight

- **DURATION**: 2016-2017

- **FUNDED BY**: Innovate UK’s Supply Chain Integration in Construction competition

- **PARTNERS**: Zero Carbon Hub (lead), Joseph Rowntree Housing Trust

- **FUNDING**: £125,000
Construction supply chain is fragmented and better integration is necessary for achieving high performing buildings.

Poor flow of information and lack of collaboration in the supply chain is a leading obstacle to innovation in the construction industry.

Occurrence of performance gap in housing is due to various factors including lack of knowledge & guidance, and inadequate documentation of construction information.

Lack of products and services that provide data to specifiers and designers from commissioning, operation, post-occupancy evaluation and feedback.

Lifecycle information management is inadequate.
Overall aim of HAPI

• HAPI seeks to enable better supply chain integration by developing, testing and refining a web-based prototype for effective management of housing performance information.

• Provide designers, specifiers, contractors and housing providers with:
  • **HINDSIGHT** on actual performance of previous low energy housing projects
  • **INSIGHT** on ongoing projects
  • **FORESIGHT** to improve future housing specification, performance and design

• Lifetime housing performance information management which uses systematic feedback to improve information flow in the supply chain.
BPN Objectives

• Bring people together with an interest in building performance.
• Understand how building performance data is collected and analysed to ensure members have reliable data on which to base their decisions.
• Move forward the practice of building performance evaluation to make it accurate and usable for the sector.
• Share and make members aware of a wide range of studies undertaken in the UK, creating a data-sharing platform to move the building performance agenda forward.
• Use data to influence change in policy, procurement and practice.
BPN Members

**Building Products Manufacturers** – to provide reliable, robust data around product performance.

**Academic Institutions** and Building Performance Experts – to share results and methods of data collection and analysis.

**Construction Companies** – to understand what the issues are in the design and delivery of high performing new and existing buildings supported by strong evidence.

**Building Owners** – to effectively understand and assess the performance of their assets.

**Policy Makers** – to provide a robust and peer reviewed evidence base to inform policy makers.
BPN Activities

- Peer Review Mechanism
- Current Studies
- Data Collection and Analysis Best Practice
- Collaboration Tools and Network Events
- Communication with Key Groups

Not designed to do research itself, or own standards – help link, co-ordinate and provide a focal point for our work.
BPN Governance

**Council**
- Provision of oversight with 10-20 members representing the group interests

**Board**
- Responsible for the management of the group as a business

**Management Team**
- Small operational team to organise the activities of the group

**Members**
- 3 types of membership – Core, Active and Associate – through AGM
BPN Reports

State of the Nation
Data collection projects around building performance

The Power of Data
Key Data and Findings

Methods and Facilities
Review of Current and Emerging Measurement Approaches

BPN Activities

- BPN is supported by the Building Performance Network (BPN) and is managed by a BPN team.
- The BPN team is responsible for the overall management and coordination of the network.
- The BPN team collaborates with various stakeholders to ensure the success of the network.
- The BPN team includes representatives from government, academia, and industry.

Why We Need Your Support

- BPN is a collaborative network that brings together experts from various fields to address challenges in building performance.
- By supporting BPN, you can contribute to the development of sustainable and efficient buildings.
- Your support will help BPN to continue its efforts in addressing the needs of the building industry.
- BPN membership provides access to resources, networking opportunities, and research findings.

The Power of Data

- Data is crucial for making informed decisions in the building industry.
- Key data and findings are essential for understanding building performance.
- By analyzing data, we can identify trends, evaluate building performance, and make improvements.

Methods and Facilities

- Review of current and emerging measurement approaches.
- Evaluation of data collection methods and facilities.
- Identification of best practices and innovative solutions.

State of the Nation

- Data collection projects around building performance.
- Identification of gaps and opportunities in data collection.
- Analysis of data to inform policy and regulation.

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Thank you for your attention!