

Introduction TEDDINET

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Transforming Energy Demand Through Digital Innovation *network* (TEDDINET)

Aims (in short):

- To enhance collaboration between research projects
- To help achieve more external 'impact'

Resources (in short):

- Website, email bulletin, newsletter, publications
- Money for meetings (+ acad & logistical support)
- Flexible options incl. commissioning reports, co-sponsor placements?

Team (in short):

- Post-docs: Sam Staddon (Network Coordinator) & Tom Kane
- Principal investigators: Dan van der Horst & Steven Firth

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Ongoing activities include

- Network communications (website, email bulletin, newsletter + more)
- Thematic workshops
- Special journal issues (and/or books)
- Annual meetings & engagement with industry
- High level themes
- Commissioned reports/outputs
- Developing Leaders Research Fund

Project timelines - TEDDI, BuildTEDDI and TEDDINET: (Opportunities to pass on the lessons learned).



Three example projects

- IDEAL (BuildTEDDI): hundreds of households
- ENHANCE (Non-Domestic): several public-sector buildings
- BIG-SMALL: intensive data from dozens of households

IDEAL

- Sensor data
 - Temperature, humidity, light-level, (motion) in each room
 - Gas (0.01m³), electricity (2 sec), combi pipe temperatures
- Environmental data
 - Building and systems
 - Weather
- Personal data
 - Name, address, contact, multiple surveys
 - Apps (web, tablet, phone), emails, SMS, Q/A
- Volume dominated by sensor data
 - Estimate over 2 years: ~5GB/home, ~2TB total

ENHANCE

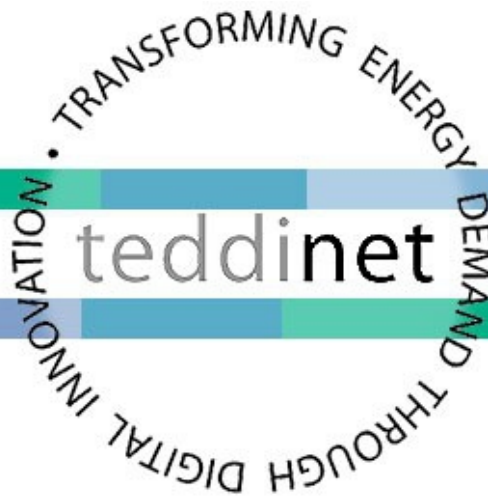
- BMS data
- Our sensor data
- Interview and focus groups
- Meeting notes and minutes (recordings?)

BIG-SMALL

- Per-appliance/circuit electricity
- Per-radiator/heater temperature
- Per-window/door opening
- Kitchen temperature sensors
- Floor plan
- Validation Q/A
- Volume: ~15GB/home, ~0.75TB

Derived data

- Behaviour inferences (All)
- Feedback generated (IDEAL, ENHANCE)
 - Tablet, email, sms, newsletter, social media, ...
- Analyses
- How much of this should be archived?



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ideas & suggestions always very welcome!

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