

Smart Falmouth

Assoc Prof David Hawkins PhD

Associate Dean (Research and Innovation)

University College Falmouth, UK











Research and Practice

- Specialist University College with a full range of courses across Art, Design, Media and Performance
- Research themes within the Academy for Research and Innovation of Sustainable Design and Digital Economy
- Current research projects include: Superfast Broadband,
 Digital Manufacturing, Smart Buildings, Sustainable Transport,
 Health and Well-being, Digital Crafts, Design Agency,
 University of the Village
- Located in the far South West of the UK with mining heritage, strong tourism and marine industries, relative geographical isolation, good natural resources, limited industrial capacity





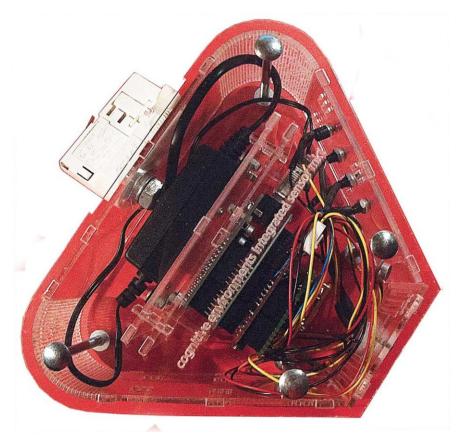




Cognitively Enabled Built Environments

lan Biscoe (PhD Researcher) ib144197@falmouth.ac.uk cognitiveenvironments.wordpress.com

Can the embedding of ubiquitous computing technology into architectural practice and the fabric of the built environment deliver measured improvements in usability, comfort and efficiency?









Integrated Wireless Sensor Unit

Environment & Occupant Sensing for PhD Research Monitors: CO2, Temperature, Humidity, Ambient Light Audio Levels / Spectrum Analyzer Area Movement (PIR)

ZigBee 802.15.4 wireless network: configuration/reporting Mounts directly to industry standard 3-rail lighting tracks





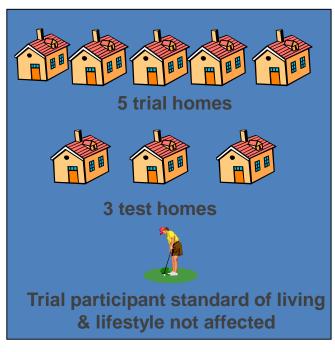




PHASE 2



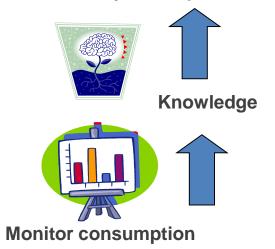
Install energy efficient appliances and boilers in each home



Monitor consumption



Commercially viable products





Apply intelligence to further reduce energy consumption

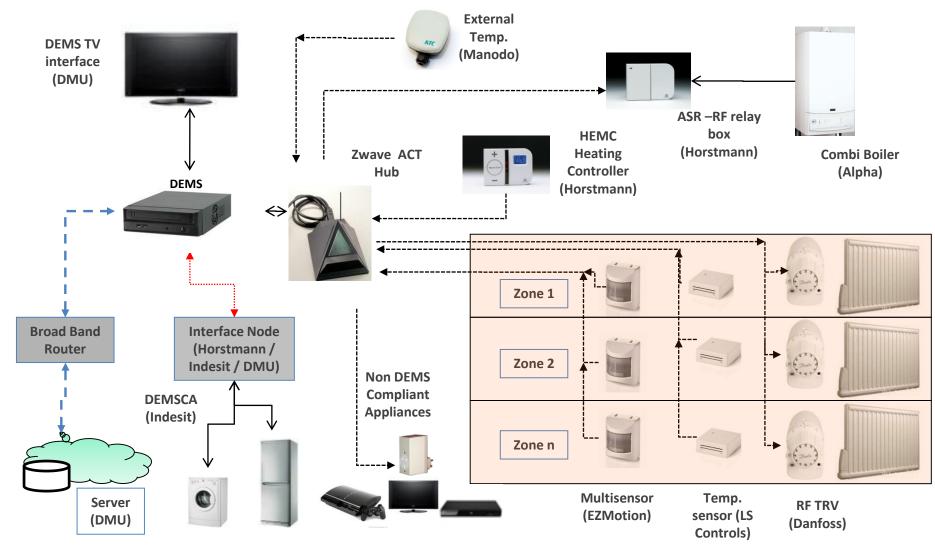






FALMOUTH

DEMS IMPLEMENTATION





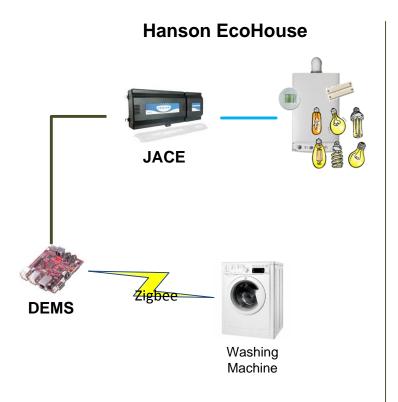


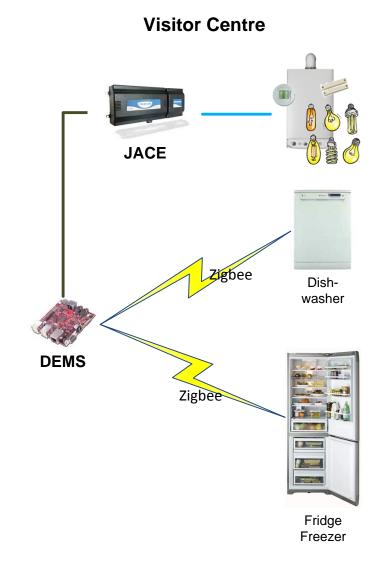




Demonstrator houses at BRE









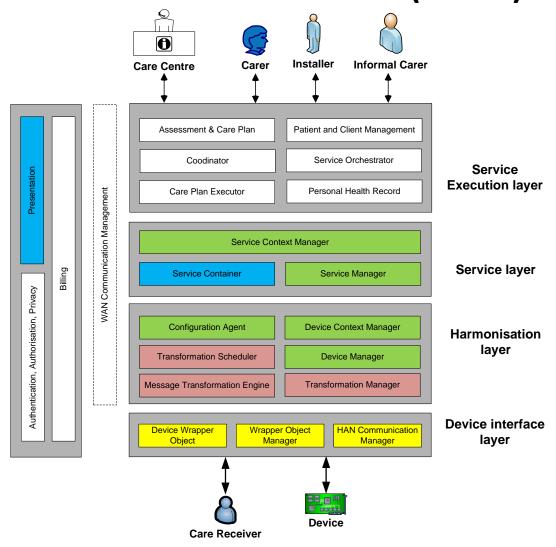






SMART HOME OPEN PLATFORM CARE SERVICES TRIAL (ICARE)







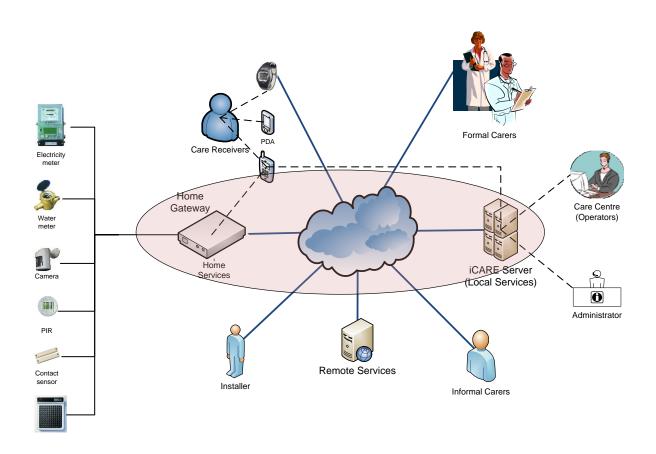








iCARE Trial Structure





Fab Foundation



MAIN MENU

- Home
- · Fab Charter
- Fablabs
- Fab Academy
- Forum
- Fablab Projects
- Contacts
- Links
- Login







































5-axis milling, Hacker Space, Mechanical Drawing, etc, as part of digital manufacturing network































Potential areas of interest

- Design of equipment and interfaces especially with human factors and usability in mind (this includes aesthetic, social and cultural issues)
- Testing and further developing practical integrated approaches:
- information flow (including uses of broadband)
- power generation and distribution (energy supply and security)
- private and public transport, food production (agriculture, horticulture, domestic gardens, co-operatives and local sharing/distribution)
- digital manufacturing at craft and medium scale for local consumption and distribution (including furniture, products, clothing, artwork, textiles, etc)
- entertainment and social functions, health and well-being

Further Contacts

Professor Philip Moore

Pro-Rector (Research & Innovation)

Director – Academy of Innovation and Research (AIR)

University College Falmouth,

prmoore@falmouth.ac.uk

Tel: +44 (0)1326 255 700 Mob: +44 (0)797 953 0363 **Assoc Prof David Hawkins**

Associate Dean (Research) AIR University College Falmouth Cornwall, UK

david.hawkins@falmouth.ac.uk

(Cell) +44 (0)7768 427189







