Sustainability & IT
Funding organisations and calls

Mike Hazas, 2022-05-31
Outline

• about me and my research interests

• funding schemes and calls
## Academic background

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>BSc Electrical Engineering, w/ Comp. Sci. minor</td>
<td>Rose-Hulman Inst. of Technology (Indiana, USA)</td>
</tr>
<tr>
<td>1999</td>
<td>MPhil Signal Processing</td>
<td>Engineering Dept Cambridge</td>
</tr>
<tr>
<td>2002</td>
<td>PhD Mobile Computing</td>
<td>Computer Laboratory Cambridge</td>
</tr>
</tbody>
</table>
Broadband ultrasonic positioning

Relative positioning
(minimal infrastructure)
# Academic background

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>BSc Electrical Engineering, w/ Comp. Sci. minor</td>
<td>Rose-Hulman Inst. of Technology (Indiana, USA)</td>
</tr>
<tr>
<td>1999</td>
<td>MPhil Signal Processing</td>
<td>Engineering Dept Cambridge</td>
</tr>
<tr>
<td>2002</td>
<td>PhD Mobile Computing</td>
<td>Computer Laboratory Cambridge</td>
</tr>
<tr>
<td>2008</td>
<td>BA Sociology</td>
<td>Lancaster University</td>
</tr>
</tbody>
</table>
Thermal comfort

- modelling of room-level parameters for prediction and control
- heating intervention to engage inhabitants in personal adaptation
Home energy and peak shifting

- renewable energy forecast, time-shifting practices
Impacts of ICT

- home ICT: mains vs. manufacturing

- HCI and environmental public policy, a case study
one tenth of global electricity
carbon emissions
What does the energy go into?

- Devices
- Data centres
- Networks
- Manufacturing
What is the Internet *for*?

- video
- app updates, back-ups
- social networking
- web, email, gaming, etc.
But to find out what the Internet is for, we need more detail about what happens in homes.
20 participants across 9 households

H1
- Martin (M, 50s, Retired)
- Gemma (F, 50s, Retired)
- Ben (M, 20s, Freelance Artist)

H2
- Laura (F, 50s, Business Partner)

H3
- Tim (M, 30s, Tax Consultant)
- Connie (F, 30s, Nurse)

H4
- Alan (M, 50s, Banker)
- Denise (F, 50s, Services Representative)

H5
- Ella (F, 30s, Lecturer)
- Kevin (M, 30s, Researcher)

H6
- Fred (M, 40s, Accountancy Firm Employee)
- Julie (F, 40s, Secretary)
- Heather (F, 10s, Secondary School Student)

H7
- Ian (M, 40s, Accountant)
- Olivia (F, 40s, Community Coach)
- Nick (M, 10s, Secondary School Student)
- Peter (M, 10s, Primary School Student)

H8
- Rachel (F, 30s, Accounts Assistant)
- Sally (F, 0s, Primary School Student)

H9
- Xavier (M, 20s, PhD Student)

Jun 2017-Jan 2018, UK
4. Devices enable new watching possibilities

[The new ways of watching]
Funding schemes and calls
• special calls, e.g. “Research on social consequences of digitalization” (last week)

• choosing the subject area (corresponding to a specific discipline and reviewers) could make it difficult
Formas

• Formas Open and Formas Early Career, April (yearly)

• and the recently closed call for PhD schools

• tend to be more empirical, or have an on-the-ground element

• must speak to sustainability goals, both

  • Swedish https://www.sverigesmiljomal.se/

Energimyndigheten

- E2B2
- MESAM
- and others more technically focused
- even more applied than Formas
- need a single strong partner or multiple others
  - MESAM requires at least one signed letter of support
- deadlines move around
**Wallenberg**

- lots of planning - overheads not fully covered and need letter from vice rektor
- less transparent (and examples harder to find)
- pre-application phase in Jan/Feb (dept then faculty)
- final deadline late March.
- Knut och Alice: covers the IT discipline, but lots of TekNat competition
- Marianne och Marcus: not our discipline, but special emphasis given to sustainable society; and they welcome applications relating to IT. less competition within UU (and not via TekNat)
Mistra

- often for environmental research (life sciences)
- usually much larger amounts (8m SEK or more) meant to build consortia or doctoral training schools
- but worth keeping an eye on (or just ask Mike)
- https://www.mistra.org/
Stiftelsen för Strategisk Forskning

- usually calls for much larger grants and consortia
- https://strategiska.se/
the Transport Administration’s Research and Innovation Plan has parts which focus on sustainability research:


Descriptions of their previously funded research:

various ML/AI calls

• there are lots of these, and some may allow for a sustainability application