Sustainability & IT

Funding organisations and calls

Mike Hazas, 2022-05-31

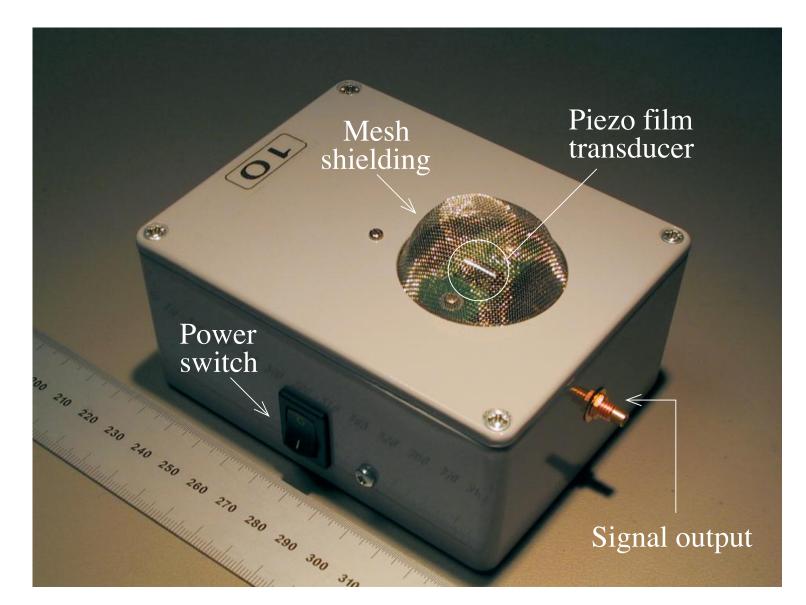
Outline

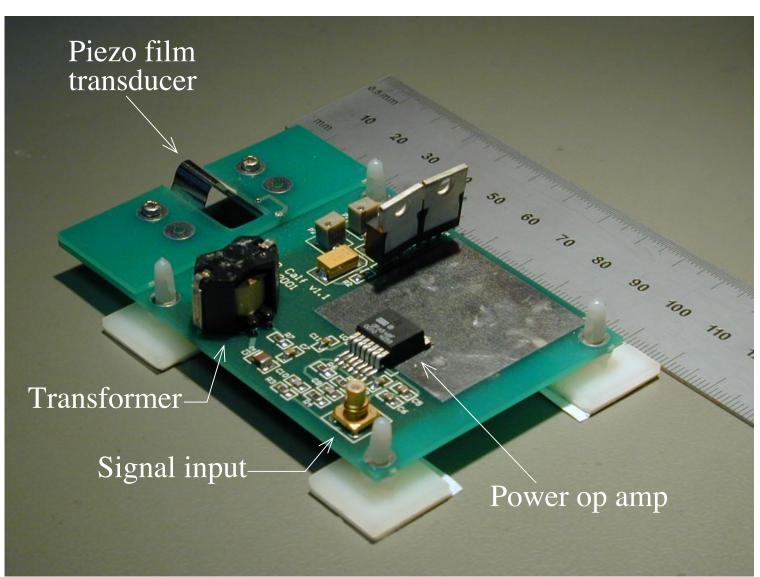
- about me and my research interests
- funding schemes and calls

Academic background

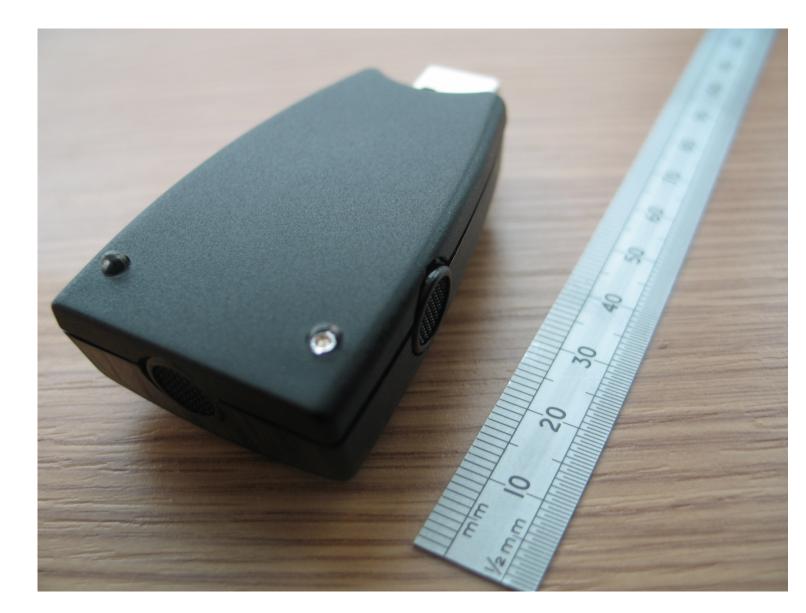
1998	BSc Electrical Engineering, w/ Comp. Sci. minor	Rose-Hulman Inst. of Technology (Indiana, USA)
1999	MPhil Signal Processing	Engineering Dept Cambridge
2002	PhD Mobile Computing	Computer Laboratory Cambridge

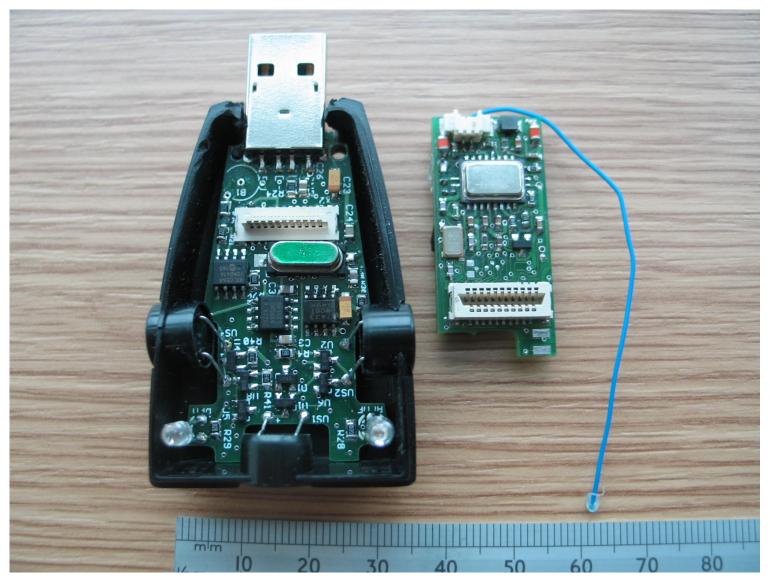
Broadband ultrasonic positioning





Relative positioning (minimal infrastructure)



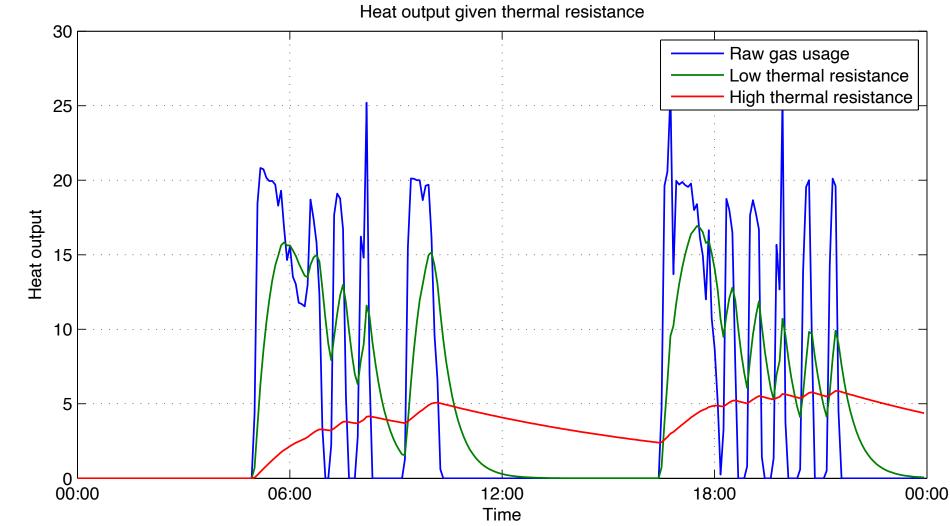


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2008	BA Sociology	Lancaster University

Thermal comfort

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





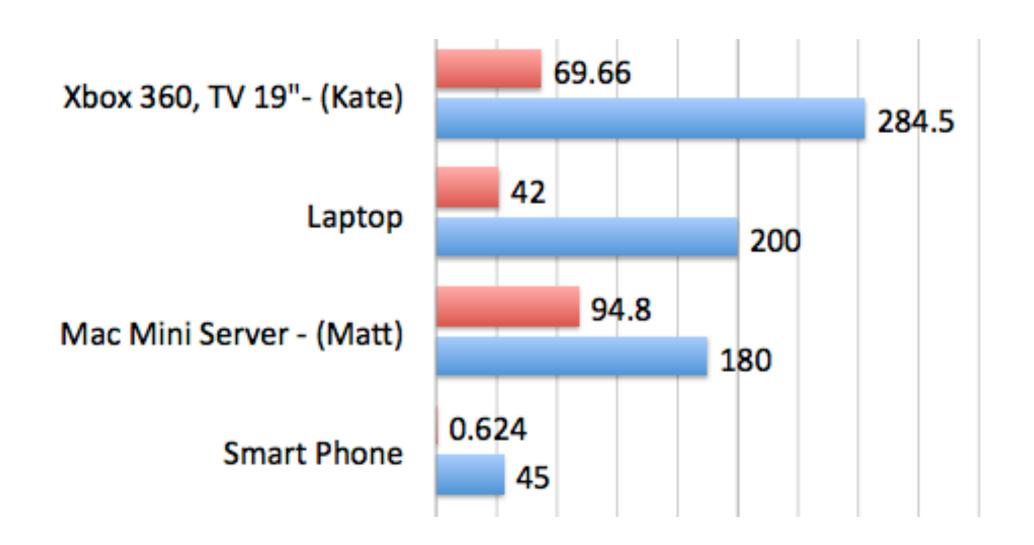


smart radiator valve



Impacts of ICT

 home ICT: mains vs. manufacturing



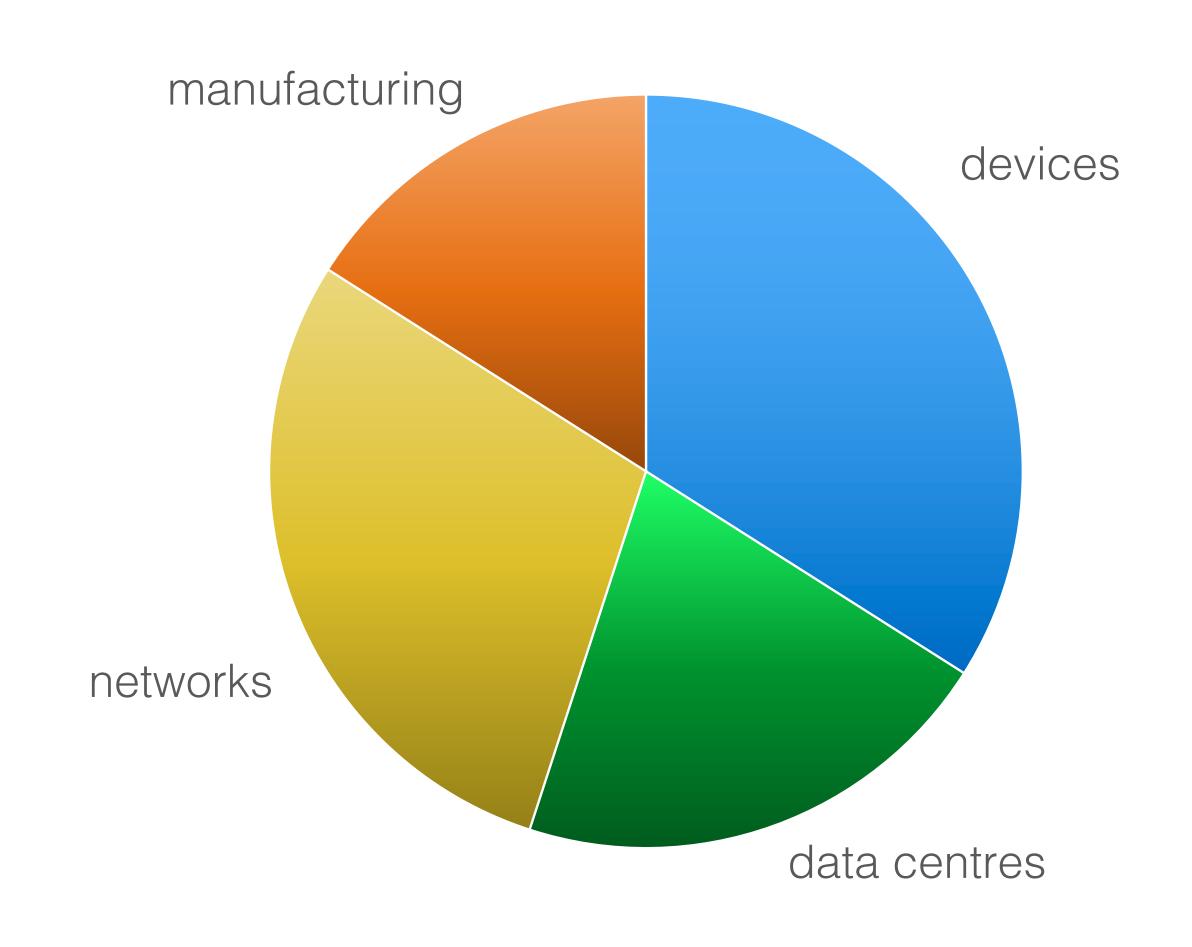
 HCI and environmental public policy, a case study



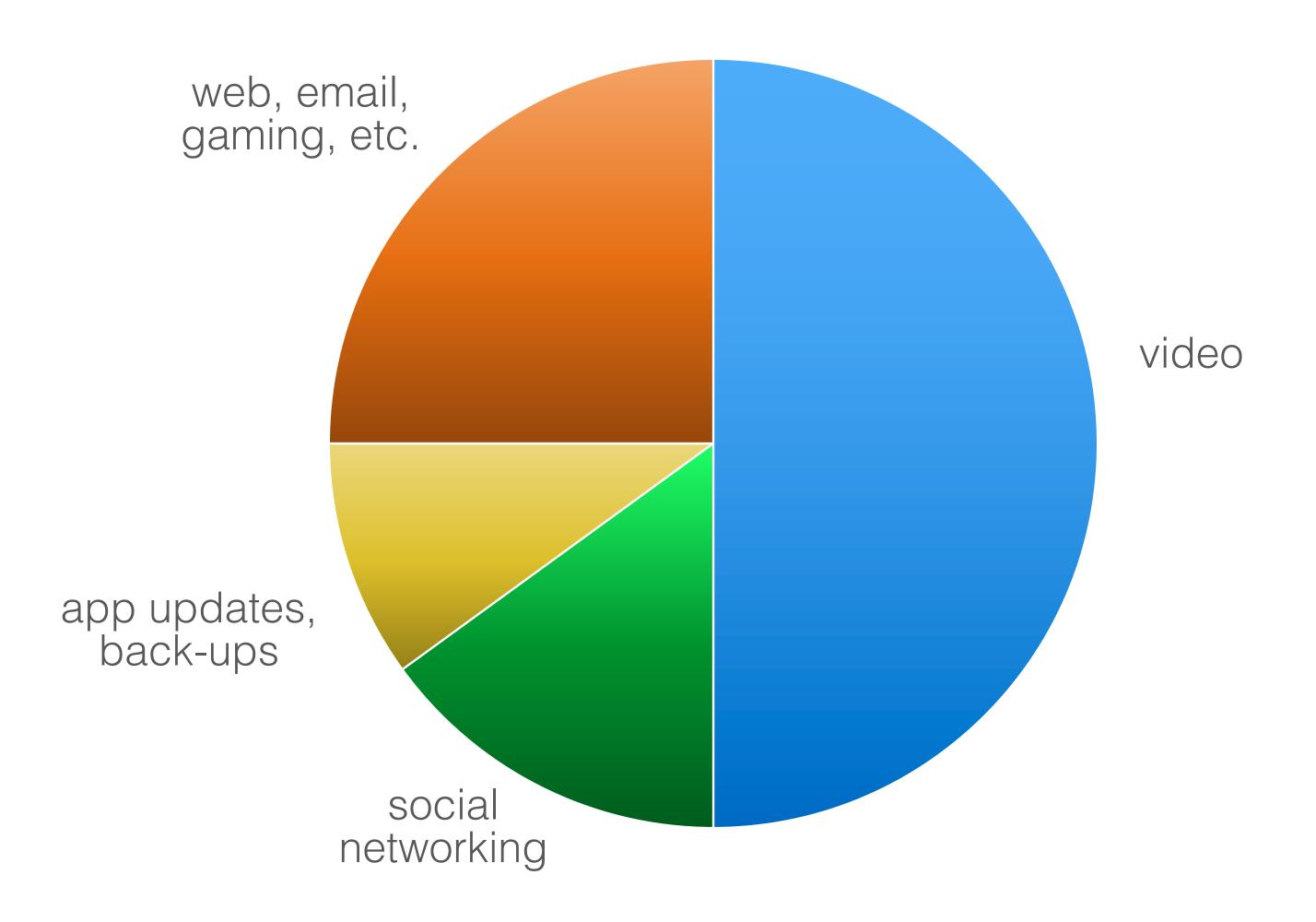




What does the energy go into?

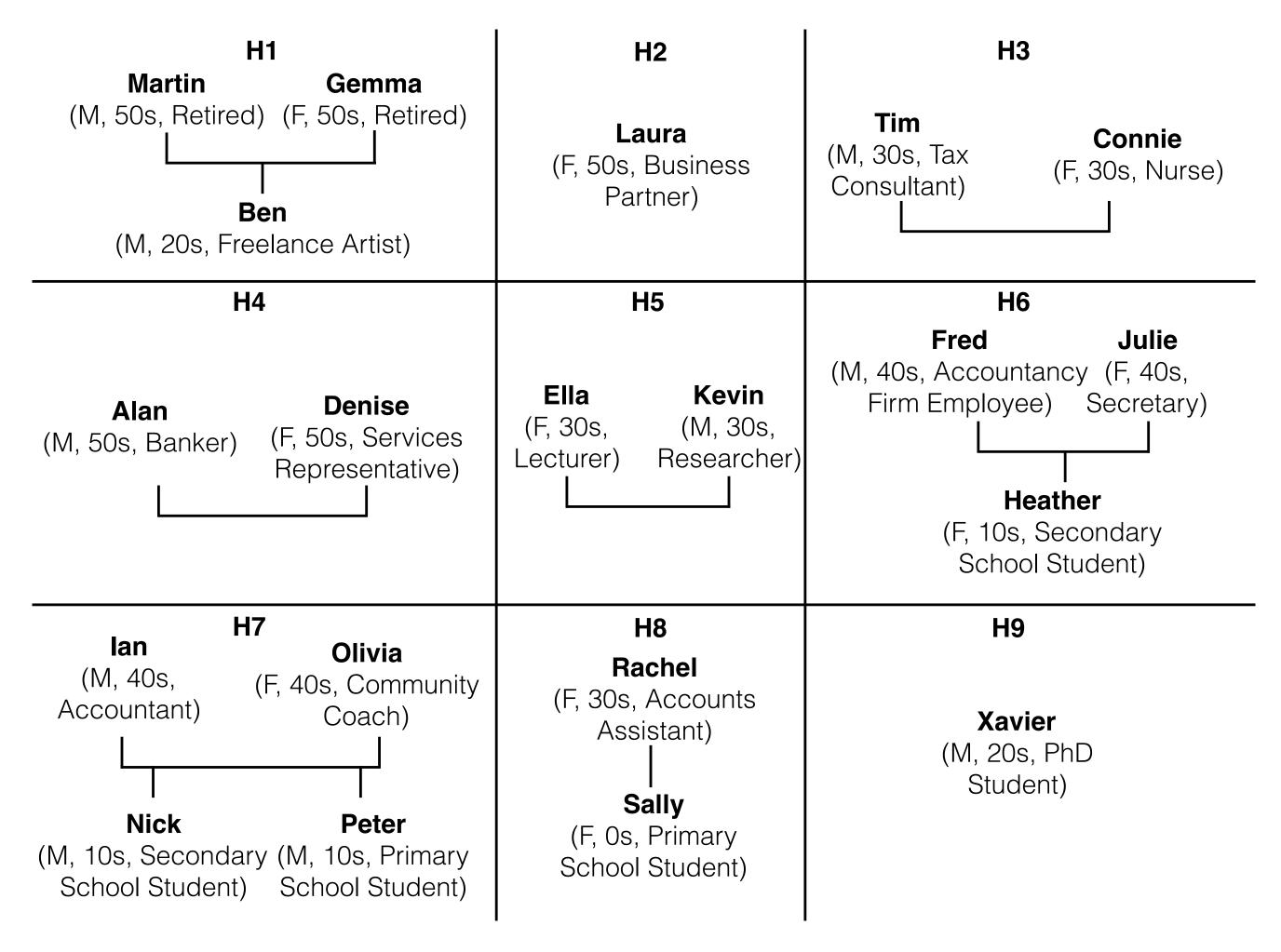


What is the Internet for?

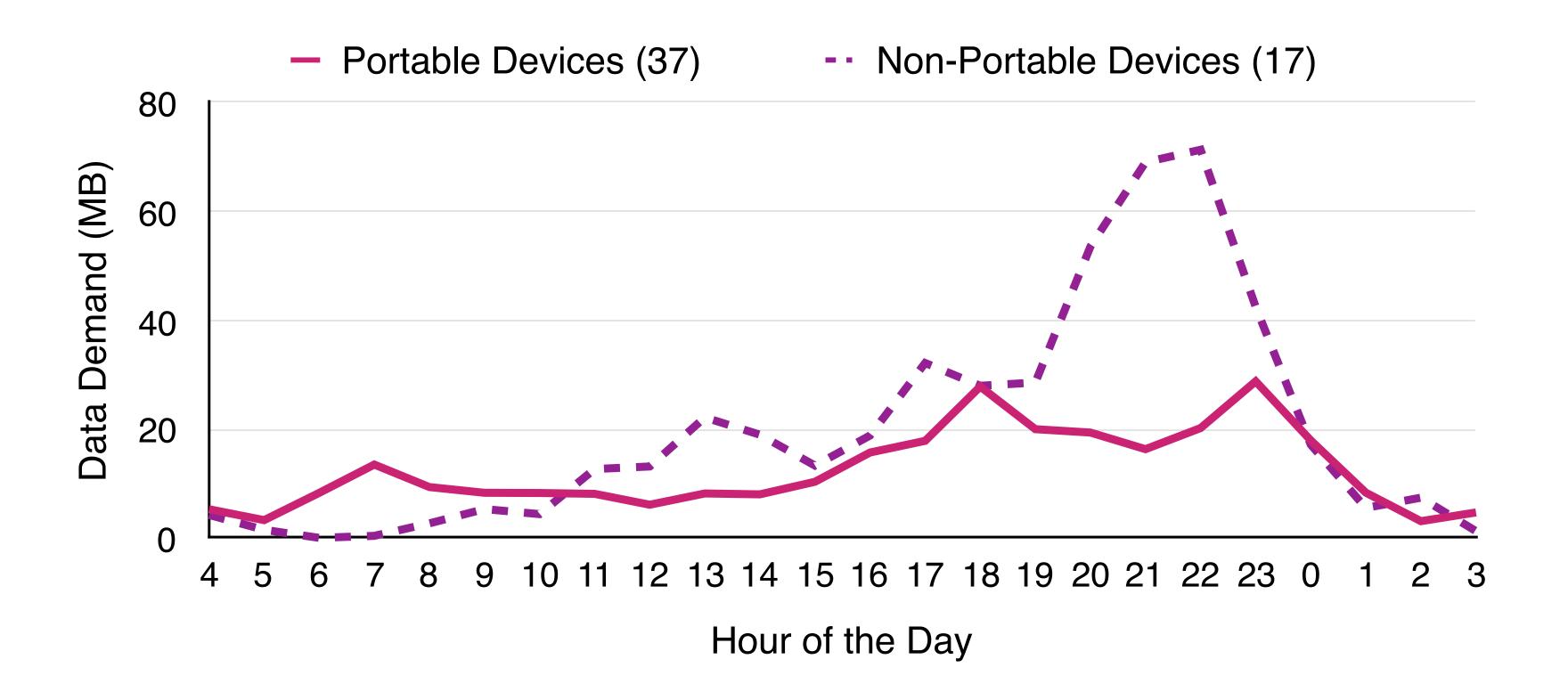


But to find out what the Internet is *for*, we need more detail about what happens in homes.

20 participants across 9 households



4. Devices enable new watching possibilities



Funding schemes and calls

VR

- 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/
 - United Nations https://www.un.org/sustainabledevelopment/sustainabledevelopment/sustainable-development-goals

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/

Trafikverket

- the Transport Administration's Research and Innovation Plan has parts which focus on sustainability research:
 - http://trafikverket.diva-portal.org/smash/get/diva2:1629752/
 FULLTEXT02.pdf
- Descriptions of their previously funded research:
 - http://trafikverket.diva-portal.org/smash/get/diva2:1629764/
 FULLTEXT02.pdf

various ML/Al calls

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