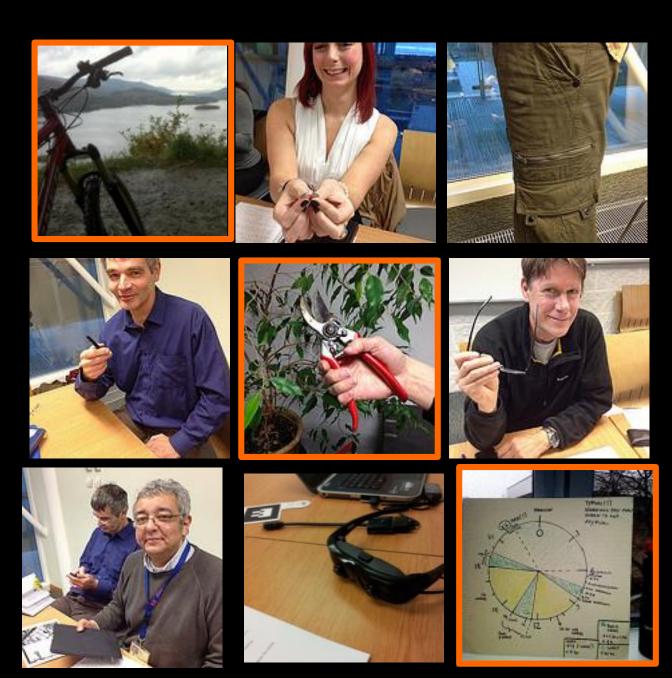






Can digital technology help to reduce barriers to engagement amongst adults with HFA?











"design must remain an empirical, social, interpretive & humanistic discipline, not one that is subservient to engineering convenience and technological fantasies"

{Blackwell, A. 2010}

clasp.



SOCIAL! TECHNOLOGY! **INNOVATION! NEW DOMAINS!** IN THE WILD! IMPACT! RAPID! SUISTAINABLE!



SPEEDPLAY

- An innovation management <u>framework</u>
 which combines action research,
 participatory design, and agile development
 {4 steps}
- A mindset, that sees technologies as tools to understand social needs and to bring about change {6 'principles'}



WORKING DEFINITIONS

Action Research understand a social context & bring about change

Participatory Design 'users' as partners

Agile iterative software development approach



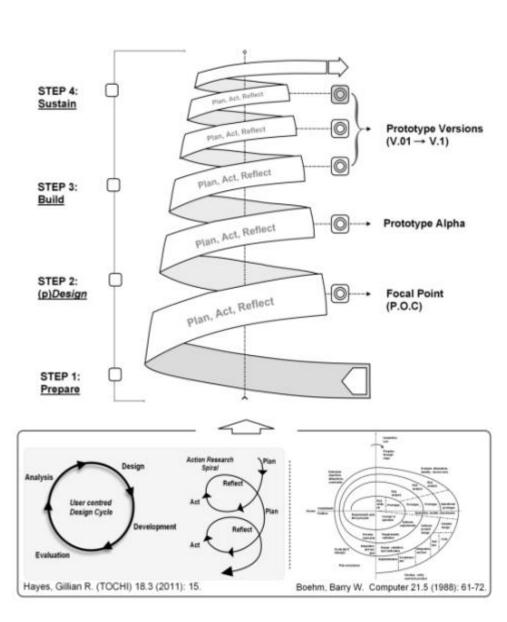
SIX PRINCIPLES

- **Equality** partners = research peers
- Mutual help share tasks
- Self-direction take primary responsibilities
- **Creativity** be *un*-disciplined with methods
- Adaptability be opportunistic with change
- Responsibility technology as part of the enquiry

Framework: 4 Iterative Steps

- 1. Prepare
- 2. Design
- Build
- 4. Sustain

Each step is 'paced' by an output



BUILD TRUST/UPSKILL

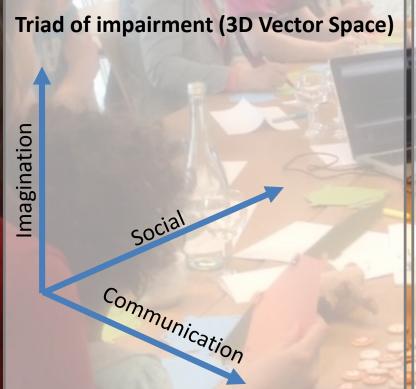
'These people do not need much help but when they need it, they need it badly'

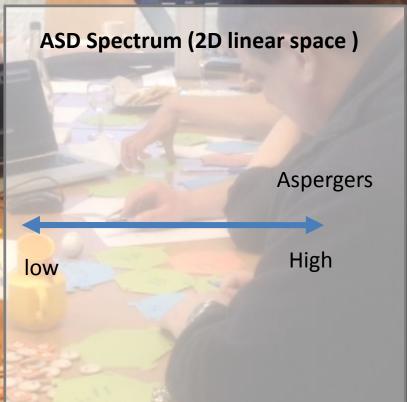
'I am not good at <u>technology</u>, answering a phone s an achievement...'

'I had to go to the shop to buy bread and I had to stop, I was in <u>complete panic</u>'

{HFA adults, Carers & Families}

A MISMATCH?





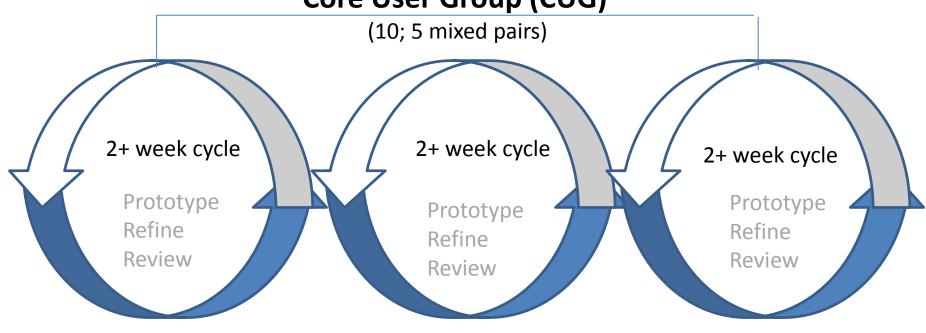
"I would like to throw all labels away today, including Asperger's syndrome, and move towards the dimensional approach. Labels don't mean anything {...}" {Lorna Wing in Firith, Uta – 1989}





BUILD PHASE

Core User Group (CUG)



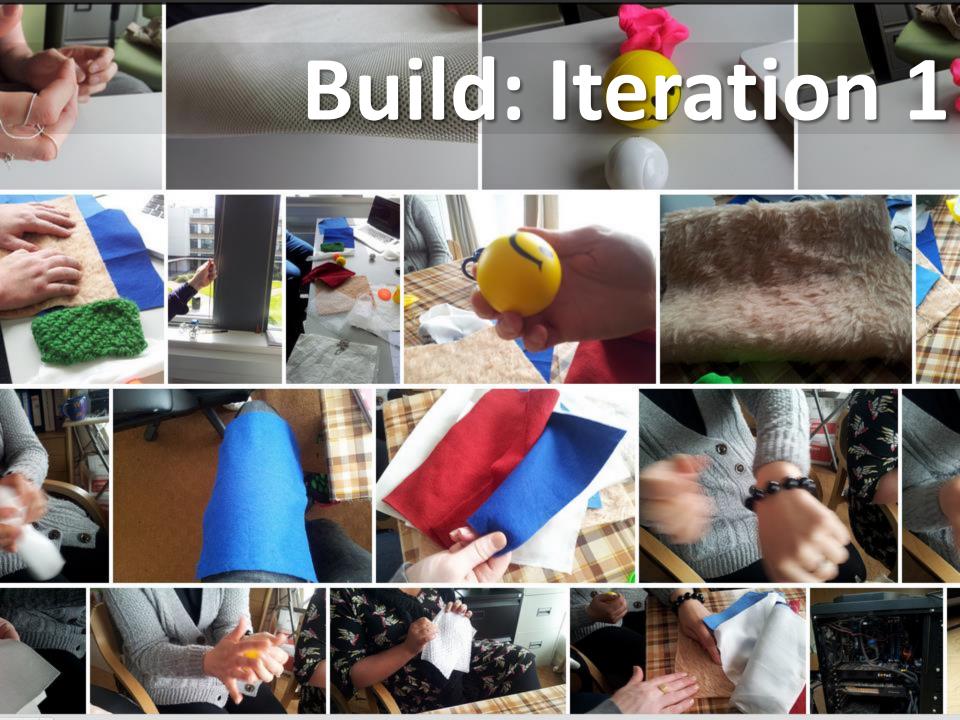
6 Sessions with CUG pairs (v 1)

23 May (APB)
Autism Partnership Board
Show & Toll (v. 2.0)

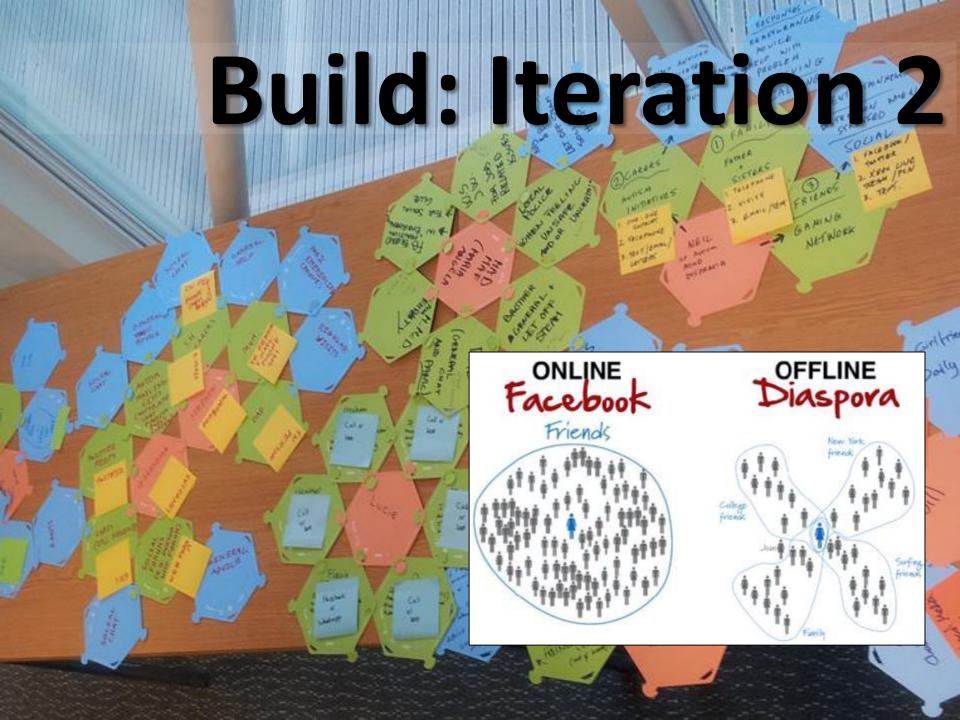
- Show & Tell **{v 2.0}**

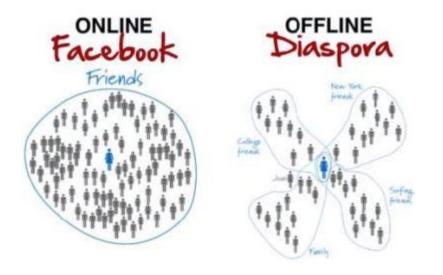
- Team meeting

28 May CUG 1 x workshop : v.2.0 demo & feedback w/c 17 June CUG 1 x workshop v.3.0 demo & feedback CATALYST
SEMINAR: v.4.0.
Show&Tell +
online survey









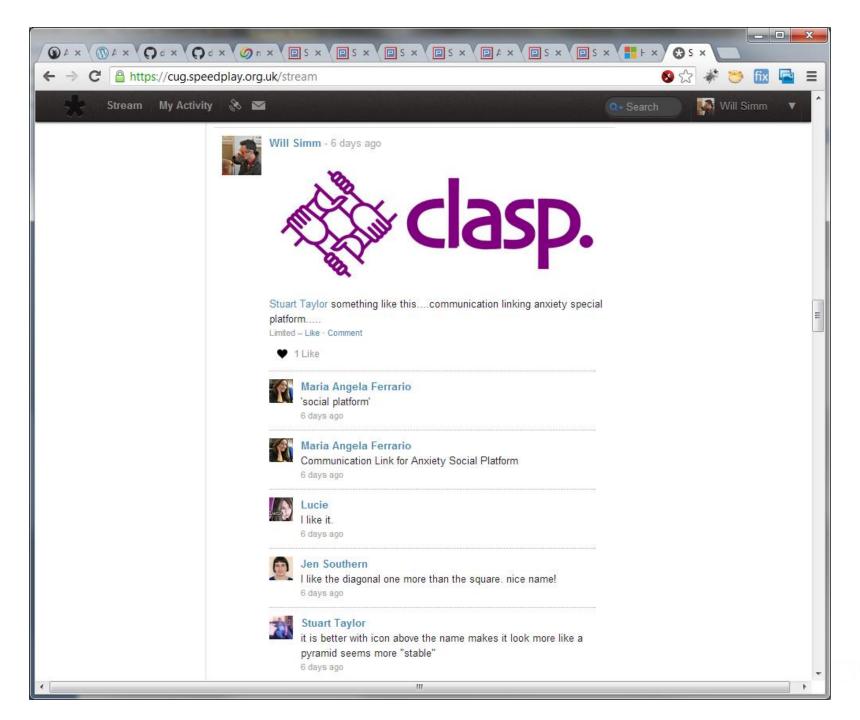
diaspora /dī-'as-p(ə-)rə, dē-/

origin: Greek, διασπορά – "a scattering [of seeds]"

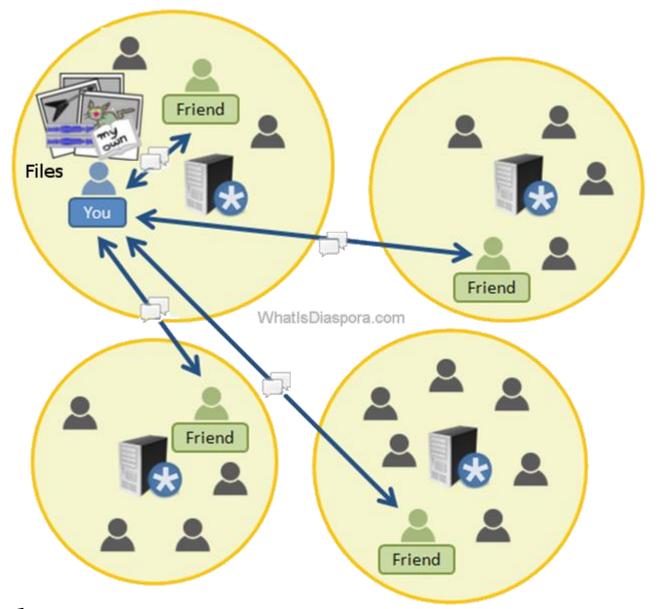
 the privacy aware, personally controlled, do-it-all distributed open source social network

Embed Values in System Features













Build: Iteration 3

Usability

Reliability Can it cope with connection problems?

Consistency

Does it behave the same way every time is

Privacy Do I have full & clear control on who sees what of my post?

Data Ownership

I own my own data. Third parties will not access my data without my explicit consent

Clarity

Is the interaction with the device clear and unambiguous?

Personalisation

Can I modify the system to suit my own personal needs

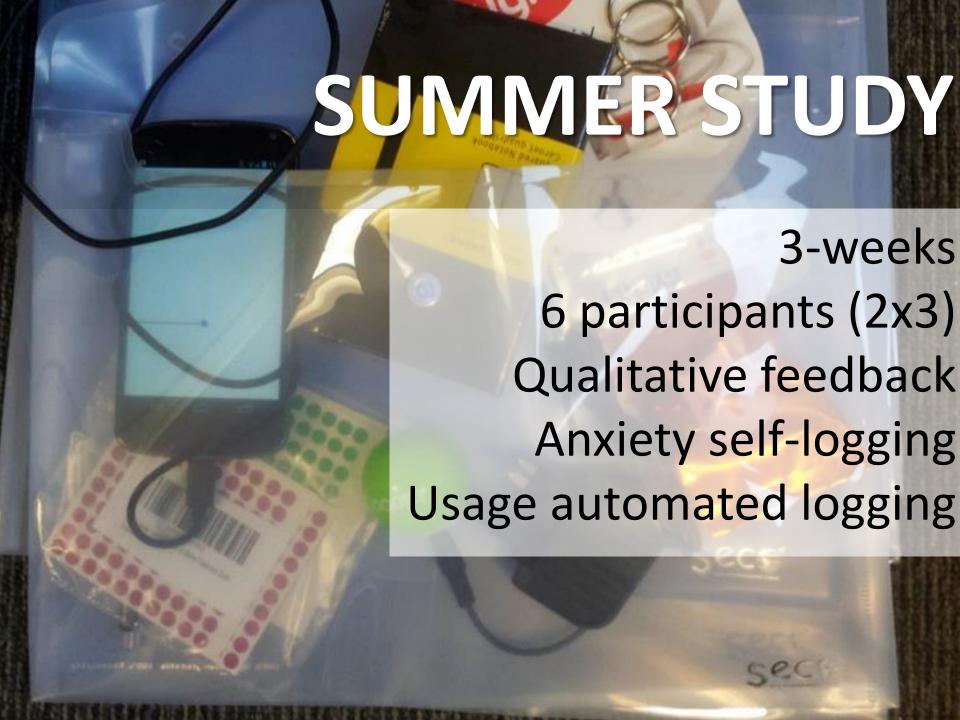
CLASP: Requirements

#	Requirement	Description
1	Reliability	The technology must cope with connection problems and lack of coverage
2	Usability	It is easy to use
3	Consistency	The technology behaves the same way every time is used
4	Personalisation	I can modify the system to suit my own personal needs
5	Clarity	The interaction with the device is clear and unambiguous
6	Data Ownership	I own my personal data. Third parties cannot access my data without my explicit consent
7	Privacy	Full and clear control on who sees my post









LESSONS LEARNED

"Everybody is unique"

Haptic Device

Variety of devices; Embedded.

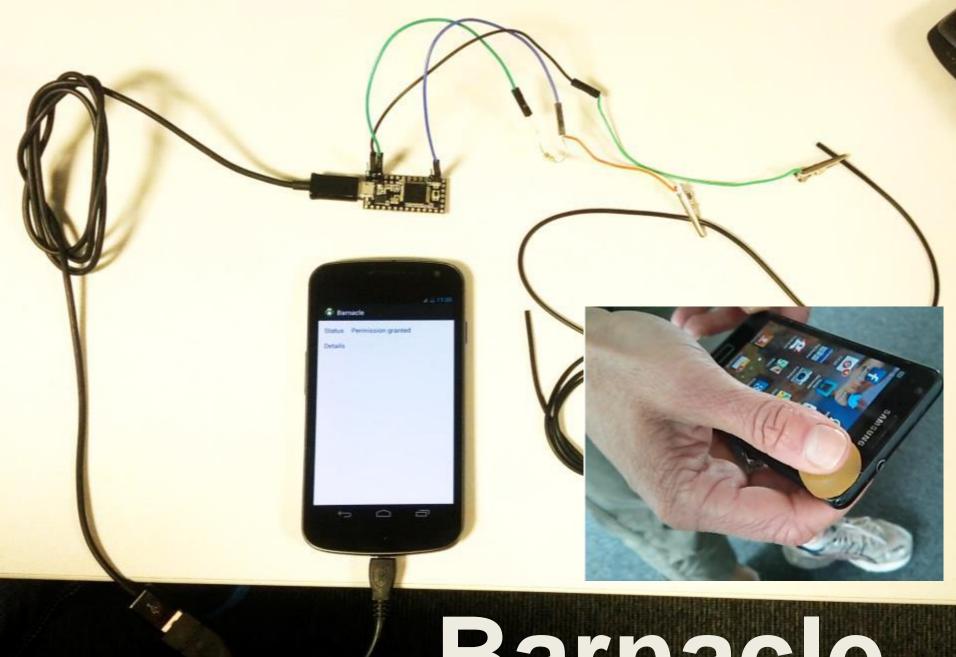
Anxiety Management

Custom anxiety triggers; access to interaction history

Support Network

 Trust, consistency, ambiguity, ownership





Barnacle





m.ferrario@lancaster.ac.uk w.a.simm@lancaster.ac.uk @malangela @willsimm

http://www.youtube.com/catalystcitizens www.catalystproject.org.uk

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