

# Technology Kitchen

## Clasp 2<sup>nd</sup> Meet-up and Making Workshop

02 March 2015

Room C60a, Infolab School of Computing and Communications

Researchers:

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# Outline

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## #1 UPDATE {2-2.30}

- **Recap:** From data to devices
- **Roadmap:** Where we are at
- **Rational:** Why a *Technology Kitchen*?
- **Takeaway:** No free lunch

## #2 DEVICES {2.30-4ish with breaks}

- Small Sensors, Big Data
- Action! Make / Break
- Next



# COMPONENTS

Anxiety Data Aggregator  
Tactile Anxiety Device  
Support Network System





By Torsten Seiler (Buffet)

[http://upload.wikimedia.org/wikipedia/commons/d/d3/Bufferet\\_Germany.jpg](http://upload.wikimedia.org/wikipedia/commons/d/d3/Bufferet_Germany.jpg)

**WE WANT: THIS**



"Production of cheese 1". Licensed under CC BY-SA 3.0 via Wikimedia Commons —

[http://commons.wikimedia.org/wiki/File:Production\\_of\\_cheese\\_1.jpg#/media/File:Production\\_of\\_cheese\\_1.jpg](http://commons.wikimedia.org/wiki/File:Production_of_cheese_1.jpg#/media/File:Production_of_cheese_1.jpg)

**NOT: THIS**



**HOW:** DeCoOp



Photo by Steve McFarland <https://flic.kr/p/5f9F3U>

# TECHNOLOGY KITCHEN

# DATA



Visualisation of last month feedback on 5 top words for 'personal data'

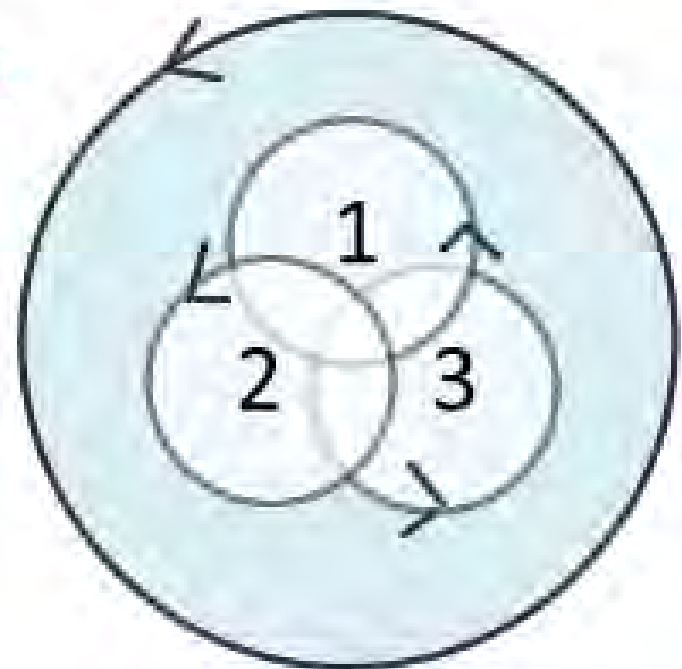


# Data Life Cycle

creation } 1 Capture  
storage }

analysis } 2 Curation  
presentation }

interpretation } 3 Use  
intervention }



# NIGHTSHAPES

“ There are 9 objects on this...so...I am drawn by the middle two ....



...it looks like a DAGGER sort of thing...maybe that was a nightmare in the middle and then a rude awakening in the end”


NIGHTSHAPES



“sometime the  
metadata helps,  
sometime the  
metadata is  
'broken'



...You described it really  
really well, but you  
completely ignored my  
metadata ”



“ it was my very large duvet I was buried in it the whole night.....

“ So, where does the murderous thoughts come from?

“ ..Ehrrm that I am not talking about!

# Data: Challenges / Opportunities

“ *How will it be used? Who will be able to access it?  
How do you protect the vulnerable individuals  
unaware of vulnerability* ”

“ *Being able to use information to benefit the  
individual; Allow the people who have the  
information to understand it; Support / reflect* ”

# Bringing balance to everyday life

Life isn't easy. Some days are good. Some days are bad. Some are just fine. We understand this. Our team created this simple tool to help you focus on where you're at and bring back the balance.



# #2 TECHNOLOGY KITCHEN

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## Make Your Own Anxiety Sensing device

1. SENSORS (small 3DP pieces)
2. DATA (BIG 3DP pieces)
3. MATERIALS (Play-doh)
4. CONNECTORS (Pipe Cleaners)



# It's a BAKE-OFF

MAKE  
&  
BREAK!

# MAKE

**THINK** about practical examples of how you see anxiety manifest (e.g. you/others getting agitated, silent, etc.), its triggers (e.g. light, sounds, behaviours), coping mechanism, potential dangers, reactions...

## MAKE {your system Name} with

- **Data:** what information could be captured as 'data' in (e.g. room temperature, noise, smells, heart-beats) / what data could be sent out (open text, sounds)... from/to what, whom, how, where?
- **Sensors:** what type of sensors would you need to capture such data?
- **Materials:** what type of material would you use, what property? Squidgy, hard, brittle? What could it be made of? What shape? How /where could it be made? Recycled or disposed?
- **Infrastructure:** how the data gets in and out the system, does it need mobile phones, internet? Where do data is stored, shared and capture?

# EXPLAIN / BREAK

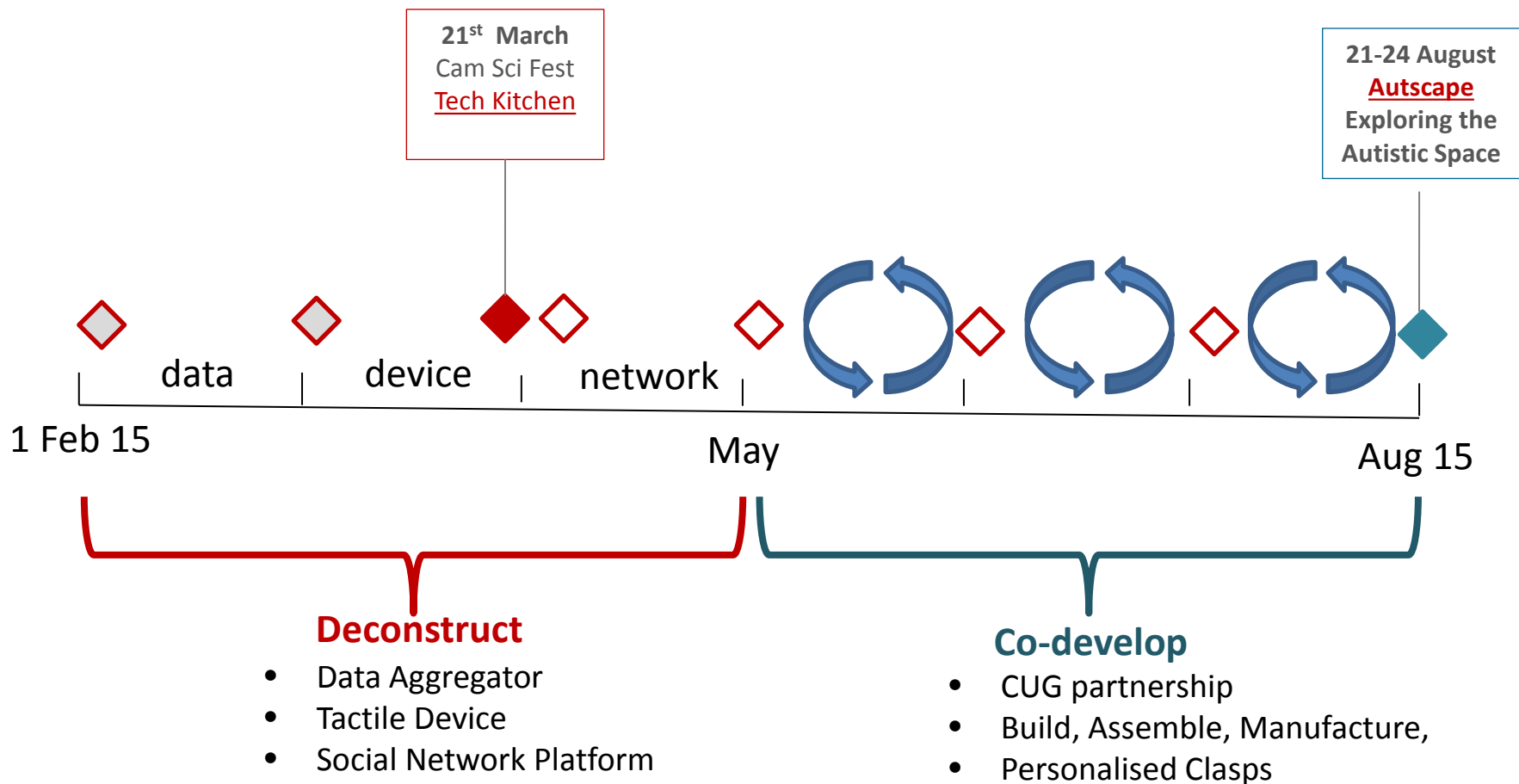
## IN PAIRS:

- Explain what your system is / does / who is for

## ALL

- ‘Sell’ to the group what your partner has just made
- Critique your own system: what could go wrong?

# Roadmap Dates (First 6 months)



# Science Festival

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## Technology Kitchen

[www.sciencefestival.cam.ac.uk](http://www.sciencefestival.cam.ac.uk)[2015 Festival](#)[Events listing](#)[Event updates](#)[Schools](#)[News](#)[Get involved](#)[Sponsors](#)[About](#)

**Saturday 21 March: 11:00am - 3:30pm**

**Department of Materials Science and Metallurgy, 27 Charles Babbage Road, CB3 0FS**

Raspberry pies, Java beans, and Ada fruits: what if we could make technologies that are safe enough to eat? Interested in baking technologies for real? Then join our cooking crew! We will bring a kit jam-packed with bespoke tools and ingredients: do bring your imagination, help us to combine shapes, mix materials, and come up with new recipes. Let's start a technology revolution in the kitchen

**Image copyright:** University of Lancaster

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Booking Information

**No need to book.**

Accessibility

**Full access**

Additional Information

**Age: All ages, Hands-on, Drop in, free**

Map



# Reference Points

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**Cambridge Science Festival - 21 Mar**

<http://www.sciencefestival.cam.ac.uk/events/technology-kitchen>

**Autescape – 21-24 Aug**

<http://www.autescape.org/>

**In Hands**

<http://www.inhand.org.uk/>

**Pip**

<https://thepip.com/>

**Insight Kit Bag**

<http://insight.mdx.ac.uk/blog/category/insight/>