

AGENDA

Thursday, July 18th

1. Introduction
2. VIRT-EU's goals
3. Simulation
4. PESIA framework
5. Simulation continues
6. Discussion

Introduction: Ethics in VIRTEU

PART ONE:
TALKING TOGETHER ABOUT ETHICS

Ethics in Practice



PART ONE:
TALKING TOGETHER ABOUT ETHICS

News > World > Americas

Amazon Echo could become key witness in murder investigation after data turned over to police

ethics comes up

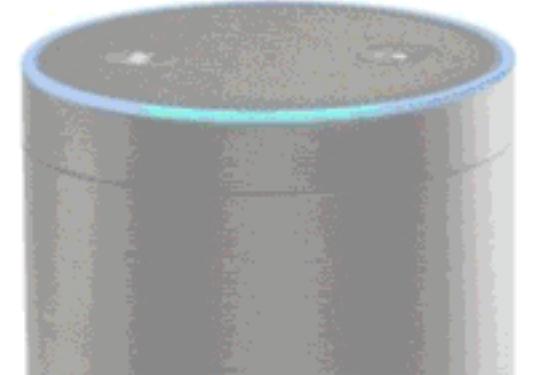
Man on trial for murder has agreed to turn over audio data from his smart home device

Mythili Sampathkumar New York | @MythiliSk | Thursday 9 March 2017 17:48 GMT | 0 comments



when things go down

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The Independent



PART ONE:
TALKING TOGETHER ABOUT ETHICS

Who is responsible for ensuring
connected devices we allow into
our lives behave ethically?





Conceptual Framings

1. Definitions of ethics – from philosophical literature in virtue ethics tradition
2. Problems and limitations of virtue ethics (individual focus, incapacity to determine where ‘good’ comes from)
3. Expansion in relation to concepts of capability (Sen) and care (Puig de la Bellacasa)

Beyond Virtue

Individual's
attempt to live
a "good life"

The ability to act,
given the structural
opportunities and
constraint

Shifting
responsibilities
and obligations in
a web of relations



Do-ers, Postponers, and the convenient ethics researchers

Ethics is understood differently by those interested in building ethical companies from the outset, and those that see ethics as compliance with a regulatory framework.

When making a seemingly technical decision as whether to add a camera and a microphone to a device which might not necessarily need it, they consider not only their own subjective positions, but they also extend a matter of care to the networks they are part of, their potential users as well as the future generations that might be affected by them.

“Unfortunately, ethics never makes it into my ever-growing to-do list. Maybe one day, I will have time for it. But not at the moment, not when I am just starting my company”

“After all” he said, “Google has all the resources, time and money to make sure everything is in order. I neither have the time, nor the money.”

Testing Ethical concepts

How are ideas about ‘goodness’ or
‘good practice communicated?

Which ideas hold tensions?

What are the challenges of
putting ethical ideas into
practice?

What are gaps between positions
expressed by developers and those
of other stakeholders?

AMS Stakeholder Workshop

PART TWO:
VIRTEU : TOWARDS TOOLS

VIRTEU



AMS Stakeholder Workshop

-> tools



“ethics starts where the law ends”

“you can’t just go to ethics camp”

AMS Stakeholder Workshop

*From the Ethical Tools Report

	A	B	C	D	E	F	G	H	I	J	K	
1	*From	Who ac	(Who is Author		Title	Year	Price	Type	Link	Internal comment	Description: this is wh	
2	AB	FUS	StudioDott collab w	IOT Ideation Car		2016	\$149	Toolkit / Cards	http://studiodott.t	The cards are designed with compl	These cards are crea	
3	AB	AB	StudioDott collab w	IOT Service Kit		2015	open-source	Toolkit / Cards	http://iotservicekit.com/		The IoT Service Kit is	
4	AB	AB	Simone Mora	Tiles Toolkit		2018	cards are free. facilitated workshop = ?. prototyping sticker	Toolkit / Cards	http://tilestoolkit.io/		Learn and invent for t	
5	AB	AB	MIT	Moral Machine		2016	n/a	Website	http://moralmach	The design your own scenario is ne	Give your human opini	
6	AB	FUS	Vi Hart + Nicky Case	Parable of the Po		2014	free	Game	http://www.game	Interesting tool for visualising diver	Game about visualisi	
7	AB	FUS	Simply Secure	Trustworthy IOT		2016	free	Worksheets	https://github.com	I found this tool really individualistic	Work with a list of wo	
8	AB	FUS	Mixed Reality Labo	Horizon Digital Eco	The University of N							
			Microsoft Research	Privacy Ideation		2016	n/a	Cards	https://www.notti	Not clear how the cards can be obt	Learn how to apply p	
9	AB/IS	JR	Maheen Sohail	Practice Ethical D		2017	free	Framework	https://medium.muz.li/how-to-practice-ethical-design		Value alignment incor	
10	AB/IS	IS	Dorian Peters & Ra	Tools for Positive		2014-2017???	free	Reference sheet, worksh	http://www.positi	It is not clear when these were des	Cards are used for br	
11	AB	IS	Cloud Security Allia	Futureproofing th		2016	free	Steps	https://download	A 76-page door stopper over here i	Includes step-by-step	
12	*	AB	IS	Markkula Center fo	Making a Difficult		2015	free	Web app/Mobile app	https://www.scu.edu/ethics-app/		Bring a decision you :
13	*	AB	Trend Micro	Data Center Attack				Web - video - CYOA	http://datacenterattacks.trendmicro.com/			
14	AB		Data Privacy Projec	Mapping Data Flows				mapping and discussion p	https://dataprivacyproject.org/			
15	AB	FUS	Artefact Group	Tarot Cards of Tech				cards	http://tarotcardso	Really nice self-reflection cards for	Gaze into the future c	
16	AB		Andrew Lovett-Barri	Decay of Digital "Thi				Online cards	http://cards.deca	help brainstorm scenarios / projects		
17	AB		Humane By Design	Principles				Posters	https://humaneby	Tangentially relevant		
18	AB		List of tools	List of tools				List of tools	https://ethical.net	Not many here for now		
19	AB		Amber Case	Calm Scorecard				Q+A	https://medium.c	Tangentially relevant		
20	AB		Projecto Bu	New Digital Right				Digital mockups	https://newdigital	Tangentially relevant		

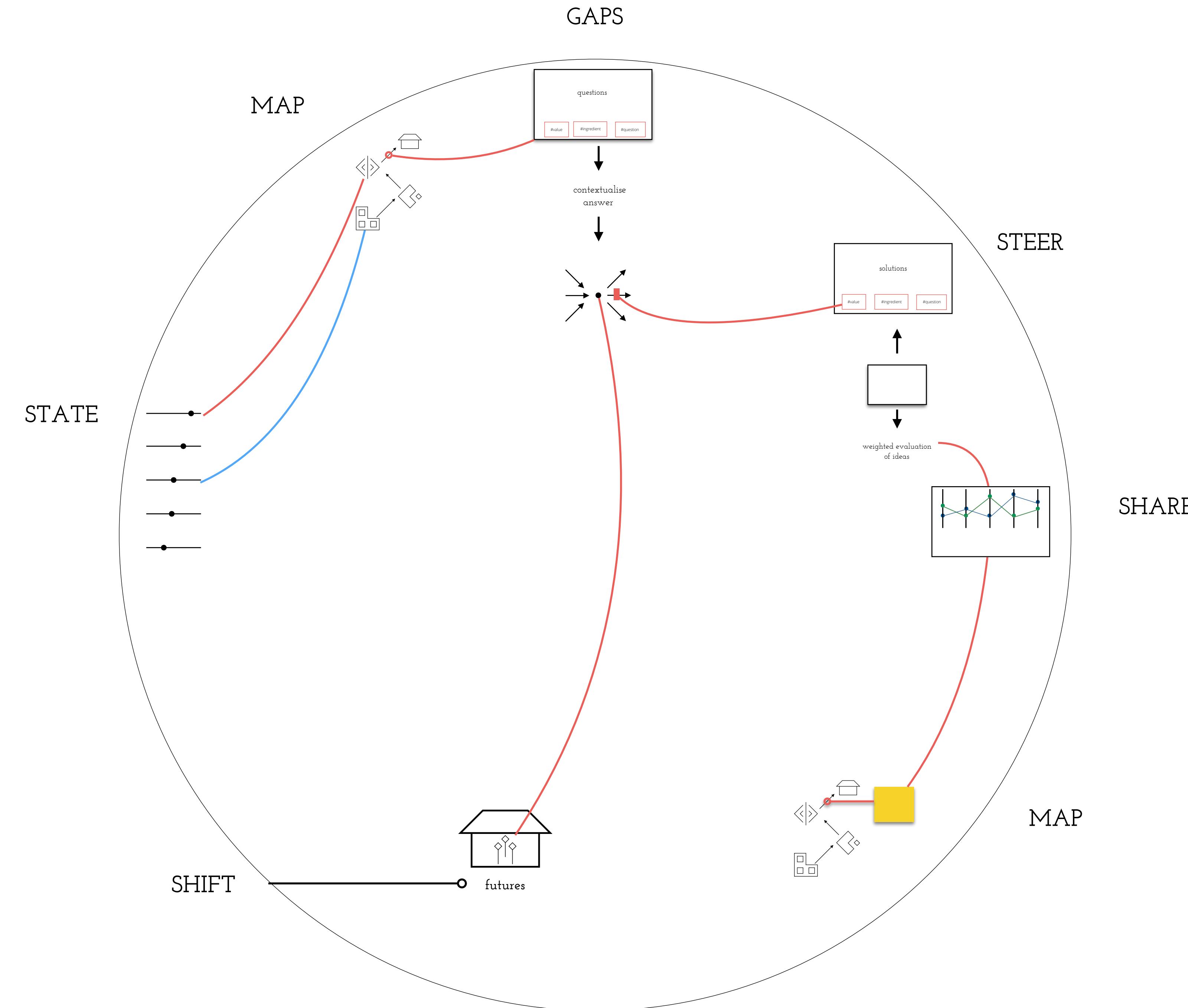
-> tools

Advisory Board Meeting

Tools as a System

COPENHAGEN
INSTITUTE
OF
INFORMATION
DESIGN

virit.eu CID



Part Two: Hands On

PART TWO:
TOOLS

Activity!

PART TWO:
TOOLS

We are working on a product at
our start-up.

PART TWO:
TOOLS



OldLifeWell

OldLifeWell has developed a smart bracelet that helps people with dementia (or other kinds of memory loss problems) to keep track of their daily routine tasks.

OldLifeWell's product was used to gain information from individuals with dementia on their wealth, and where and how they keep it. With the tracking capabilities of OldLifeWell's product, a number of individuals with dementia have been kidnapped and such information has been taken from them. But since they do not have memories of it, their families become aware only when the money has left their bank accounts.

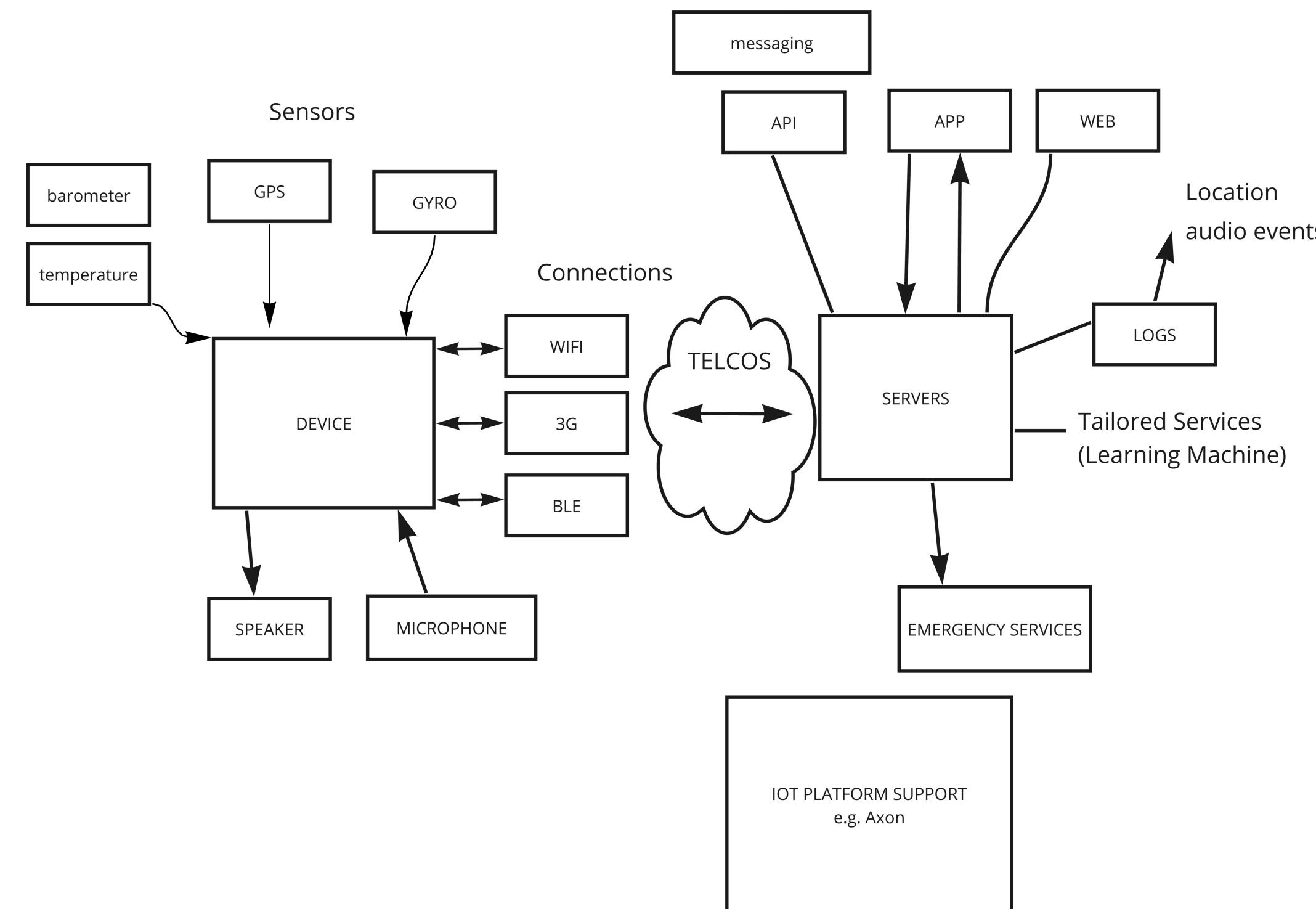
OldLifeWell's product is being promoted by political parties because it will enable people with dementia and other types of memory loss to be able to vote in the general elections. They have even come up with push notifications specific for the product that reiterates their campaign title and the name of their political party. Since the push notifications work around the daily routines of people with dementia, their uptake is high, and the users become familiar with the campaign and political parties.

PART TWO:
TOOLS

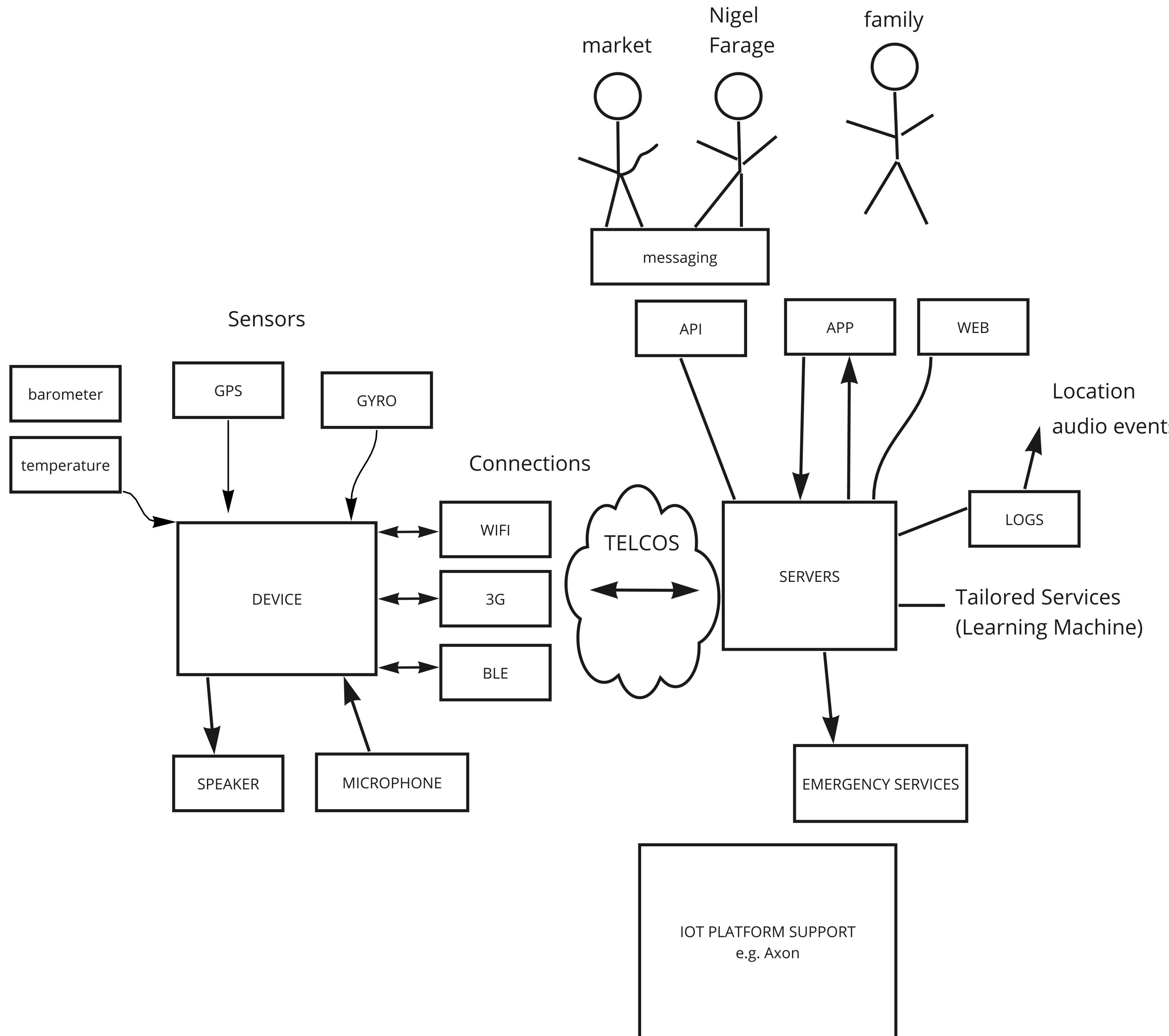
We are working on a product at our start-up.

1. Get to know the diagram of the elements of your respective products.
2. Now add any relations (users + makers). Who is related (using, impacted, connected to) to each element in your product?

PART TWO:
TOOLS



- Reminders, routine, medicine, etc.
- Direct voice
- Automatic alarm if outside zone (geo-fencing)
- Real-time tracking app
- Heart rate
- Sudden movement (falls)
- Activity (possible death)
- Subscription for extra services
- Audio record loud noise



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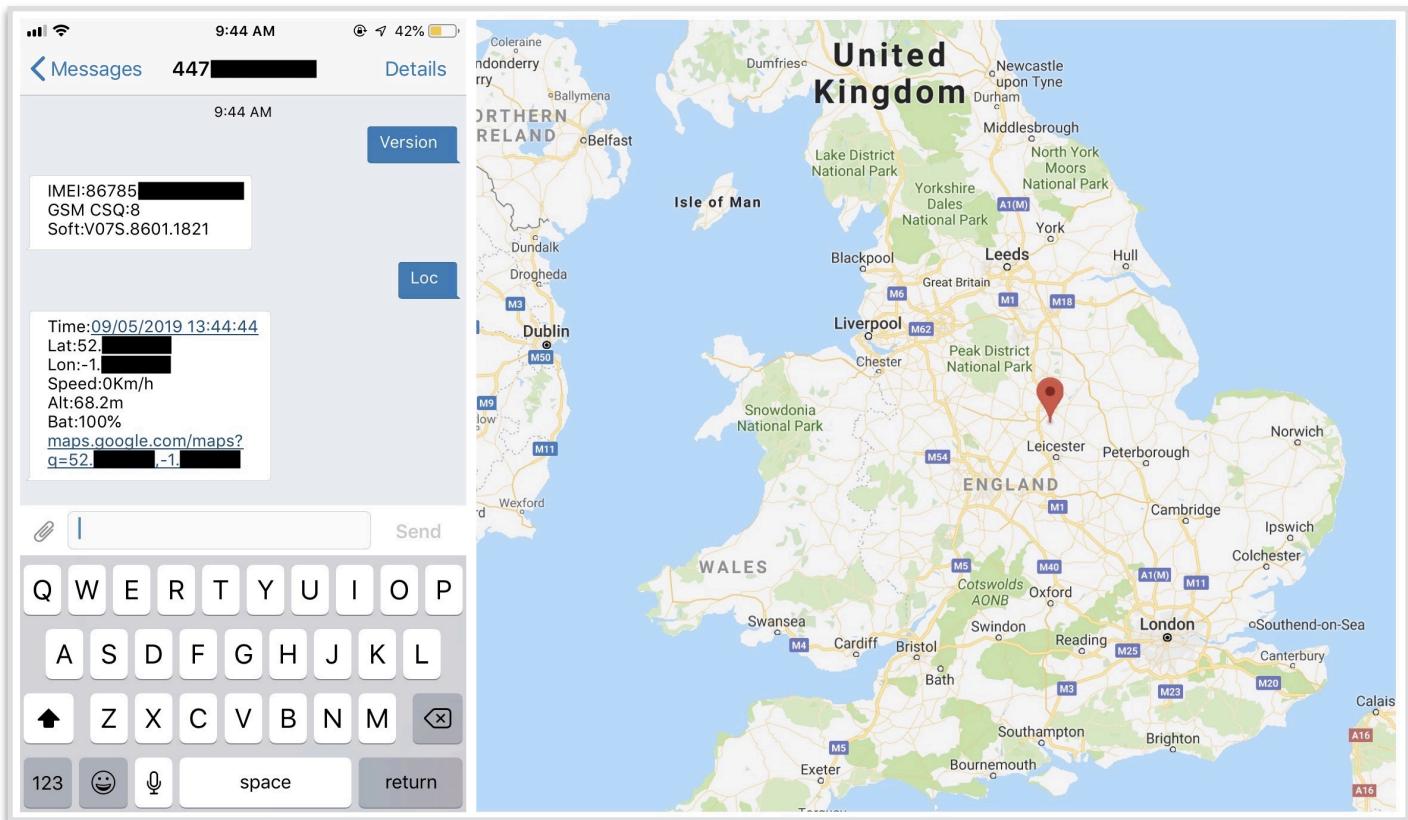
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AMS Stakeholder Workshop

PART TWO: TOOLS



Flaws in a popular GPS tracker leak real-time locations and can remotely activate its microphone

Zack Whittaker @zackwhittaker 2 weeks ago

Comment

Flaws in a popular GPS tracker leak real-time locations and can remotely activate its microphone

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Comment

Google search results for "i need money to pay rent":

- Bad Credit Loans** www.speedloanusa.com/ Ad
- 2-Minute Payday Loans - \$100-\$1000 Approved in 2 Minutes** www.QuickerCash.com Ad
- Fast Cash \$500-\$5,000** www.oneclickloan.com Ad
- Fast 2-Min Payday Loans - Payday Loans Approved Instantly!** www.FlashPayday.com Ad

Bing search results for "need loan fast":

- Philadelphia, PA** Payday loan ads. Upturn, CC BY
- OneClickLoan.com** Ad
- Instant Approval. Bad Credit OK. Get Cash In A Click Up To \$5,000.**
- FlashPayday.com** Ad
- Payday Loans Approved Instantly! Deposited Straight in Your Bank.**

But targeted advertising based on our smartphone data can have real impacts on livelihoods and well-being, beyond influencing purchasing habits. For example, people in financial difficulty might be targeted for ads for payday loans. They might use these loans to pay for unexpected expenses, such as medical bills, car maintenance or court fees, but could also rely on them for recurring living costs such as rent and utility bills. People in financially vulnerable situations can then become trapped in spiralling debt as they struggle to repay loans due to the high cost of credit.

Growth business: GPS tracking... the elderly

PUBLISHED WED, MAR 12 2014 - 6:20 AM EDT | UPDATED WED, MAR 12 2014 - 6:28 AM EDT

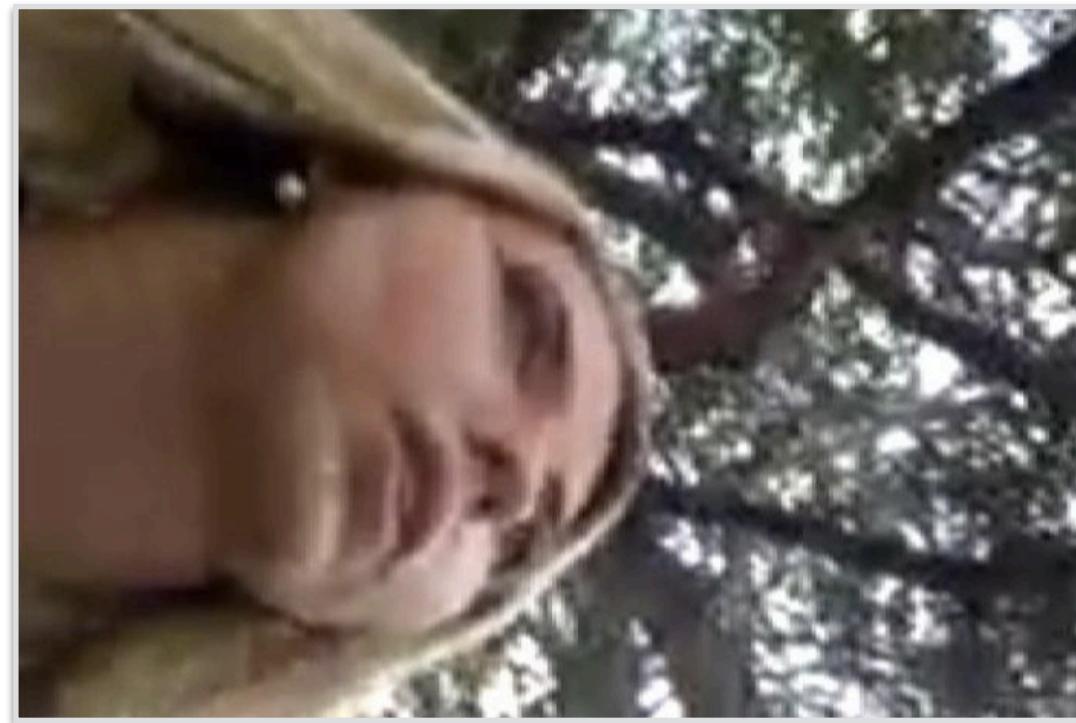
Katrina Bishop @KATRINABISHOP

SHARE f t in e ...

When Marc Regimbal lost his three-year-old child for 20 minutes – in what he called the “hairiest experience” of his life – he was determined to make sure it would never happen again.

He spent the next four years combining global positioning system (GPS) and cell-phone technologies to make a tracker – called Childtrac – that could be easily attached to a child’s clothing or backpack. Parents can set virtual boundaries and locate their children on their smartphones.

Just one year on from the launch of the product, however, and Regimbal said he is seeing growing demand from an unexpected demographic.



virt.eu

PART TWO:
TOOLS

We are working on a product at our start-up.

1. Get to know the diagram of the elements of your respective products.
2. Now add any relations (users + makers). Who is related (using, impacted, connected to) to each element in your product?
3. But before we continue: let's have a check-in: what do we want to make sure OldLifeWell stands for? We're just about to hire a new person and we want to make sure she knows what our moral principles are here

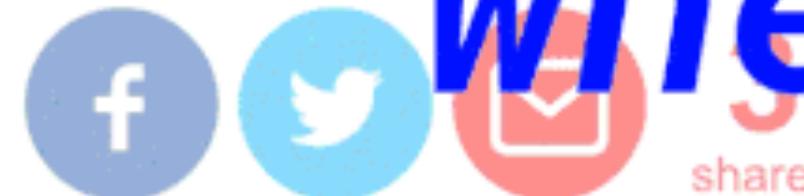
*Let's start with the best of intentions. What
is your North Star for your product?
What are the underlying values you will
hold on to, no matter what?*

News › World › Americas

Amazon Echo could become key witness in murder investigation after data turned over to police **ethics comes up**

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when things go down



INDIVIDUALLY

1. Write values from this list
2. Then prioritise them

*Ethics is defined not only by individuals
but also as part of a wider group.*

*These ethical values have been identified
as the outstanding ideas of ethics in the
community of IoT creators.*

sustainability

transparency

data protection

interoperability

non-discrimination

security

responsibility

autonomy

well-being

privacy

inclusion

dignity

openness

~~INDIVIDUALLY~~

1. ~~Write values from this list~~
2. ~~Then prioritise them~~

AS A GROUP

3. share and compare
4. discuss definitions + priorities
5. find agreement on priorities
6. give each value a weight to show priorities
7. write communal definitions

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7. ~~write communal definitions~~

COMMIT

- processing -

PART TWO:
ENGAGING WITH PESIA

-> questions from PESIA

Will the bracelet reduce individuals ability to make their own decisions about the best route or pace?

Will the tool include some form of remote control?

If any limitations to user control exist, do they happen in contexts characterised by power asymmetries (e.g. workplace)?

PART THREE:
UNDERSTANDING PESIA

PESIA:

An overview

- **Project outputs:**

- *a toolkit to describe systems, elicit values, analyse and find problems, solve them if possible*
- **PESIA**

*Impact assessment tool in **questionnaire** form*

1. *Identify risks*
2. *Implement mitigation*

PART THREE:
UNDERSTANDING PESIA

- **Where does PESIA come from?**

- Strong legal research Politecnico di Torino and ethnography from LSE
- Value analysis in jurisprudence and opinions from privacy regulators
- Follow best practice PIA and DPIA models but add social and ethics

PART THREE:
UNDERSTANDING PESIA

Understanding your system
and establishing compliance

Data mapping and basic legal compliance

(Start with mapping hardware, software and wider system)

- What information is collected?
- Special data
- What do you do want to achieve with the information?
- Where does the information come from?
- What authorisation or rationale do you have to use that information?
- What information do you provide?
- How do you handle consent?
- Where does the data go?
- If the hardware is finished and going to market, do we comply with RED and other relevant regulation?

Identifying issues and risks

Technology, Activities and High Risk

- **Technology**

Are new technologies used which might be perceived as being privacy intrusive (e.g. facial recognition, use of biometrics)?

- **Automation & Profiling**

Does the technology allow (full or partial) automated-decisions to be taken with regard to the data subjects?

Does the technology allow for human intervention in the decision process?

- **Scale & Breadth**

Does the technology allow the collected data to be easily matched or combined with other data sets?

Does the technology allow to observe, monitor or control data subjects in a systematic way?

- **Context & Space**

Does the technology allow the collection of personal data in contexts that are private?

- **Other risks**

Wider impacts in society

Responsibility

- Will there be a way to challenge any decisions made by the system?
- Will there be clear lines of responsibility for any outcomes, particularly between the developers of the tools and the operators to ensure that any issues are always dealt with?

Sustainability

- Are the devices reusable? How will they be disposed of otherwise?
- Will the servers providing remote functionalities keep functioning for the lifetime of the product?

Openness

- Will the device allow for third party add-ons or user re-programming?

Employment

How do you treat users and people whose data you use (Care ethics)

- **Participation and transparency**
 - *How do you consult with users and others?*
- **How well do you support user rights**
 - *Are there adequate measures or procedures which ensure the reply to every request of data subjects?*
- **Data Portability**
- **Dignity**
 - *Does the IoT device need to be implanted into the user's body?*
- **Non-discrimination**
 - *Will the system take into account any particular characteristics of the users when making any determination, such as age, gender or disability?*
- **Autonomy**
 - *Will the device reduce individuals ability to make their own decisions?*

Challenges:

- Identifying risks and issues in the technology is OK: expand analysis from individuals to the wider community and society harder
- Consultation, participation and external input (integrate in external design and product design methodologies)
- The “treating people” section, where individual data protection rights overlap with ethical values of participation, dignity, autonomy, etc.
- Incorporating other tools: STRIDE, UK Code of IoT Security, etc..
- Pushing people to speculate beyond their comfort zone.

The ethics puzzle

SOCIAL AND ETHICAL VALUES

Non-discrimination
Equality

Participation

Enabling people to effect real change

well-being

Increase individuals' well-being and fostering "IoT for good".

dignity

Avoiding any forms of surveillance or invasive control over individuals using IoT devices. IoT devices shall not be used to collect unauthorised private information or to publicly disclose private facts.

inclusion

Considering diversity and inclusion both in IoT development and with regard to users' experience.

autonomy

Safeguarding individual self-determination and freedom of expression.

safety

Protecting users against any harm due to IoT devices (hardware and software security). Updatability of devices for security.

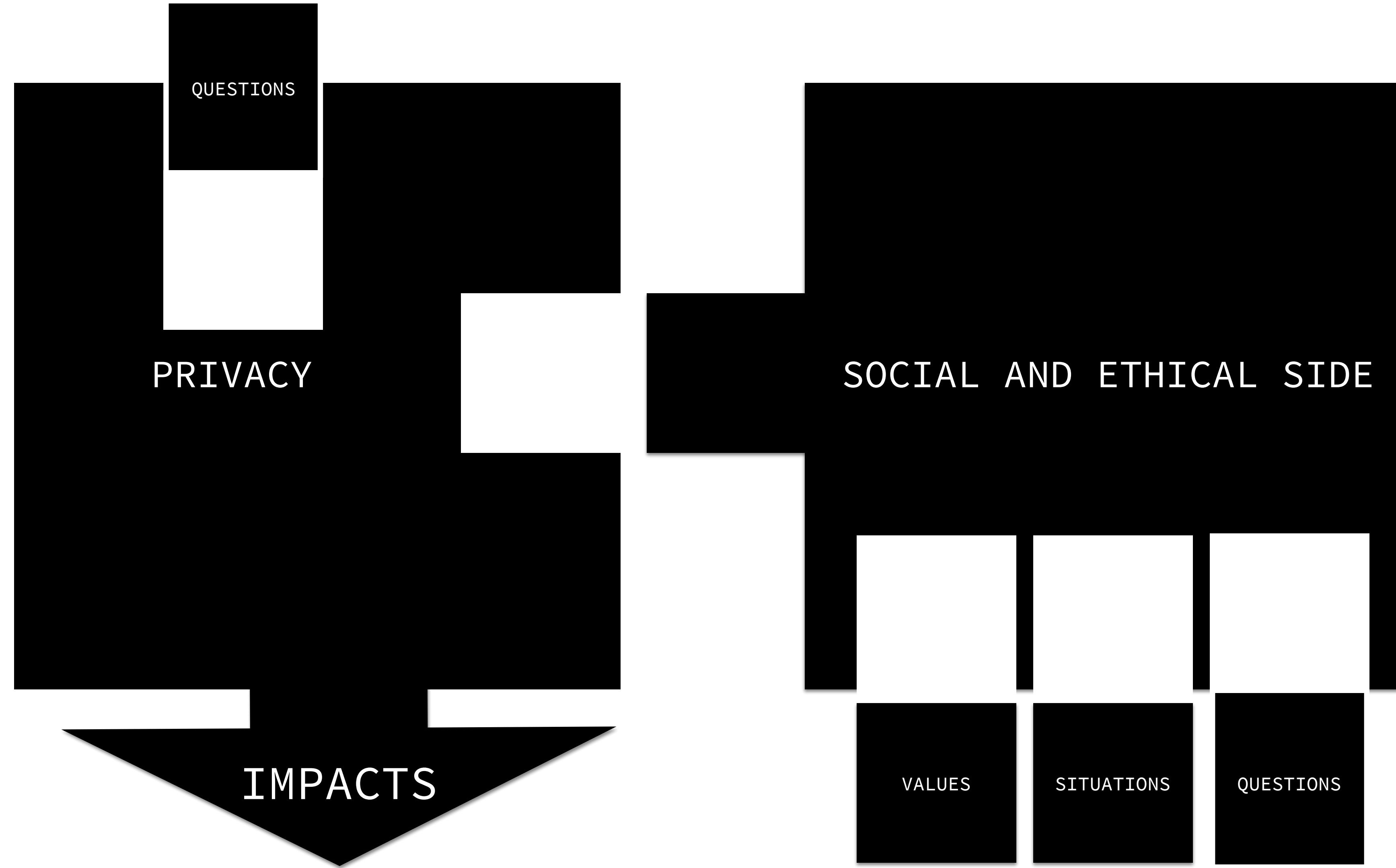
openness

Promoting open hardware and software with open source code.

Sustainability

Social and environmental justice

THE PUZZLE



PART THREE:
UNDERSTANDING PESIA

Managing risks

PART THREE:
UNDERSTANDING PESIA

	<u>Consequence</u>  <u>Likelihood</u> 	Insignificant	Minor	Moderate	Major	Critical
Almost certain	Medium	Medium	High	Extreme	Extreme	
Likely	Low	Medium	High	High	Extreme	
Possible	Low	Medium	High	High	Extreme	
Unlikely	Low	Low	Medium	Medium	High	
Rare	Low	Low	Low	Low	Low	Medium

How do you handle data accurately and securely

- **Technical measures**

Are there procedures or mechanisms to create backups?

If information is converted in anonymous information, are there procedures which ensure the irreversibility of the process and the impossibility to re-identify data subjects?

- **Policies**

Is there a data breach management action plan in place?

Is there a records management policy in place which includes a retention and destruction schedule?

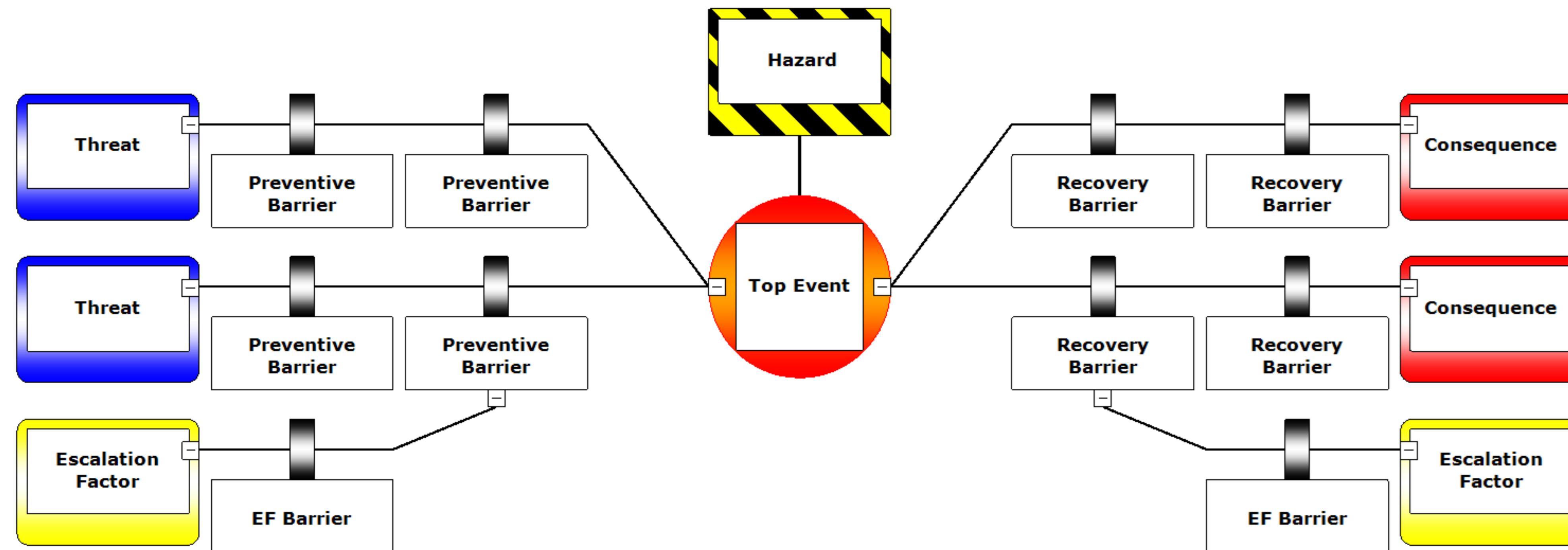
- **Organisational measures**

Is there an access register to the IT systems containing personal data?

- **Data processors**

- **Staff**

PART THREE:
UNDERSTANDING PESIA



PART FOUR:
TOOLS AGAIN

[MORE TOOLS]

“ancillary” tools to support ethical
reflection and self-assessment

Tools

STATE

MAP

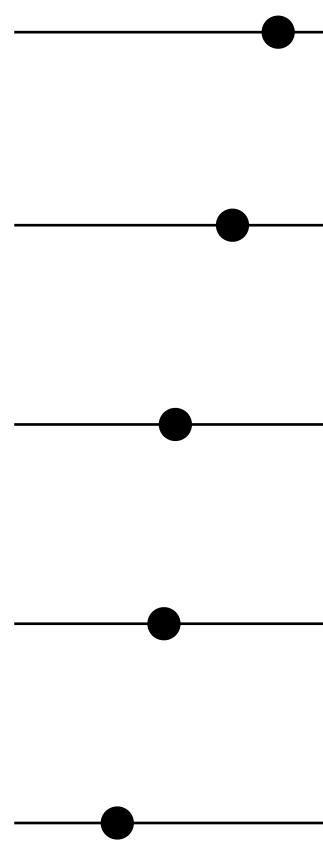
GAPS

STEER

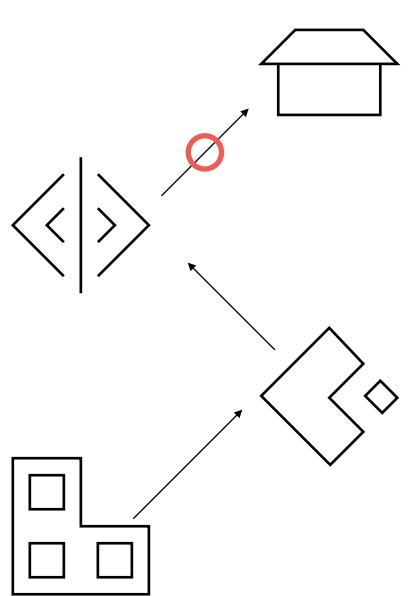
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Tools

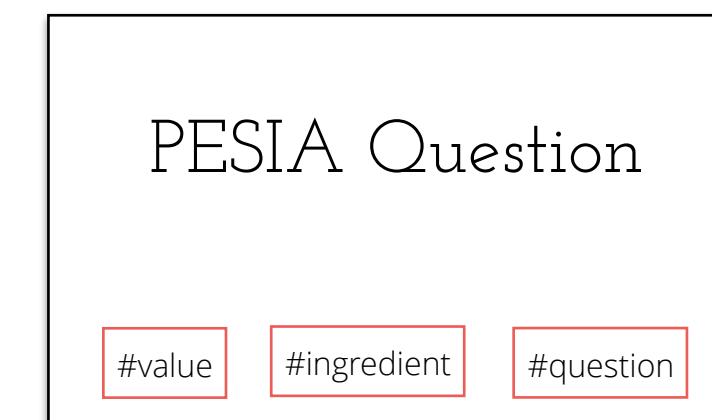
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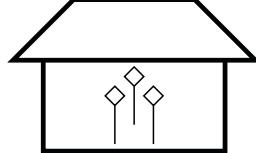
MAP



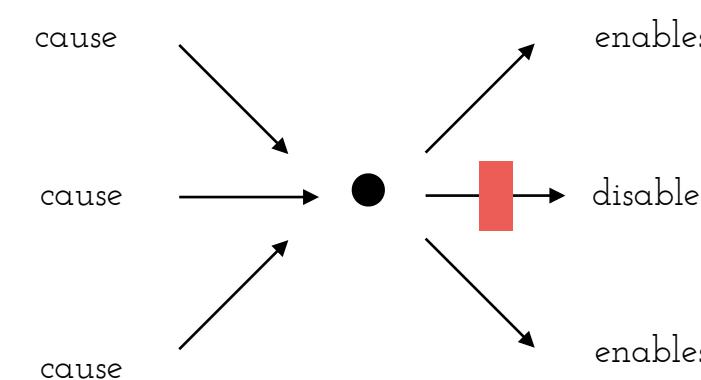
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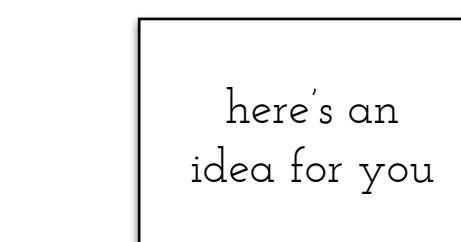
contextualise answer
through scenario



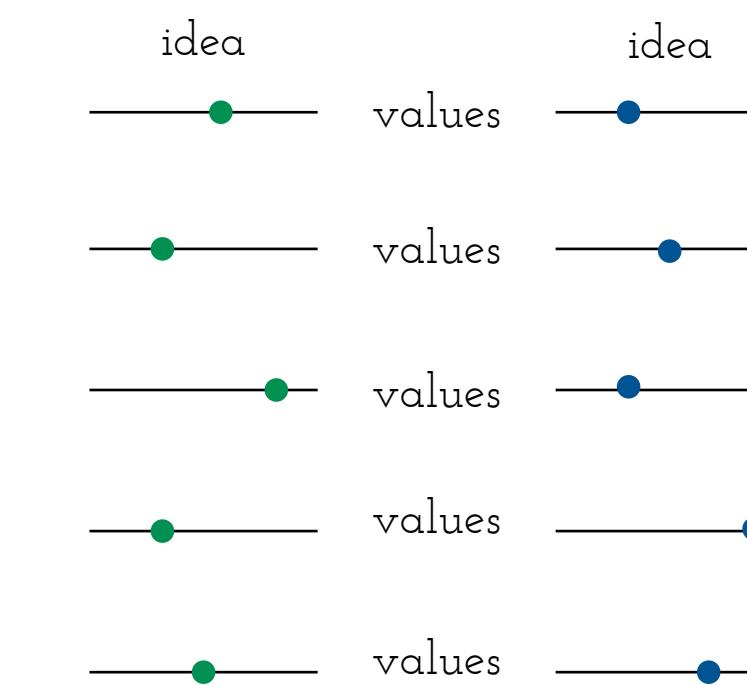
understand impacts



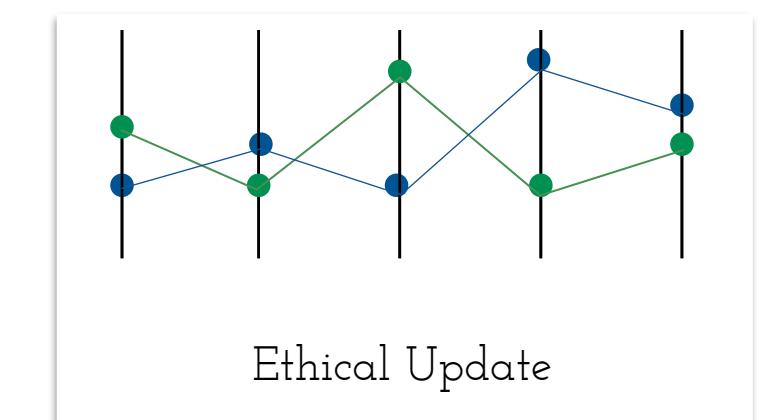
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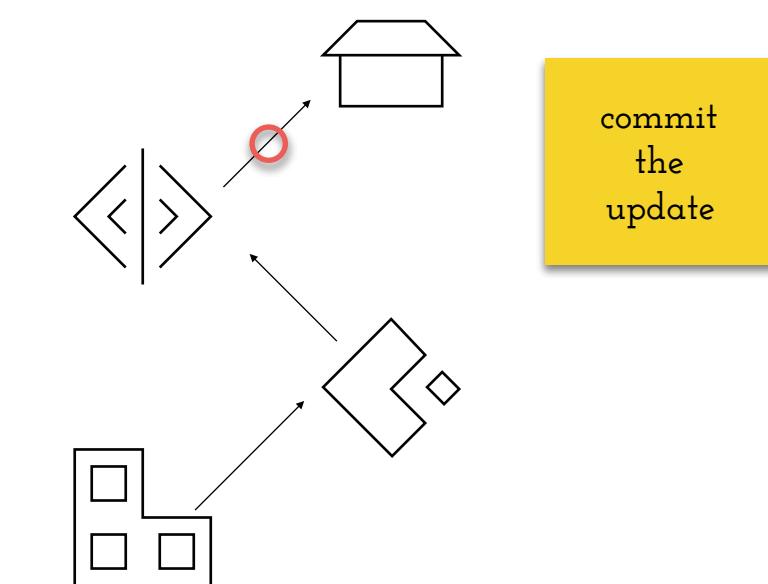
weighted evaluation
of ideas



SHARE

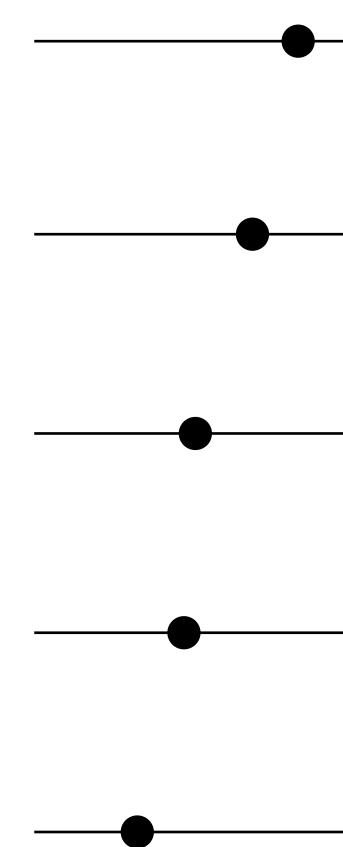


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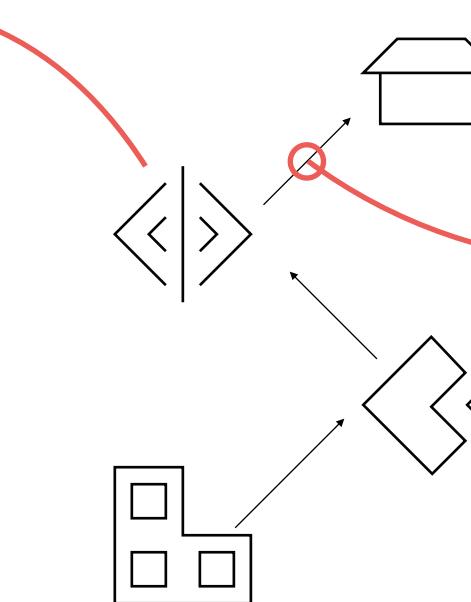


Tools

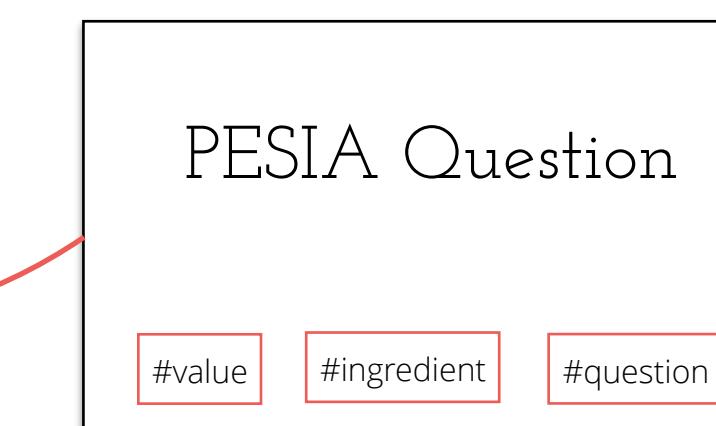
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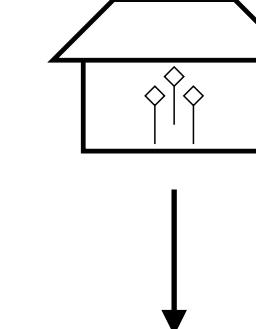
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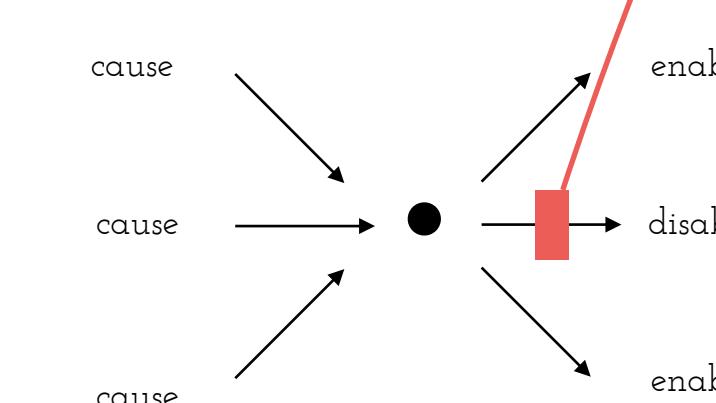
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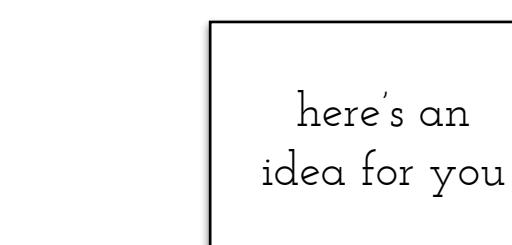
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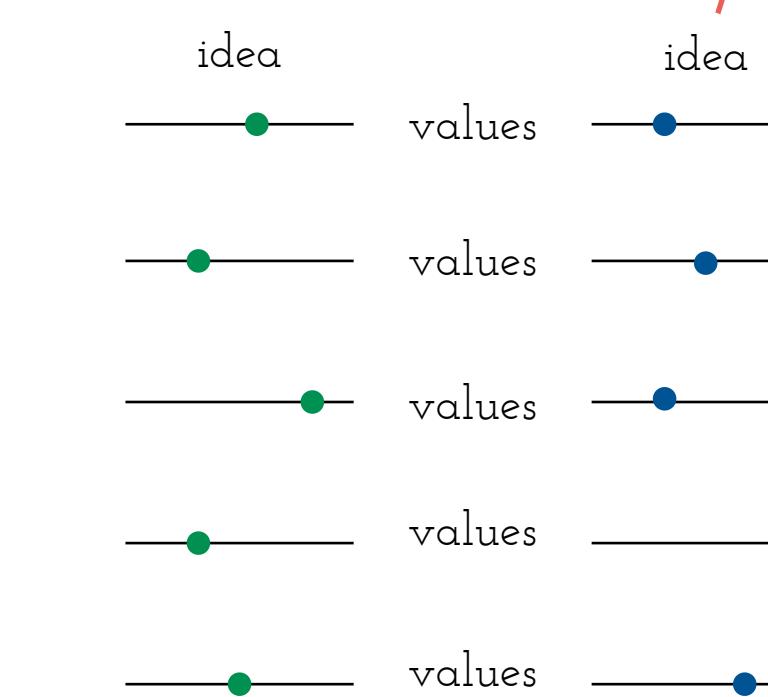
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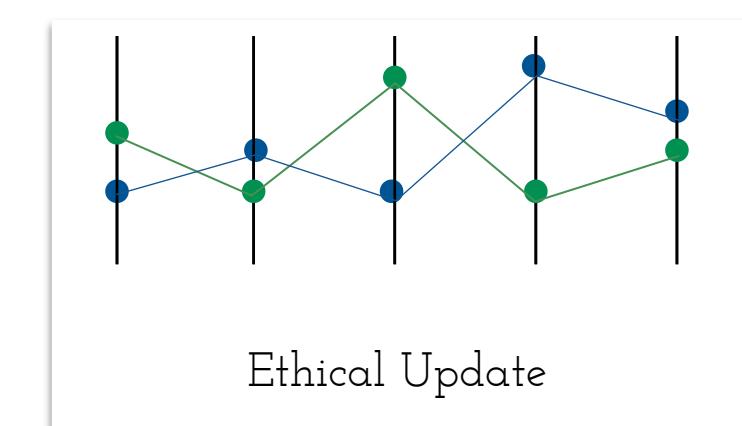
STEER



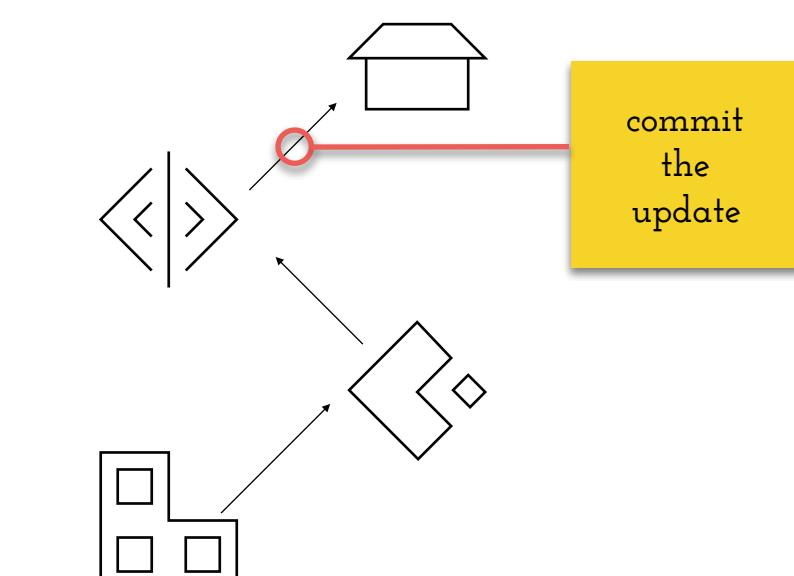
weighted evaluation
of ideas



SHARE



MAP



Data

Moving Manifesto
Values
Numerically weighted

Technical diagram - Blueprint
Technical ingredients
Users
Context
Employees

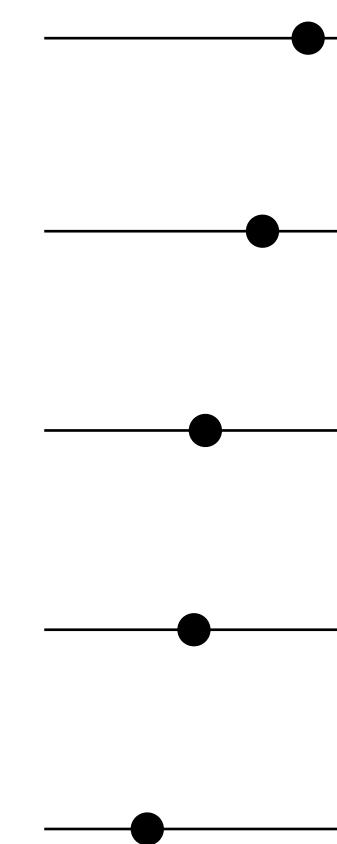
PESIA database
Values, questions
Materials, values, questions

Solutions library
Solutions from VIRTEU group and
community tagged with PESIA question /
ingredient from map / value

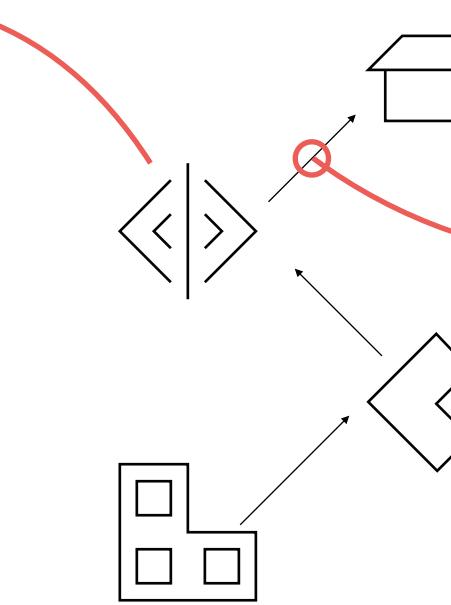
Ethics Log
Updates you have made to your
company and / or product because of
the realisations

Tools

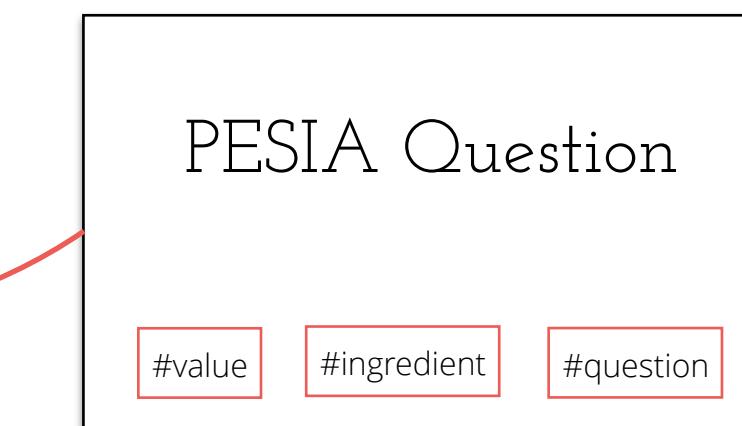
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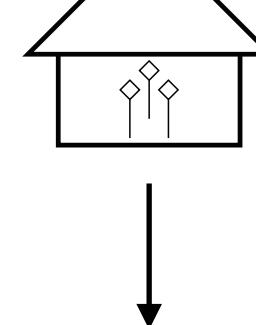
MAP



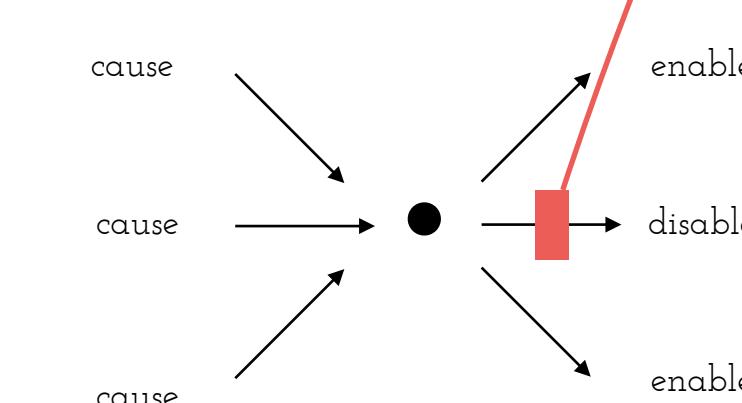
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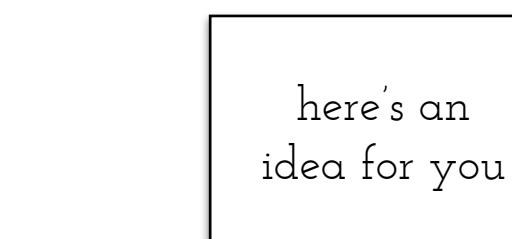
contextualise answer
through scenario



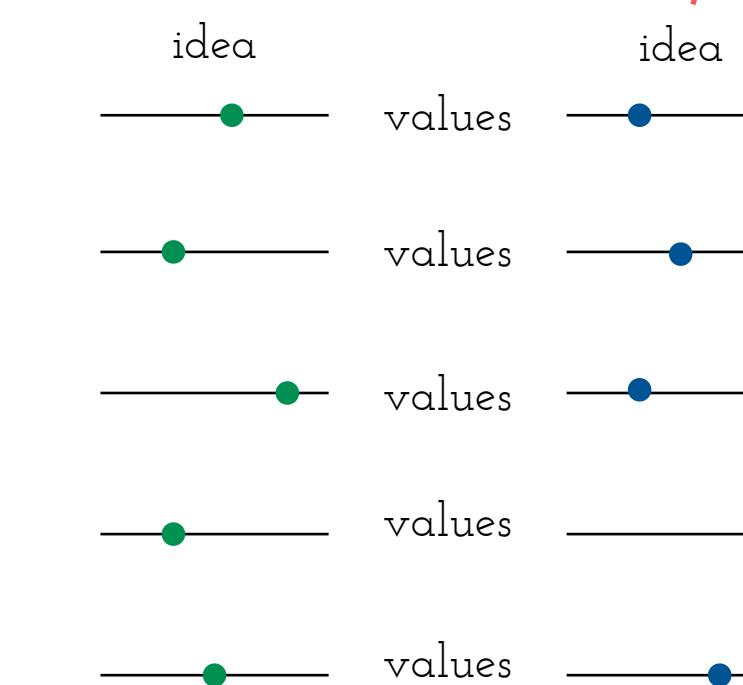
understand impacts



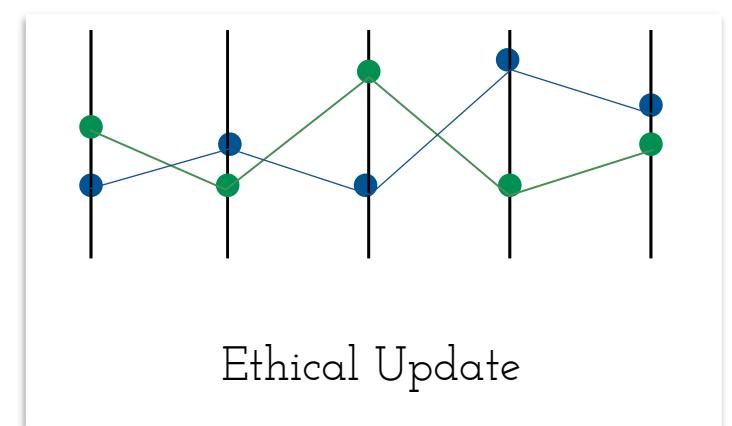
STEER



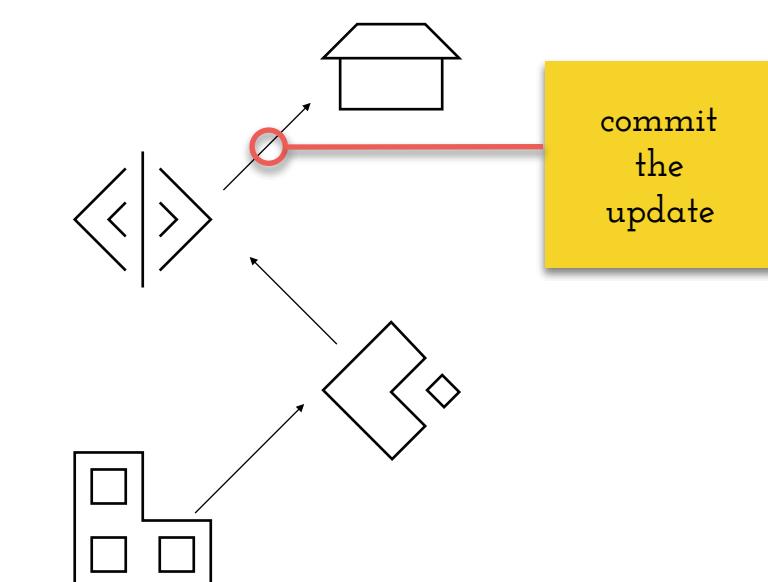
weighted evaluation
of ideas

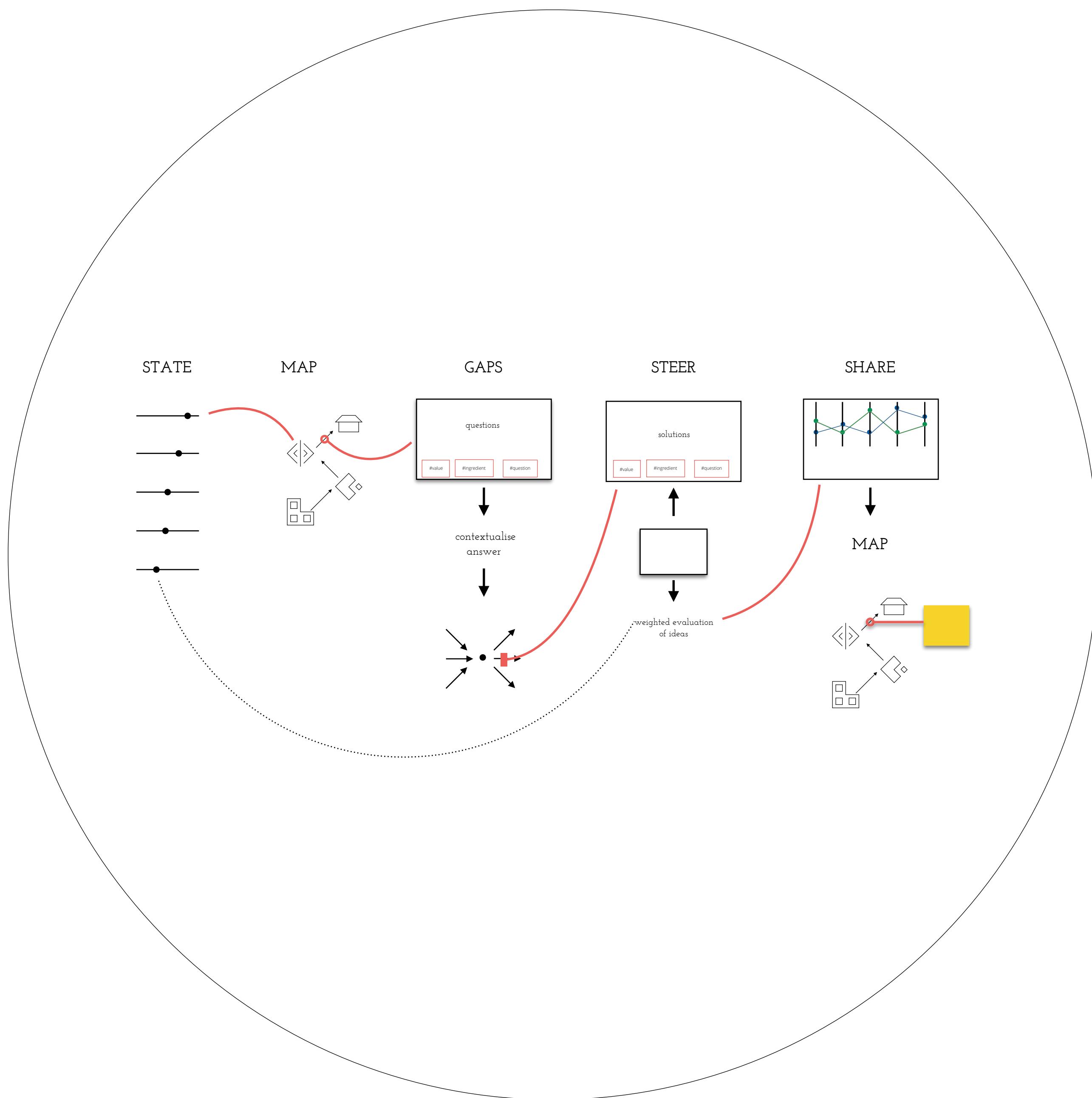


SHARE



MAP





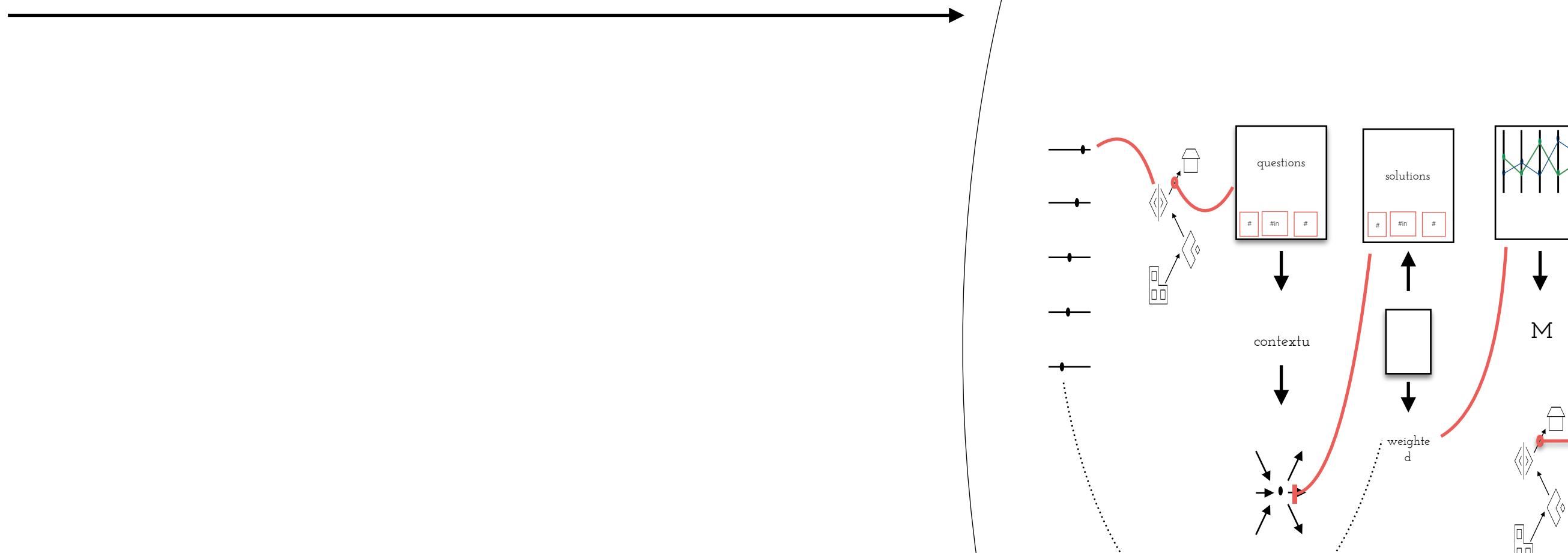
Data

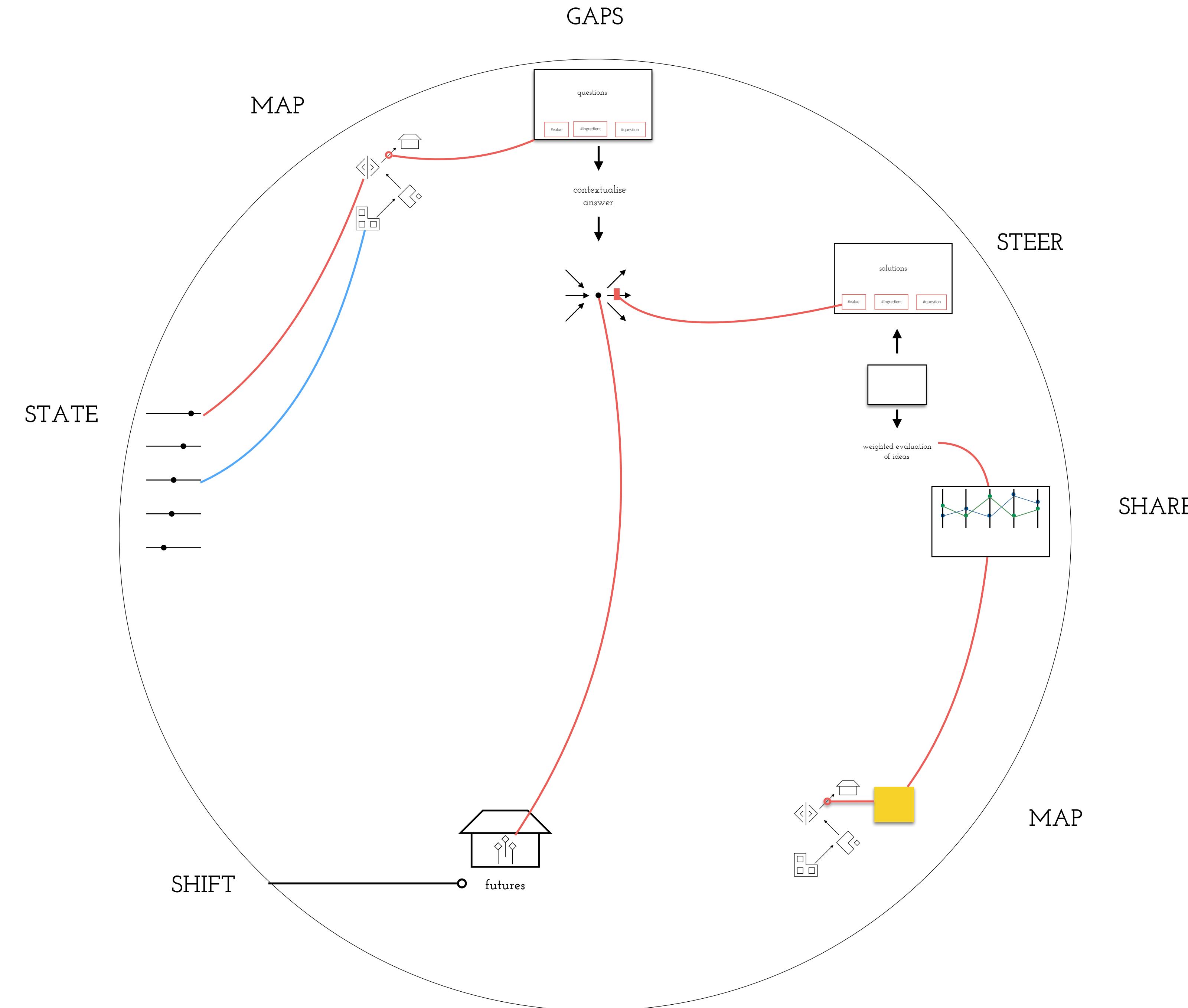
Users identified
Context
Relevant speculations database
IOT trends
IOT Type trends

Tools

SHIFT

speculate beyond the visible issues

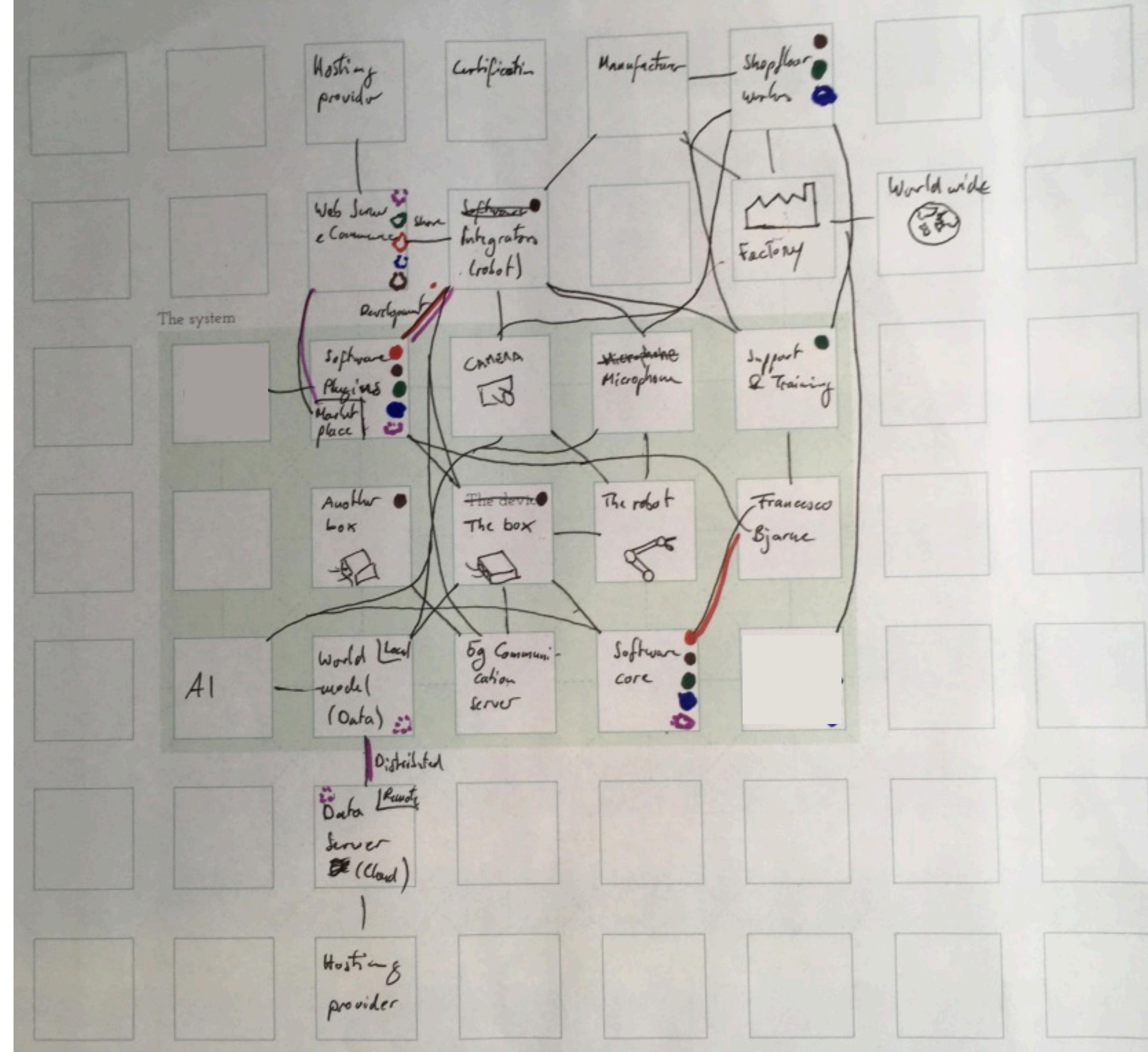




AMS Stakeholder Workshop

-TESTING-





My values

2. Interoperability

1. Ease of use / Empowerment

3. Safety and Security

4. Data protection

5. Accountability

Shortlist

From the list of values please pick up to five to create your own list

My values

1. Responsibility

2. Interoperability

3. Data Protection & Privacy

5. Transparency

4. Safety & security

Final list

now that you've consider each other's priorities, shift the values to show your final list. When done, commit to it.

You'll be revisiting this a lot throughout your work.

Our prioritised values

Interoperability

Human Well-being

Data protection & Transparency

Safety & security

Accountability

Do you allow for right to
access, erasure
of data? Yes

Will you be sharing data
with 3rd parties?
or partners? No
Are there clear limits
on what partners do with
that information?

Will you provide information to
the operators about the
data processing? Yes
(you are collecting data)
about them/their
environment

Will the system take into
account particular No
characteristics of user
when making decisions
(gender, age, disability)

Will there be a way
to challenge any
decisions made by
the system? There should be

Do you allow for comparison
among users? No
If so, how will you deal
with risks to self-esteem?

Does the device need to
be implanted on user's
body?

No

1 Sketch person or a group, in the context of where your product should be used

The shopfloor worker at a production line in a car manufacturing company collaborating with an autonomous robot controlled by our product. He uses a tablet to reconfigure the robot for a new task by changing parameters of the system.

2. Who is this person? Write a little bit of detail about their life.

Bob is a shopfloor worker who has been working for his company for 32 years already. Back in his starting days he had to do the job manually. Now, he just got a crash course in how to operate the system. He is worried that he cannot remember all his training...

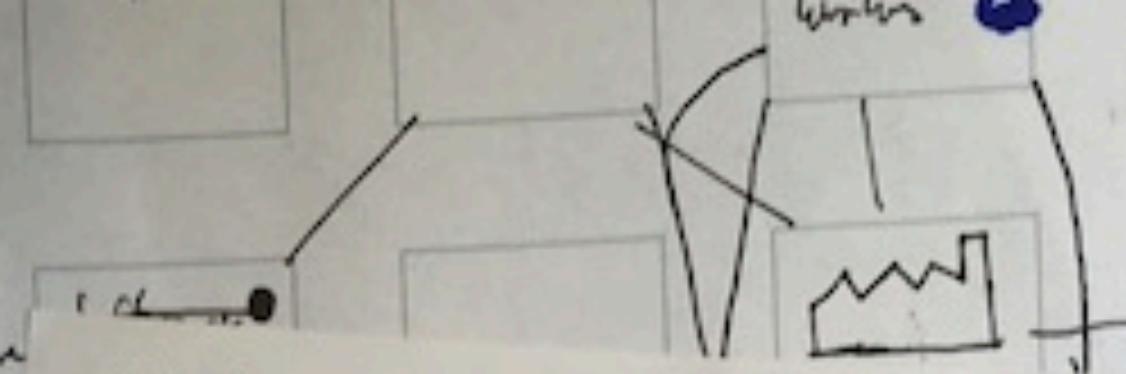
3. How will their daily life be routed / changed / shaped / restricted by your answer

Bob screws up and makes the robot useless.

At the whole production line stops since the system cannot be recover itself.

He might get fired for his incompetence and now get a job again...

provider



World wide

1 Sketch person or a group, in the context of where your product should be used

3. How will their daily life be routed / changed / shaped / restricted by your answer

John needs to be able to target the right responsible if outcomes are out of expectations. If this can't be done ~~easily~~ quickly he will lose a lot of time/money looking for responsible for (i) repair the sys. and (ii) change a fee.

2. Who is this person? Write a little bit of detail about their life.

John is a robot integrator. He usually have always built systems using simple, but reliable, softwares. He would like to increase the speed pace at which he is deploying systems, but without impacts on safety.

Things to consider

who is it for

where is it used

Hardware

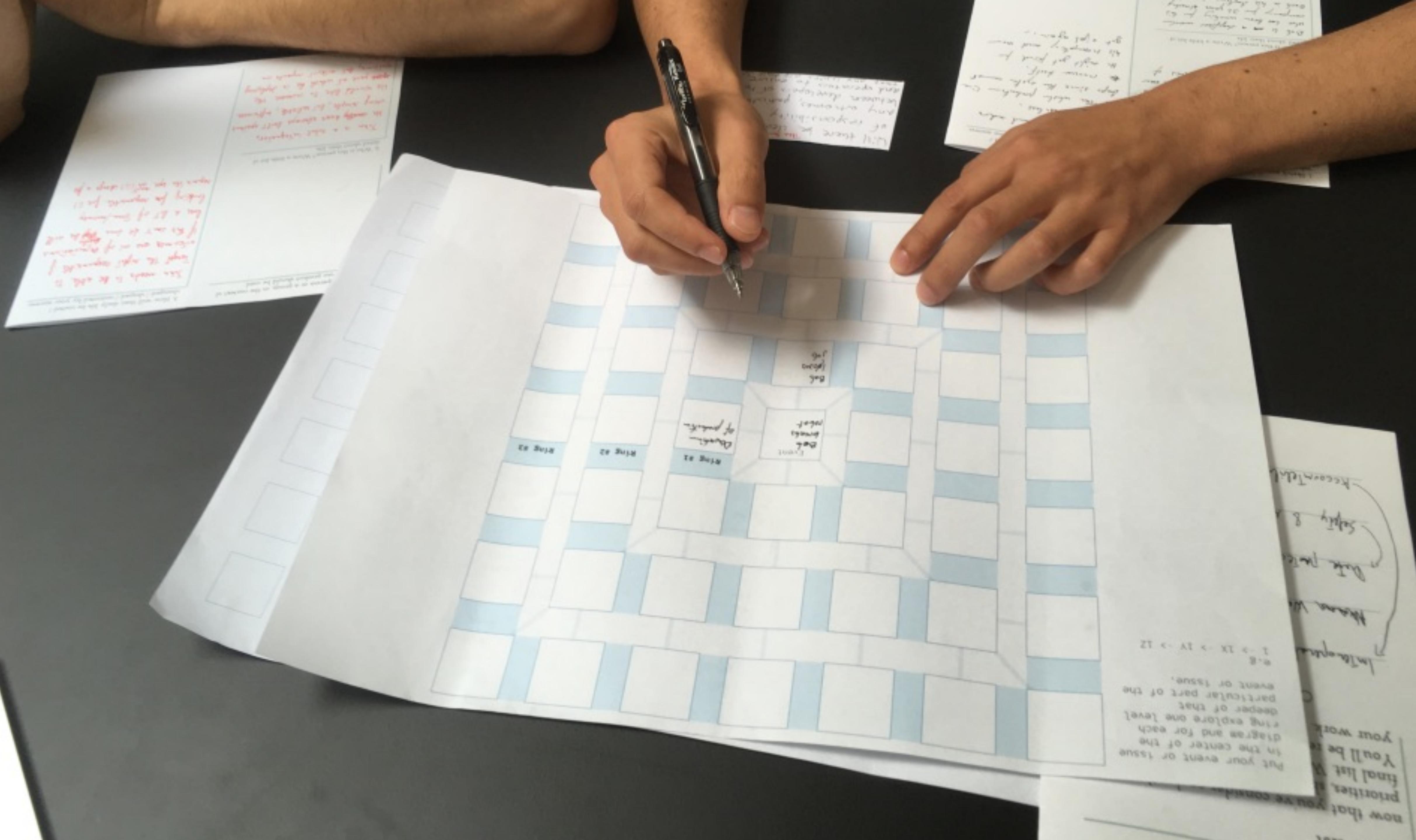
Internal people

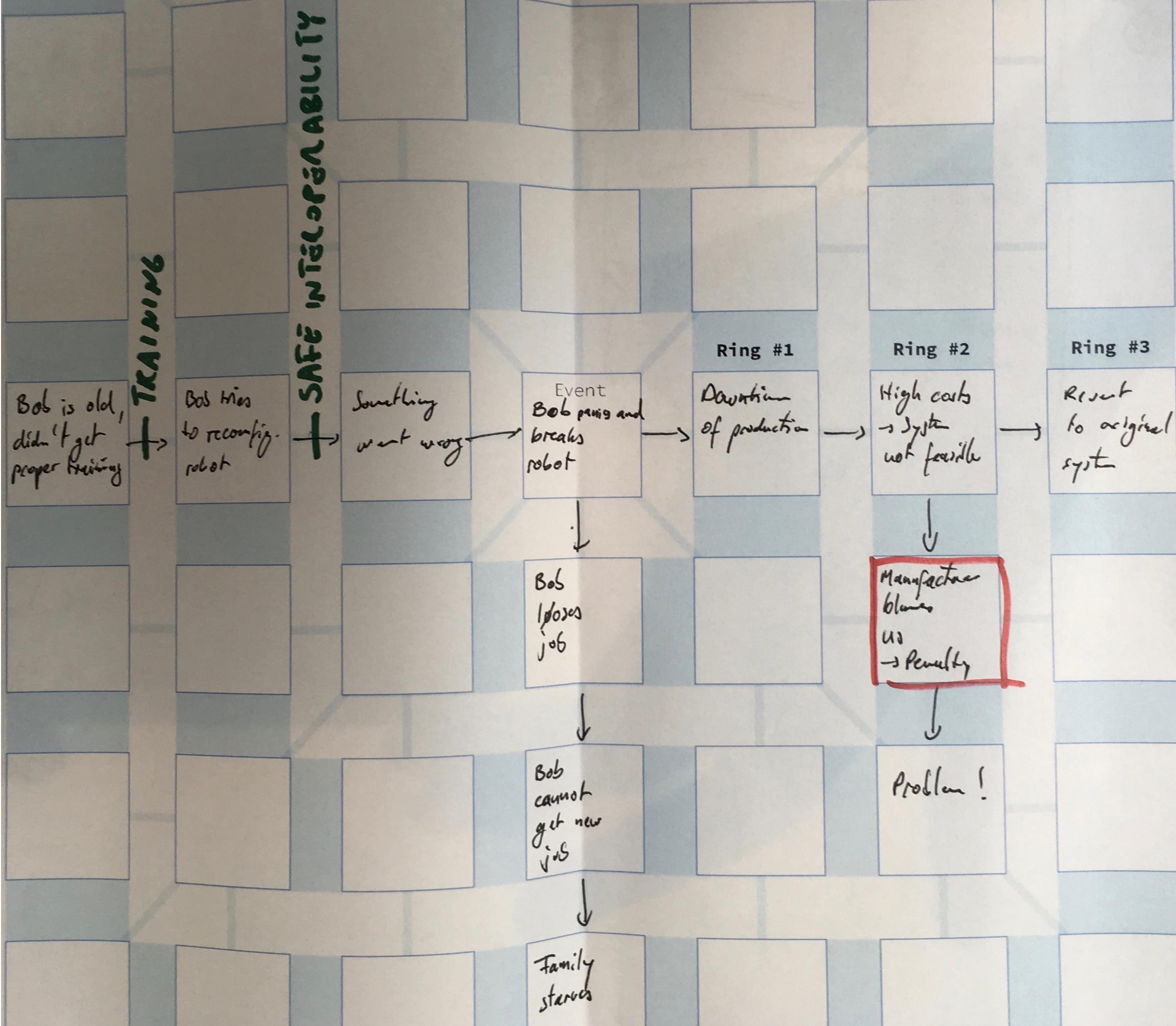
3rd parties

Sensors

Power

wireless





25
▼
★

Committing the user to that wrong choice can't be
made.

Safety check on the config.

Here's an idea

25
▼
★

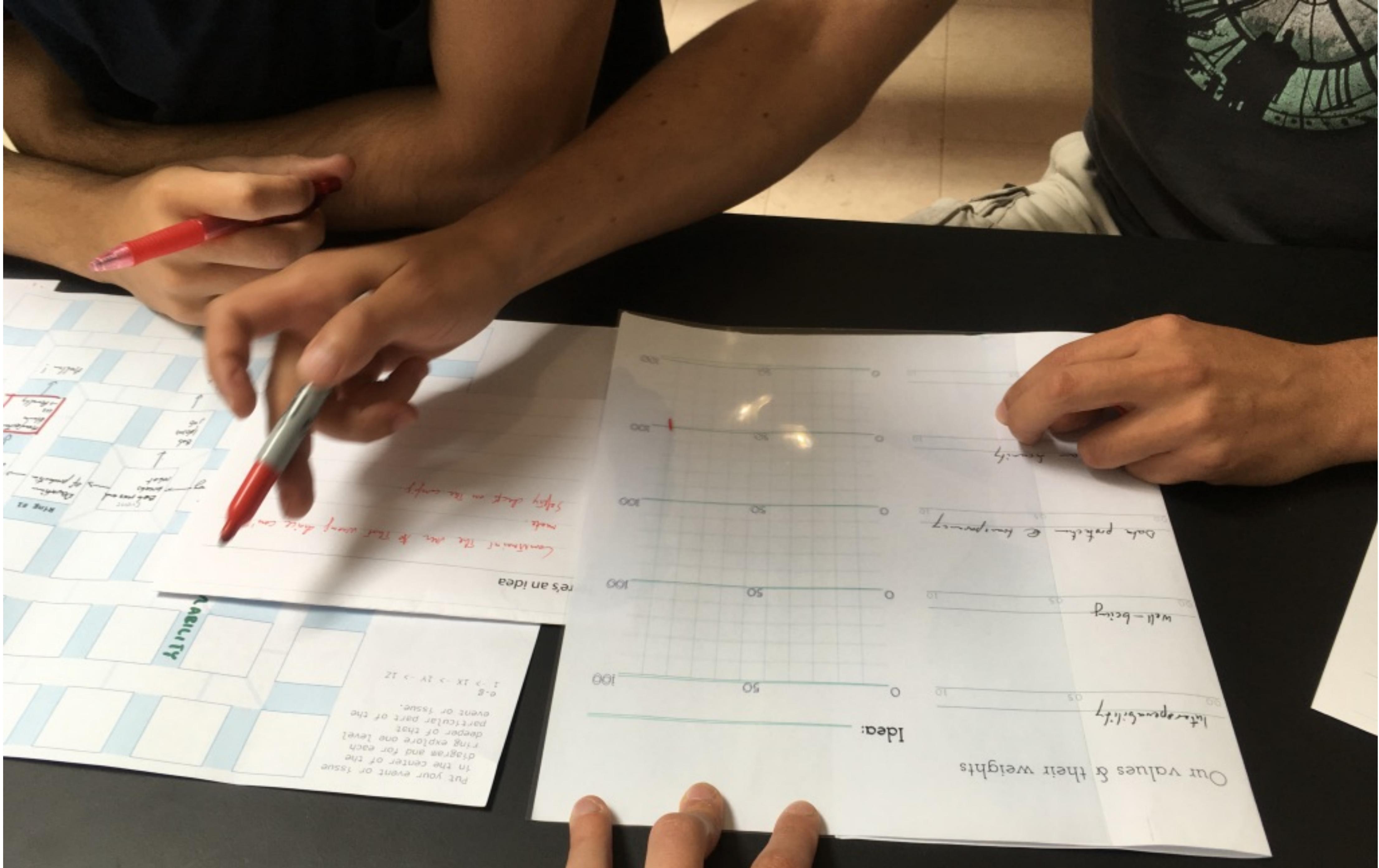
technical safety net
and preventive in design
phase (testing)

Here's an idea

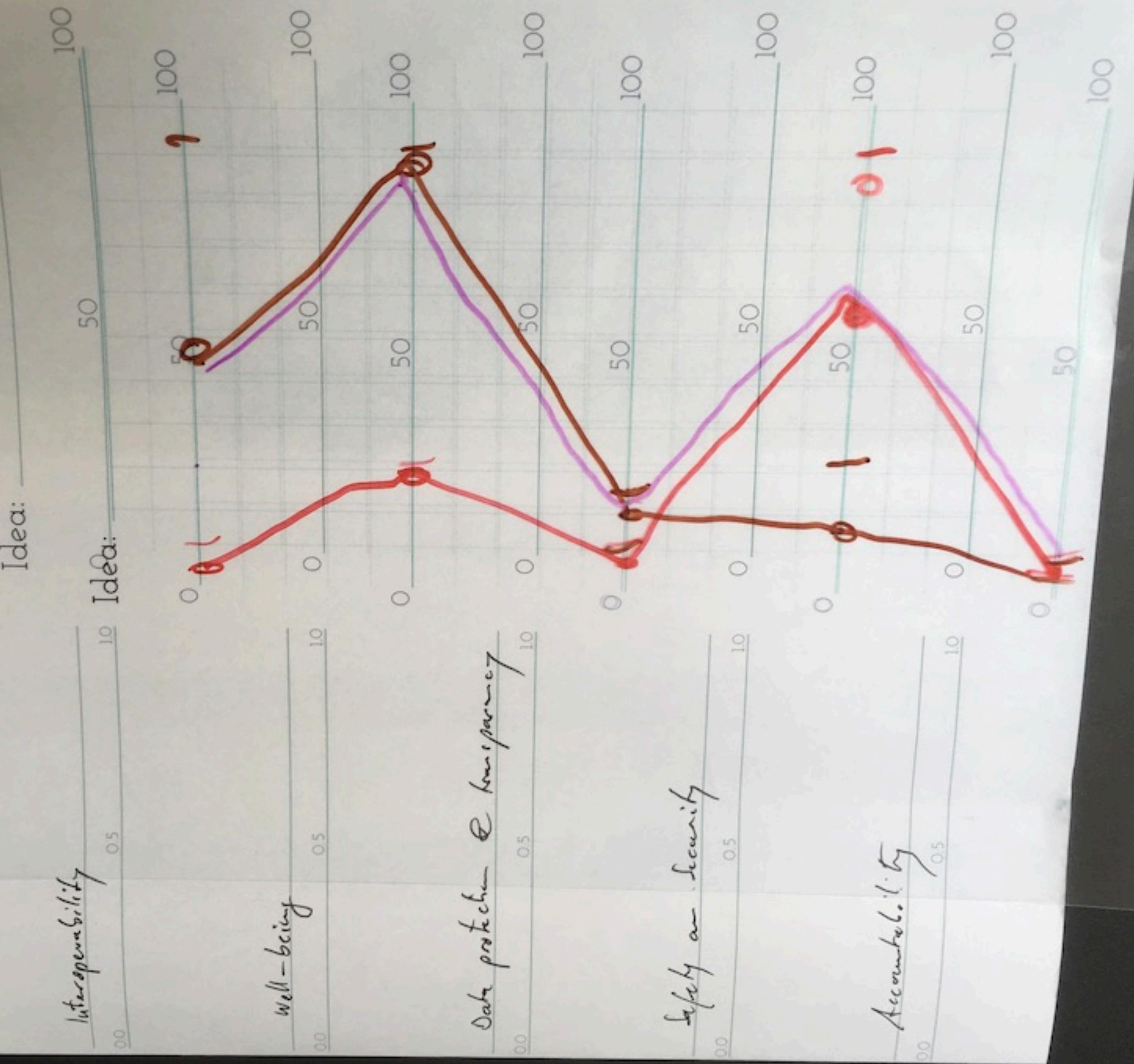
25
▼
★

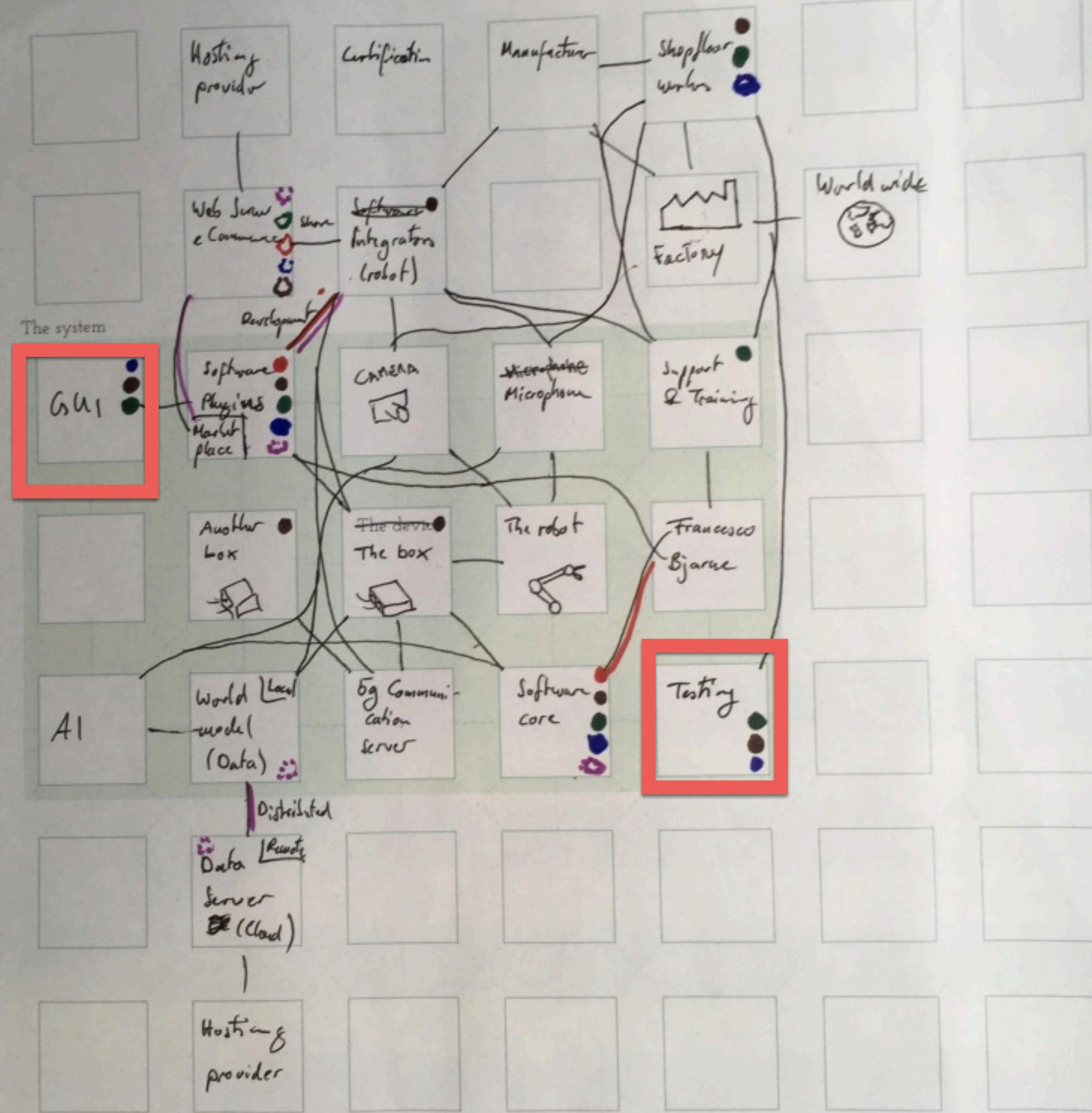
Feedback from shopfloor worker during
design phase: Human-centric design

Will there be clear lines
of responsibility for
any outcomes, particularly
between developers of tools
+ org to ensure it works?



Our values & their weights





Final list

now that you've consider each other's priorities, shift the values to show your final list. When done, commit to it.

You'll be revisiting this a lot throughout your work.

Our prioritised values

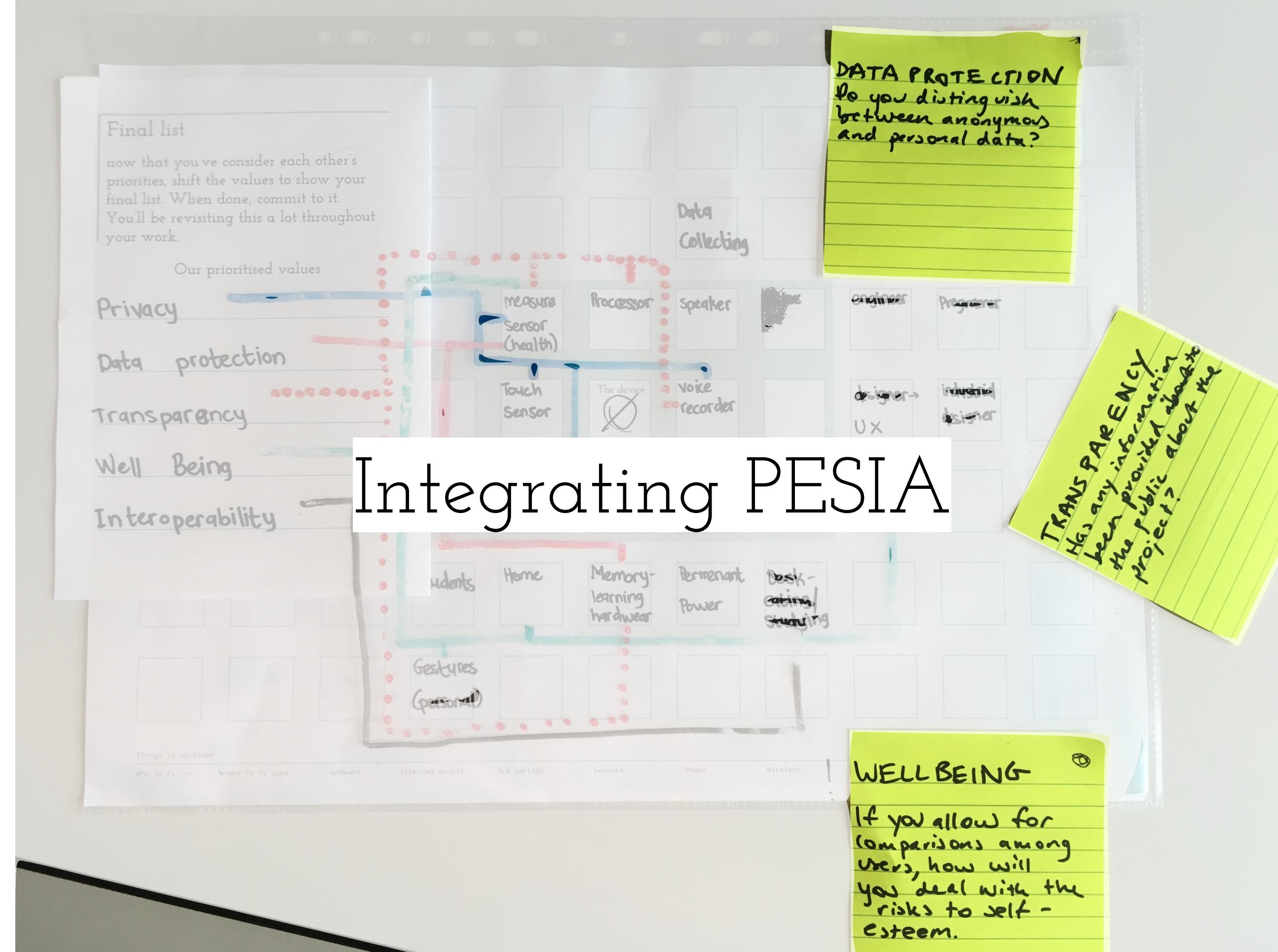
Interoperability

Human Well-being

Data protection & transparency

Safety & security

Accountability



AMS Stakeholder Workshop





Engagement

PART FIVE:
REFLECTIONS

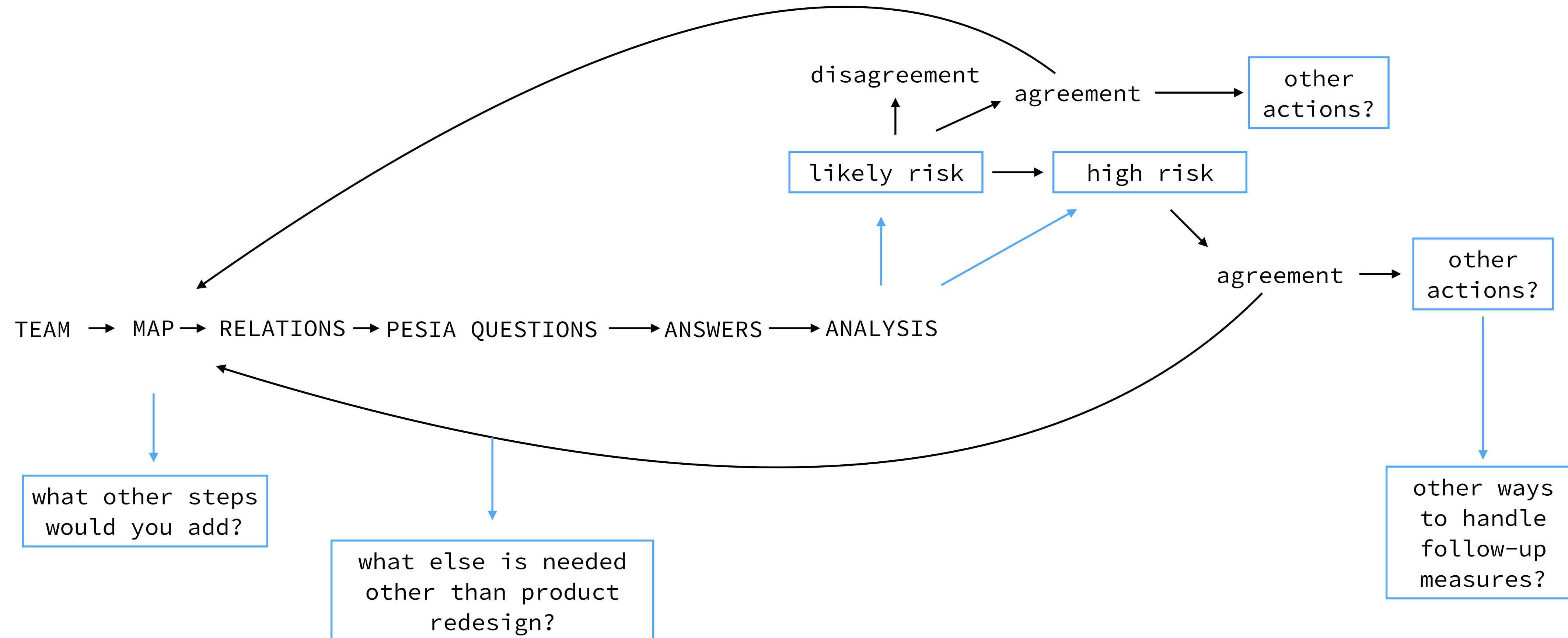
Challenges

Challenges:

- What else is needed before, during, after an assessment?
- Impact of hardware design and component decisions
- How do you make sure there are outcomes and not just a nice diagram and ethics washing?

AMS Stakeholder Workshop

PART FIVE: REFLECTIONS



*WHAT IS NEEDED BEFORE, DURING AND AFTER PESIA?

*THEN WHAT?

PART FIVE:
REFLECTIONS

What we did:

PART TWO:
ENGAGING WITH PESIA

We are working on a product at our start-up.

1. Get to know the diagram of the elements of your respective products.
2. Now add any relations (users + makers + stakeholders). Who is related (using, impacted, connected to) to each element in your product?
3. What are your ethics, and specifically, your values while working at OldLifeWell?
 - a. Individually, take ethical concepts you would like to have at OldLifeWell and bring them back to your table
 - b. In your table group, discuss each ethical concept. If there are any with divergent definitions, or words that one group member is “not ok with”, discuss with the knowledge that you need to work together on this product for the next 100 years.
4. Consider **PESIA questions**
5. Is there a problem?
 - a. Play a role / devil’s advocate / push each other

PART TWO:
ENGAGING WITH PESIA

5. Is there a problem?
 - a. Play a role / devil's advocate
 - b. If yes + you **agree** there is a problem:
 - Revisit your product map
 - Mark-up with ±3 ways to address problem
 - Decide which one you will take
 - Commit the change on your product map
 - c. If yes but **inconclusive** (1 yes, 1 no):
 - 1st try: create a scenario of why you should care about this PESIA answer: a user story, an imagined possible future outcome that could come from your PESIA answer?
 - Then go back to 4.
 - 2nd try: create a positive / negative news splash from your PESIA answers. What's the headline?
 - Then go back to 4.
 - 3rd try: brainstorm your own.
 - d. If no:
 - How would you communicate this good news?
 - To whom, through what medium?

PART TWO:
ENGAGING WITH PESIA

Reflect + Re-make

PART TWO:
ENGAGING WITH PESIA

what else is needed
to grasp answer's
implications?



5. Is there a problem?

- a. Play a role / devil's advocate
- b. If yes + you **agree** there is a problem:

- Revisit your product map
- Mark-up with ±3 ways to address problem
- Decide which one you will take
- Commit the change on your product map

did different ideas
of "ethics" come out
when talking here?



what kind of
scenarios were more
persuasive?



c. If yes but **inconclusive** (1 yes, 1 no):

- 1st try: create a scenario of why you should care about this PESIA answer: a user story, an imagined possible future outcome that could come from your PESIA answer?
- Then go back to 4.
- 2nd try: create a positive / negative news splash from your PESIA answers. What's the headline?
- Then go back to 4.
- 3rd try: brainstorm your own.

any other actions
you would take?



any other important
activities or
actions here?



d. If no:

- How would you communicate this good news?
- To whom, through what medium?

how else can we
get our PESIA
respondents to care?



other ideas of
"trump" cards?

PART TWO:
ENGAGING WITH PESIA

if there were
misunderstandings,
what would have
helped here?

We are working on a product at our start-up.

1. Get to know the diagram of the elements of your respective products.
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Who is related (using, impacted, connected to) to each element in your product?
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4. Consider **PESIA questions**
5. Is there a problem?
 - a. Play a role / devil’s advocate / push each other

was your map at all
prioritised, or
weighted?

if there were
misunderstandings,
what would have
helped here?

PART FIVE:
REFLECTIONS

PLANS

What happens next in the project
and how can you continue to be
involved if interested?



PART FIVE:
REFLECTIONS

THANK YOU!