

VIRT-EU SANDBOX: Design Dilemmas in Connected Technologies

Presenters:

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background: the VIRT-EU project



moral simulation
interventions
interventions as Ethics
the framework
futures



moral simulation

We are working at a
company

Alison Powell & Irina Shklovski



IT UNIVERSITY OF COPENHAGEN



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INTERACTION
DESIGN

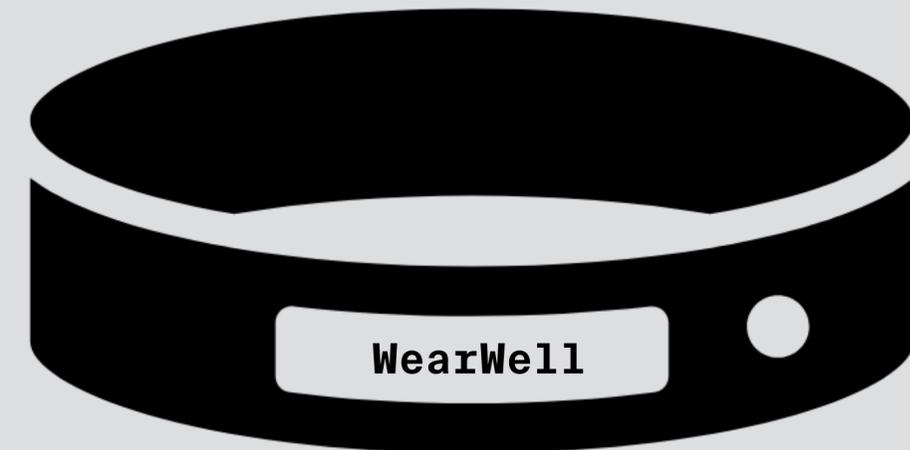


WearWell

Track your wellbeing while working productively!

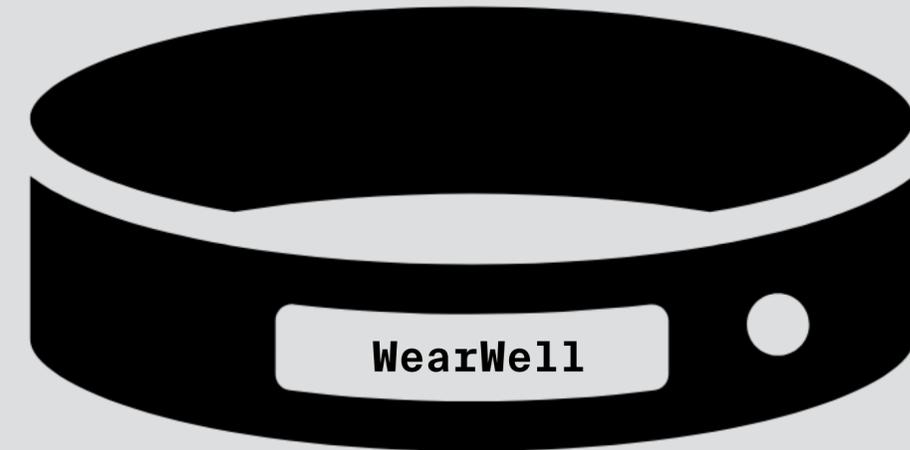
WearWell is equipped with GPS, heart rate monitor, step counting and body temperature sensors.

When an employee wears WearWell, s/he will become more aware of their mental and physical wellbeing throughout the day.



WearWell

How should we design WearWell in order to capture the clearest picture of data and give all of us the best suggestions based on that data?

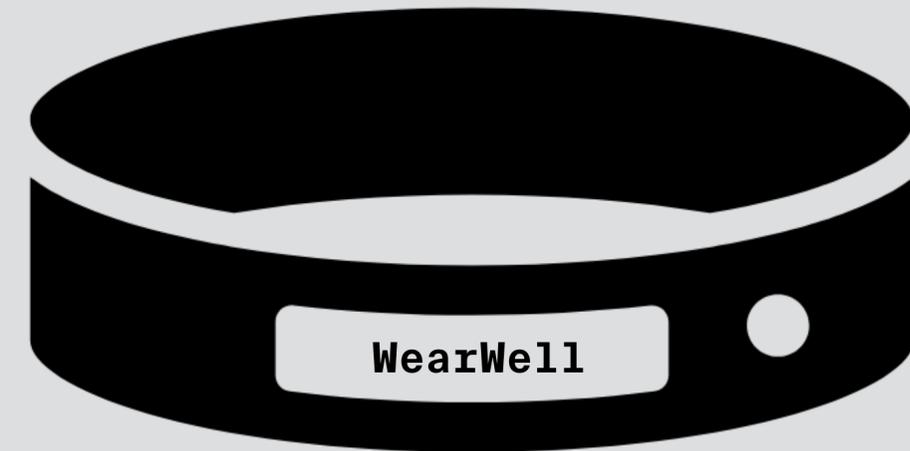


Goals:

- A device to support employee well-being as mental and physical fitness.
- Provide goal-setting capability and feedback based on personalized goal suggestions.
- Allow push notifications to/from management team based on unusual or problematic deviations from established goals and norms
- Ability to “snooze” reminders for helping to achieve established goals

Approach:

- Technical team reviews sensor suite and specs
- UX team develops available interface elements
- We will work with potential users to ensure relevant functionality



Device Sensors:

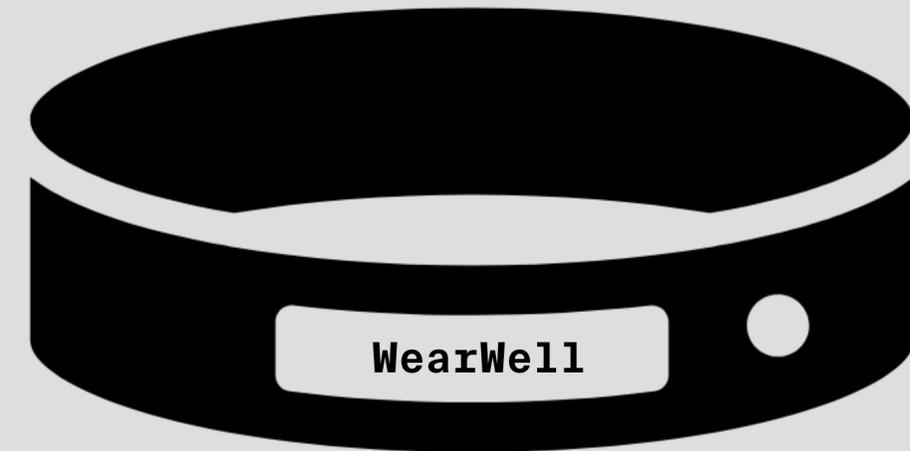
1. GPS
2. Heart-rate sensor
3. Step-count (accelerometer)
4. Temperature
5. Galvanic skin response

Measuring impact:

- Up-take and feedback from employees
- The number of sick days employees take (reduction in the number of sick days would be evidence of positive impact)
- Keep track of the number of interactions between employees and managers
- Keep track of productivity levels (KPIs)

Security and privacy:

- Employees will have the option of turning off internal location tracking
- Employees will have an option of turning off tracking on weekends
- Managers and employees will have to confirm some more sensitive tracking options together

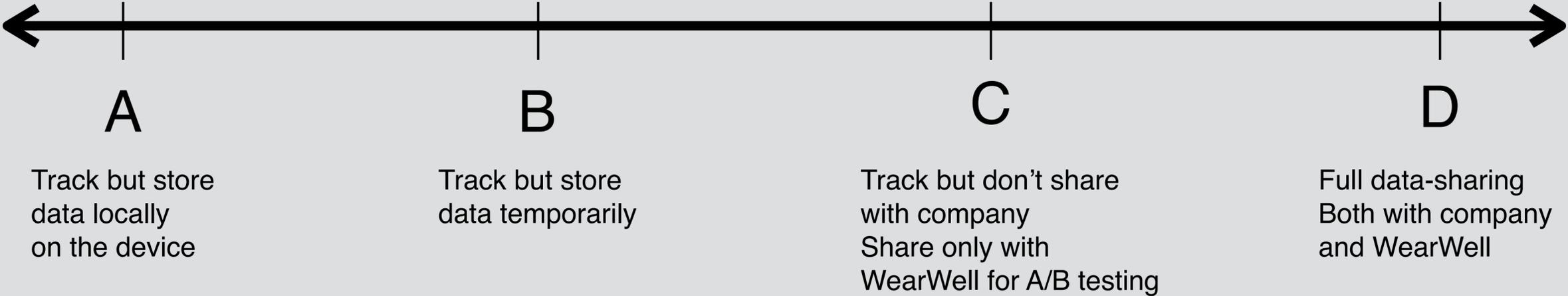


Other options:

1. other sensors?
2. data storage & management options?



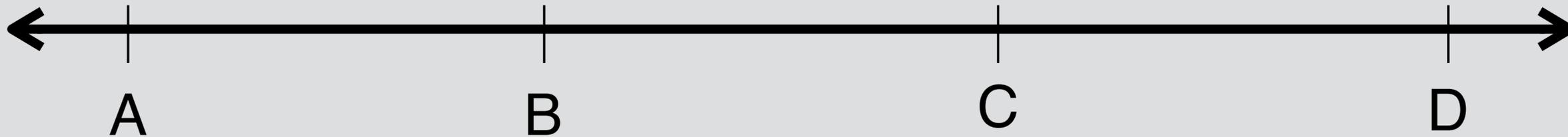
the axis of options





Option A

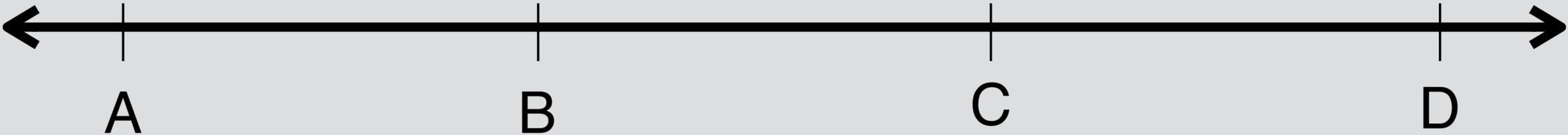
Track but store data locally on the device
Company gets aggregate reports





Option B

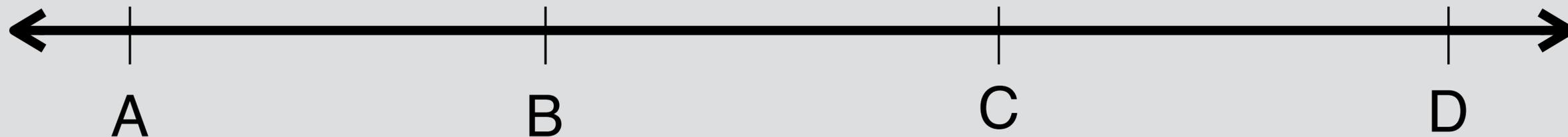
Track but store data temporarily
Company gets aggregate reports





Option C

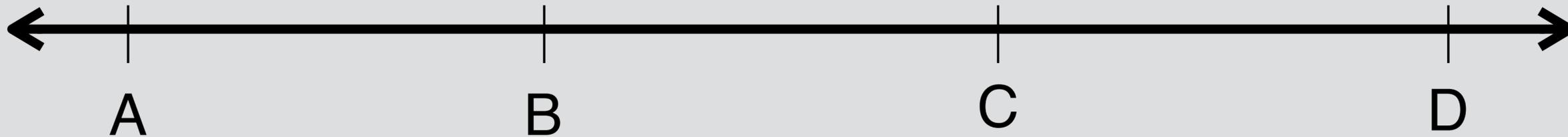
Track but don't share with client company
Share only with WearWell for A/B testing
Company gets aggregate reports





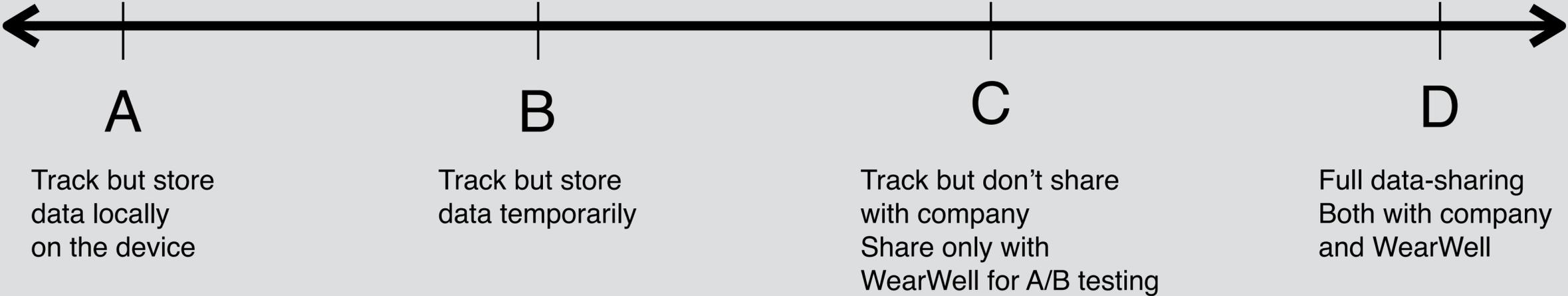
Option D

Full data-sharing with company, WearWell and any third-parties that are relevant





the axis of options



← → ↻ ourbusiness.wearwell.com

Our Values

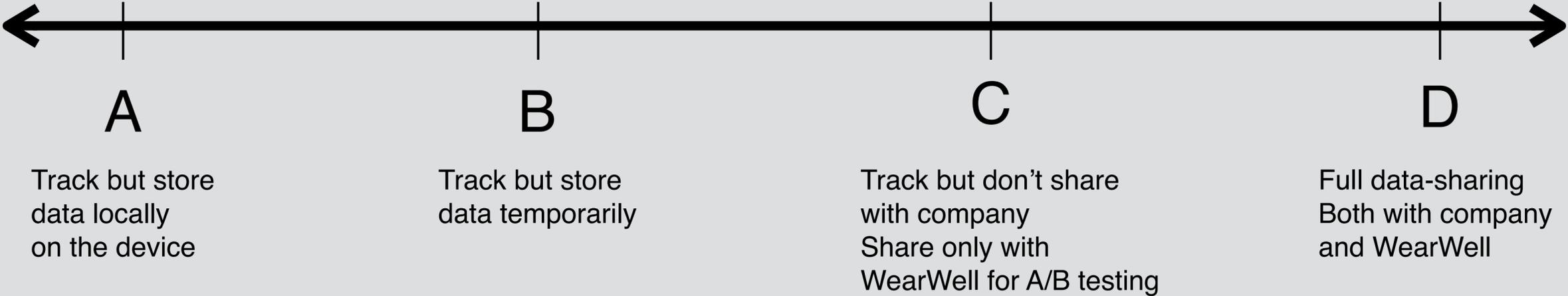
Wellbeing
Everyone at our company tries their best to keep each other's wellbeing in mind at all moments of the day.

Privacy
Privacy at our company is defined as the fact that we care deeply about each individual's right to a private life.





the axis of options



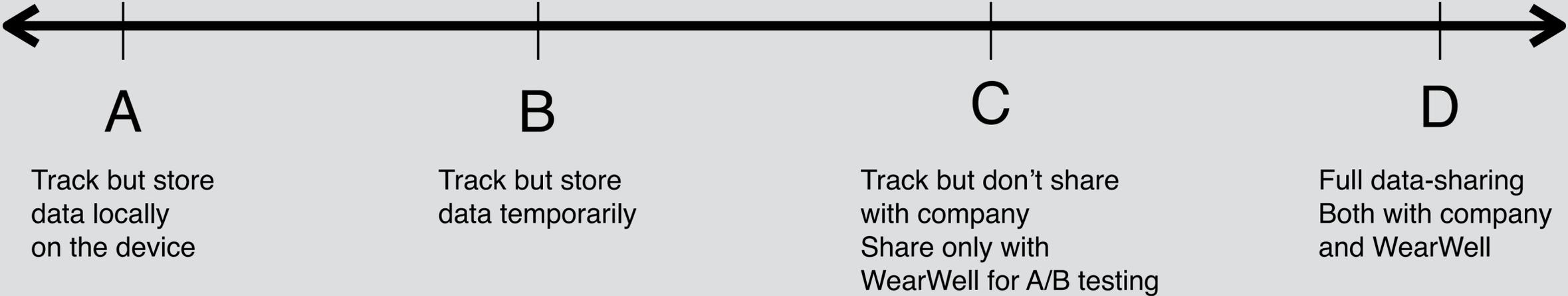
User Interview

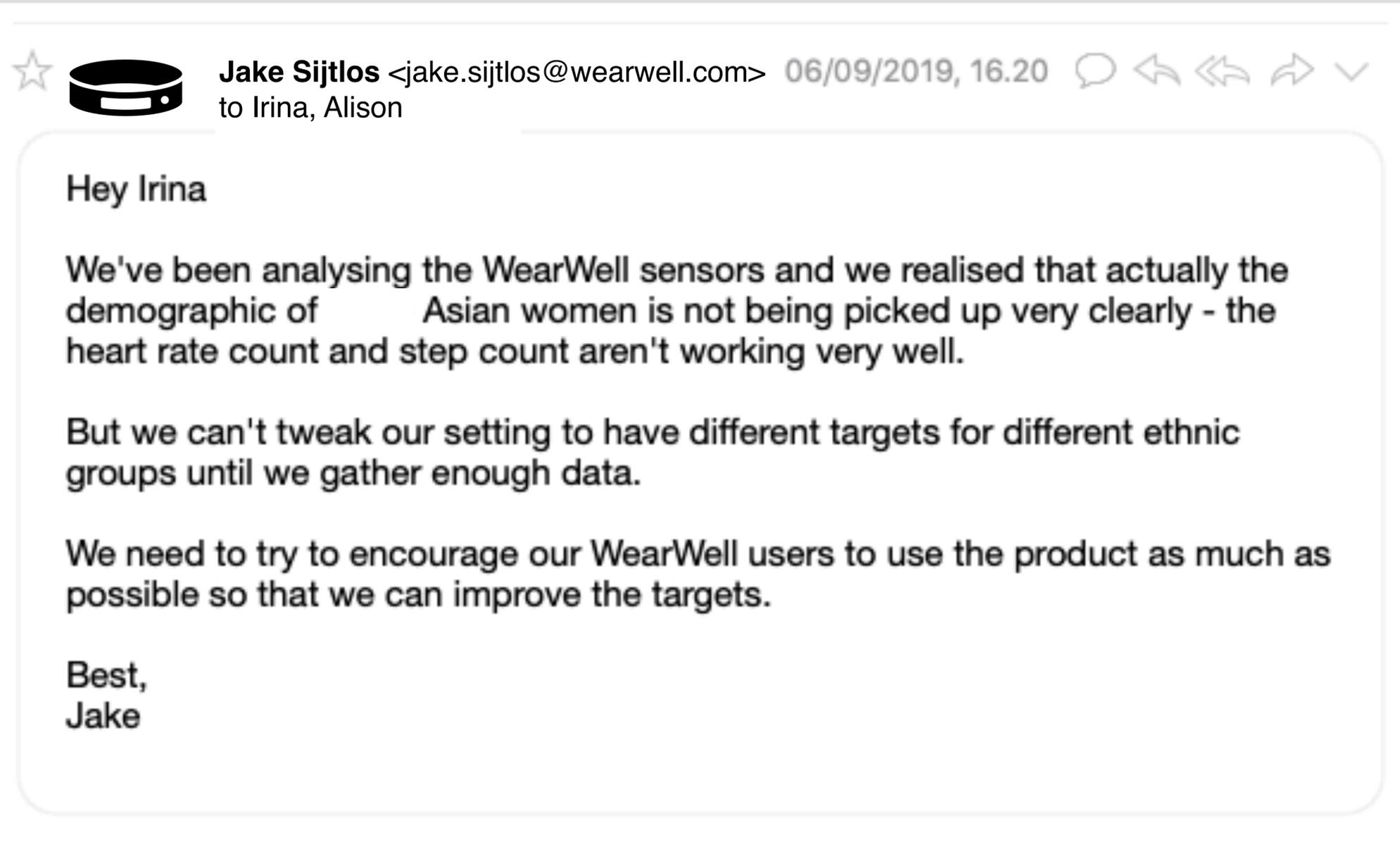
Let's have a user interview with one of the employees in a company that is currently testing the WearWell prototype. She works at the Sales Department and she's a mother of two.





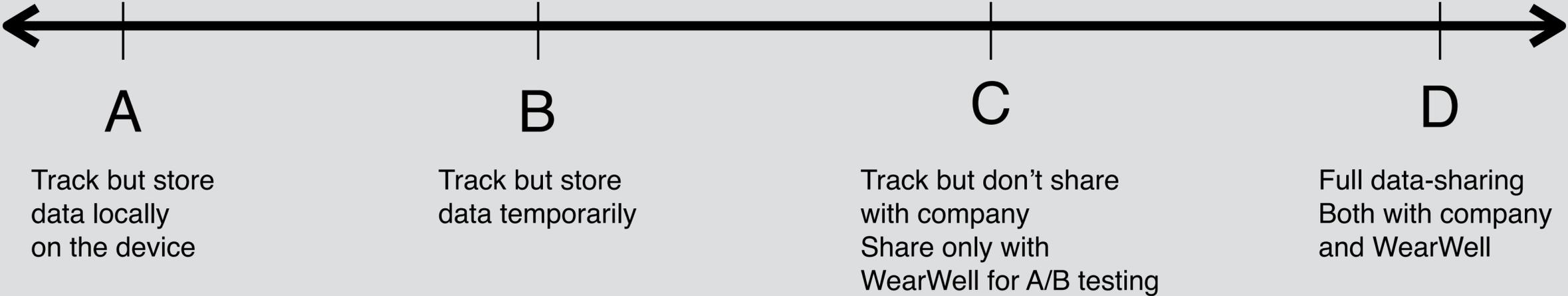
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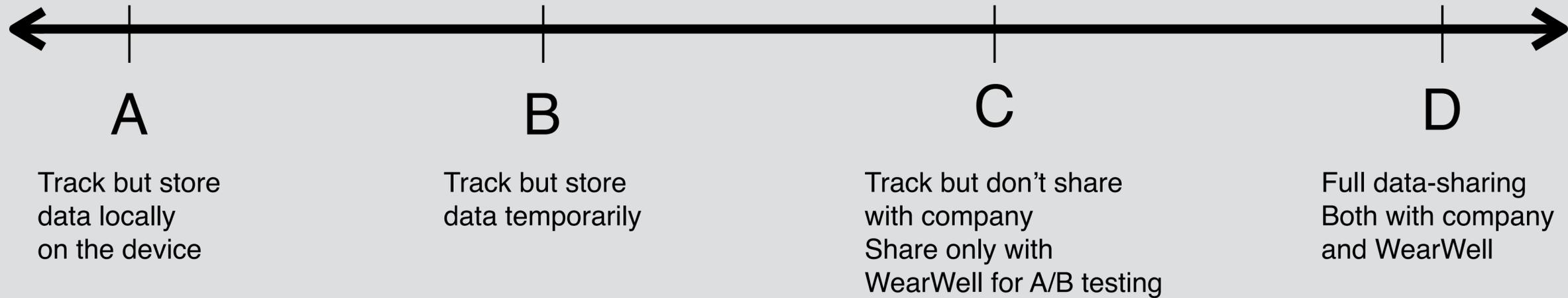


the axis of options

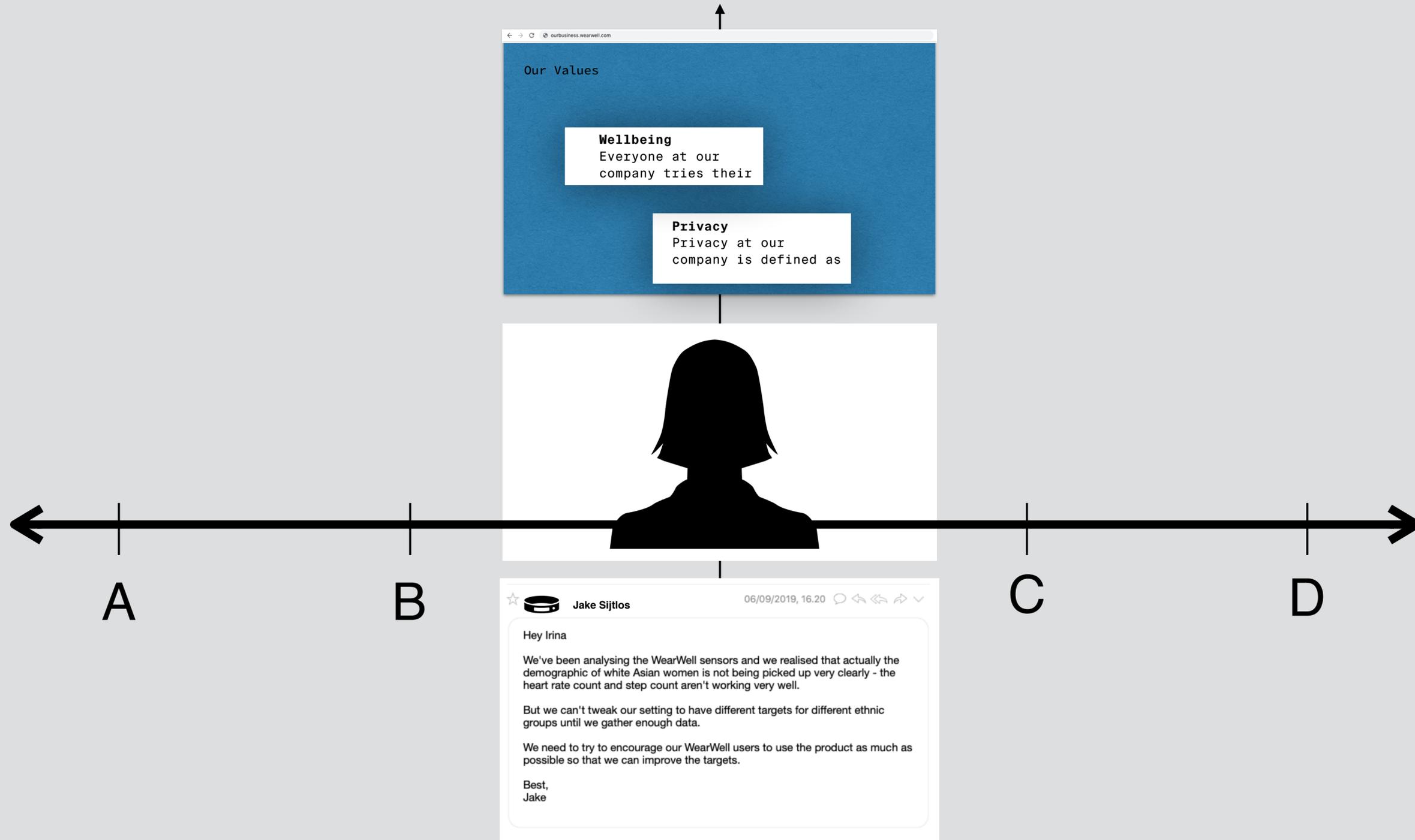




so what did we do here?



moral simulation / interventions



Design Dilemmas in Connected Technologies

ethics as interventions

Alison Powell & Irina Shklovski



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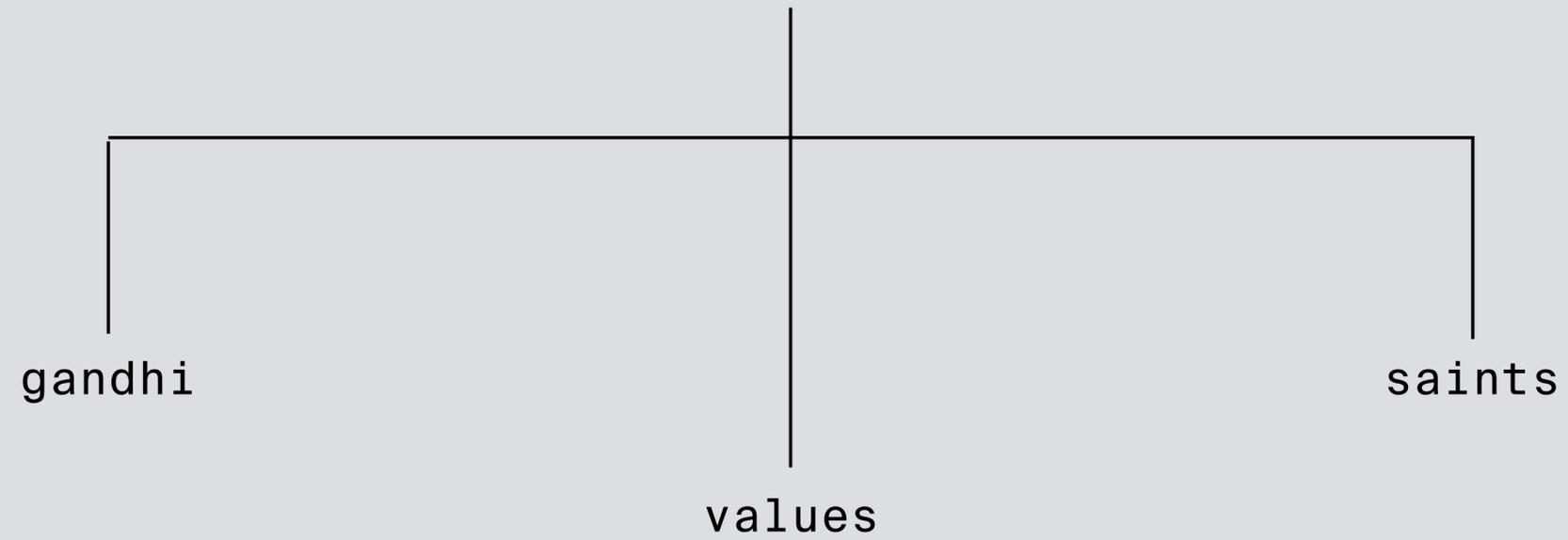
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virtue



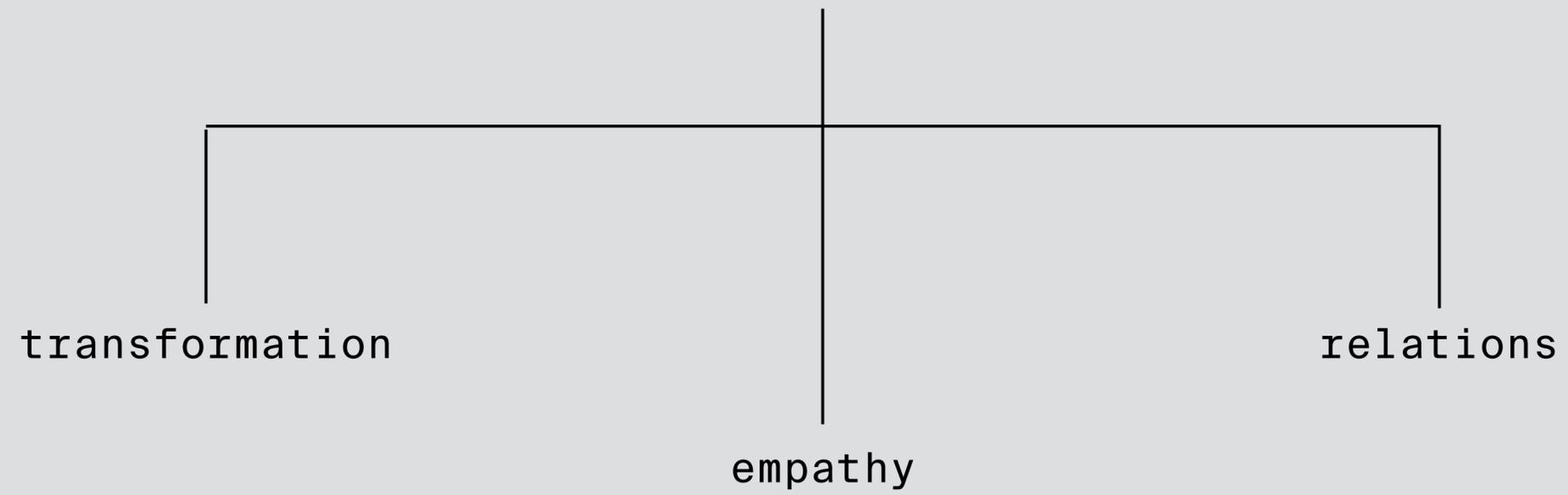
*thank you: James Zhou

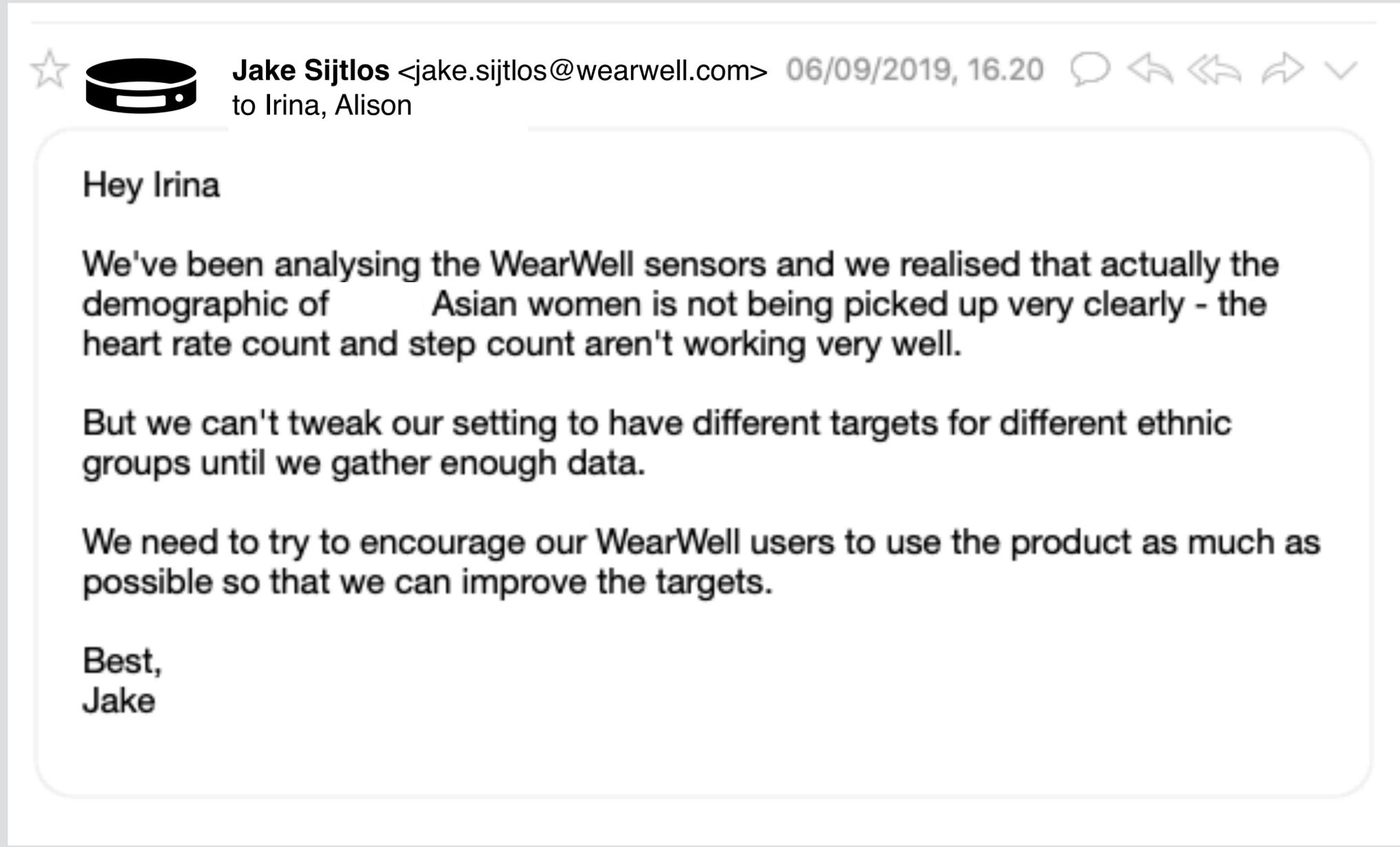
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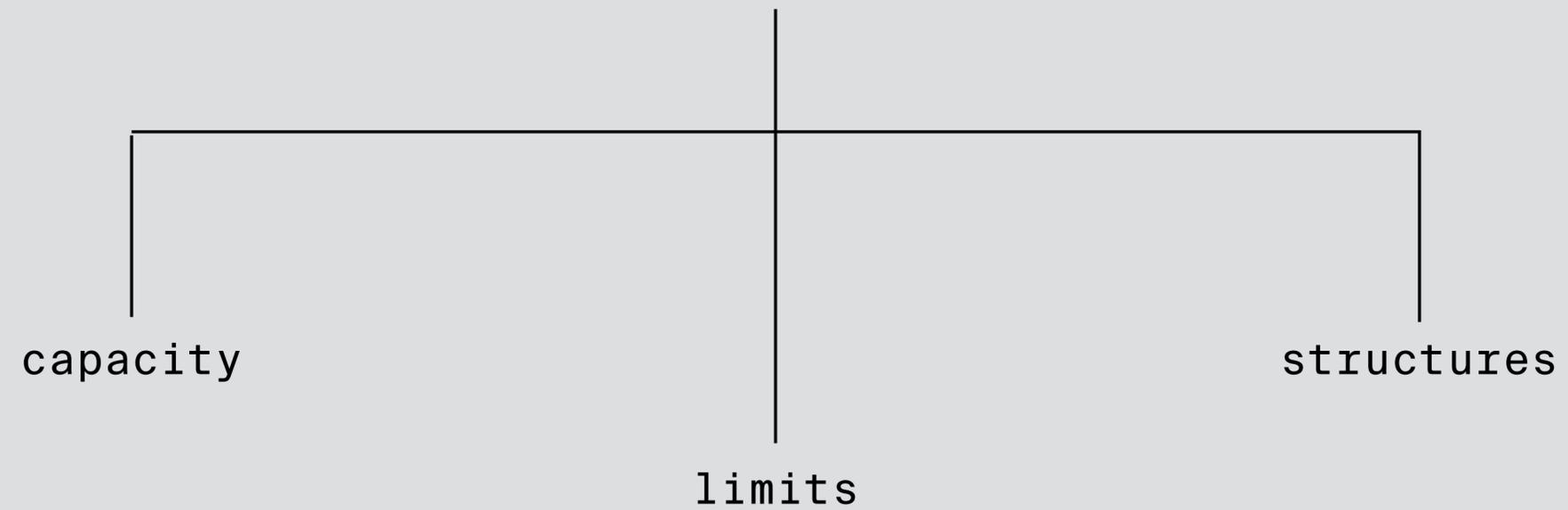


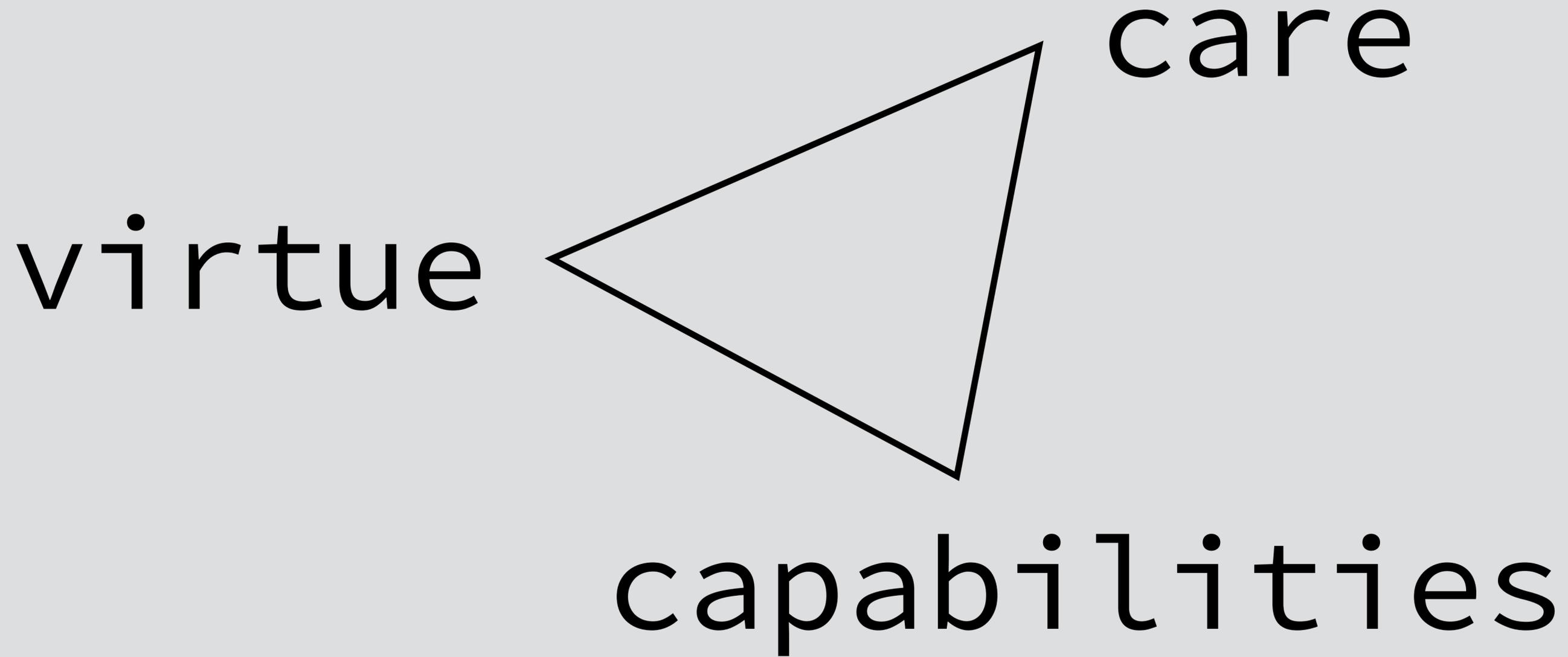
care





capabilities





moral simulation / interventions / Ethics / framework



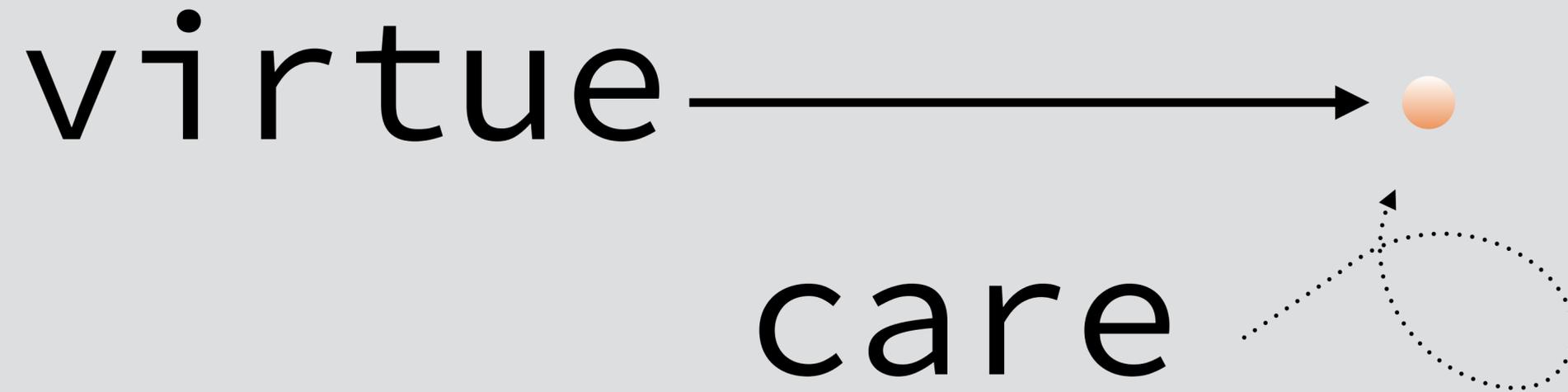
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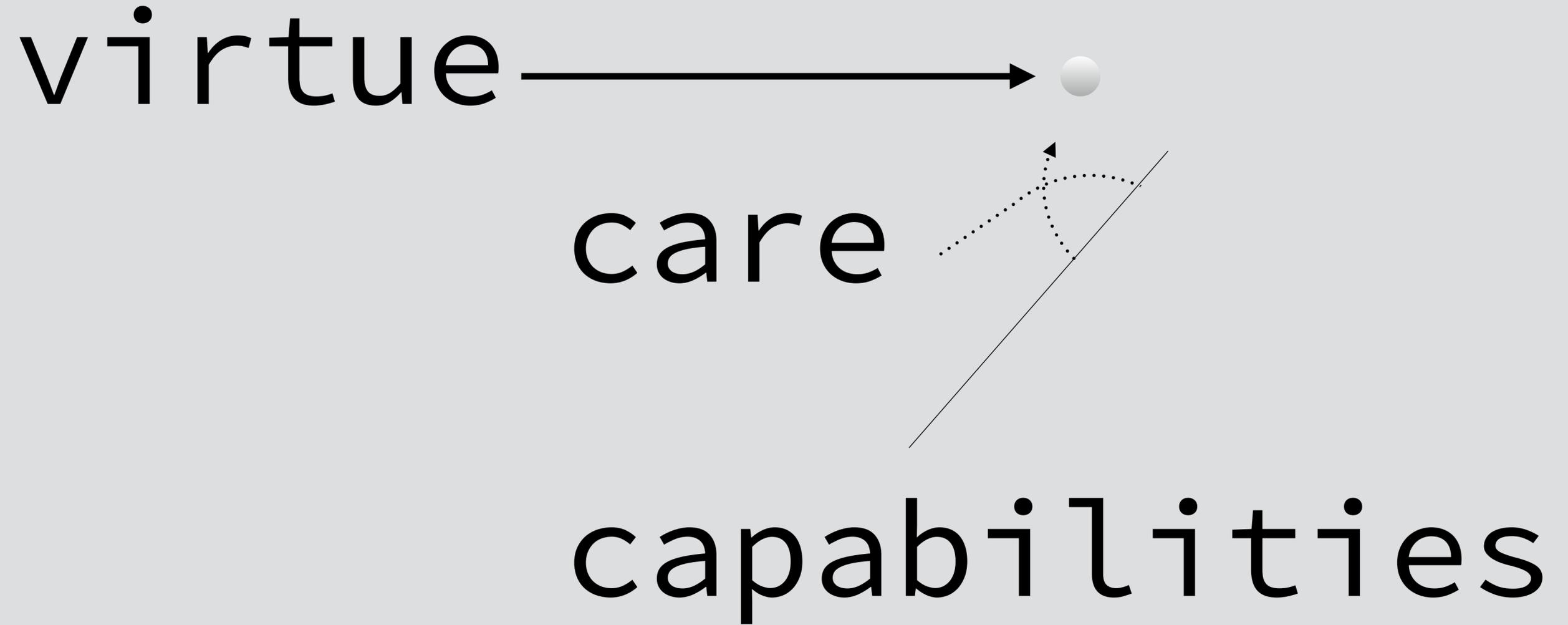
Design Dilemmas in Connected Technologies



virtue → ●







moral simulation
interventions
as Ethics
the framework
discussion

ethics, a journey



Q + A

VIRTEU: Tools for ethical reflection



Thank you!

and an extra big thank you to:

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and all of our VIRTEU partners



Values and Ethics in Innovation for Responsible
Technology in Europe 2017-2020

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