

# 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

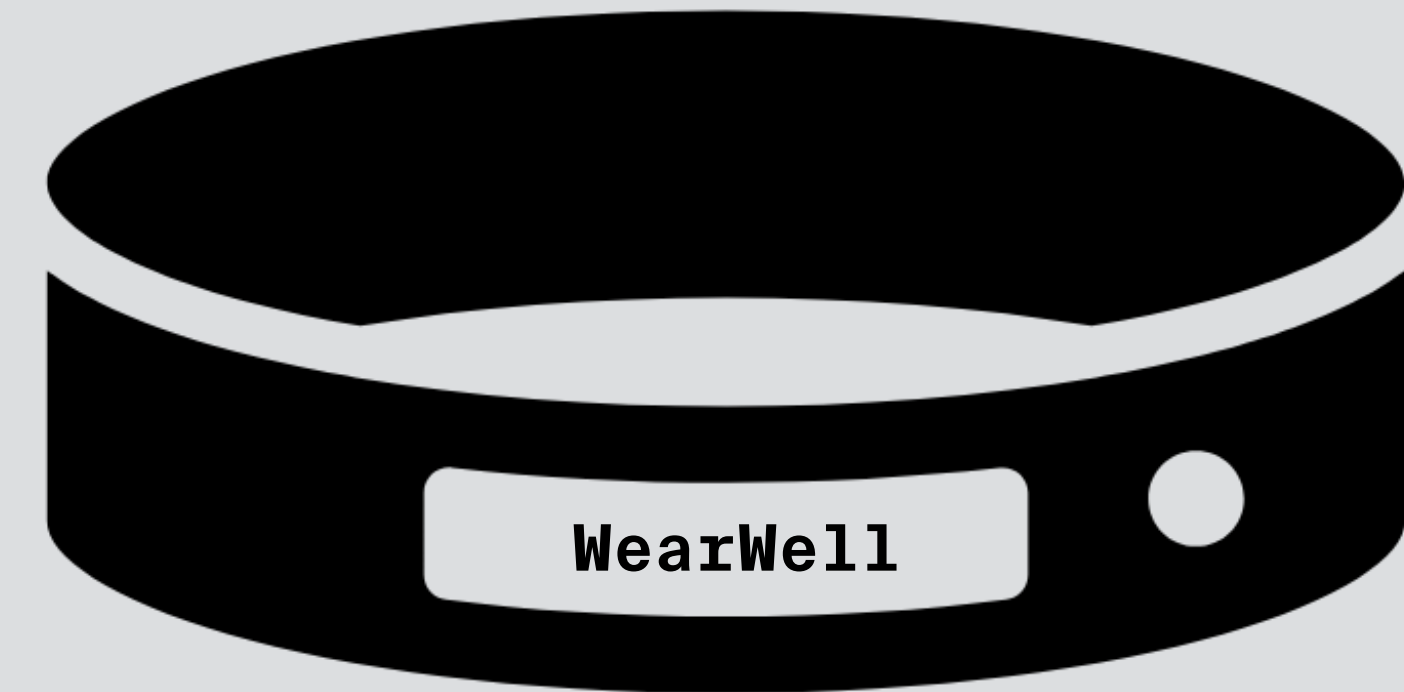
We are working at a  
company

# WearWell

Track your wellbeing while working productively!

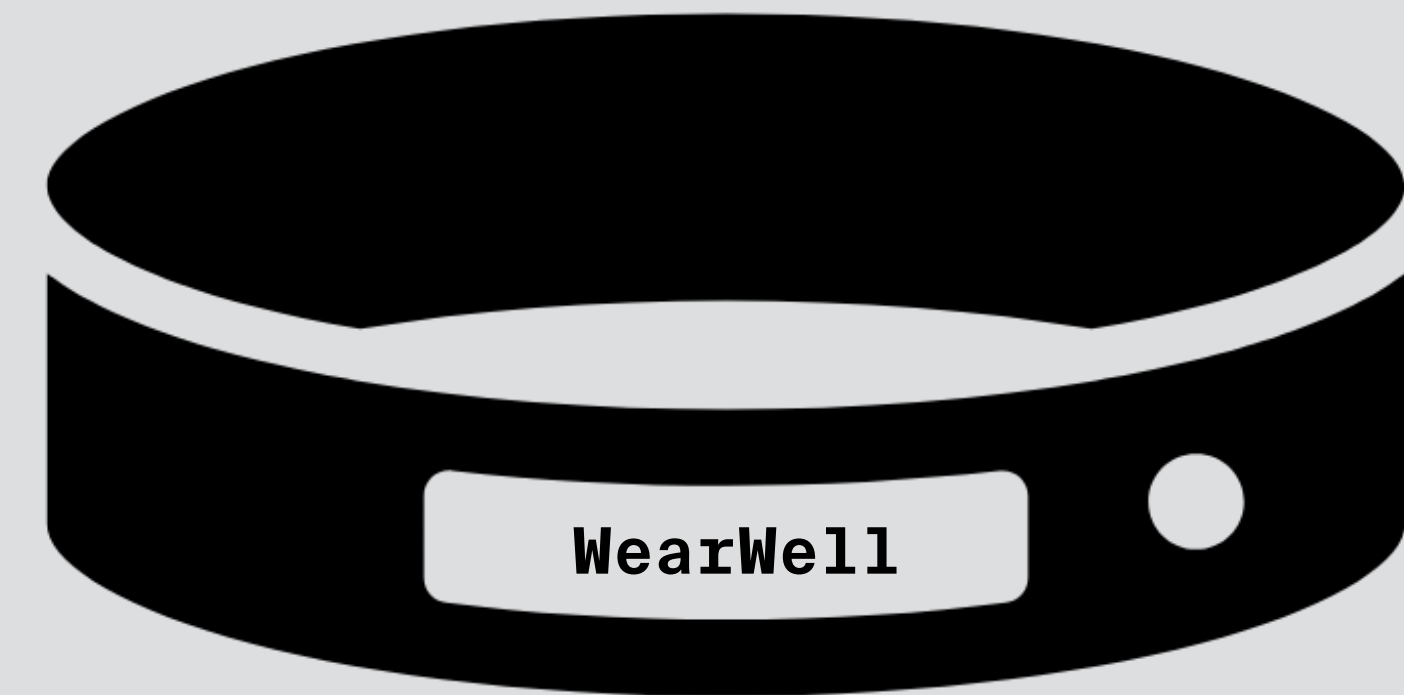
WearWell is equipped with GPS, heart rate monitor, step counting and body temperature sensors.

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?

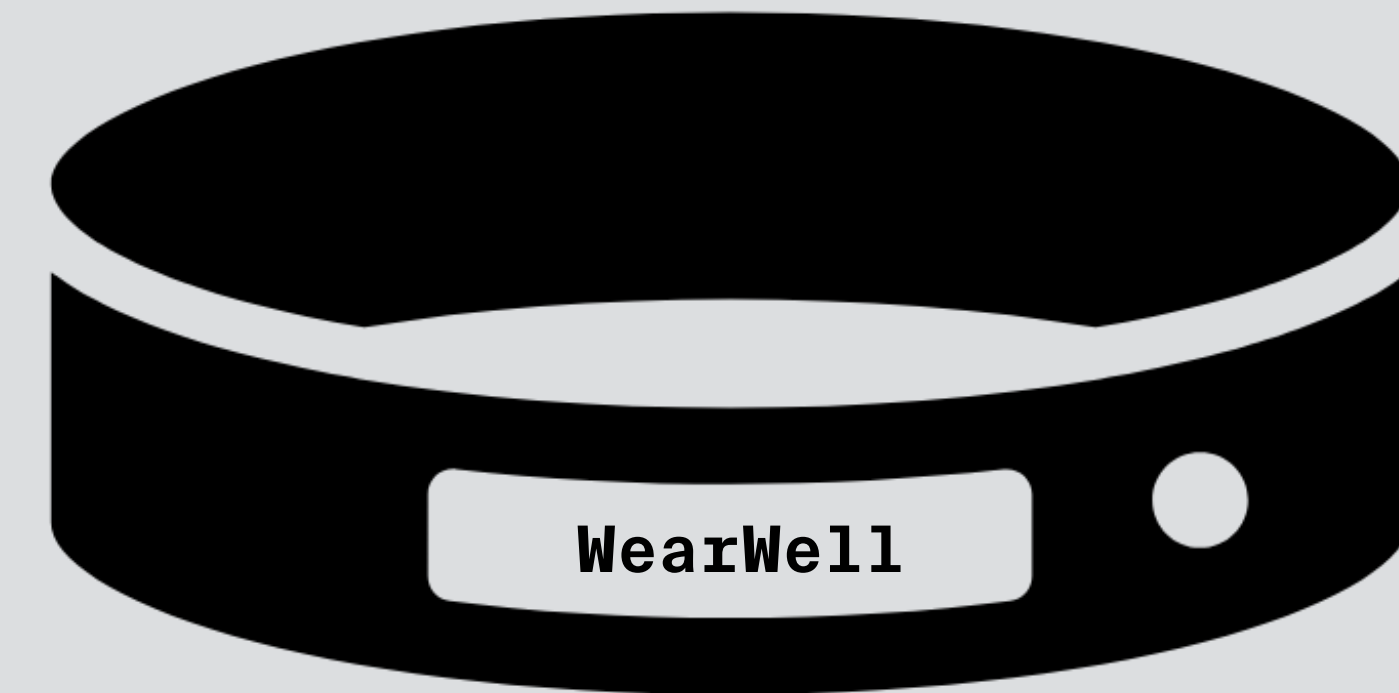


## Goals:

- 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:

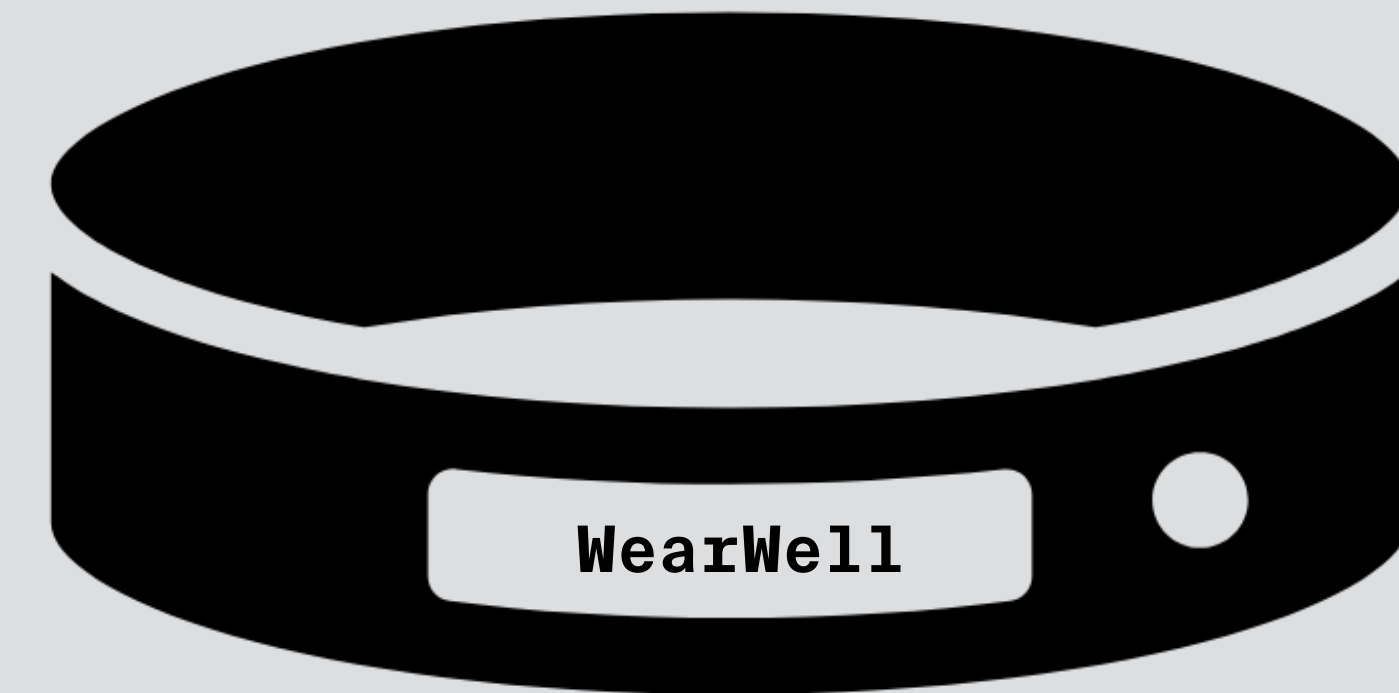
1. GPS
2. Heart-rate sensor
3. Step-count (accelerometer)
4. Temperature
5. Galvanic skin response

## 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:

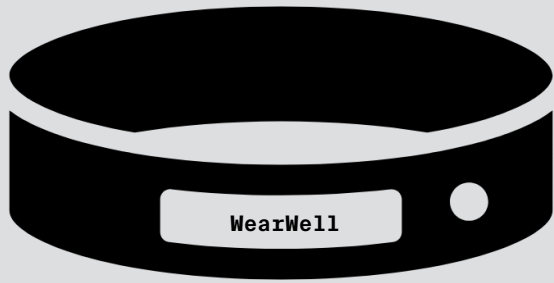
- Employees will have the option of turning off internal location tracking
- Employees will have an option of turning off tracking on weekends
- Managers and employees will have to confirm some more sensitive tracking options together



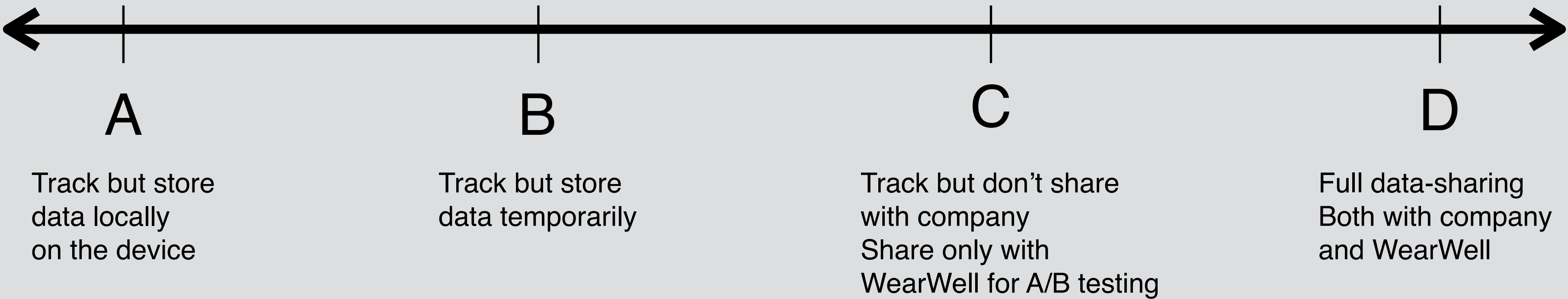
## Other options:

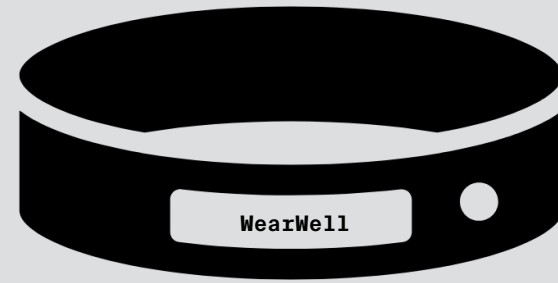
1. other sensors?
2. data storage & management options?





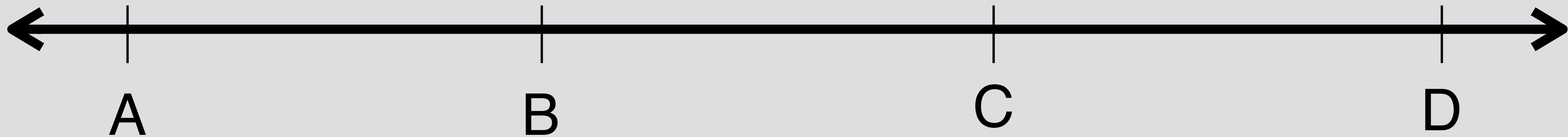
# the axis of options

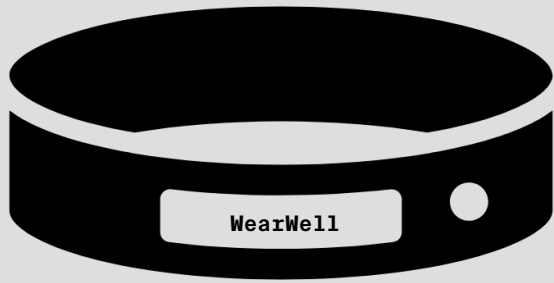




# Option A

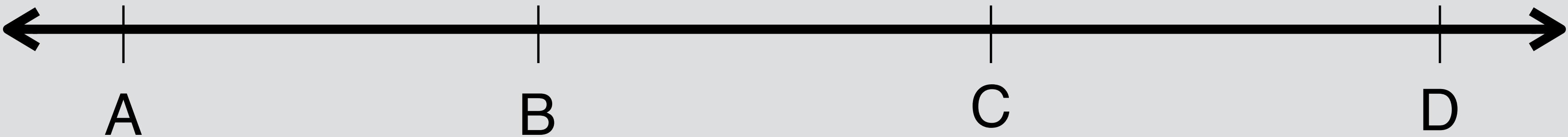
Track but store data locally on the device  
Company gets aggregate reports

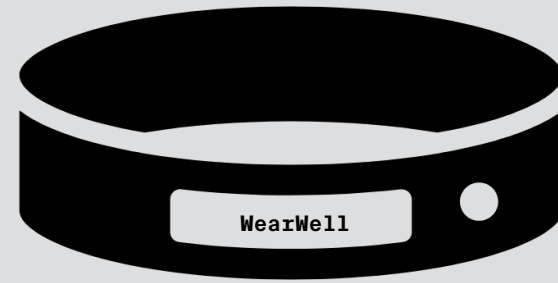




# Option B

Track but store data temporarily  
Company gets aggregate reports

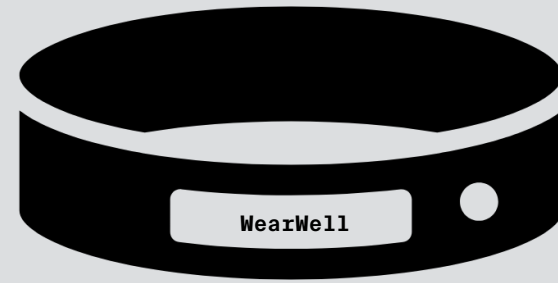




# Option C

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

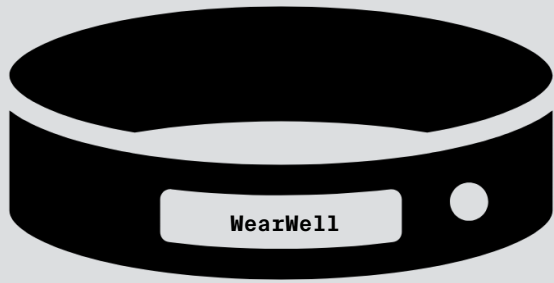




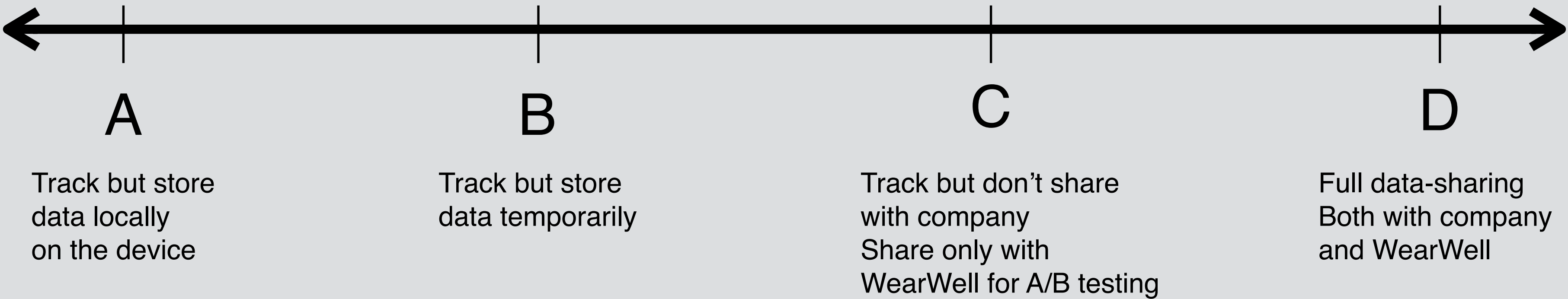
# Option D

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

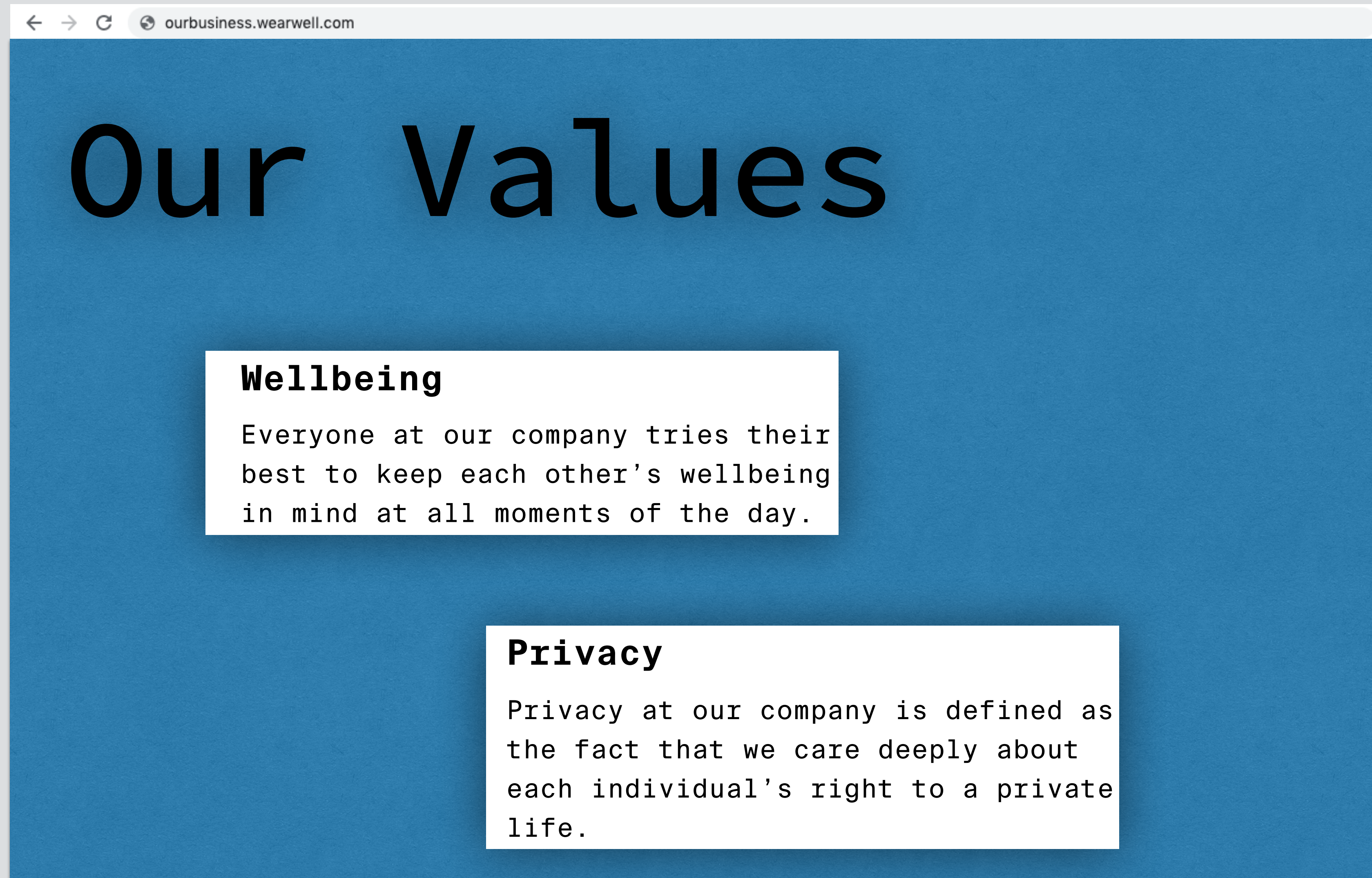


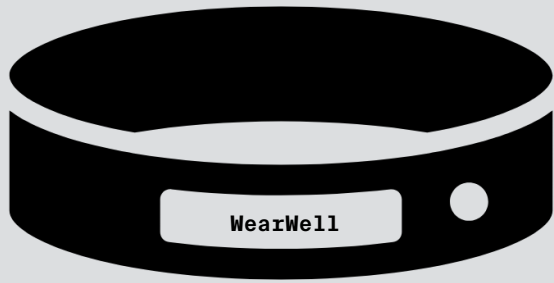


# the axis of options

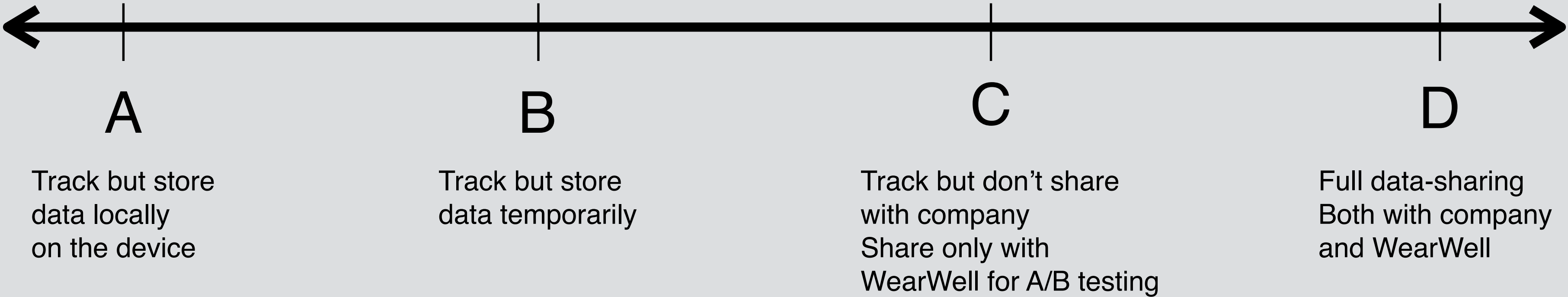








# the axis of options





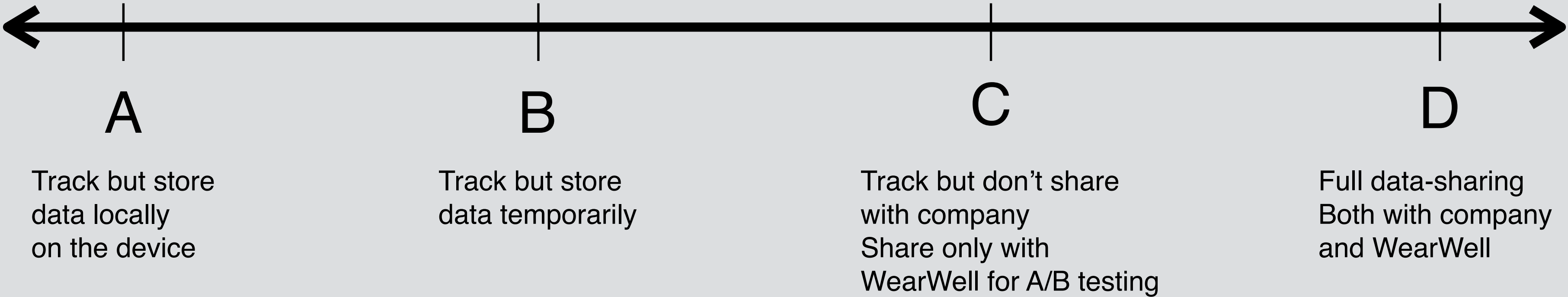
## User Interview

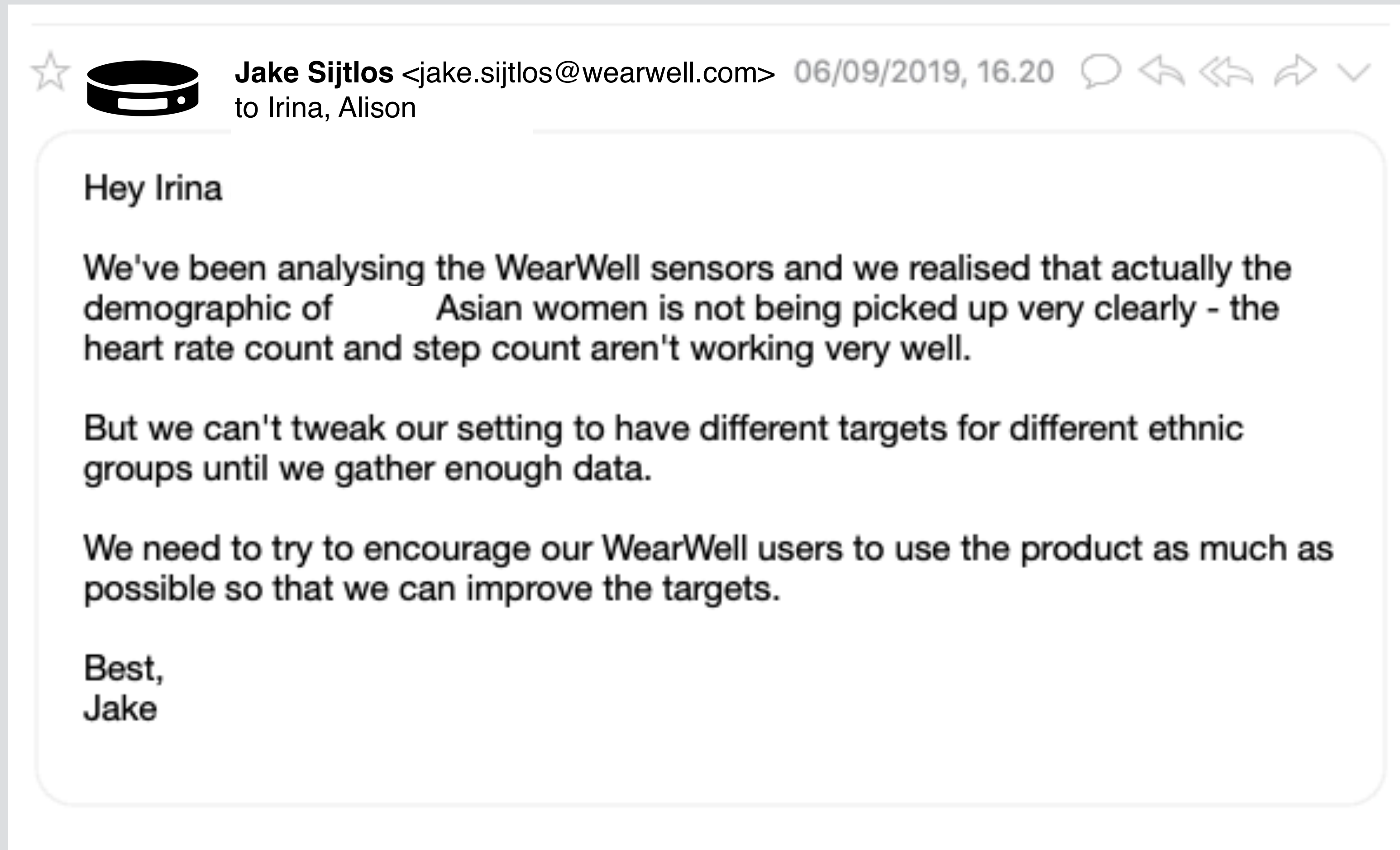
Let's have a user interview with one of the employees in a company that is currently testing the WearWell prototype. She works at the Sales Department and she's a mother of two.

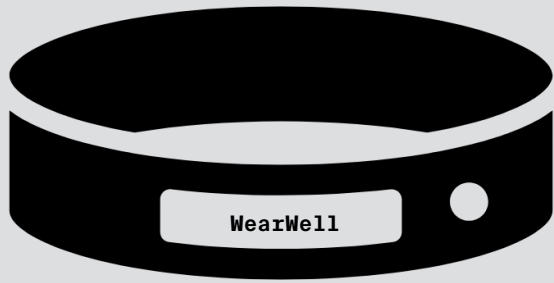




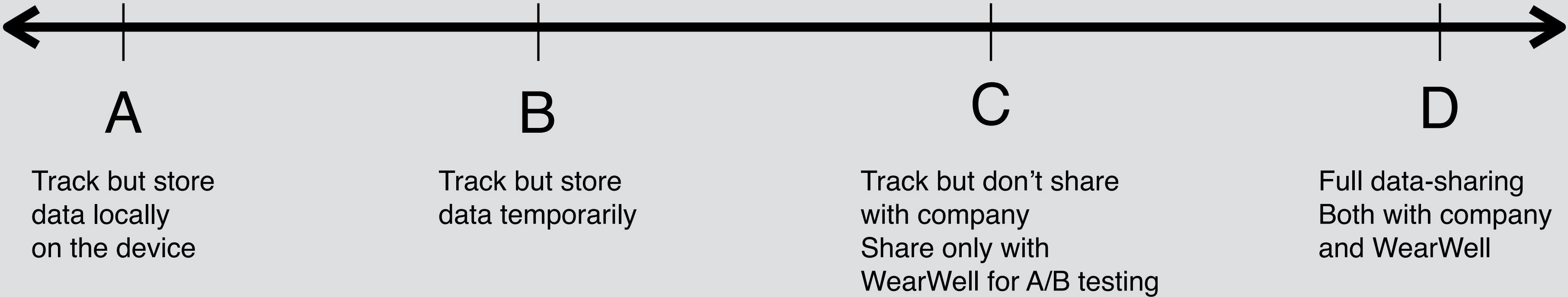
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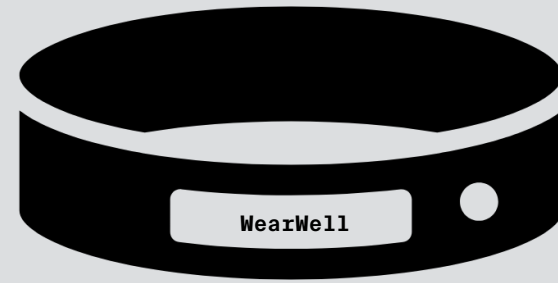




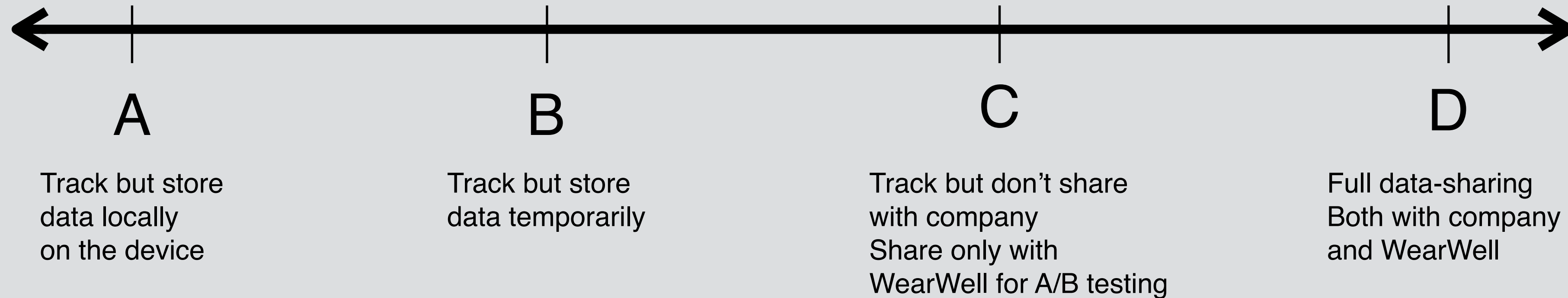


# the axis of options

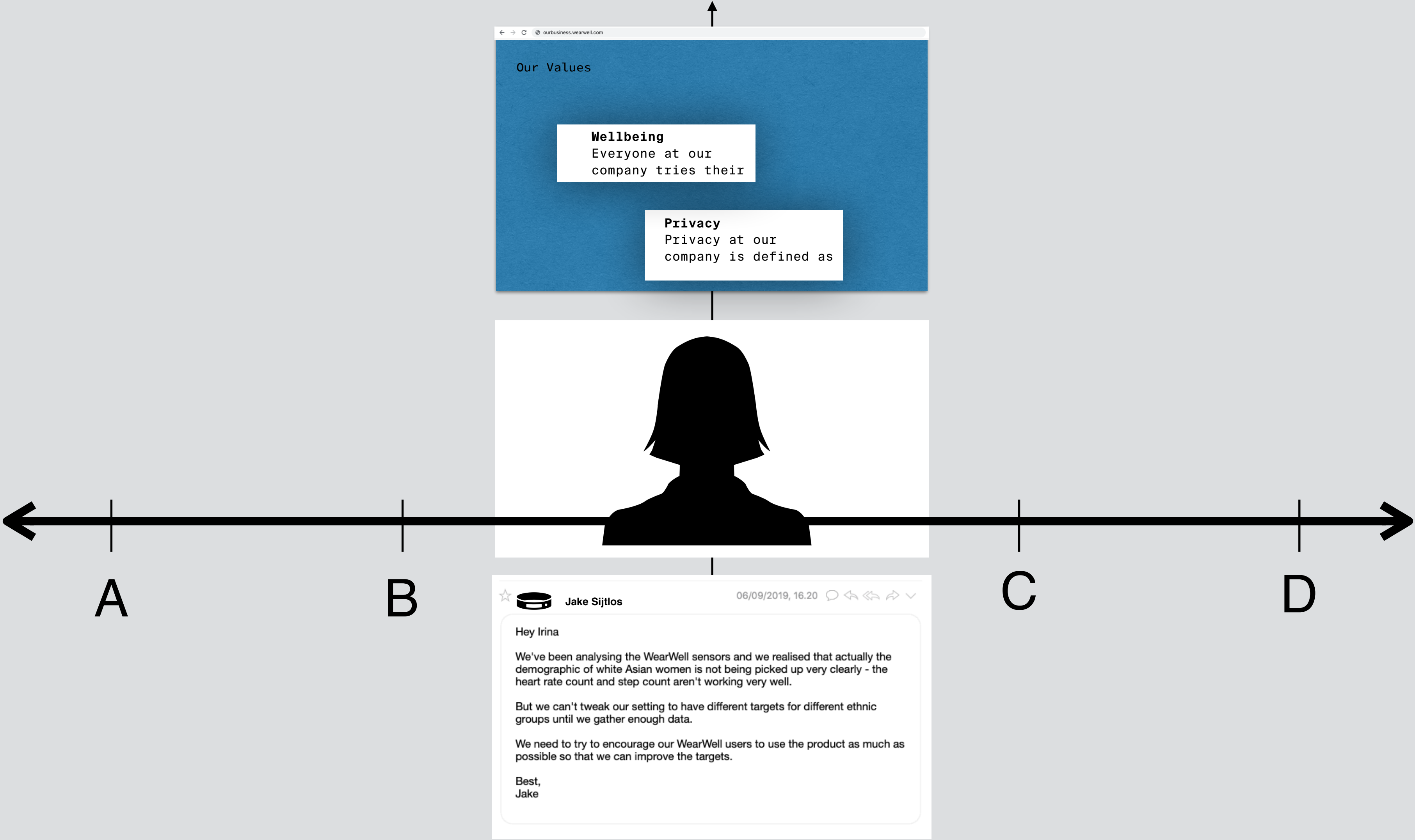




# so what did we do here?



moral simulation / interventions



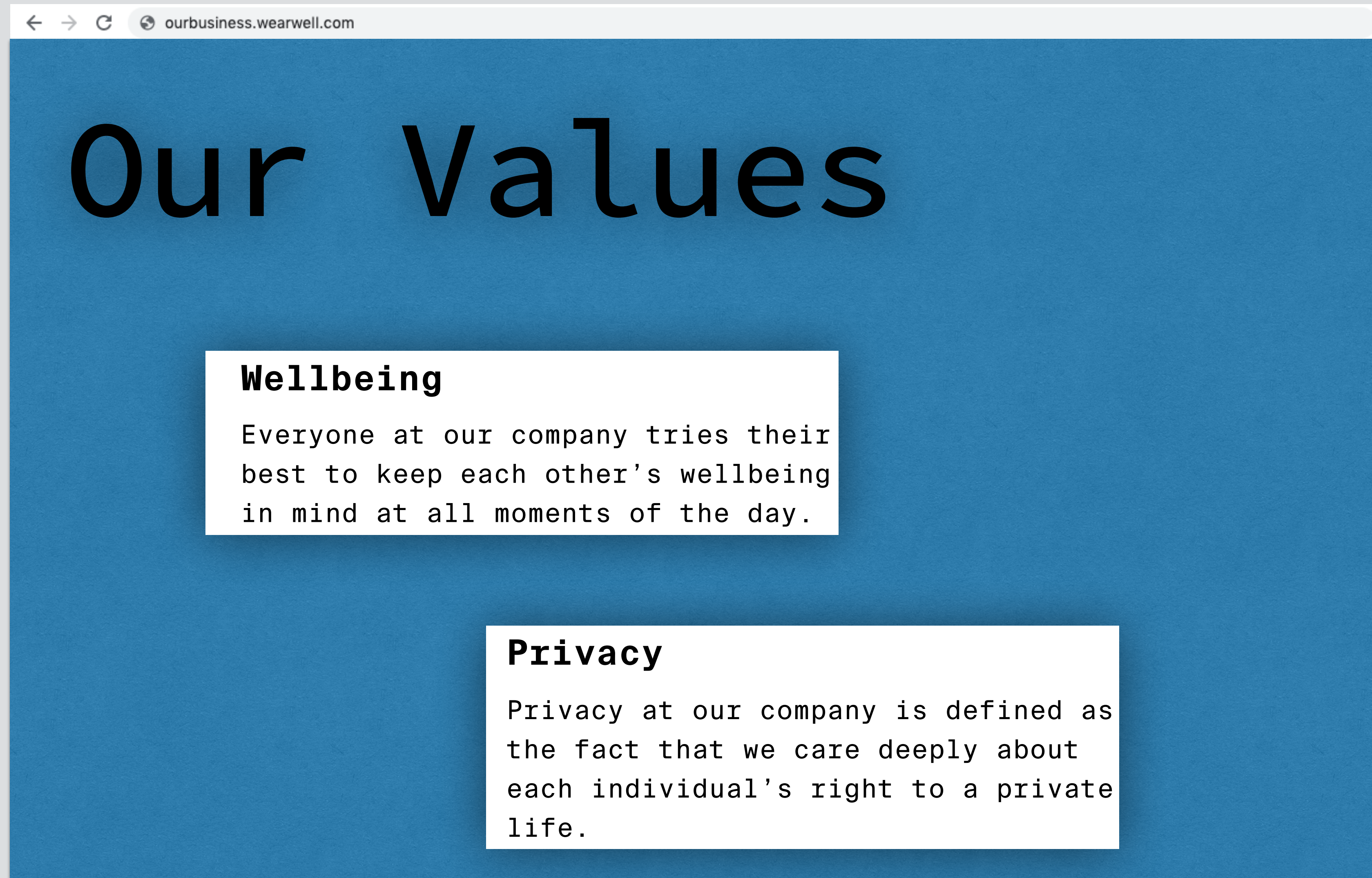
Design Dilemmas in Connected Technologies



# ethics as interventions

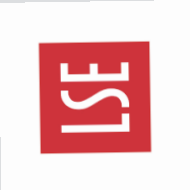
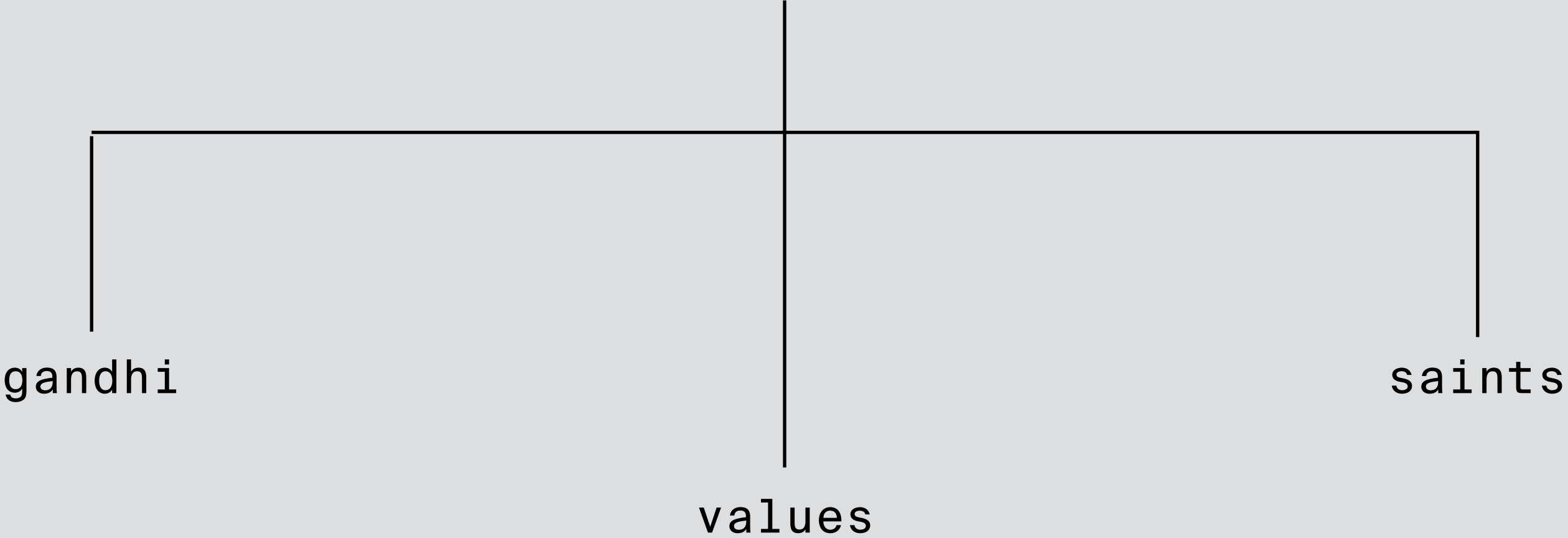
Alison Powell & Irina Shklovski







# virtue



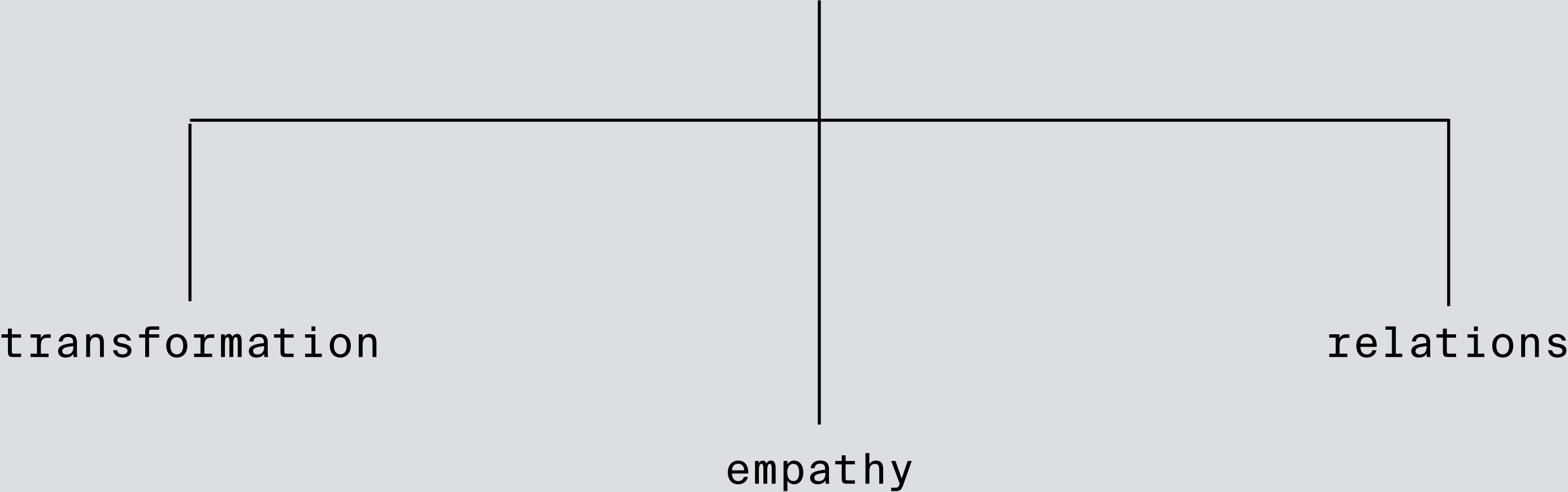
\*thank you: James Zhou

## user interview

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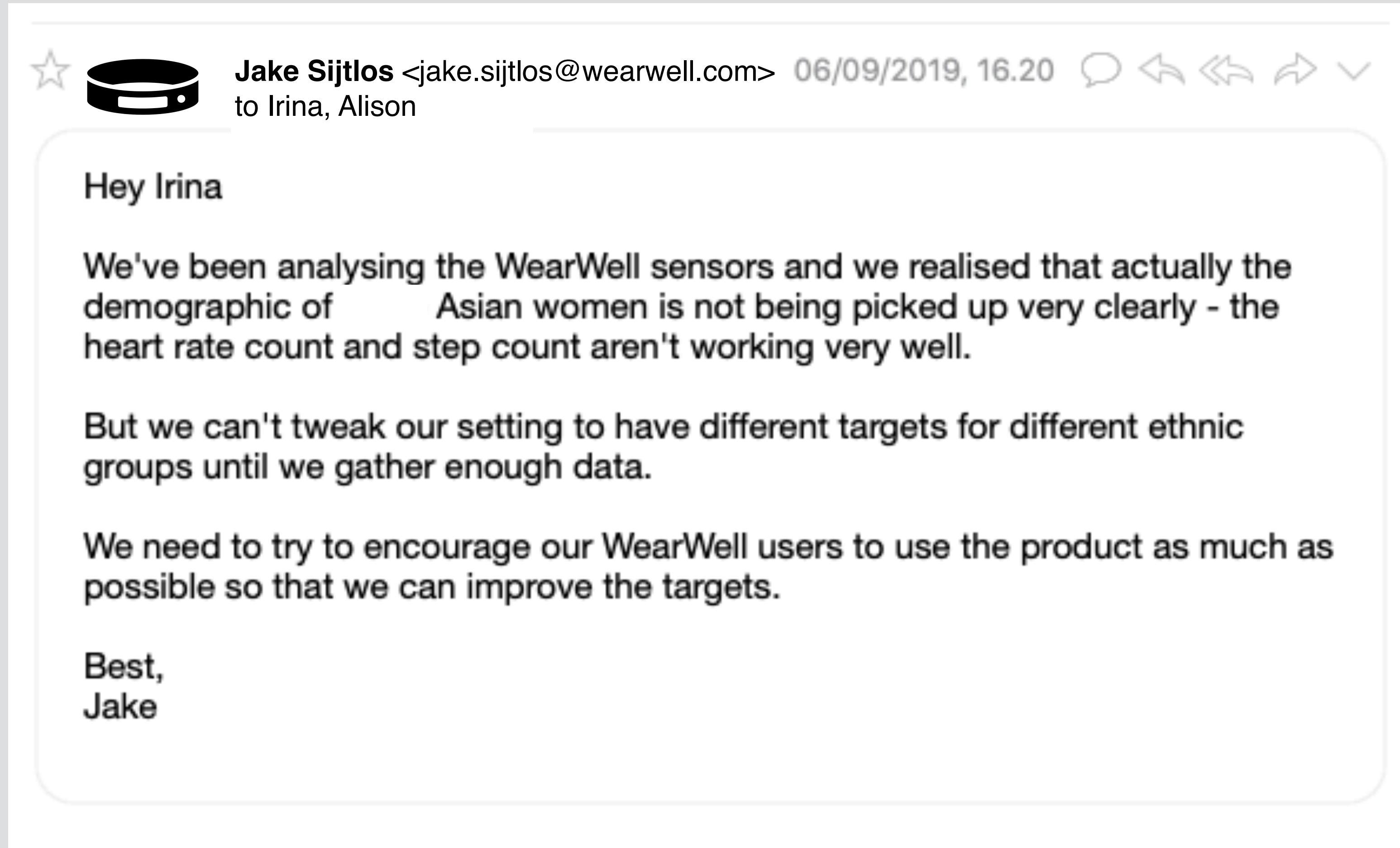
# care



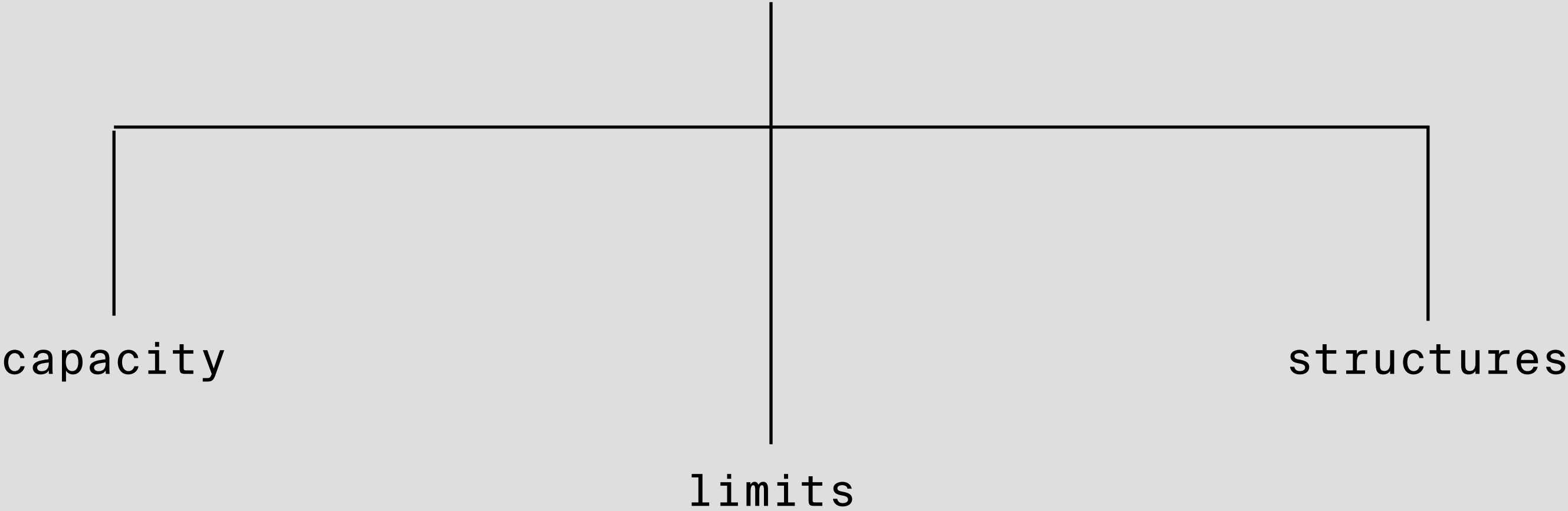
Alison Powell & Irina Shklovski



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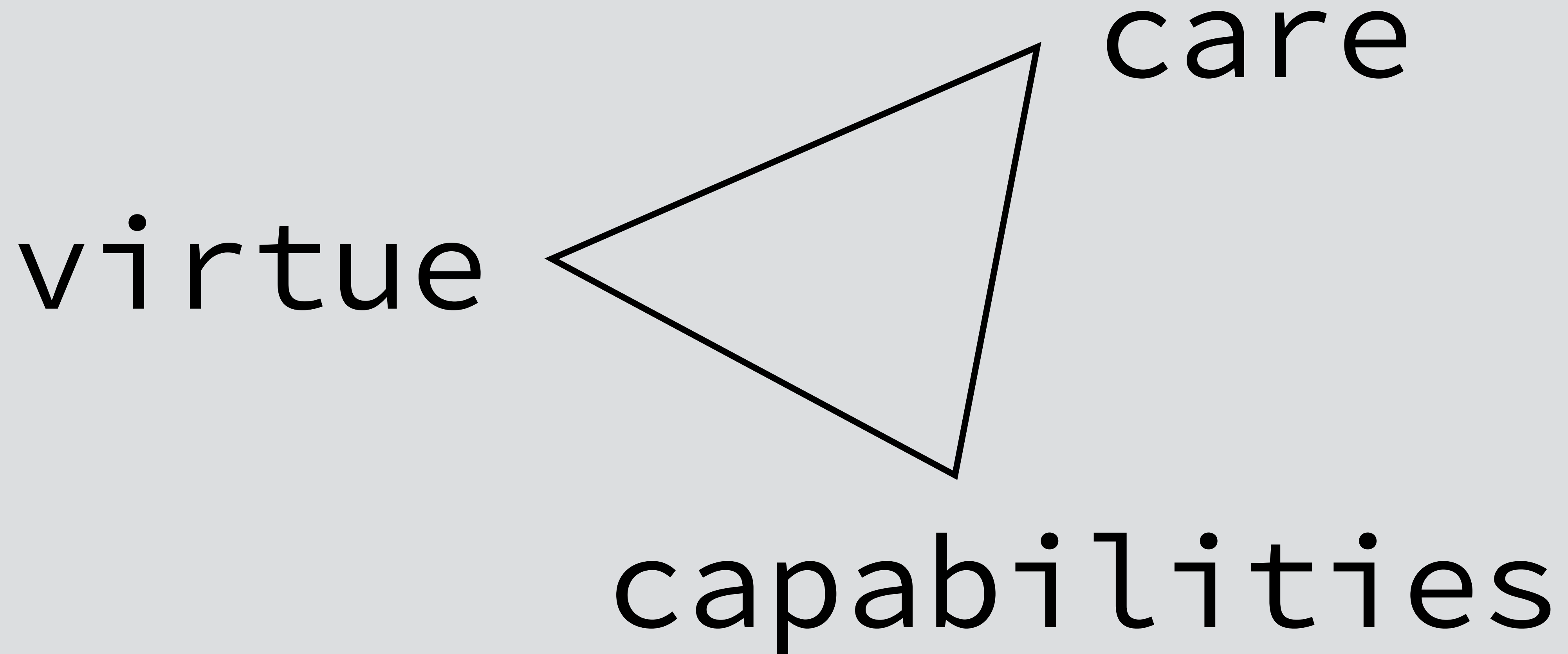
# capabilities



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\*thank you: James Zhou



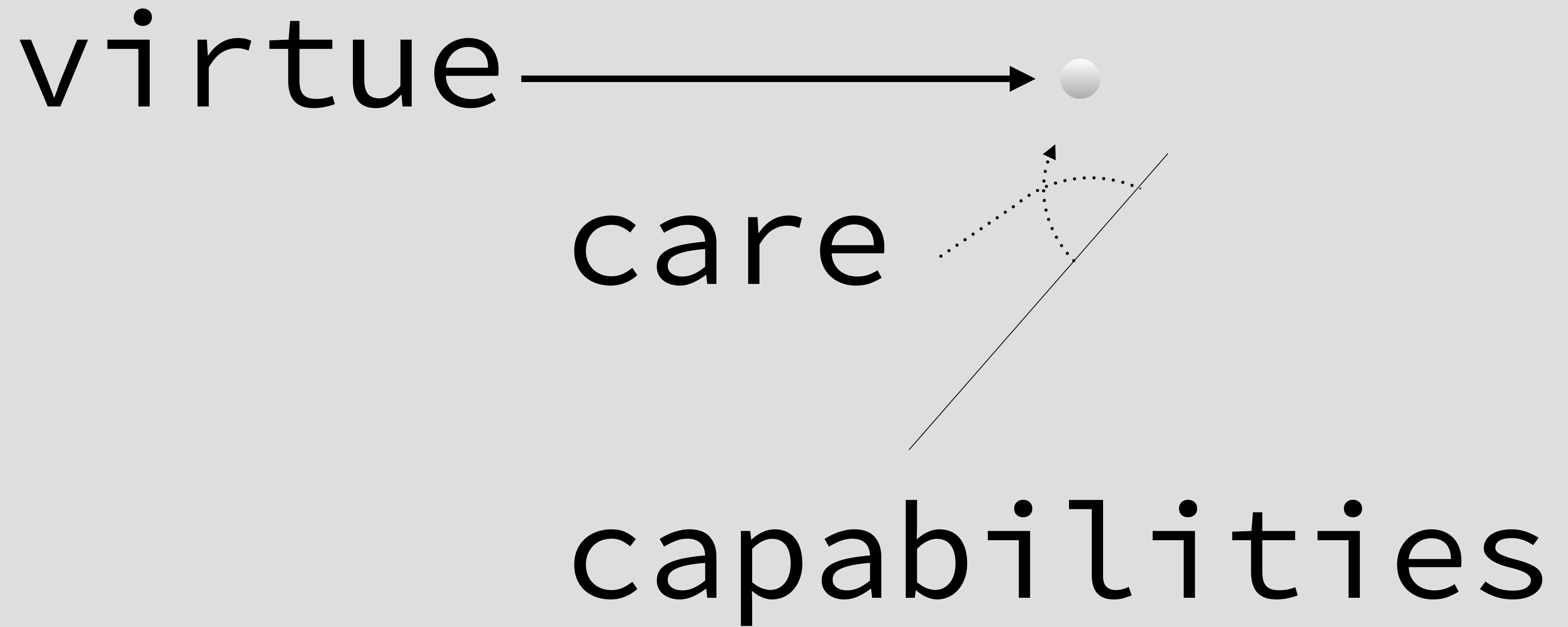


virtue —————→ ●



virtue —————→ ●

care ↻



# moral simulation interventions as Ethics the framework discussion

# ethics, a journey

Alison Powell & Irina Shklovski

Q + A

Alison Powell & Irina Shklovski



# VIRTEU: Tools for ethical reflection

# Thank you!

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