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Privacy and IoT

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1. Some thoughts on privacy

2. IoT and its implications

Some thoughts on privacy

- "Disclosure, with consent, in context, and with expectations concerning scope" - Internet Society
- Privacy is a matter of contextual integrity - Helen Nissenbaum
- Taking something published to one audience and publishing it to a wider-than-intended audience can be a violation of privacy - danah boyd (@zephoria)

Why is this stuff hard? (not an exhaustive list)

- Principles: highly variable, and usually left implicit
- Social: economics and habits tend to mitigate against privacy
- Implementation: multiple stakeholders and their interests have to align
- Technology: a clumsy way to express social subtleties
- Politics: societal benefits of privacy are undervalued

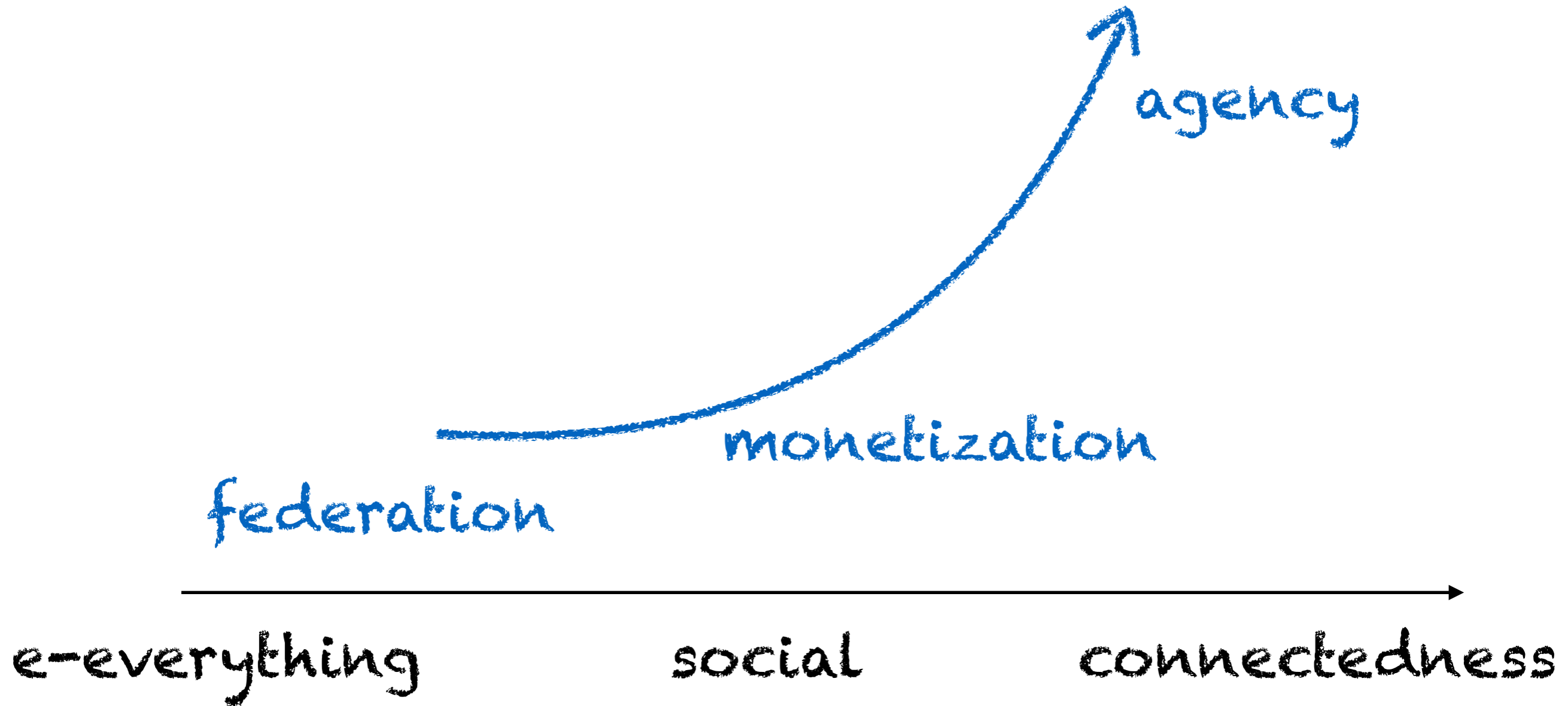
Where is the Internet going?

e-everything

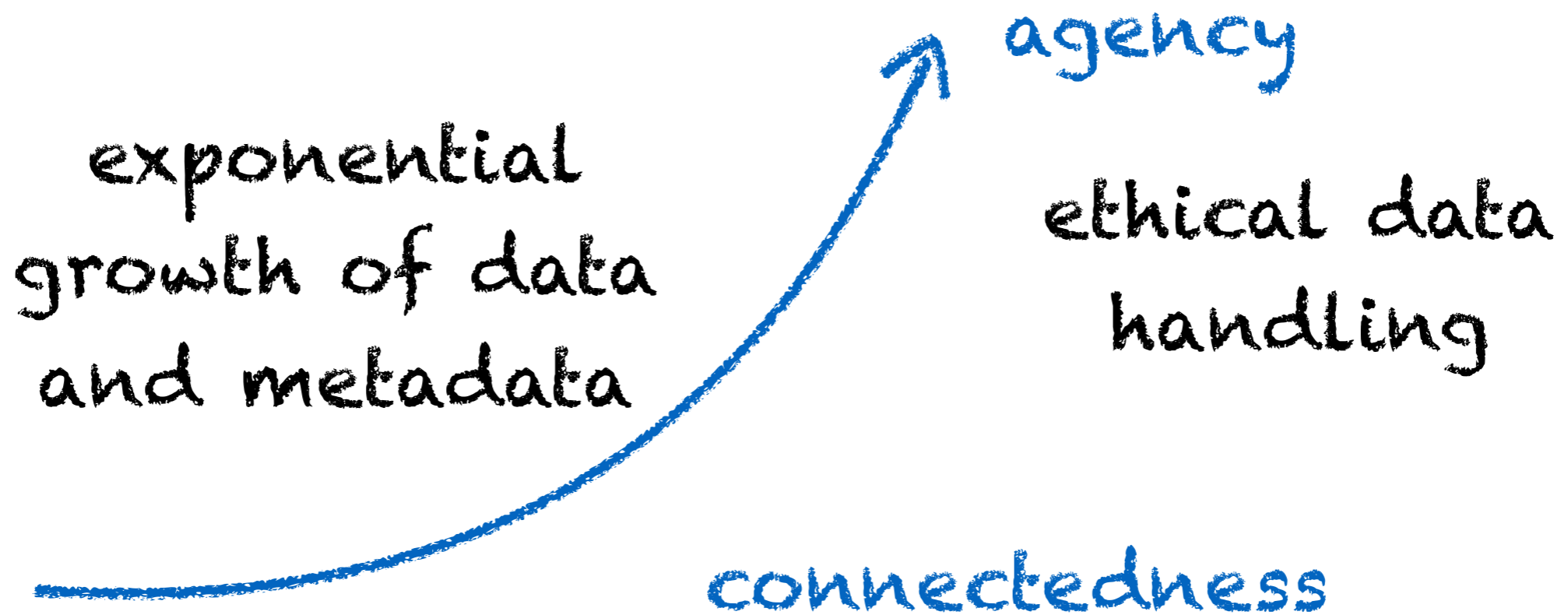
social

connectedness

Where is the Internet going?



What kinds of issue arise?



Ethical Data Handling

... with IoT as a useful lens

- IoT and consent
- IoT and autonomy
- IoT and agency*

* ... whatever it is that puts a user's intentions and preferences into practice

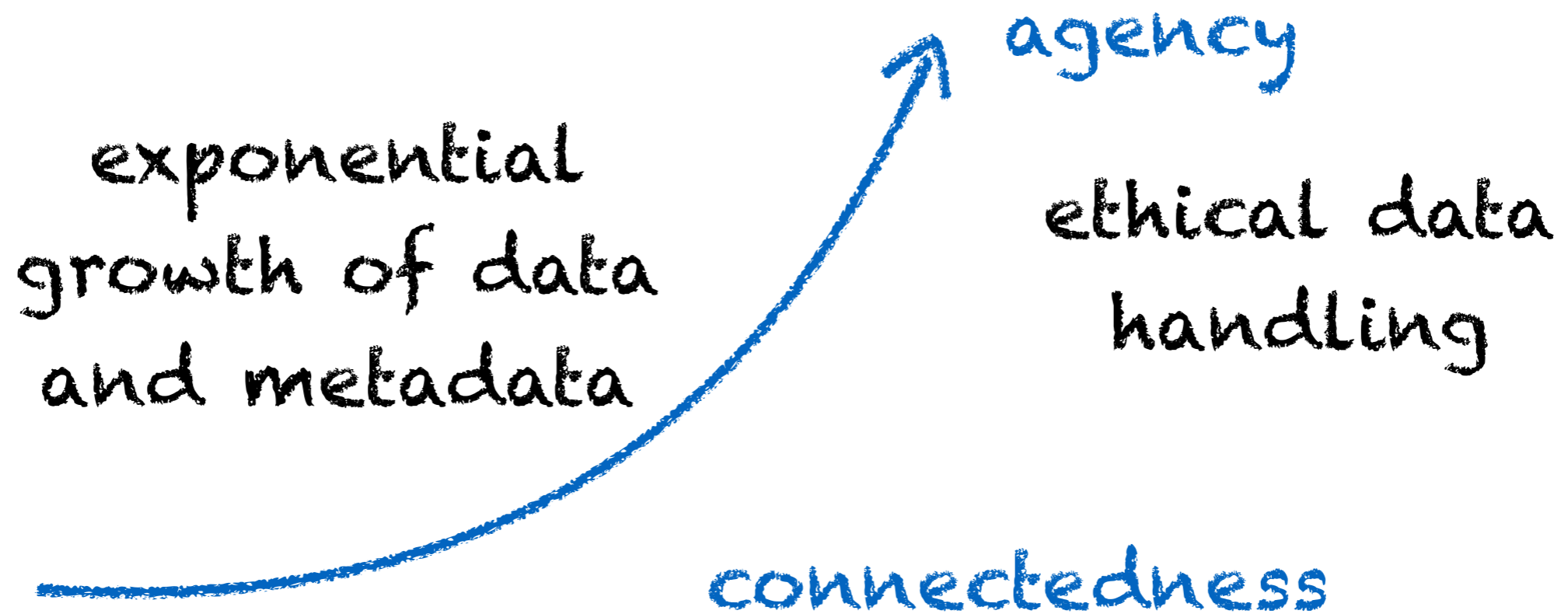
What kinds of issue arise?

- Consent
 - Wearables, implants, pre-diagnosis
- Autonomy
 - Driverless vehicles
 - Algorithms
- Agency
 - User agents: scalability and control?
 - Insertion into current business models

Practical steps towards solutions

- IRM
 - Understanding the relationship basis of identity
- UMA
 - Simple, granular consent and control
- MVCR
 - Pragmatic approach to consent

So welcome to the future...



Thank you

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