DEcentralised Citizens Owned Data Ecosystem:

Data sovereignty for citizens decode

Francesca Bria – Barcelona CTIO, DECODE Project Coordin<mark>a</mark>tor

decodeproject.eu

Preserve the digital sovereignty of European citizens decode

Who is DECODE? 14 partners, 6 countries (ES, NL, UK, FR, IT, SW)

DECODE provides tools that put individuals in control of whether they keep their personal information private or share it for the common good



Since January 2017 US tech firms have grown by an amount greater than the GDP of Norway (\$950BL).

China Alibaba &Tencent (\$450BL).

Giant investment, sovereign funds, & new tech Funds:

\$100BL Vision Fund (SoftBank+ Saudi Arabia); \$10BL investment in Uber.

THE LARGEST COMPANIES BY MARKET CAP

The oil barons have been replaced by the whiz kids of Silicon Valley







DATA IS THE RAW MATERIAL OF THE 21st CENTURY "Who owns the data will decide in the end whether democracy, a participatory social model and economic prosperity can be combined" Angela Merkel

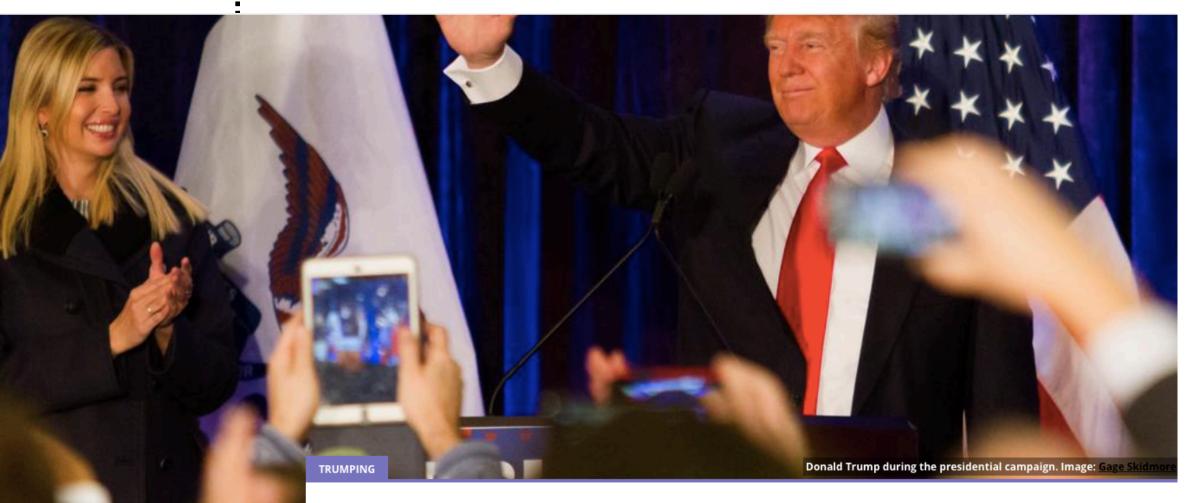
Data commons vs data extractivism

WHAT CAN GO WRONG?

HACK BRIEF: UBER PAID OFF HACKERS TO HIDE A 57-MILLION USER DATA BREACH



WHAT CAN GO WRONG?



The Data That Turned the World Upside Down

WHAT CAN GO WRONG?

Data protection Opinion

Giving Google our private NHS data is simply illegal John Naughton

The Royal Free hospital's attempt to gloss over its transfer of more than a million health records to the AI developer DeepMind is boneheaded and dishonest



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Why DECODE?

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Current paradigm

- Data is a fictitious commodity, that can be sold and traded in markets
- Data handling & monetization is opaque
- Even if there is regulation, there is no possible enforcement
- We produce the data, they own it
- Benefits of data sharing are privatized ("surveillance capitalism")

Intended paradigm

- Data is a common resource & infrastructure where to build upon (new services)
- Data handling and usage is transparent & privacy-friendly
- Data is shared according to rules set by common (enforceable) governance
- Shared benefits of data sharing
- New political, economic, and legal regime that recognize social and communal rights to data

Where is DECODE relevant? (1/n)

9

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Sharing Economies... ?!

but with whom are we really sharing our needs and desires?

Can we build platform cooperatives & alternatives to current predatory platforms?

Where is DECODE relevant? (2/n)

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Internet of Things...

communicating on our behalf...

but who are they speaking with and about what?

Can we have data entitlements for the IoT?



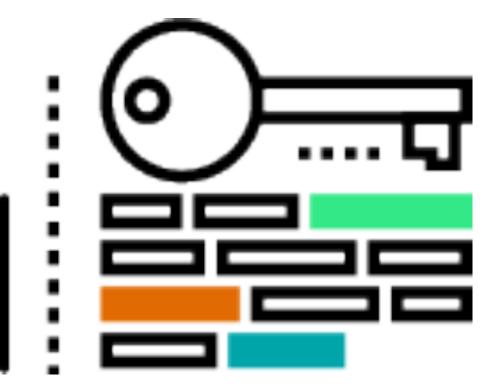
Where is DECODE relevant? (3/n)

Partecipatory democracy...

One can **detect issues** and collaboratively **solve** them!

One can **decide in a democratic way** based on trust

but if data is a monopoly of a few, **collective intelligence** is lost...



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Challenge: Enabling the Data Commons

Can we **regain control** of our data?

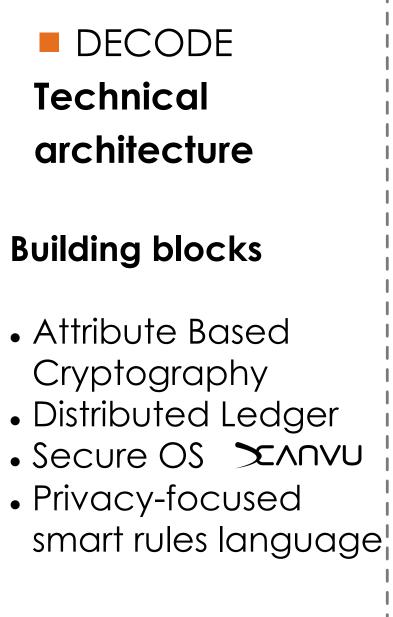
We want to decide **who** to share it with, under which **rules**, **when** and for **what** purpose?

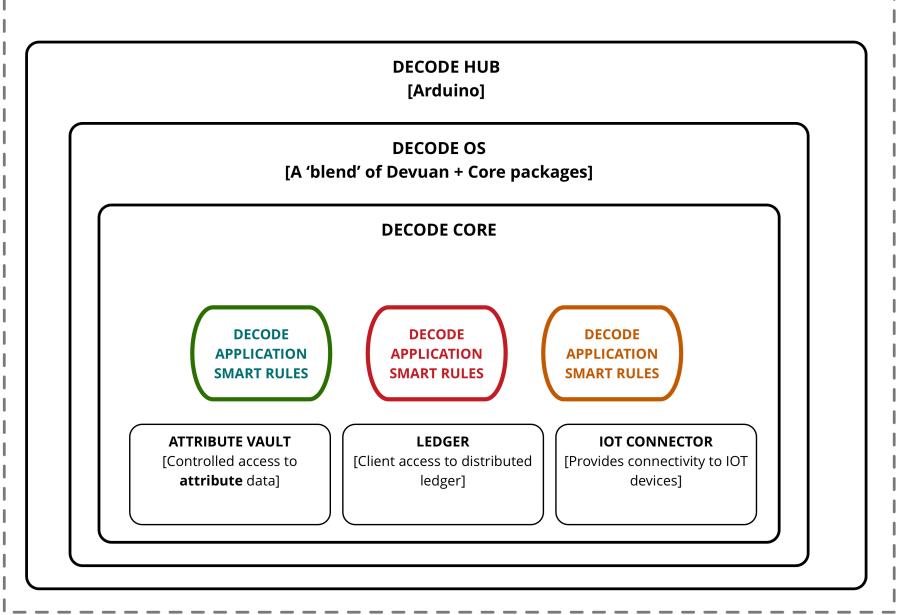
Data rights & entitlements

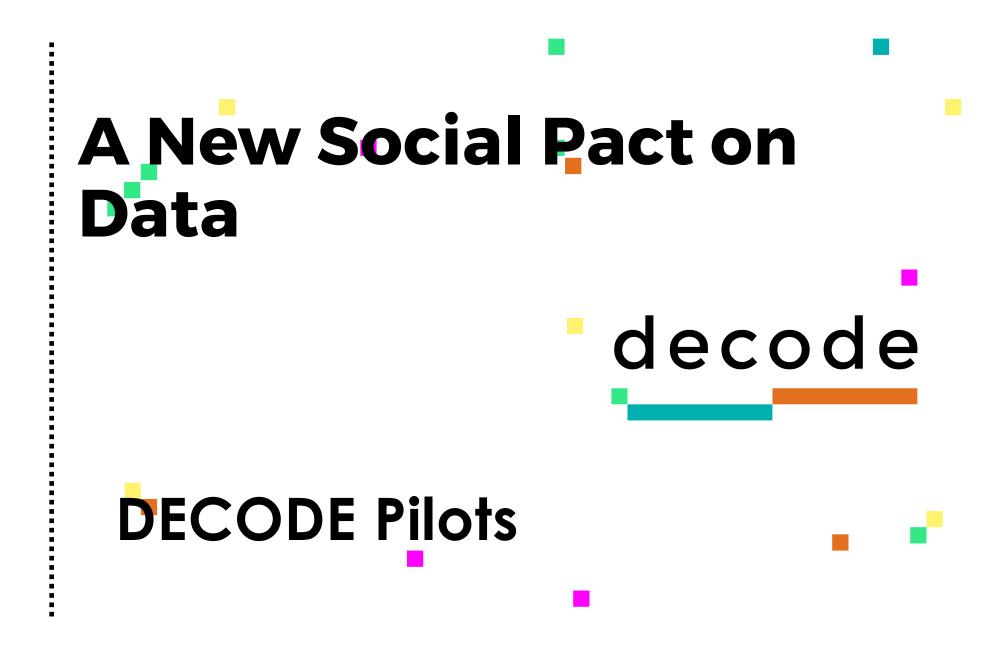
In short: Real data sovereignty



DECODE NODE [CONTROLLED EXECUTION ENVIRONMENT]







Methodology

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 "Agile Inceptions"
Co-design with community

Community engagament + Real Needs + Feasability



Elevator pitch + Personas + User journeys + Tech sessions + RAID analysis

BCN data-driven participatory democracy: Idigital + BCNow!

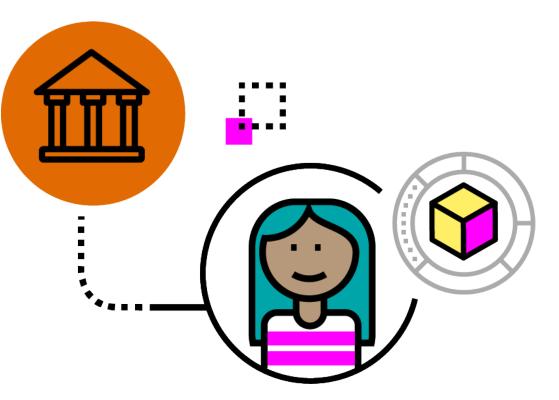
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decidim.barcelona

- Accountability on signing petitions & online voting, yet privacy on political beliefs
- Detection of city problems
- Provide tools to users with similar interests to interact
- Partecipatory budgeting

 Open source platform for partecipatory democracy +30k users



Personalised data commons dashboard- BCNNow

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Visualize personalized & relevant citizen interests

merging public data + data from the commons + personal interests to find/be found by similar profiles while ensuring privacy



BCN: IoT/citizen sensing Data community rights

smartcitizen.me/makingsense

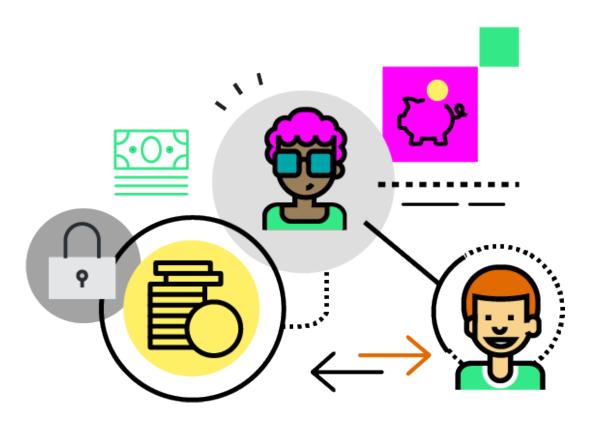
- IoT data might be privacysensitive
- Crowd sensing of a problem with IoT in a community
- Users can decide to whom and under which conditions they share data

SMART CITIZEN

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Advances and experiments in participatory sensing



City digital registry: fair home rental

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A verified, anonymous short-stay rental register. By only revealing the relevant attributes: (1) I live in the house that I let (2) I have not rented it out for more than 60 days.

Return benefits to community to mitigate effects of tourism



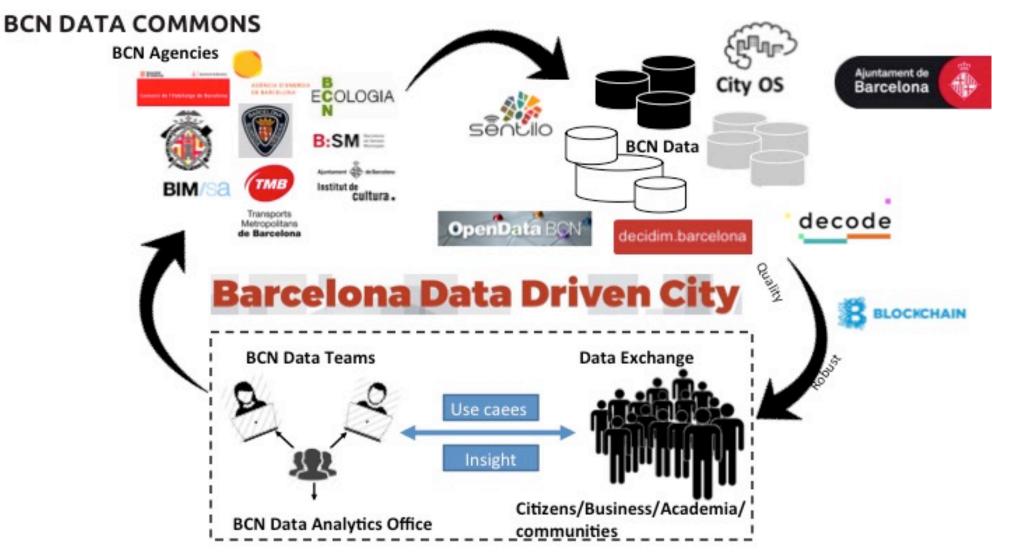
City of Amsterdam

Amsterdam, other EU cities, urge Brussels to take action on Airbnb data

Schiphol-Oost

DECODE implementation strategy

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EUROPE MUST SHAPE A PEOPLE CENTRIC DIGITAL FUTURE





- Make GDPR an opportunity
- Mandate data and algorithmic transparency
- New Rules against market dominance of tech companies & platform giants (Fair competition/antitrust)
- Fund decentralised, privacy-enhancing, rights preserving digital infrastructures
- Ensure Data sovereignty of citizens

We need ambitious & structural interventions that will tackle the question of data ownership & who is going to own AI services built with that data Contact us!

info@decodeproject.eu

www.decodeproject.eu

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