DEcentralised Citizens Owned Data Ecosystem:

Data sovereignty for citizens decode

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decodeproject.eu
Preserve the digital sovereignty of European citizens
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.
DATA EXTRACTIVISM
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
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
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.
Why DECODE?

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)

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)

Internet of Things… communicating on our behalf…

but who are they speaking with and about what?

Can we have data entitlements for the IoT?
Participatory 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…
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

Technical architecture

Building blocks

- Attribute Based Cryptography
- Distributed Ledger
- Secure OS
- Privacy-focused smart rules language
A New Social Pact on Data

DECODE Pilots
Methodology

- “Agile Inceptions”
- Co-design with community

Community engagement + Real Needs + Feasability

iDIGITAL SESSIONS
Proto Personas, Empathy Mapping, Elevator Pitch & User Journey

Elevator pitch + Personas + User journeys + Tech sessions + RAID analysis
BCN data-driven participatory democracy: ldigital + BCNow!

Decidim Barcelona

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
- Participatory budgeting

- Open source platform for participatory democracy +30k users
Personalised data commons dashboard - BCNNNow

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 privacy-sensitive
- Crowd sensing of a problem with IoT in a community
- Users can decide to whom and under which conditions they share data
City digital registry: fair home rental

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

Amsterdam, other EU cities, urge Brussels to take action on Airbnb data
DECODE implementation strategy
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!

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