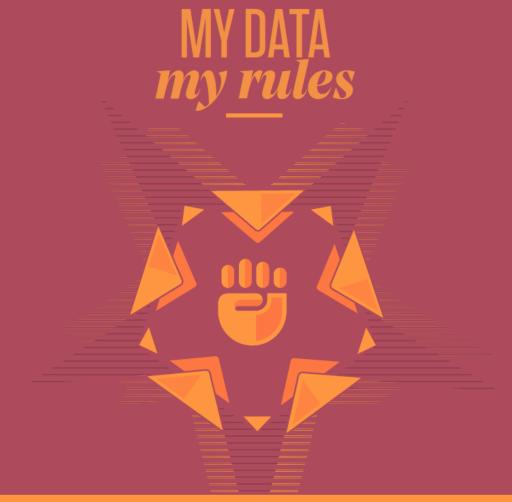


Institute for Social Innovation (IIS)



ACUP ASSOCIACIÓ CATALANA D'UNIVERSITATS PÚBLIQUES



From data extractivism to digital empowerment



# Why?



The web has evolved into an engine of inequity and division, swayed by powerful forces that use it for their own agendas. People want apps that help them do what they want and need to do—without spying on them, Apps that don't have an ulterior motive of distracting them with propositions to buy this or that"

Tim Berners-Lee, 2018<sup>1</sup>



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Tim Berners-Lee, 2018<sup>1</sup>

### **TECHLASH**

Word of the year 2018

### What?

How can digital platforms empower digital users with their own data?

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What other data uses can be unlocked? (monetary and non monetary)

How can digital platforms empower digital users with their own data?

What other data uses can be unlocked? (monetary and non monetary)

What if we turned data into a common good?

### How?

# Executive Summary & Introduction Context: empowerment and disempowerment in the digital era



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Executive Summary & Introduction

Context:
empowerment and disempowerment in the digital era

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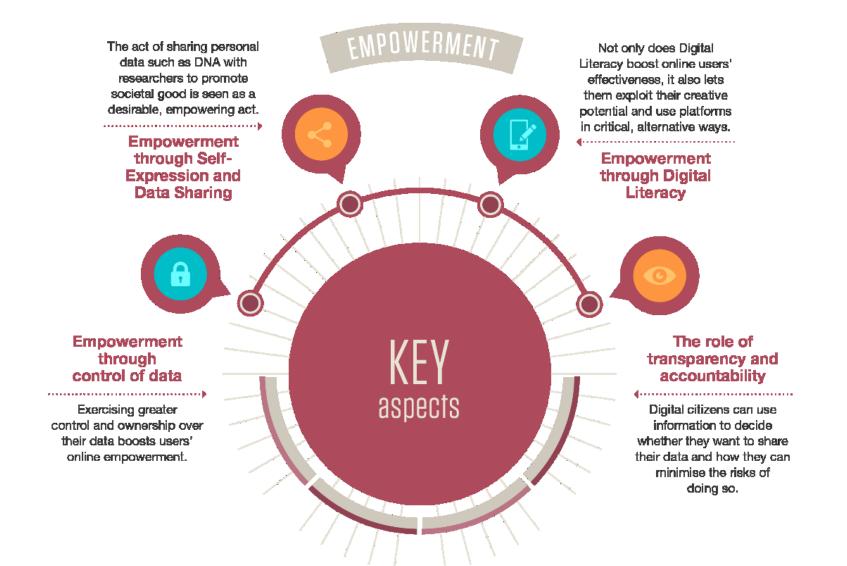




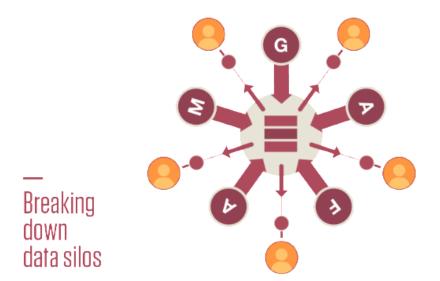




### **Empowerment?**



# The four principles



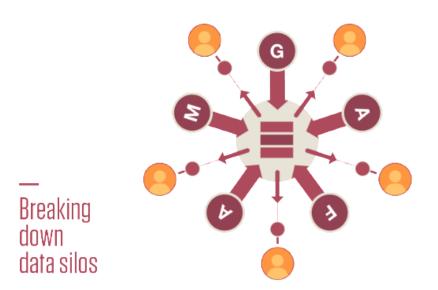
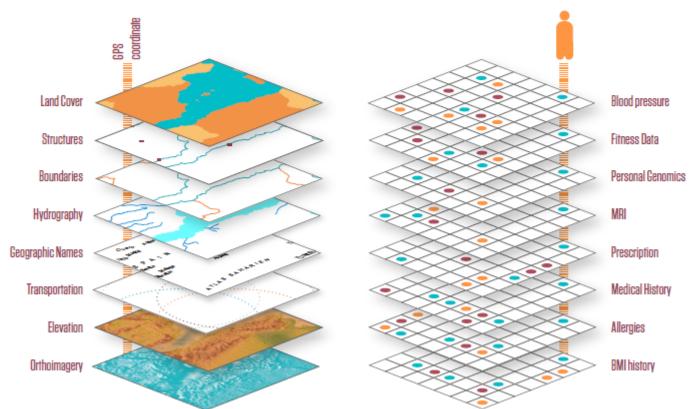


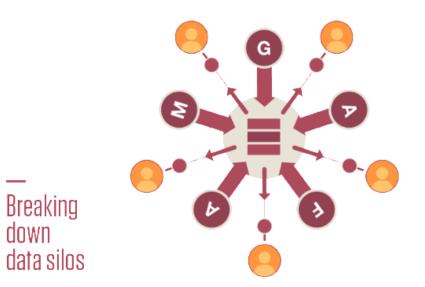


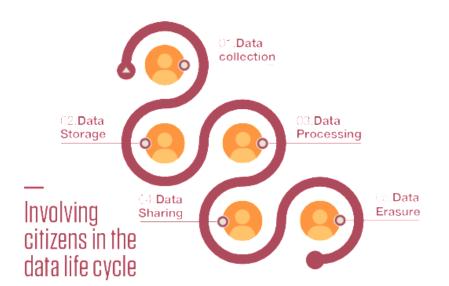


IMAGE 14 - Analogy between the layers of information in a map and in the personal and health data that can be stored

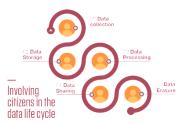


All that is needed is an integration point that relates all the data. In the case of a map, the aggregation is of GPS co-ordinates, whereas in the case of Health Data, it is the individual (and his/her blood pressure, fitness data, personal genomics, MRI, prescriptions and medical history)











### PUBLIC SECTOR Estonia Digital Society

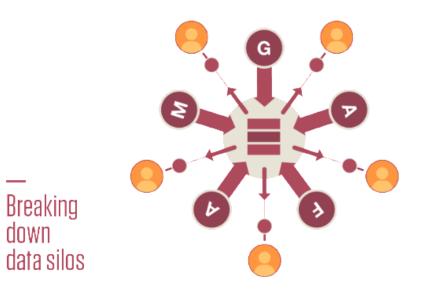


### PRIVATE SECTOR Cozy Cloud

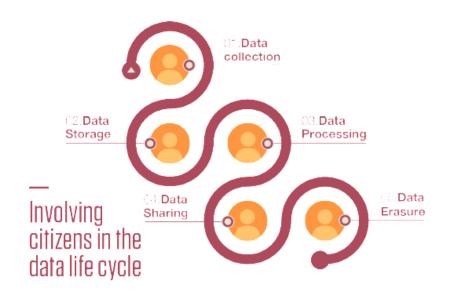


### DATA CO-OP MIDATA

	Citizens	Government	Private organizations	Users	CozyCloud	Third parties	Users	MIDATA Coop	Third parties*
Data collection	Once-only principle followed;	Proactive data collection; no consent needed for official purposes	Request on X-tee	Consent, through the APIs and connectors	Not proactive data collection	Only under consent	Consent, through manual entries, PHR or apps and wearables	No data collection	Only under consent, by prescription (physicians and alike)
Data storage	On information systems of X-tee members;	No centralised database; each service has its own information system	Held in private information system, connected to X-tee	On Cozy servers (in France) or s elf-hosted	Offers OVH hosting (larger in Europe)	No storage	MIDATA IT platform	MIDATA IT platform	MIDATA IT platform
Data processing	None	Transparent but consent not needed for mandated activities	Permission of government needed for specific uses	Data remix on your choice	None	Only under consent	Some data combination and visualisations in progress	No processing	Yes, under consent and linked to specific projects
Data sharing	Visible to citizen through State Portal	Among governmental agencies and service providers	Government approval needed	User's decision	None	Only under consent	Yes, through the platform and with projects curated by the Ethics Committee and advised by physicians and other health professionals	Restricted by owner's consent	Companies licensing data will be forced to return the product of their studies into data commons
Data erasure	No option for legal uses; citizen's right for non-necessary purposes	Not possible in most cases	Citizens can demand it	User's decision	None	Only under consent	Anytime by the user/member	Anytime by the user/member	Anytime by the user/member









### How to use the report

SHORT CASES

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Key aspects		Four principles	5 variables of Social Innovation		
A	Empowerment through control of data	Breaking down data silos	Social Impact		
<b>3</b>	Empowerment through Self- Expression and Data Sharing	Differentiate data collector & service editor	Financial Sustainability		
	Empowerment through	Involving citizens in the data life cycle	Innovation type		
	Digital Literacy	Money is not the only reward	Cross-Sector Collaboration		
•	The role of transparency and accountability	Money is not the only reward	Replicability and Scalability		

SHORT CASES























### Mydex CIC

through control of

through Self-

Data Sharing

The role of

accountability

transparency and

Expression and

#### **FOUNDATION**

2007 - Scotland

LEGAL FORM

Community Interest Company (CIC)

**PRIZES & AWARDS** 

ISO27001 and FairData Certified

Breaking down

▷ Differentiate

service editor

▶ Involving

life cycle

data collector &

citizens in the data

data silos

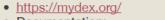












- Documentation: https://dev.mydex.org/
- Community: https://community.mydex.org/
- Publications: https://medium.com/mydex
- https://twitter.com/mydexcic
- https://www.linkedin.com/company/ mvdex-cic
- https://www.youtube.com/user/ Mydexcic

#### DESCRIPTION

Mydex CIC wants to empower every individual with his own data so that it can be used to organise and manage one's life better. It does this by enabling easy, safe, secure information exchange between individuals and service providers in ways that protect the individual's privacy and data. In doing so, Mydex CIC wants to help establish a fairer, more efficient and more innovative personal data ecosystem that realises its full potential for users and in socio-economic terms.

### SOCIAL IMPACT



Mydex CIC is present throughout Scotland, serving over 750,000 citizens and 220 collaborating organisations. They have identified over 430 use cases creating re-usable solutions to problems involving personal data, typically covering public services, health and social care, employability, financial services, utilities.

Glasgow Included is a good example: a single integrated service where individuals can access many services catering to their specific circumstances via a single App powered by a personal data store.

Proven impacts include reduction in friction, effort, risk and cost leading to improved outcomes, efficiency, effectiveness and satisfaction. Users report a greater sense of coherence in their lives, and greater choice and access.

### FINANCIAL



Individuals have free access to and use of Mydex CIC tools and a platform for the management of their identity, and the collection, storage, distribution and control of their personal data.

Organisations pay a low one-off fee for every system they connect to and per citizen they connect to over the platform. Thereafter they pay an annual support fee based on the volume of services and citizens connected.

#### INNOVATION TYPE



- Enable a safe, secure and easy-to-use personal data ecosystem (including MydexID and a Personal Data Store) with the citizen as the integration point. They can view their contents and manage their connections.
- The majority come via the services they are working with, who are accessing and storing data in the personal data store.
- This allows clusters of organisations to work together serving a common cohort of citizens seamlessly, safely and securely under a trust framework and data sharing agreements that are GDPR-compliant.

#### CROSS-SECTOR COLLABORATION



The Mydex CIC platform is sector neutral and work across public, private and third sector and all sub sectors.

They have been working with the Digital Health and Care Institute across the public, private and third sectors for 5 years now to help develop truly personcentric health services where data from many specialists is incorporated in the individual's health record.



The platform has been designed to be global in application and is already being used across regions and cities internationally. As a secure certified cloud-based distributed platform, it should scale easily and safely.

















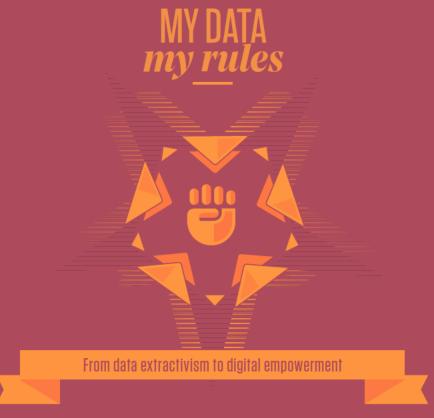


What the foregoing reveals is that citizen empowerment is now a burning issue. There are reasons for thinking that it is set to arouse great social and business interest. It may well be that digital awareness beyond data extractivism, is, from now on, an unavoidable discussion



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Liliana Arroyo - Obaid Amjad - David Murillo





