HATDeX

Data Ownership Rights for Data Mobility and Innovation

Irene Ng
Director, HATLAB and Professor of Marketing and Service Systems, WMG, University of Warwick
CEO, HATDeX
Users share data not through consent but the actual first-party licensing contract, much like they would license the music they create.
PERSONAL DATA EXCHANGE ONLINE HAS EXPLODED

Friction
(Regulation, Backlash, Engineering)

Global Datasphere, x100 (ZB)

Daily Data Interactions / Connected Person (max 1,400)
APPLICATIONS NEED MORE DATA FOR INSIGHTS AND SERVICES

CURRENT MODEL OF DATA MOBILITY

- Duplication of infrastructure costs of database and hosting user profiles and activities
- Multiple privacy and security risks
- Consent fatigue
- Duplication of integration efforts

THE SOLUTION FOR BETTER DATA MOBILITY

A PERSONAL DATA ACCOUNT

- Data direct of users
- Easy requests for more data and insights
- Interoperability between all types of data
The **HAT Microserver** as a Personal Data Account

- to enable individuals to become data controllers and processors in their own right.
- For the first time, the capability of holding, processing and controlling their own data for themselves.
- an “edge node” is critical legally and economically because it is important that its contents fell under existing legal frameworks of licensing digital media and content.
- having database rights isn’t that new—the database sitting in an individuals’ PC hard disk would be theirs and they can do whatever they choose with the contents within it.
- Enable the exchange of the contents within can happen quickly. The speed of such an exchange is part of **data mobility** and is the driver of efficiency and innovation (see UK government report on **data mobility**).

Data Rights and Data Mobility are critical for the use of data and innovating on data services at the edge.

**DATA MOBILITY IS DRIVEN BY** (1) **THE SPEED OF HOW DATA RIGHTS ARE EXCHANGED AND (2) THE ABILITY TO HAVE THOSE RIGHTS IN THE FIRST PLACE**
GDPR rights

GDPR rights for individuals serve to regulate centralised systems because personal data cannot be easily isolated within these systems to give more rights.

**Right to be informed.** Right to be told how their data would be used in a clear and transparent manner.

**Right of access.** Right to ask for their data (although the format is not stipulated so firms can give them an entire spreadsheet or PDF file)

**Right to rectification.** Right to ask firms to correct the information.

**Right to erasure.** Right to ask firms to delete their data.

**Right to restrict processing.** Right to ask firms to restrict its usage

**Right to data portability.** Right to ask firms for their data in such a way that is machine readable

**Right to object.** When users feel the firm is doing something to their data they disagree with, they have a right to object.

**Rights in relation to automated decision making and profiling.** Right to know what information is used to create their profile and where the firm gets its data from.

**Decentralised HAT Microservers provide 5 more “ownership” rights to enable greater data mobility**

**Right of possession.** Having their data stored in a place where they are the only one who have access to the data.

**Right of control.** Being the only ones deciding who gets to use their data and when.

**Right of exclusion.** Deciding who doesn’t get to use or see their data.

**Right of enjoyment.** Being able to use their data for their own purposes whenever they wish to.

**Right of disposition.** Being able to monetise, exchange, profit, license their own data because they own the rights to it.
Why do more rights matter

Fall under existing legal frameworks of digital media and content so that it is not up to every application to decide on the individual’s rights, including Children’s rights and Deceased rights.

Personal data must be ethically sourced. Ethically sourced data is based on meaningful consent but even better, if based on licensing first party rights to an individual’s data direct from the individual. This was why the HATDeX Platform was created around the open sourced HAT Microservers. The platform enables the fast execution of data transactions that preserve data rights of individuals with proper governance rules and clear contracts.
HAT Microserver

Personal Data Account

**FEATURES**

- A unique web address for users’ personal data
- A safe data store
- Data ownership rights for data licensing
- Dashboard to view and engage with their information
- Safe, secure application interaction

**For individuals**

**For App builders**

- App-builder APIs
- Legal, transparent data transactions
- Decentralised HAT Microservers
- Private & shareable user-owned data
- Secure, Verifiable, dynamically sourced
- Intimate “Edge” Analytics
- Sensitive data access and handling
- Trustworthy and Ethically sourced data

Data rights make data mobility. A single point of truth, owned by the individual.
Edunge Analytics within the HAT

More insights created, private to HAT owner, fully shareable

The HAT personal data account enable the user to collect even more about themselves to share with applications without the need to spend more on development.
HAT Merchants

Analogous to the Credit card ecosystem (instead of spending money, consumers spend data)

**Analogy**

- **Rules on transactions** set by Visa and Master and they run the infrastructure
- **Rules on data transactions** set by HATDeX that runs the infrastructure

**HAT Issuers**
- Banks/orgs issue Visa or Master Card to their customers
- HAT Issuers issue HATs to their customers

**HAT Owners**
- Individuals use their Visa and Master cards to give money for items sold by merchants
- Individuals use their HATs to give data on websites or applications created by merchants

**Merchants**
- Merchants pay Issuers credit card transaction fees
- Merchants pay Issuers data transaction fees

**Platform: Economic Model**
• Platform is the first to fully resolve the technical, legal and commercial barriers in the ownership and transfer of personal data rights between individuals and corporates
• Interoperability of personal data across all industry sectors
• The platform is already referenced globally as a best in class solution in the emerging primary personal data exchange
• The platform is already live in the field, and working - HATs can be issued by an organisation to their customers in seconds
The HAT Community Foundation governs the whole ecosystem - the certification of tools, apps and plugs, legal terms and conditions and regulating data conduct on the technology platform.

The HAT Accelerator catalyses startups that build on the HAT.

HATLAB is the innovation and incubation space and the centre for research, education and policy for HATs and the personal data economy.

The HAT Ecosystem Enablers:

- HATAccelerator.org
- HATDeX.org
- HATCommunity.org
- Hat-lab.org

https://hataccelerator.org
https://HATDeX.org
https://hatcommunity.org
https://hat-lab.org
The Role of Policy

Data Conduct at the Edge

How data is contracted, transferred and used

Data Store Assurance at the Edge

Decentralised personal data accounts require assurance that legally, economically and technically they are robust and regulated (similar to bank accounts)