Personal Data for Whom?

Pimping, protecting and purposing the most valuable resource in the digital economy

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On the Internet, we constantly give away our information

- Filling in forms
- Browse websites
- Watch videos
- · Like, comment, interact



Personal data "transfer" is everything we do on the Internet

- · It's a manifestation of digital "work"
- But more importantly..... it tells people who we are.....the type of persons we are.... and our preferences.



the current state of the personal data "harvesting" system

- is given away (not easily reused, unless you keep it on Google, Facebook, Amazon or Apple or other providers) - often without the right to dictate how it is used or reused
- After it is given away, services can resell the data in the name of 'better service'



And it's now a commodity

- personal data becomes a powerful resource to know who we are and to influence how, when and what we buy
- It's a commodity not because it's precious....



It is a commodity because there is a market for it



Unless a market happens, the worth of a commodity is unknown

The 'secondary' data market

Now thriving with buyers and sellers

Using predictive analytics

Using AI and machine learning

Able to strip personal identifying information and 're-identify' you with a number or ID through 'very good analytics' - therefore it is inferential data and can bypass the law (maybe)

Sell on the inferential data for better targeting of consumers



The market is after a lot more than "just" personal data

- The precious commodity of personal data is just symptomatic of the real commodity
- In an era of loT, personal data would be everything about you
- · It is your entire person, in a digital form
- That's the real game, not some scrappy few pieces of personal data

And the capabilities are there to do it



Of course, with user consent

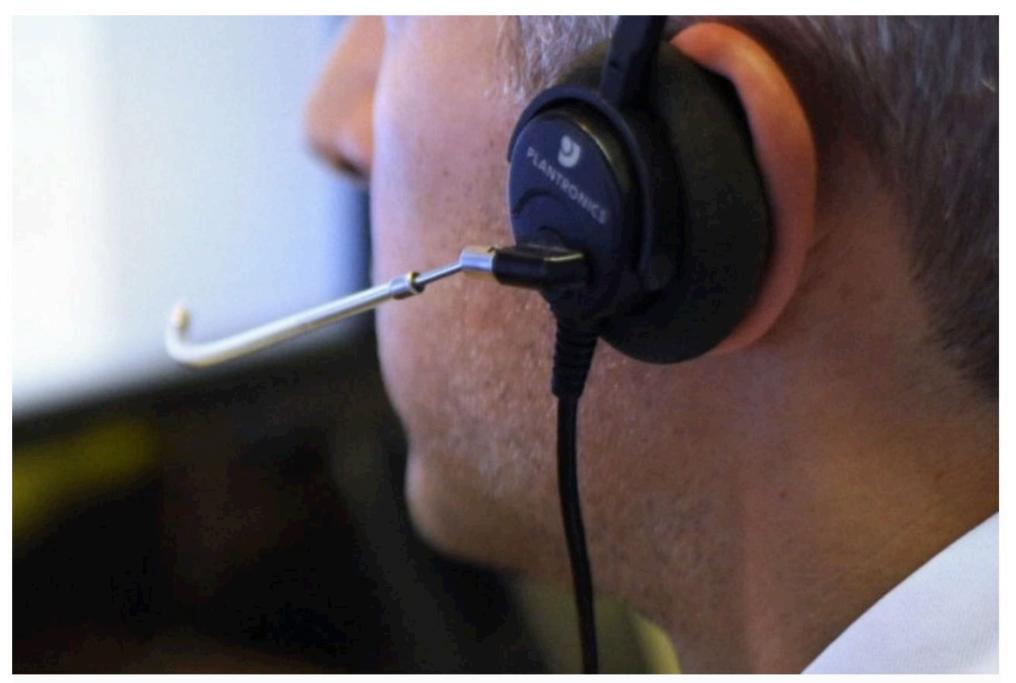
The secondary market has several negative effects due to:

Temptation to cheat (long user agreements)
Opacity (no one knows)
Creep (let's do something else with it)

Because the incentive of the market is not aligned with the incentive of society



Your personal data on sale to scammers and cold callers for just 4p



Potential nuisance callers and scammers could be able to buy sensitive personal and financial information for as little as 4p a record

Ву

DAVID BEHRENS, DIGITAL EDITOR



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People Don't Know You Can Check For PPI Without A Phone Call

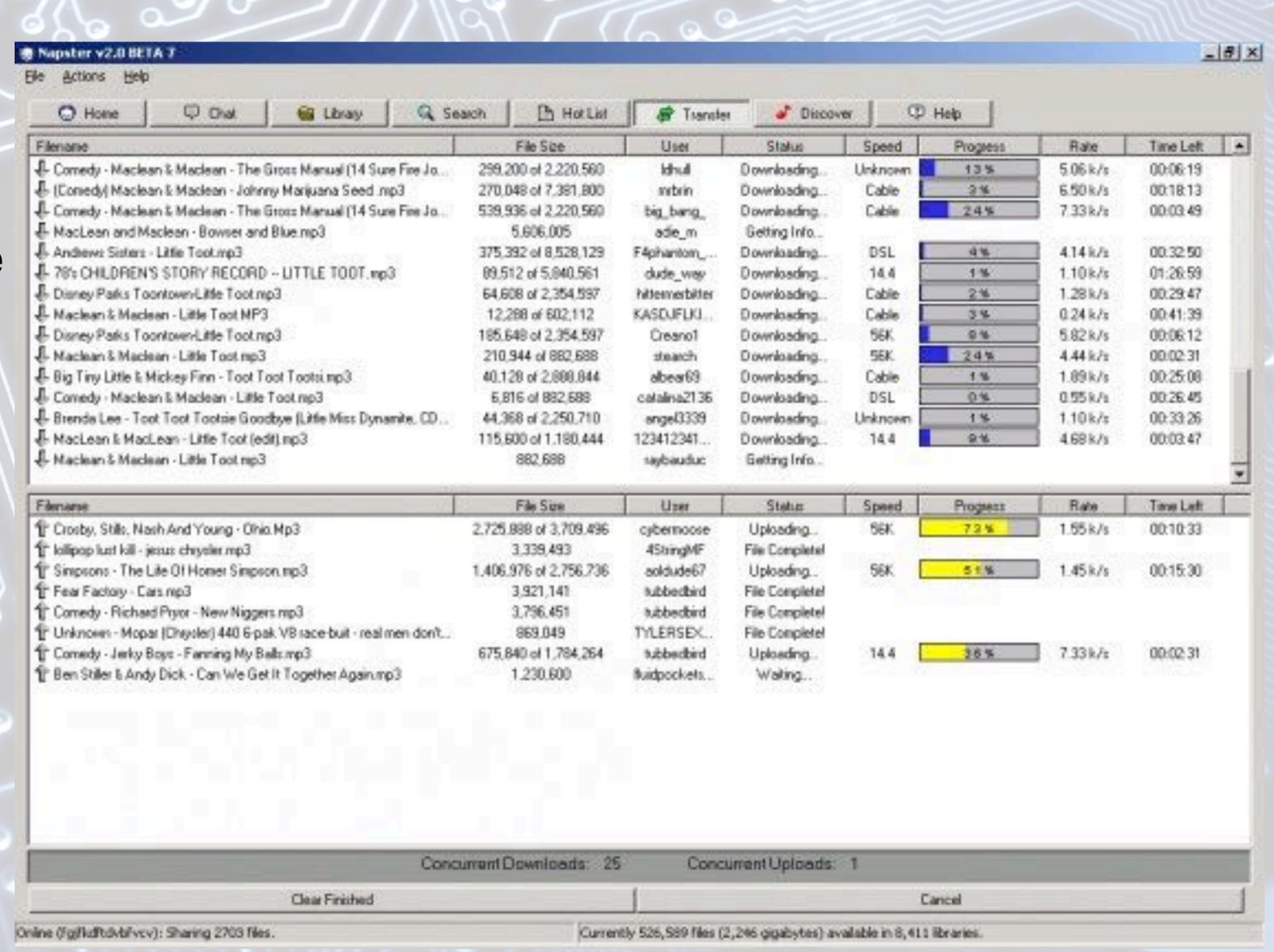
The Claims Guys



http://www.yorkshirepost.co.uk/lifestyle/personal-finance/your-personal-data-on-sale-to-scammers-and-cold-callers-for-just-4p-1-8344959

We've seen this before?

- It wasn't long ago that we had a secondary market of exchanges that didn't involve the source that produced it
- Quality was dubious, legality was questioned and later deemed illegal
- The market for personal data is starting to behave like the market for contraband laundrying tactics, shady



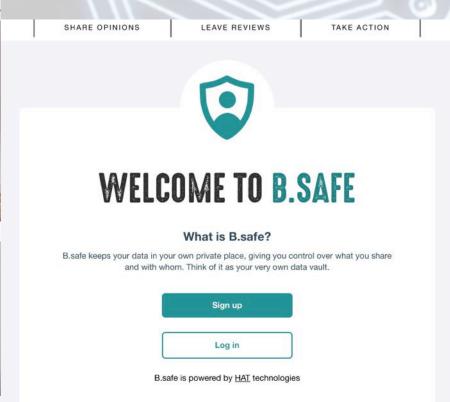
We all think we know the solution

They think so too



Personal data and AI in the hands of people





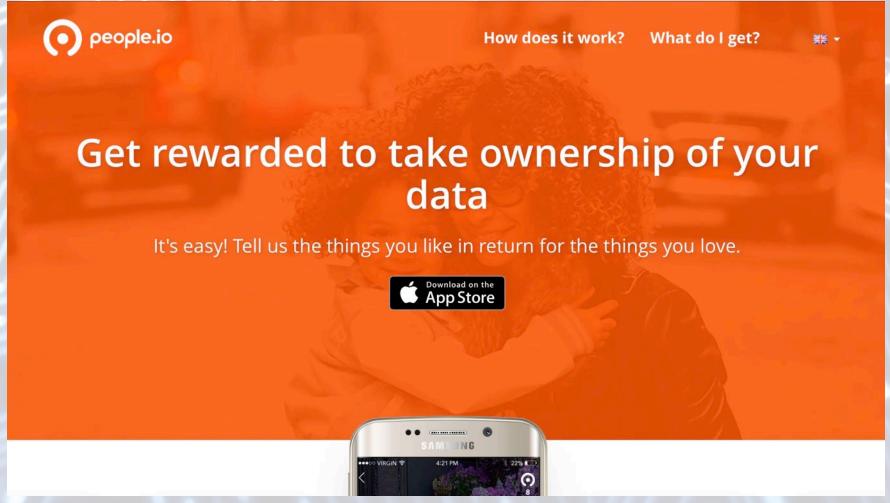


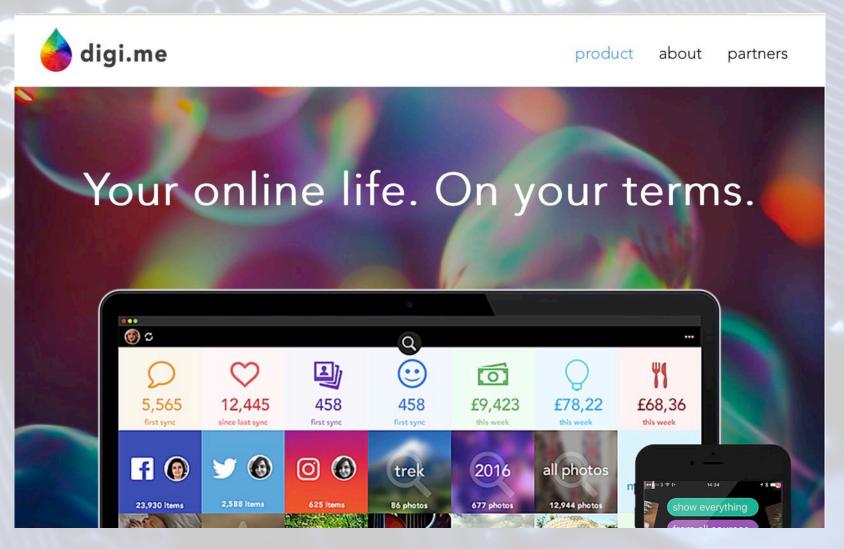




How does the 21st-century company deliver personal experiences without leaving the customer feeling he/she is being watched?

Companies see personalization as a key competitive advantage in





But there's a problem

- Everyone is building a personal data store so that individuals can control how they share
- But no one is asking the big question



Personal data is raw material

Has Value to the person

- Only with services that the individual can buy to process and use
- · (Yes, we're back to the theory of the firm)

Has worth to others

Only when there is a market

The value and worth of personal data is dictated by the data exchange infrastructure that can bring parties together to exchange

How do we share our data
Who manages the sharing infrastructure?
Who polices access to our data?
Where is it sitting on, who runs it, who runs
the services around it

All data exchanges sit on a platform

- The data exchange infrastructure controls all roads to personal data whether you own the data store or not
- Who builds that data infrastructure. Who builds the exchange. Who controls it. What is it built on.





Funding will determine use cases, and what is being built

People.io secures a six figure investment from Wayra Munich and plans to launch in Germany in Q3 2016

By Thomas Ohr - May 4, 2016







people.io, a new service that allows consumers to dynamically license their data and attention to brands and be rewarded for it, today announced a major strategic partnership with Wayra Munich, the Telefónica backed accelerator programme. The deal, which combines a six figure investment with strategic support to help develop the business, will allow the London-based startup to expand its reach onto mainland Europe by the

end of the year.

Since its UK launch in the beginning of this year, thousands of beta users registered for the service, beloing to refine the experience ahead of a nationwide roll out later



digi.me raises £4.2M (\$6.1m) in Series A funding round

digi.me, Permissoned Access, personal data, Personal Data Economy, Series A funding, Swiss Re ♣ Emma Firth

Digi.me, the pioneering start-up revolutionising how consumers and businesses harness the power of personal data, has secured £4.2m (\$6.1m) from Series A funding led by global re-insurer Swiss Re.

COZY CLOUD RAISES € 4 MILLION TO FUEL ITS GROWTH THE START-UP ACCELERATES ITS DEVELOPMENT WITH MAIF AND INNOVACOM

Paris, 10th June 2016: Start-up Cozy Cloud has closed a EUR 4 million investment round from MAIF (via its investment fund MAIF Avenir) and Innovacom. The objective is to accelerate its commercial development and to support digital transformation of major brands by offering a new personal data and customer relationship paradigm.

Personal data: a key issue

Major brands are now engaging in a complex digital transition to address the risk of disintermediation caused by the GAFAs and their clients' new expectations. Their key issue: accessing customer data. The GAFAs already have an expanded access to data, and they have entered a state of great digital intimacy with their users. Users rely on these services in their everyday life, and they end up giving up control of their personal data.

This paradox has been partly addressed first by recent evolutions in substantive law (data portability in French Lemaire law, EU regulation "Directive on Payment Service (PSD2)"). Second, there is a Self-data movement emerging, of which Cozy is a pioneer. Self-data aims at providing individuals with the opportunity of taking back control on

Data stores funded commercially

And then there are these people who also have been funding data stores for digital identity

Singapore to overhaul its digital identity scheme

Prime Minister Lee Hsien Loong points to Estonia's digital identity as a benchmark.



By Charlene Chin 27 FEB 2017 DIGITAL GOV



he Singapore Government wants to build a new digital identity for Minister Lee Hsien Loong has said.







- **◄)) 100% +** Mute

It takes about 15 minutes to verify your identity the first time you use GOV.UK Verify, and a couple of minutes any time after that.

When you use GOV.UK Verify to access a government service, you choose from a list of companies certified to verify your identity.

The company you've chosen may ask you some questions, or perform other checks using photo identification and financial information before confirming your identity to the





Twice in the last six months, I've had the opportunity to visit Estonia to attend two separate conferences (Latitude59 and the Future of Identity).



Both trips provided me with insight into how emerging technologies and governmental policies can enable digital transformation for a country and its citizens, as well as the potential for advanced digital identity systems.



But first, a little background on Estonia



Estonia is a small country with a long history dating back to 9000 B.C. From the Middle Ages to the modern period, Estonia was ruled by various nations until in 1991, the Republic of Estonia was formed as an independent

What ALL platforms have in common

- Rules
 - You have to know what is allowed, and what is not allowed
- Boundary
 - You have to know when you are inside and outside
- Have public services
 - Shared amongst all
- Have community services
 - Shared amongst a group
- Have private services
 - Between people, or for yourself
- Have an exchange currency (money, labour, digital labour (etc.))

Our society today is shaped by platforms

Platform determine our behaviours. Platforms are templates of behaviours



The future of our society will depend on who controls the personal data exchange platform

The multiple stakeholders of personal data exchange must collaboratively fund it. Even if the motivation is to Purpose, Protect and Pimp it for their own goals

Or are we saying that....

All services in the personal data exchange system should be commercial?



Who funds the future

State

Market

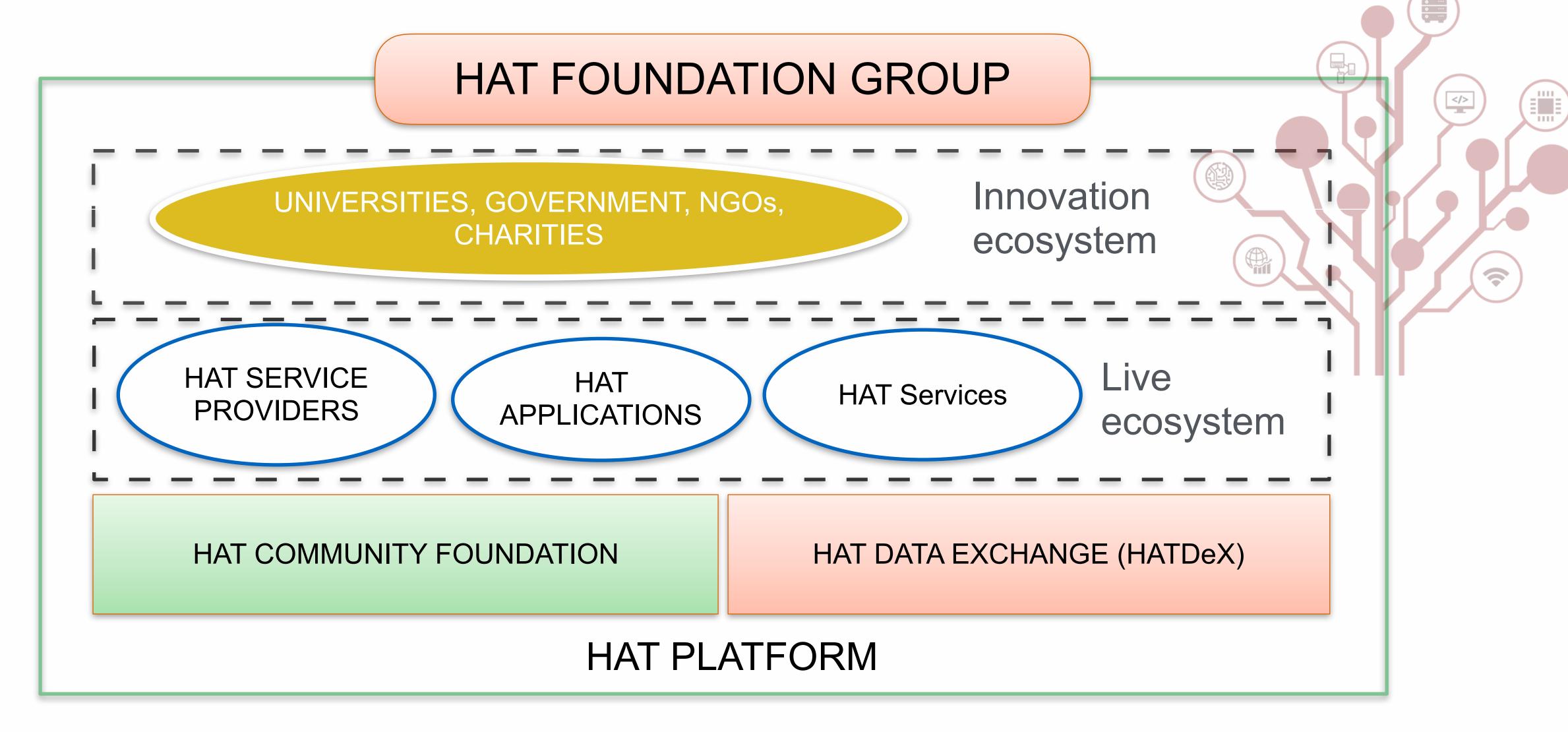
Users

Communities

Personal data exchange belongs to all of us

At the HAT Foundation Group, we believe there are some design principles a personal data exchange should follow

Based on > £3m EPSRC/RCUK Funding on personal data platform design



Partners







UNIVERSITY OF CAMBRIDGE













1. Personal data exchange platform must enable all necessary platform services

- Who is building the public service? (Infrastructure)
- Who is building the private services (person-to-person data exchange)
- Who is building the community services (groups)
- Who is building the commercial proposition (market)

2. Even if the personal data stores are built on private or corporate clouds, the data exchanges should be built on the Internet

- single sign-on through APIs for other Internet services and applications
- Uses Internet standard protocols that are open and transparent e.g. JSON web tokens, SSL encryption
- not built on a proprietary system e.g. within a subnet or private networks inside a cloud system
- For transparency, open, decentralised, egalitarian access rights on the Internet
- Allow community, public and private services to be built and be interoperable, instead of only private/commercial services
- To re-establish trust and transparency the Internet economy

3. Personal data exchange platform has to be future proof for all future personal data uses

- One way to future proof personal data exchange is through ownership of data stores instead of merely rights, so that custodial and 'super' rights can guarantee future access
- users become stakeholder in their own data, its uses, its quality and as digital assets
- Bundle of rights under property law 1790, simplified in 1925
 - Right of possession
 - Right of control
 - Right of enjoyment
 - Right of exclusion
 - Right of disposition

4. Data exchanges must be actioned upon by users themselves, and without a 'sysadmin' access

 E.g. Containerised, so that the individual is legally a data controller through the 'microservices', and in some cases, a data processor

- For the user to have legal standing in the future of the Internet
- So that users are stakeholders in the effort of building and controlling their own databases

5. Market-making

Allow brand owners (e.g. Banks, Insurance companies) to brand the private data account and customise it in the way they want to be consistent with their own branding initiatives for their customers for their own data exchange use cases

We all believe a PRIMARY market of a personal data exchange from source is good for the economy, the person and society

HATDeX

Digital Dependency White Paper



The Need for a Personal Data Exchange Infrastructure

We live in an increasingly digitally connected society, with digital dependency in daily life only set to rise. Yet, where connectivity brings convenience it also brings challenges - especially in the area of personal



Download the Digital Dep White Pape	

https://www.hatdex.org/digital-dependency/

Benefits to users	Benefits to organizations	Benefits to society
Greater control over	ability to access and request	Lower cybersecurity risks
personal data usage	for more personal data for	
	new services at reduced	
	development costs.	
More private	Lower risks and costs of	Better representation of
	personal data containment	individuals in the digital
	(assuming no duplication on	economy
	the firm-side)	
Ability to use personal data	Champions digital	Enables peer to peer
for themselves	empowerment and control	services without third party involvement
Ability to buy services to,	Creates trust with	Enables individuals to
organise and manage digital	customers	engage with public services
selves and personal		more seamlessly through
effectiveness		data sharing
Ability make more informed	Create direct customer	Better operationalisation of
decision based on historical	relationships rather than be	a consent based digital
and on-demand personal	dependent on third party	economy of personal data
data	supplier of personal data	""
Able to buy intelligence	Better quality of data as	Creates a disincentive for
services for computation	individuals are stakeholder	secondary (and/or illegal)
and recall	of data quality	personal data markets since
		there is a primary market
		for personal data
Ability to share data for	Increase supply of personal	Efficient way for
insights, recommendations	data resource without high	government and
	costs	organizations to consult
		citizens e.g. Polls, opinions,
		surveys
Ability to share data for	Ability to access personal	Benefit from scale effects
discounts and personalised	data services (e.g.	when introducing new data
products/services	Anonymisation,	services e.g.
	Blockchains) through the	Ledgering/blockchains
	ecosystem without having	
	to develop themselves	

What is the killer app that will scale the personal data exchange economy

- Pimping? (Get your own data and make money for yourselves)
- Purposing? (use your own data for yourself data services for individuals)
- Protection? (my data, my vault)

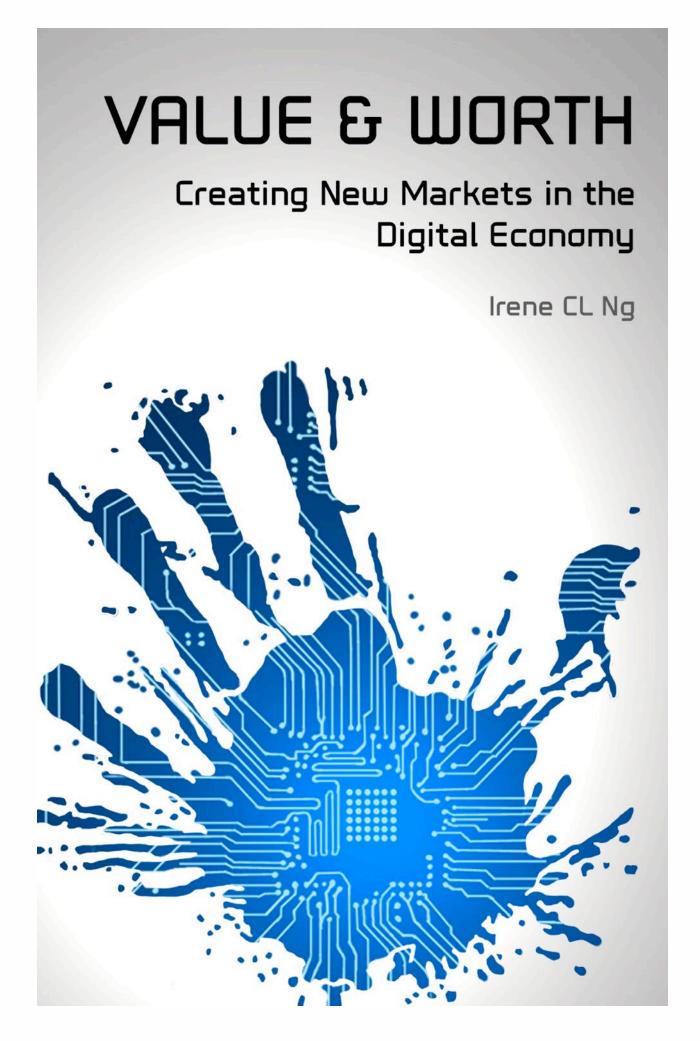
Multiple roads to designing, building and scaling a personal data exchange and emerge that primary market

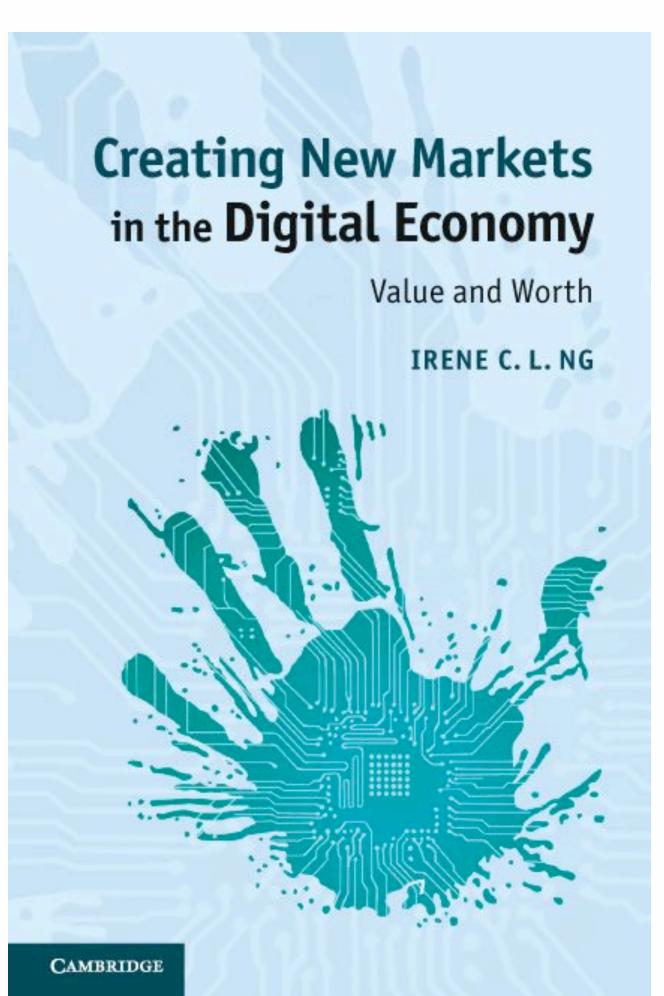
The one that succeeds will dictate the society we become

And we may well be funding the next big Internet conglomerate



Shameless plug







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