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Enabling Patient Centricity

Julian Ranger
Exec Chairman & Founder

US Open notes has already demonstrated the benefits of empowering patients with their records



Improved communication, understanding
and health outcomes.

Making data portable and reusable
takes this to the next level



A UK Health perspective

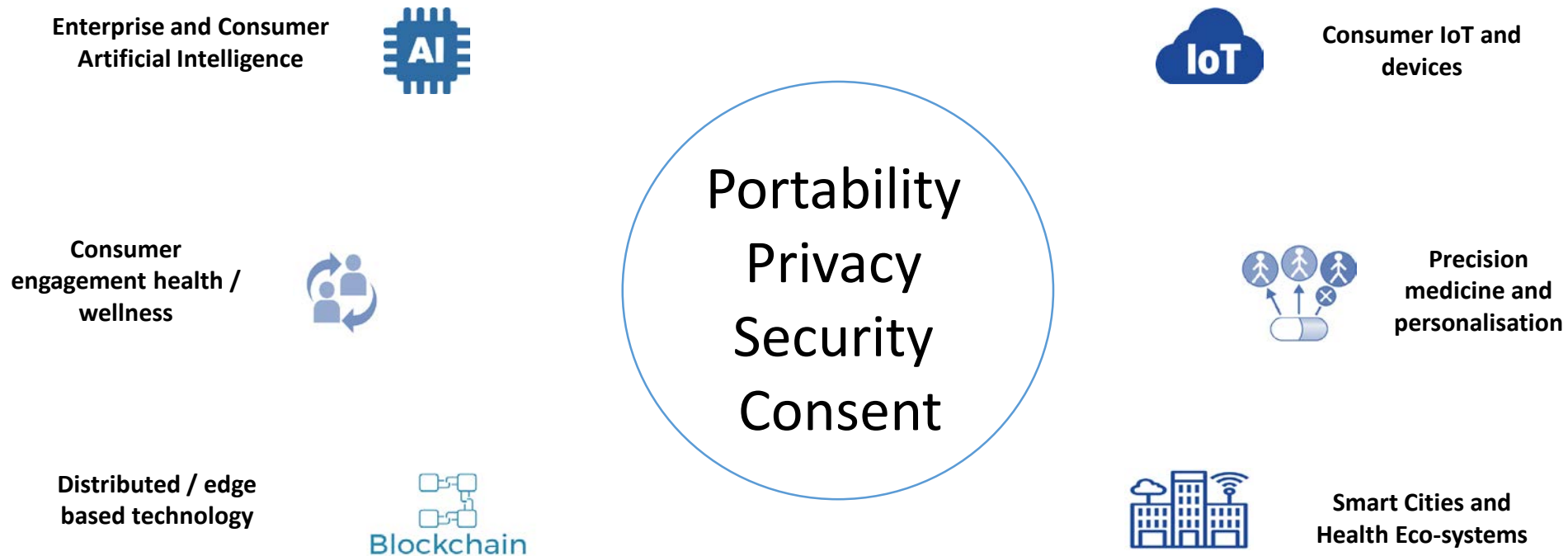
*“It has to be based on consent. So **your data about your health is your property**. That is my starting point. That must be the principle that I will put at the foundation of data protection in the NHS”*

Matt Hancock

Secretary of State for Health and Social Care



The global future of Patient Data

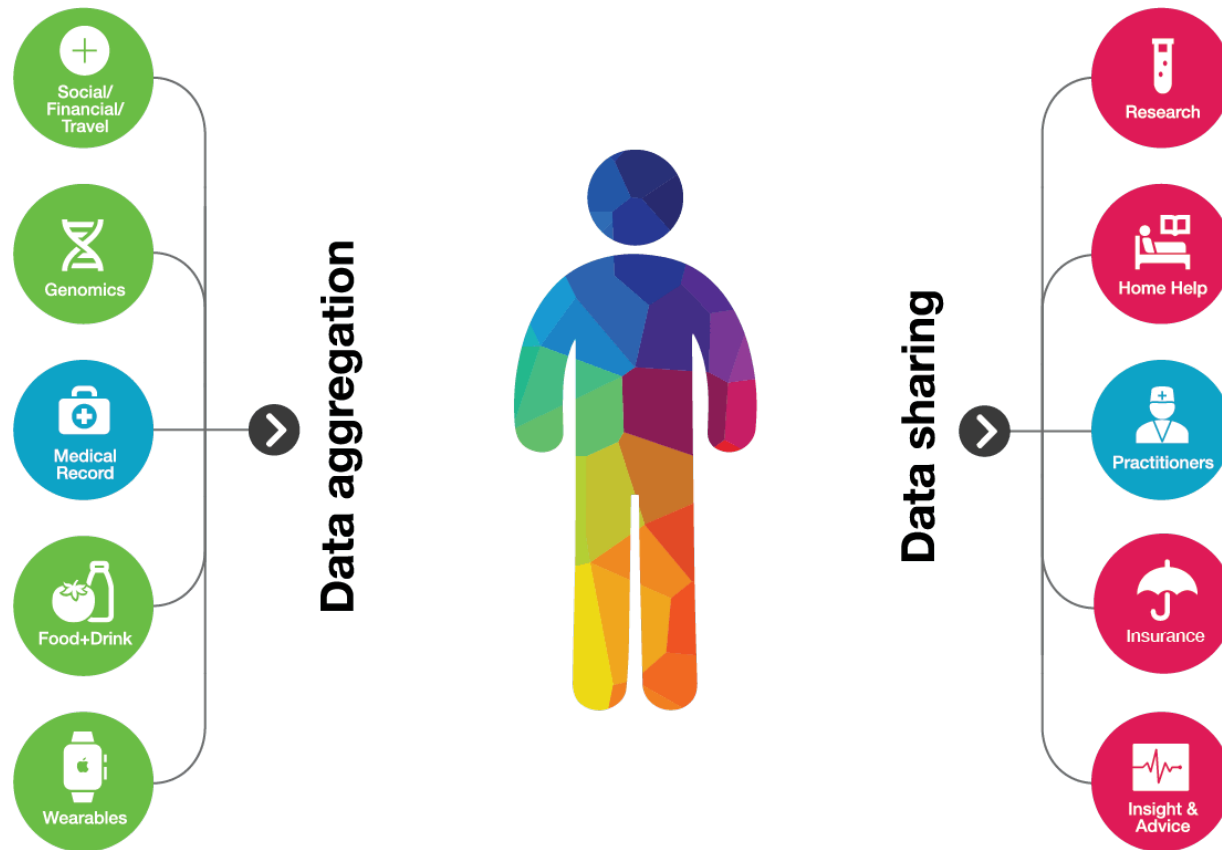


Future Agenda: Future of Patient Data:

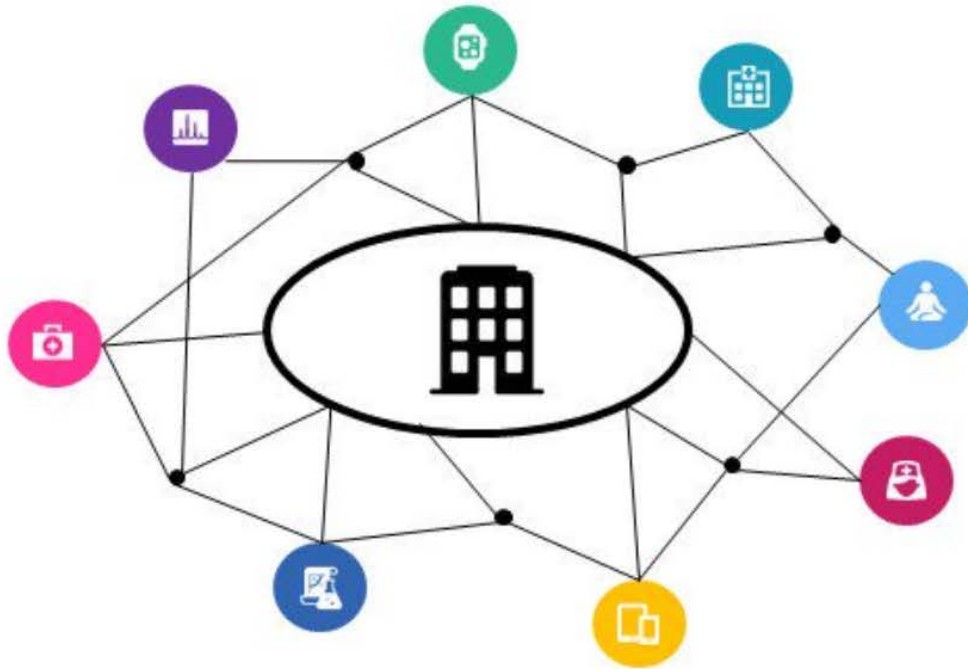
<https://www.futureofpatientdata.org>

Patient Centricity :

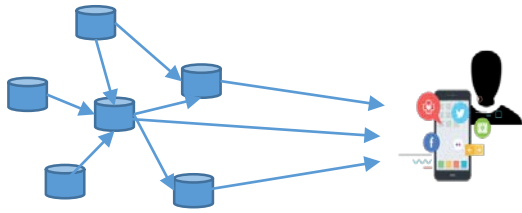
Empowering individuals with their data



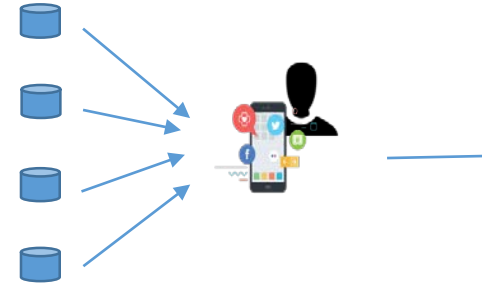
Interoperability Vs Patient Centricity



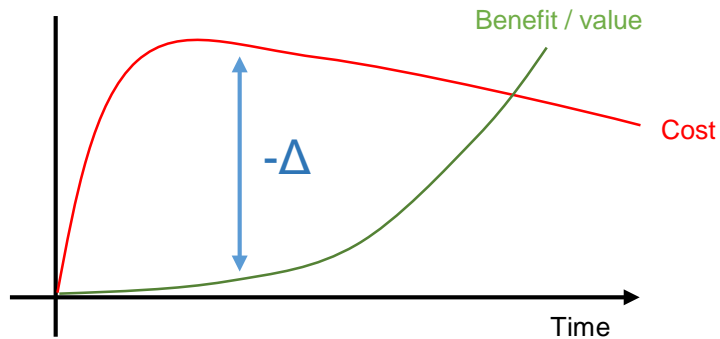
Patient Centricity enables early benefits realisation



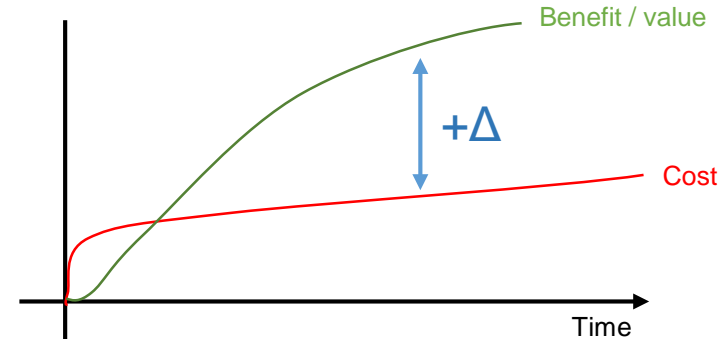
Multiple systems, regions and standards and implementations



Single flow & approach to aggregation, normalisation, consent



Significant upfront capital investment before benefits are realised



Reduced initial capex and earlier benefits realisation.

Patient centricity benefits

Patient		GP		Hospital		Research		Innovators			
Whole patient picture - Rich single source real world longitudinal data				Build stronger relationships and trust with greater value				Maximum privacy and sharing - on device information and processing			
Empowered and engage patients		Efficient healthcare and communication				Accelerated research		Catalyst for innovation			
		Simplify and improve compliance (GDPR, MU3, ethics, etc.)									
Enables prevention, earlier diagnosis and treatment											
Improved privacy and control		Enables new models of care and care pathways				Richer data – Insight detection		Reduced complexity			
Greater choice and flexibility of services		Improve efficiency and care coordination – fewer and better encounters				Direct to patient cohort selection - wider		Direct to consumer			
Personalised advice and informed decisions		Greater ability to remote monitor and support				Direct relationship for consent and feedback		Catalyst for new business models			
Enhanced care team communications		Understand lifestyle and behaviours with broader phenotypic data				Faster IRB approvals		Faster route to market			
Improve health and wellness outcomes		An alternative to using data brokers				Accelerate futility analysis		Simpler to integrate and scale			
Simplified health transitions (e.g. claims, onboarding)		Improve engagement in hospital-centred research initiatives				Reduce 4th Hurdle Challenge		More cost effective than data brokers			
Facilitates building health related communities						Enhance monitoring of drug effectiveness and adherence		Simpler collection of real world evidence			

Europe: Drivers for Patient Centricity

- Legal Requirement

- Data portability – Article 20 GDPR
- Right of Access - Article 15 GDPR
- Duty of Care towards patients and their data
- Right to cross border care

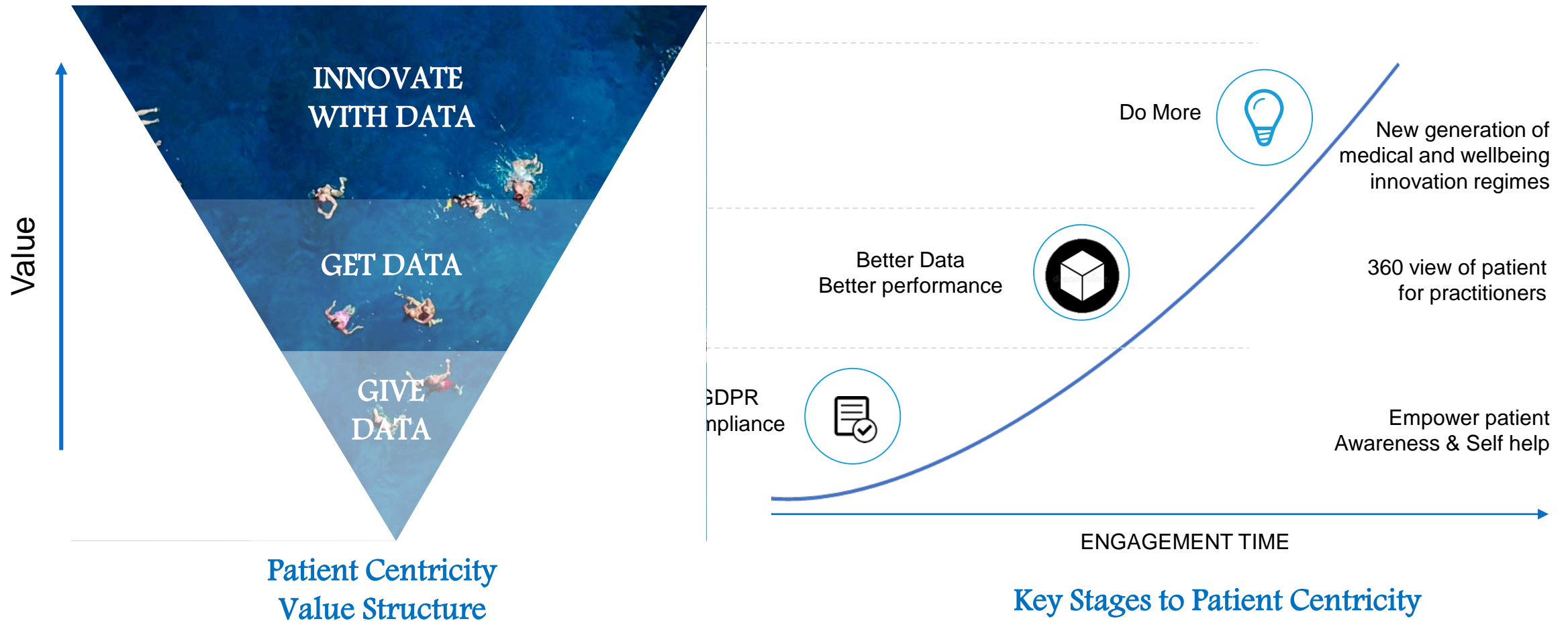
- Data portability

- Need to move data across border
- Multiple systems and standards
- Inefficiency an ineffective healthcare

- Innovation

- Current models prevent innovation
- Limit self care / management

The road to Patient Centricity: Innovation can only follow data liberation



How does digi.me enable Patient Centricity?



The digi.me app creates your own secure personal library and lets you add data from different sources.



You own this library and keep it on your choice of secure cloud storage.

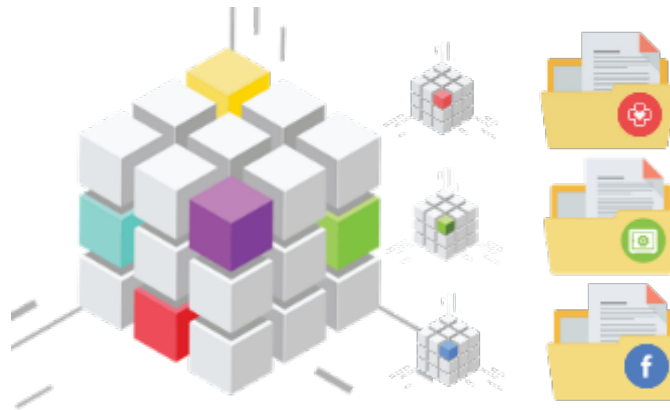


Then you can share your data direct from your device – with you in control.

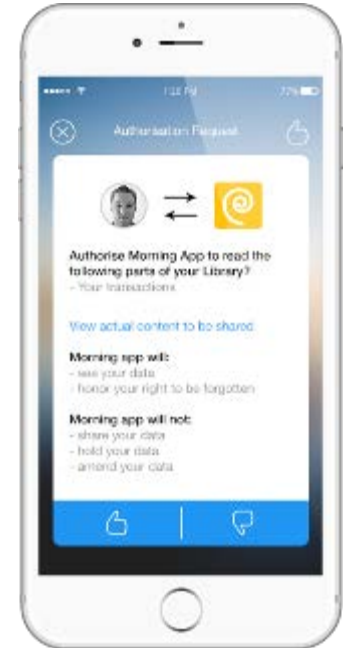
3 Core Challenges we solved



Secure Cloud Data Collection
How to get data from everywhere

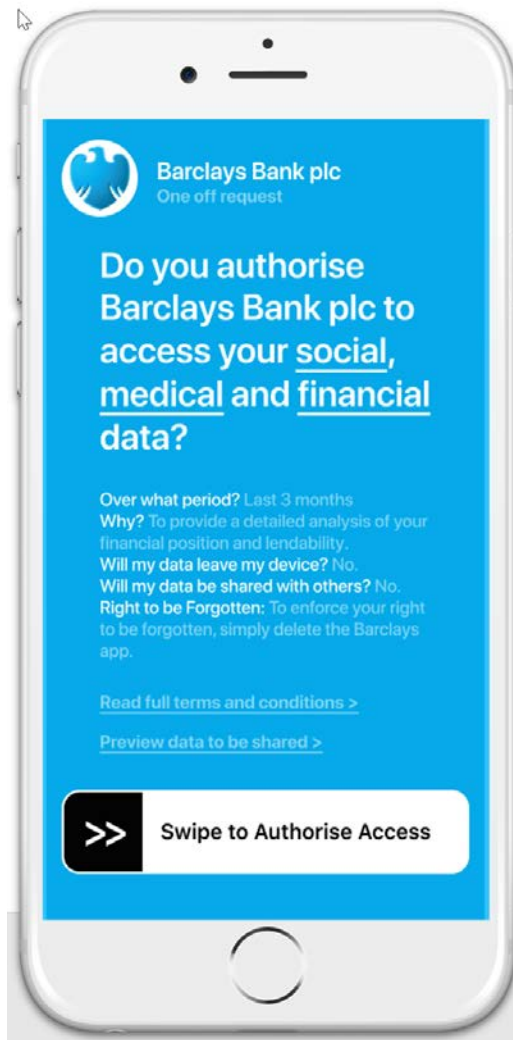
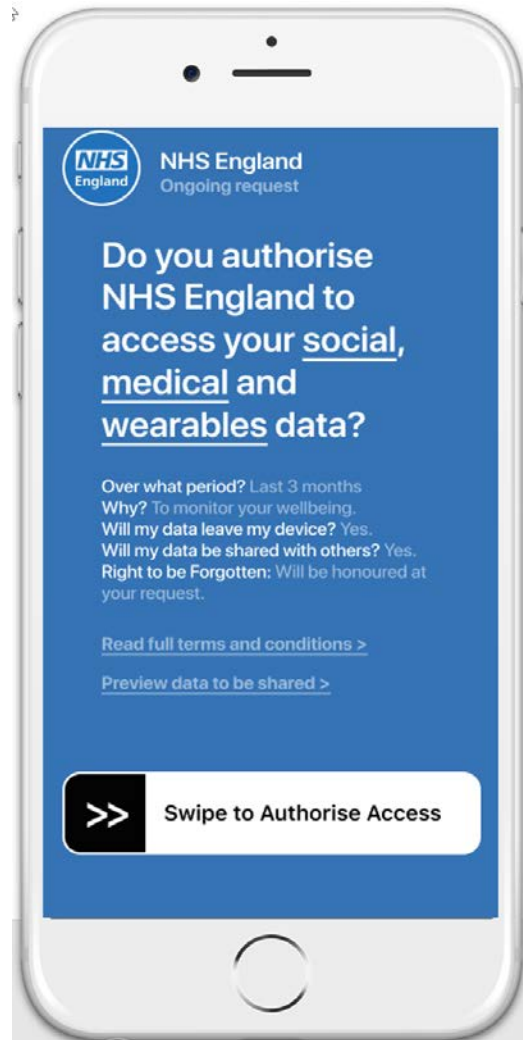


Normalisation
How to put data into usable form



User Consent
How to control movement of data

Consent Access – explicit & informed consent



Iteration through user review
and in international standards
bodies

Consent Receipt WG

Consent Best Practice WG

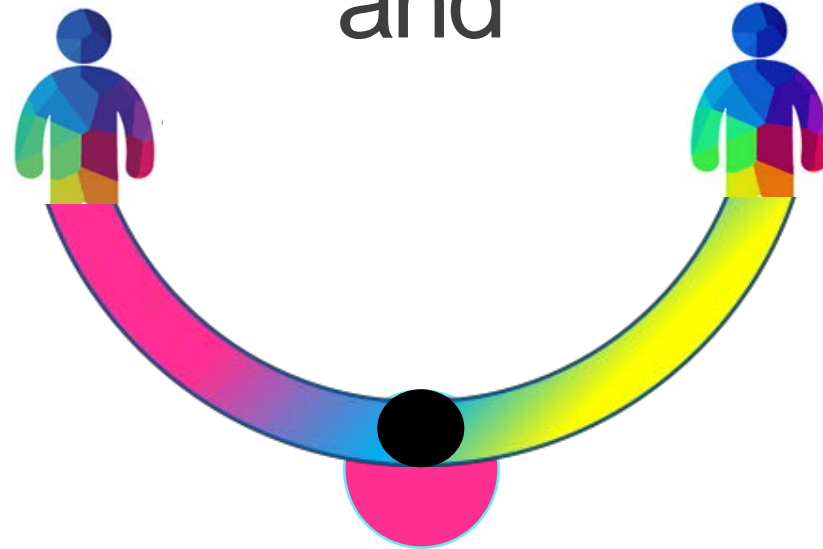


Patient Centricity enables us to do more with data with greater privacy

maximum
privacy

and

maximum
sharing



Better for individuals, healthcare, industry & society

Iceland Case Study – A world first

- Made one change : Open up an API.
- Worlds first National, citizen facing health record API.
- Independently audited under direction of Department of Health
- Individuals use digi.me to securely download a copy of their data and use it with apps and services.
- Innovation Hub and Iceland Venture Studio spin out businesses attracting inward investment.

Retina Risk Case Study

Self monitoring for sight-threatening diabetic retinopathy ...

- Developed by Doctors in Iceland
- Continuous and passive monitoring which alerts individual to any increase in their risk.
- Lowers risk , saves money, improves quality of life and health outcomes.
- Very high accuracy for prediction validated against 20,000 patients in the UK and other countries.



United States:

HIPPA Meaningful Use 3

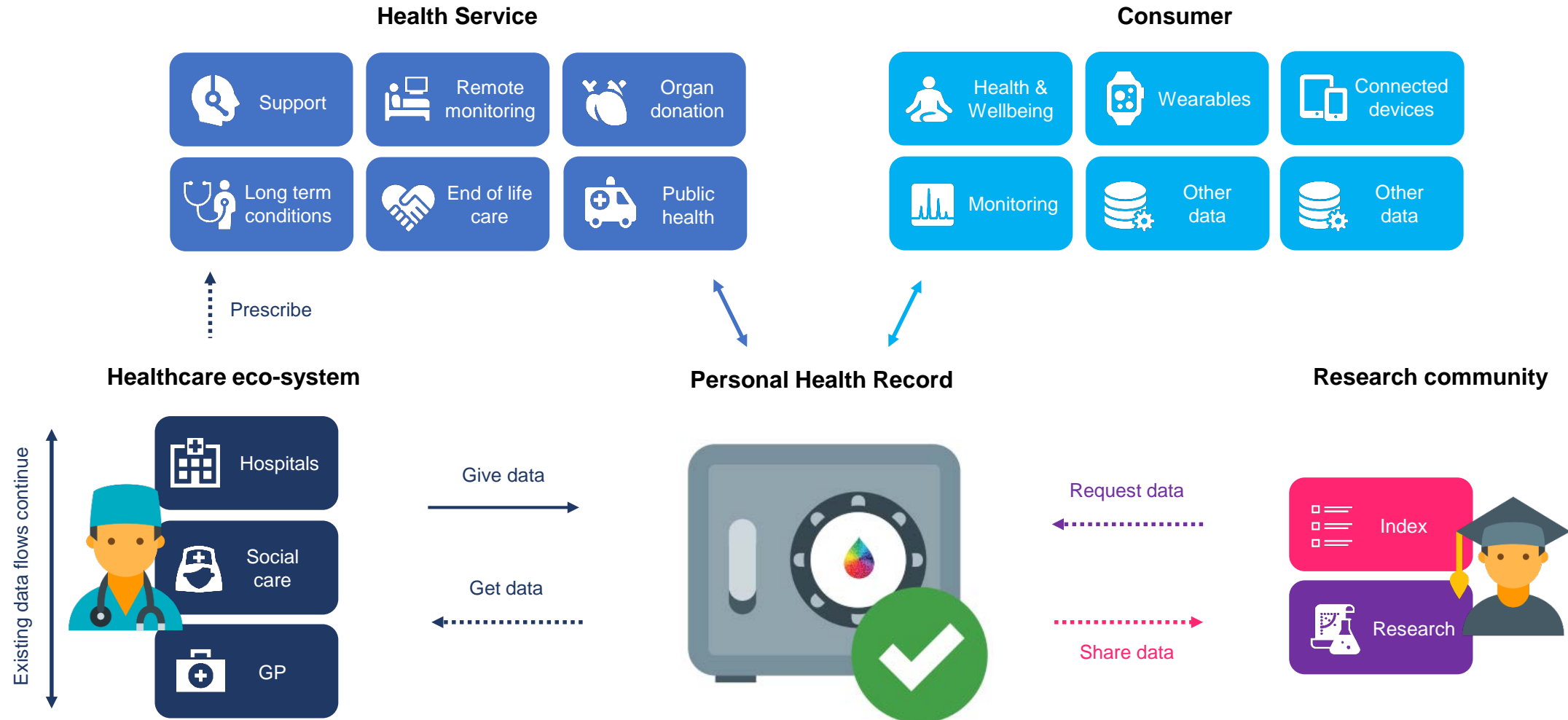


- Requires healthcare providers to open up data
- Mandate includes patient facing APIs
- Various standards/formats : BlueButton, CCDA, FHIR (including Epic and Cerner)
- 150 healthcare providers connected

What about the **NHS** ?

- Final stages of GPSoC assurance process.
 - Information Governance
 - Clinical Safety
- EMIS first GP record system to go live
- Working with EHR vendors to bring US capability to Europe.
- Next step: Identifying partner to establish an exemplar innovation hub and the innovation eco-system.

Patient Centricity Eco-System



... and **requires one thing** : empowering the patient by opening up APIs.



Get in touch

Julian Ranger

+44 7802 207470

julian@digi.me

