



digi.me

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

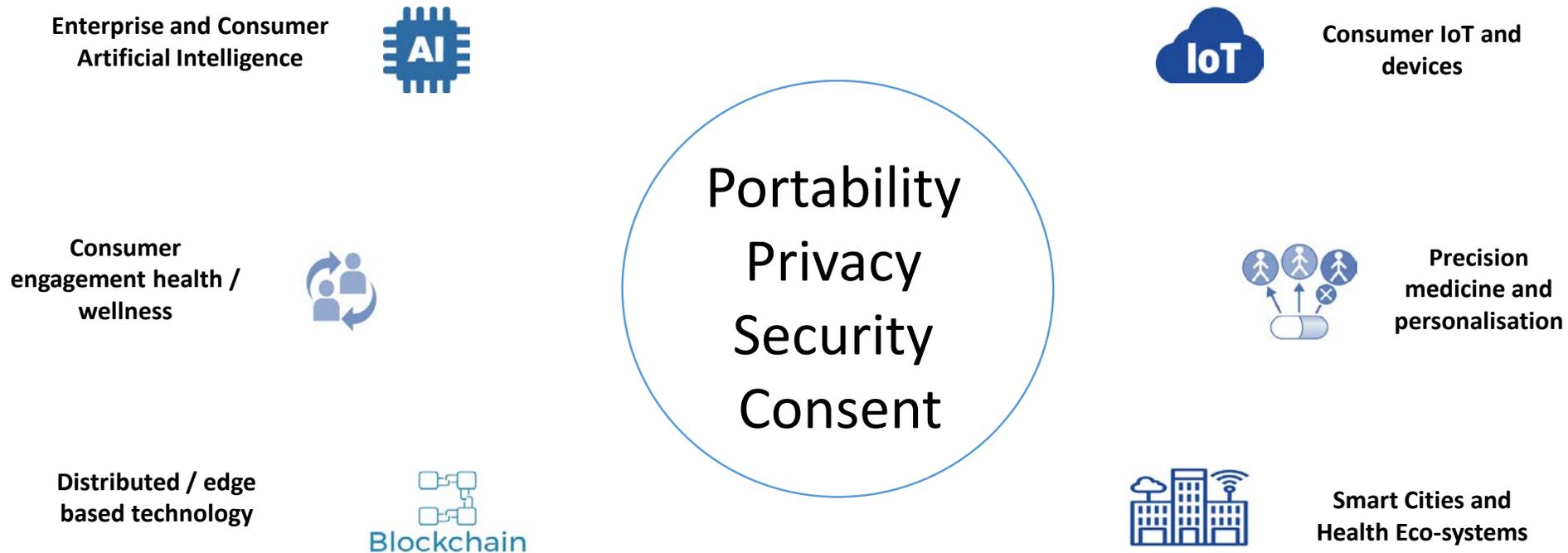
*“It has to be based on consent. So **your data about your health is your property**. That is my starting point. That must be the principle that I will put at the foundation of data protection in the NHS”*

Matt Hancock

Secretary of State for Health and Social Care



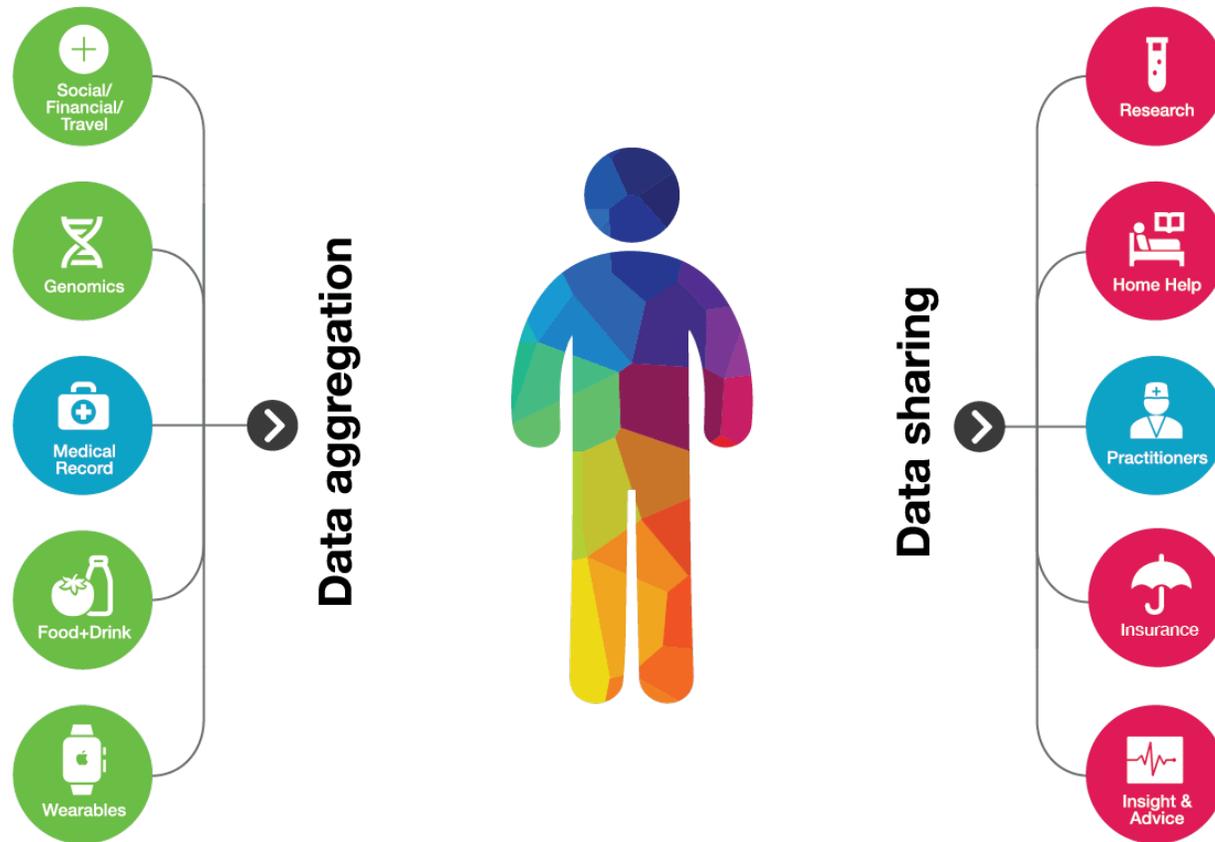
The global future of Patient Data



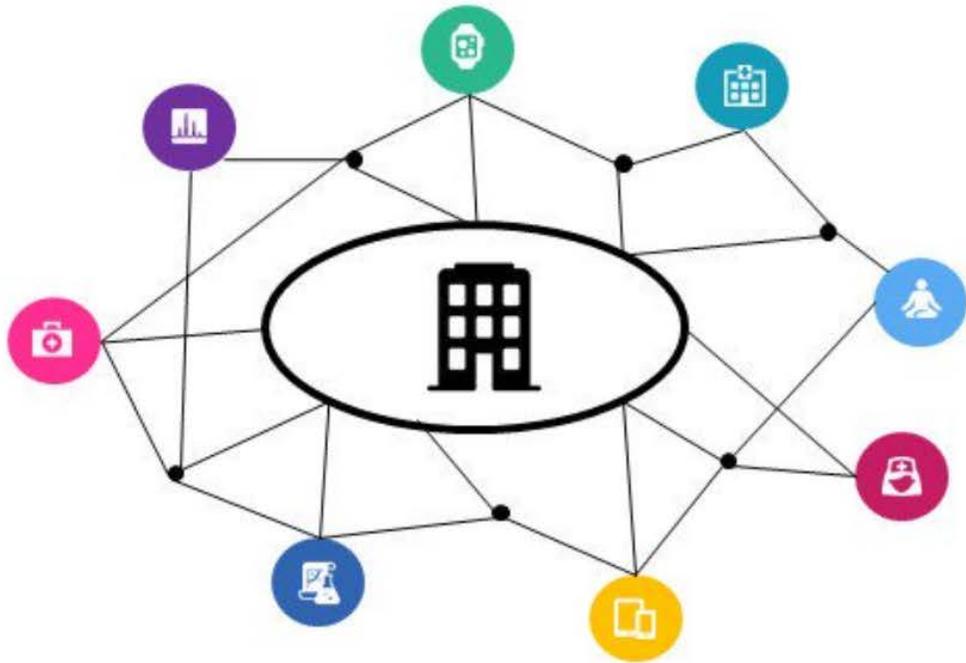
Future Agenda: Future of Patient Data:
<https://www.futureofpatientdata.org>

Patient Centricity :

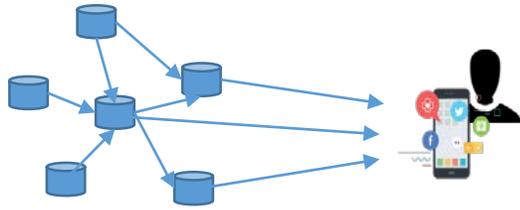
Empowering individuals with their data



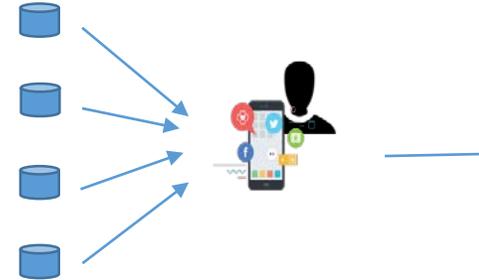
Interoperability Vs Patient Centricity



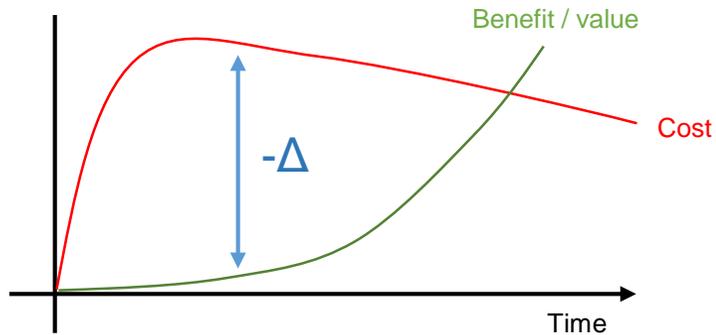
Patient Centricity enables early benefits realisation



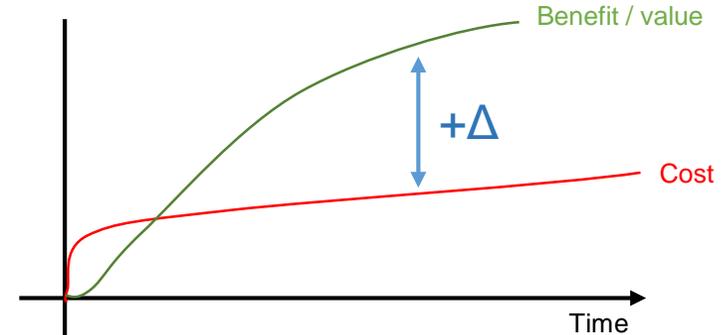
Multiple systems, regions and standards and implementations



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

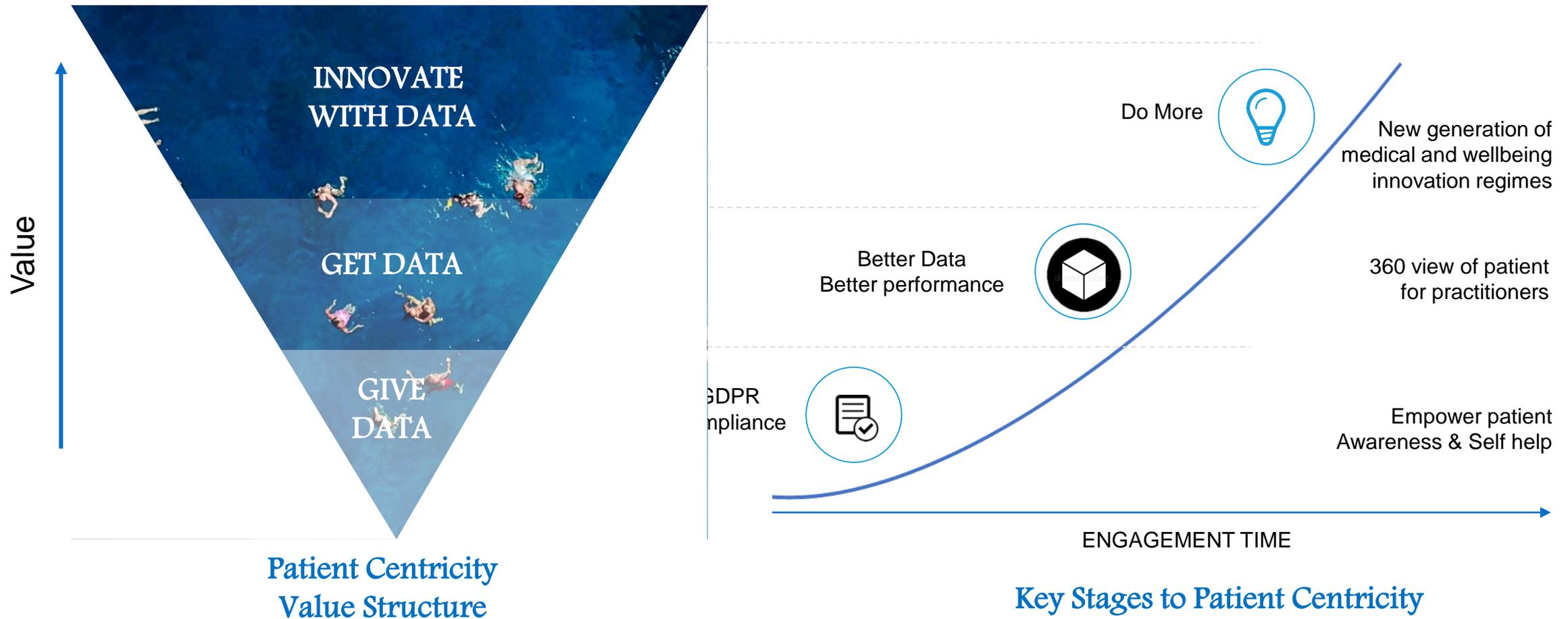
|  Patient |  GP |  Hospital |  Research |  Innovators |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | | | | |
| <ul style="list-style-type: none"> Improved privacy and control Greater choice and flexibility of services Personalised advice and informed decisions Enhanced care team communications Improve health and wellness outcomes Simplified health transitions (e.g. claims, onboarding) Facilitates building health related communities | <ul style="list-style-type: none"> Enables new models of care and care pathways Improve efficiency and care coordination – fewer and better encounters Greater ability to remote monitor and support Understand lifestyle and behaviours with broader phenotypic data An alternative to using data brokers Improve engagement in hospital-centred research initiatives | | <ul style="list-style-type: none"> Richer data – Insight detection Direct to patient cohort selection - wider Direct relationship for consent and feedback Faster IRB approvals Accelerate futility analysis Reduce 4th Hurdle Challenge Enhance monitoring of drug effectiveness and adherence | <ul style="list-style-type: none"> Reduced complexity Direct to consumer Catalyst for new business models Faster route to market Simpler to integrate and scale More cost effective than data brokers 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



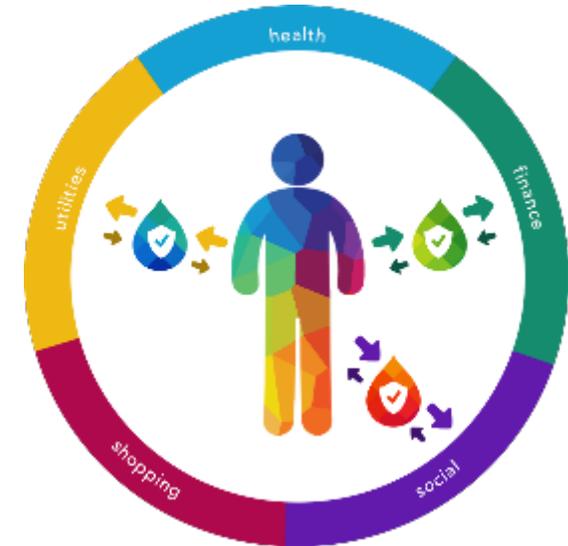
How does digi.me enable Patient Centricity?



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

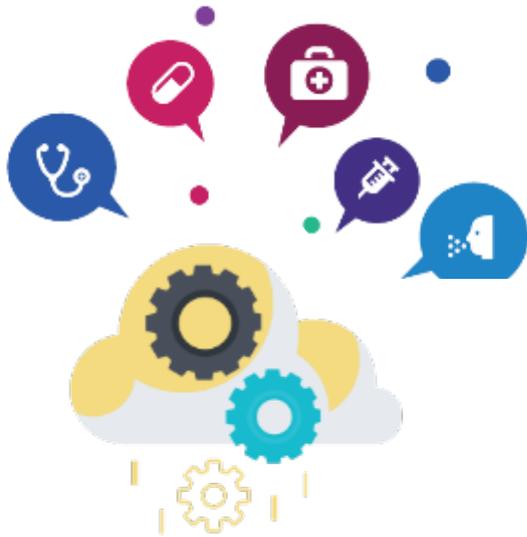


You own this library and keep it on your choice of secure cloud storage.

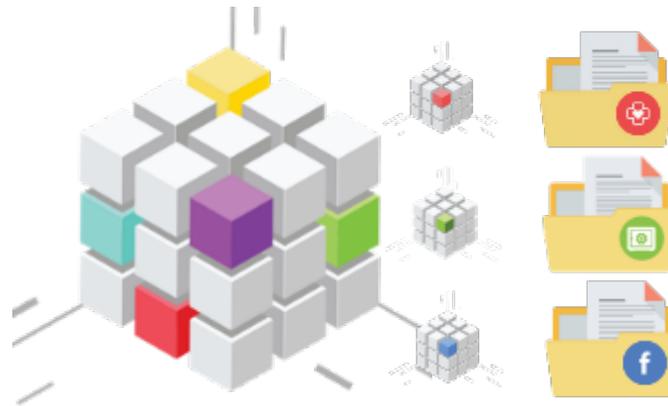


Then you can share your data direct from your device – with you in control.

3 Core Challenges we solved



Secure Cloud Data Collection
How to get data from everywhere

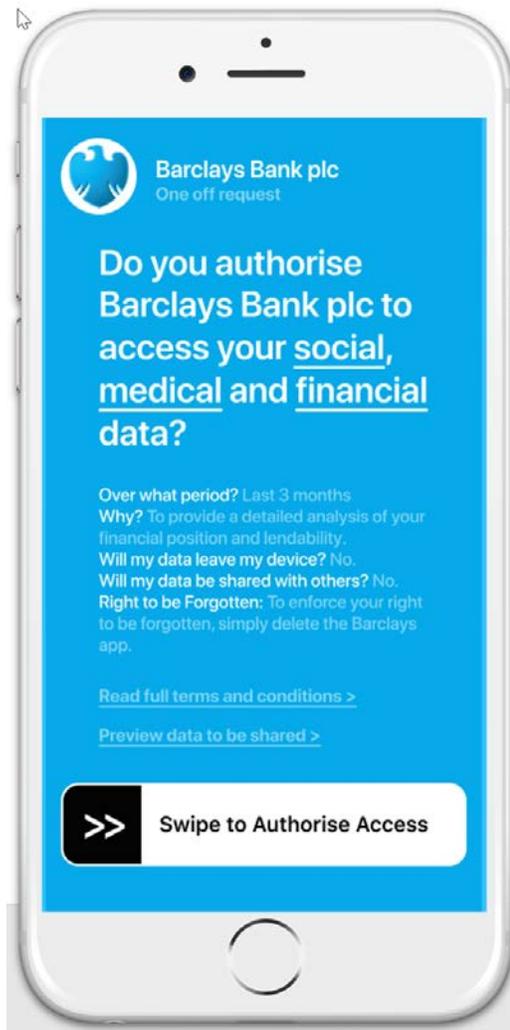
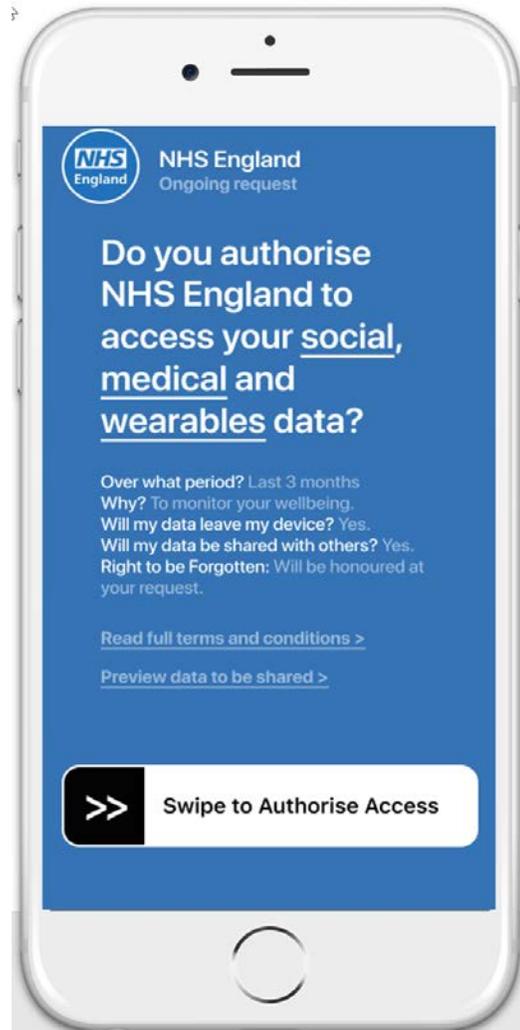


Normalisation
How to put data into usable form



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

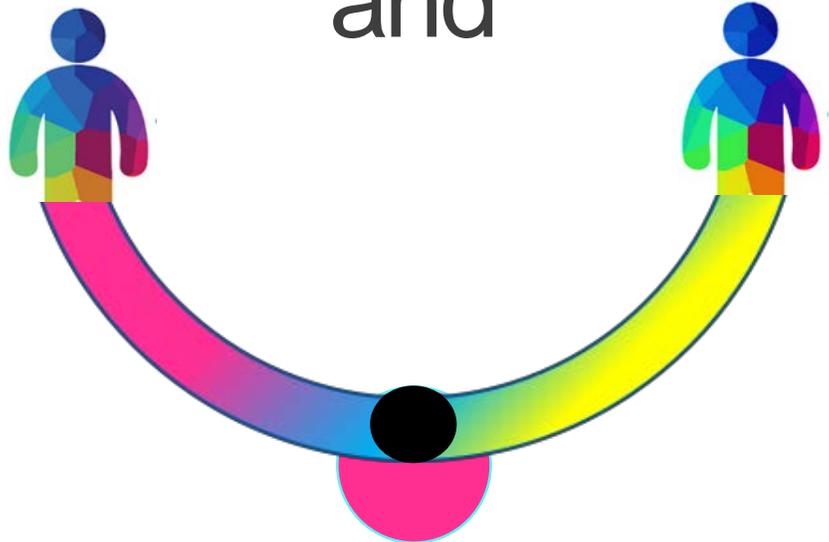


Patient Centricity enables us to do more with data with greater privacy

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

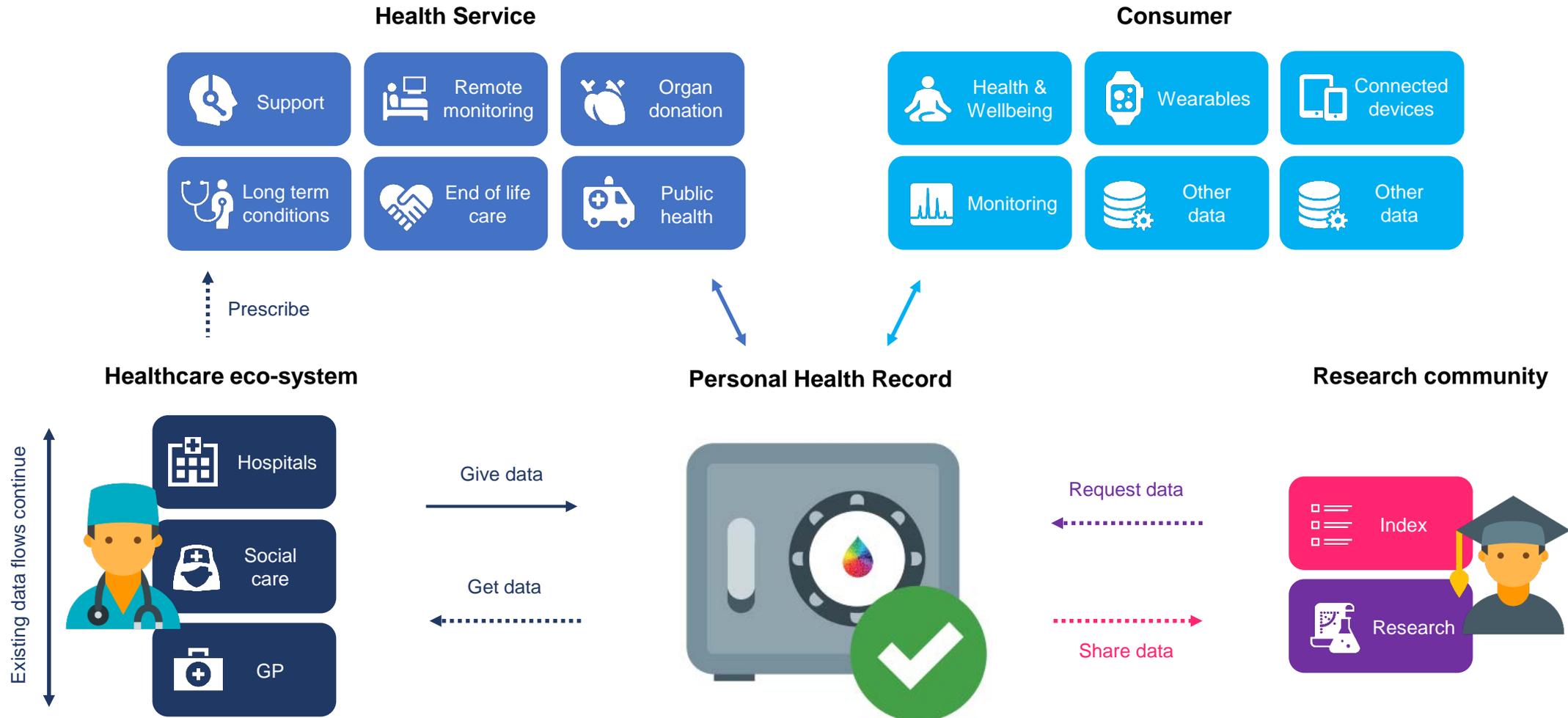


- Requires healthcare providers to open up data
- Mandate includes patient facing APIs
- Various standards/formats : BlueButton,CCDA, FHIR (including Epic and Cerner)
- 150 healthcare providers connected

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

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