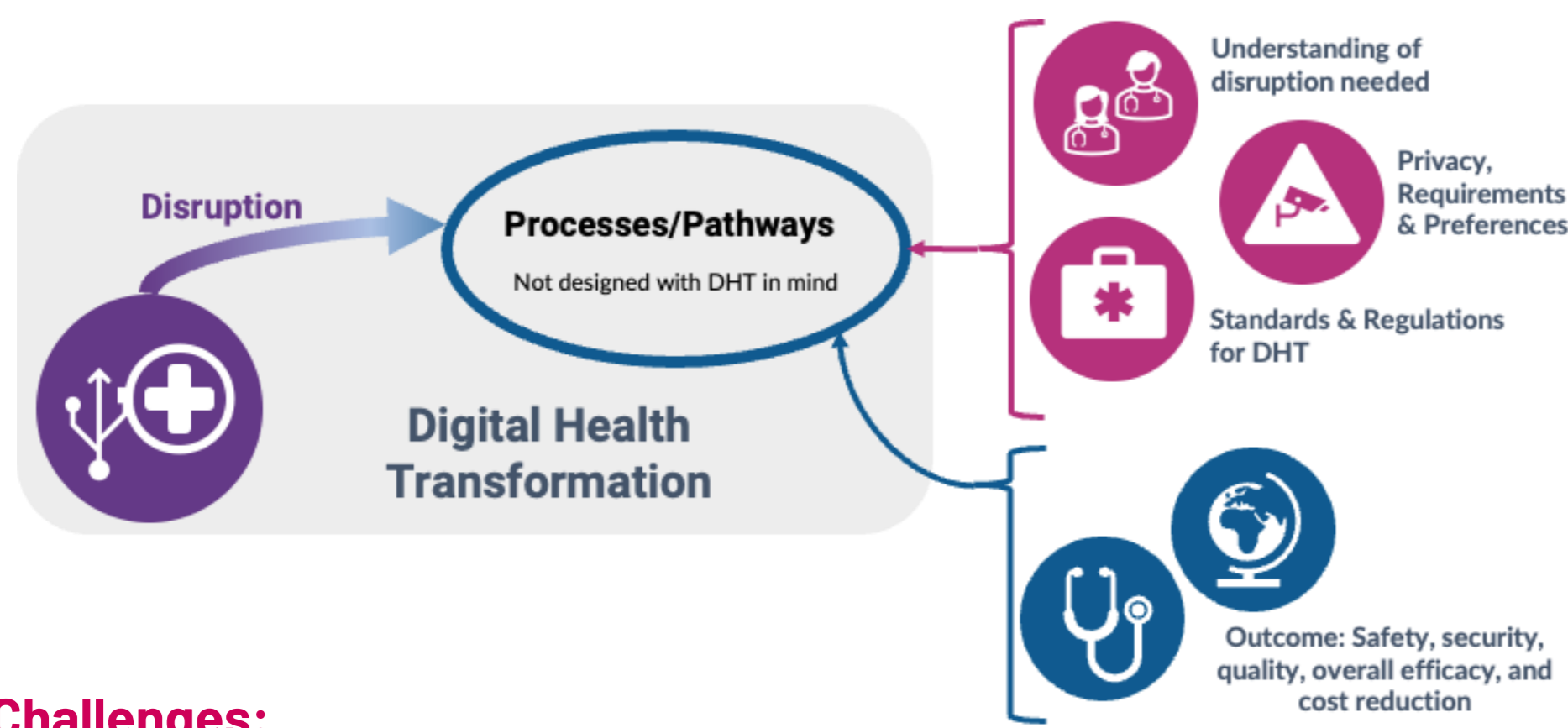


# DHP-Transform: Implementation decisions by designing, developing and evaluating a model for Digital Health Transformation

Ita Richardson, Marco Alfano, Noel Carroll, Katie Crowley, Markus Helfert, Silvana Togneri MacMahon

## 1 STATE OF THE ART:

- Digital Health Transformation (DHT) is leading to integrated and personalised healthcare
- DHT is indispensable in supporting Healthcare Delivery Organizations to respond to the increased incidence of chronic diseases (moving away from episodic and acute care)
- DHT requires a new theoretical framework guiding implementation, embedding, integration, and evaluation of digital technologies in healthcare practice

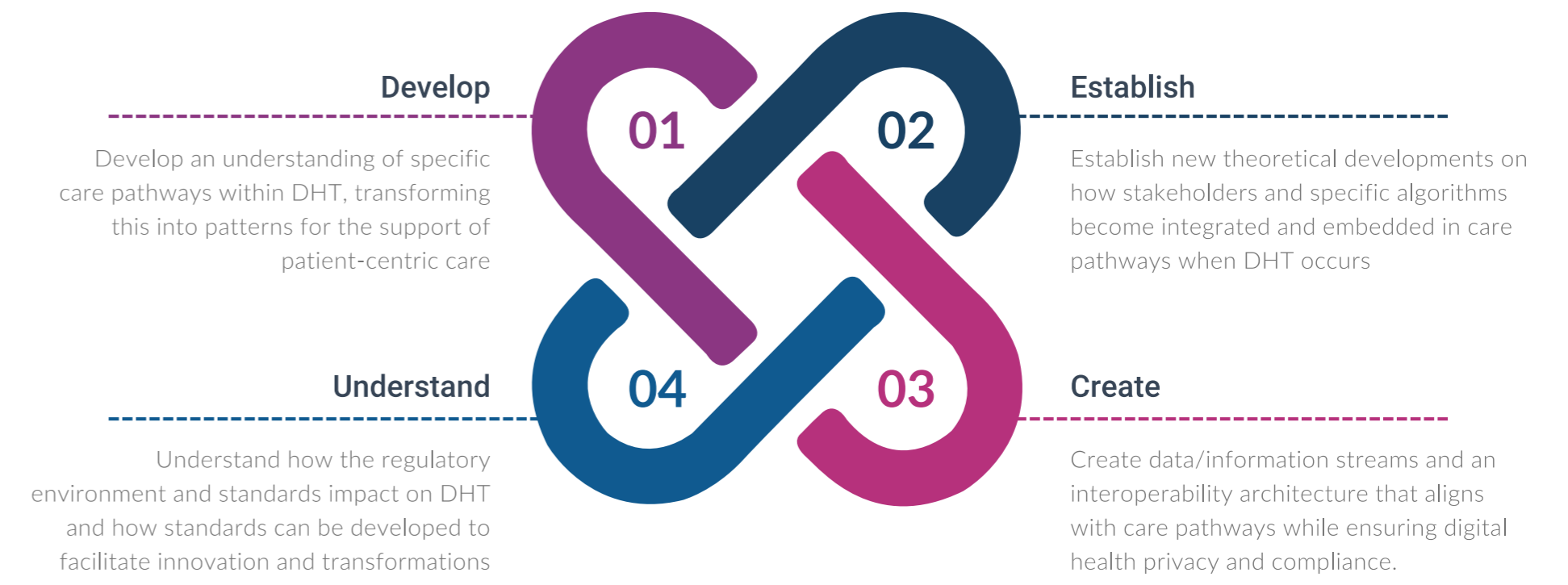


### Challenges:

The implementation of DHT is often based on weak assumptions, neglecting the increasing expectations for safety, security, quality, efficacy, and cost reduction

## 2 DHP TRANSFORM: A MODEL OF IMPLEMENTATION & INTEGRATION

DHP-Transform will develop a model supporting DHT, identifying patterns, presenting a theory for implementation decisions, and addressing the implementation aspects



### Benefits

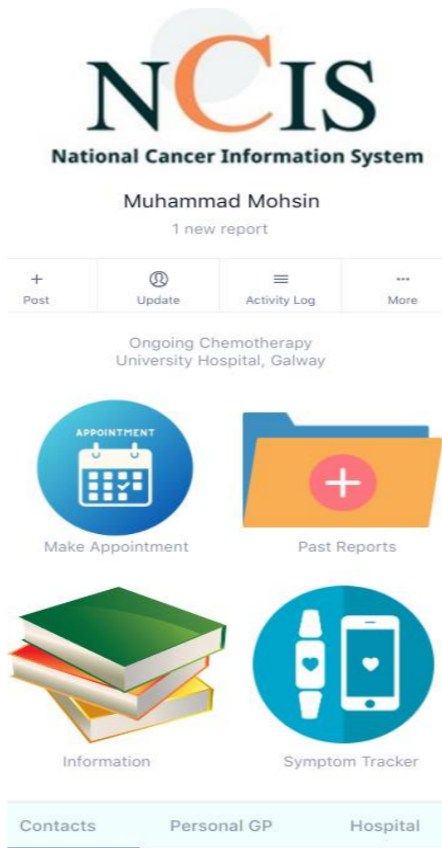
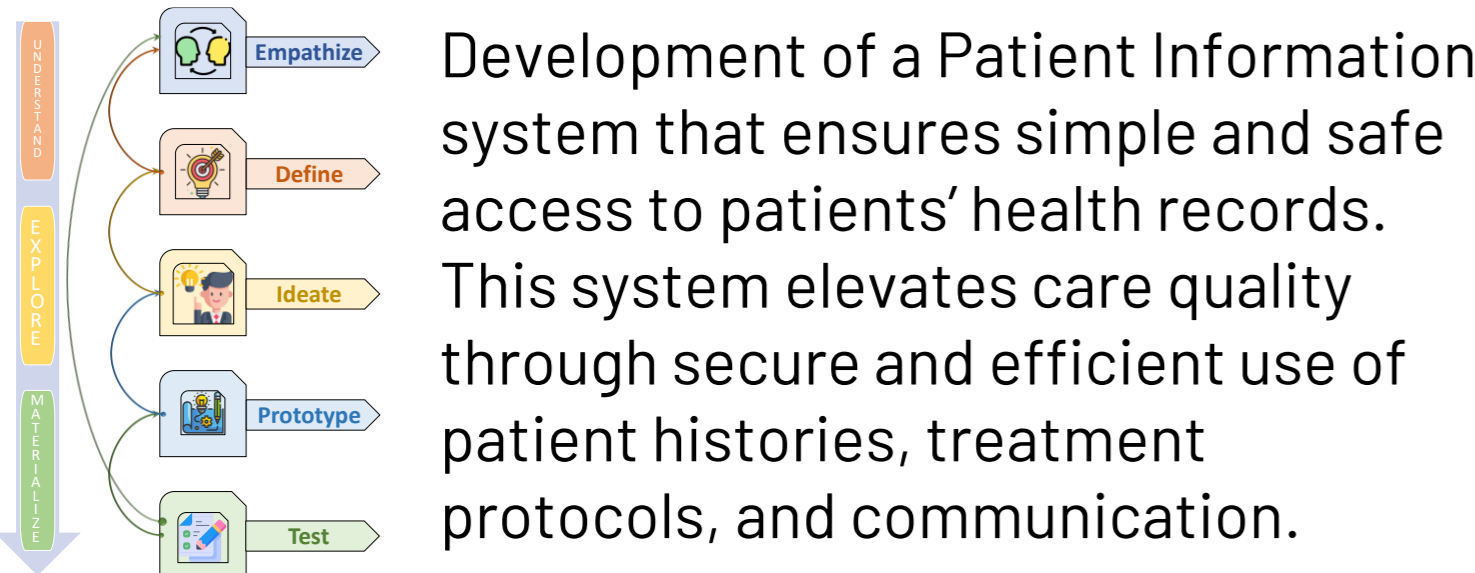
DHP-Transform will increase integration and proactivity in:

- working processes (care pathways)
- receipt of care by patients
- administration of care by clinicians
- provision of care by organisations
- implementation of regulatory/legal requirements
- involvement by society

## 3

### Patient-centred Information Systems for Cancer

Muhammad Mohsin, University of Galway

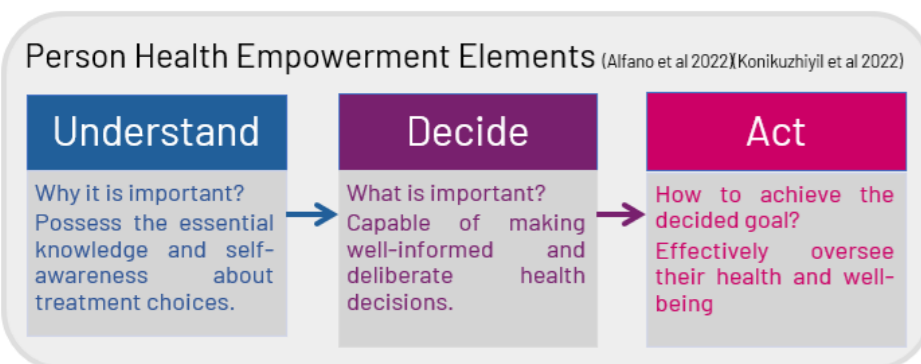


### Conversational Agent (CA) for Architecture Health & Well-Being Empowerment

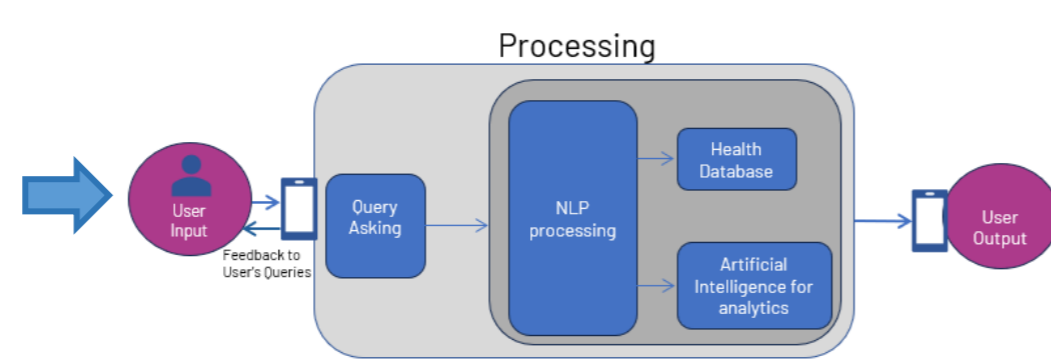
Maryam Nawaz-IVI, Maynooth University

Most CAs are implemented as disease and health condition specific. There is a lack of architectural implementation in terms of health empowerment elements understanding, decide and act

#### Research Solution



#### Initial CA Architecture

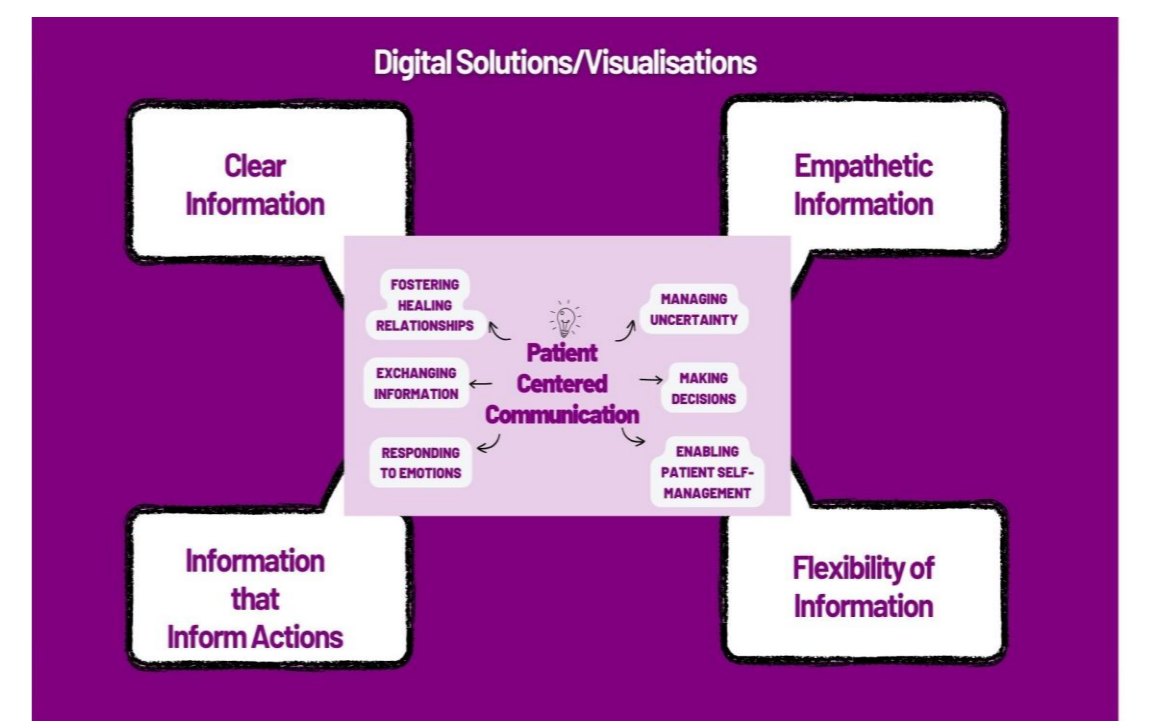


## 4

### Visualisations for Enhanced Patient-Centred Communication

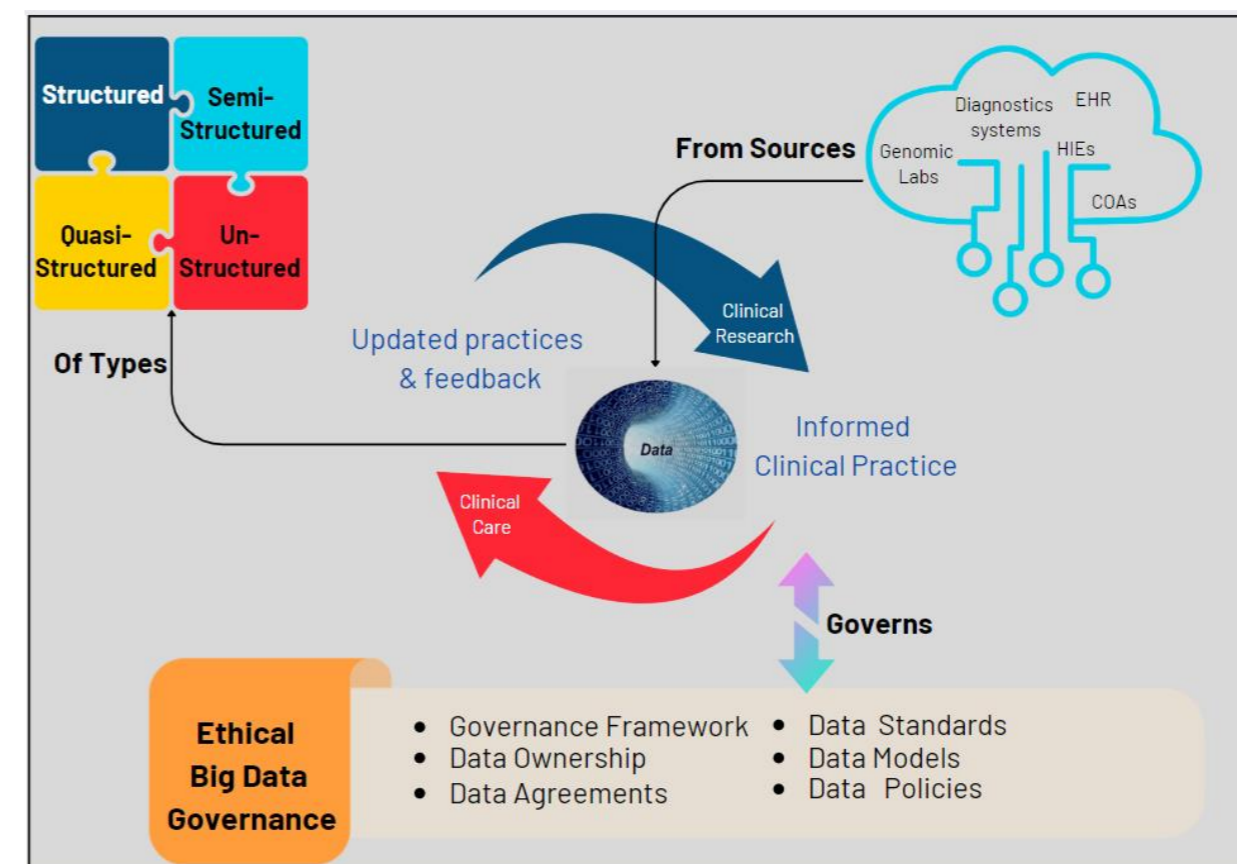
Hillary Azungah, University of Limerick

The project investigates patient information preferences in cancer care, seeking to inform the design of intuitive, patient-centered digital health interfaces/ visualisations.



### Development of an Ethical Big Data Governance Framework

James Mathew, University of Limerick



Developing an ethical big data framework for Precision Medicine use case. The framework is developed in the context of big data models, policies and standards, to handle personal health data ethically.

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