

A large, modern building with a blue and white facade, featuring a glass-enclosed lower section. The building is set against a blue sky with scattered white clouds.

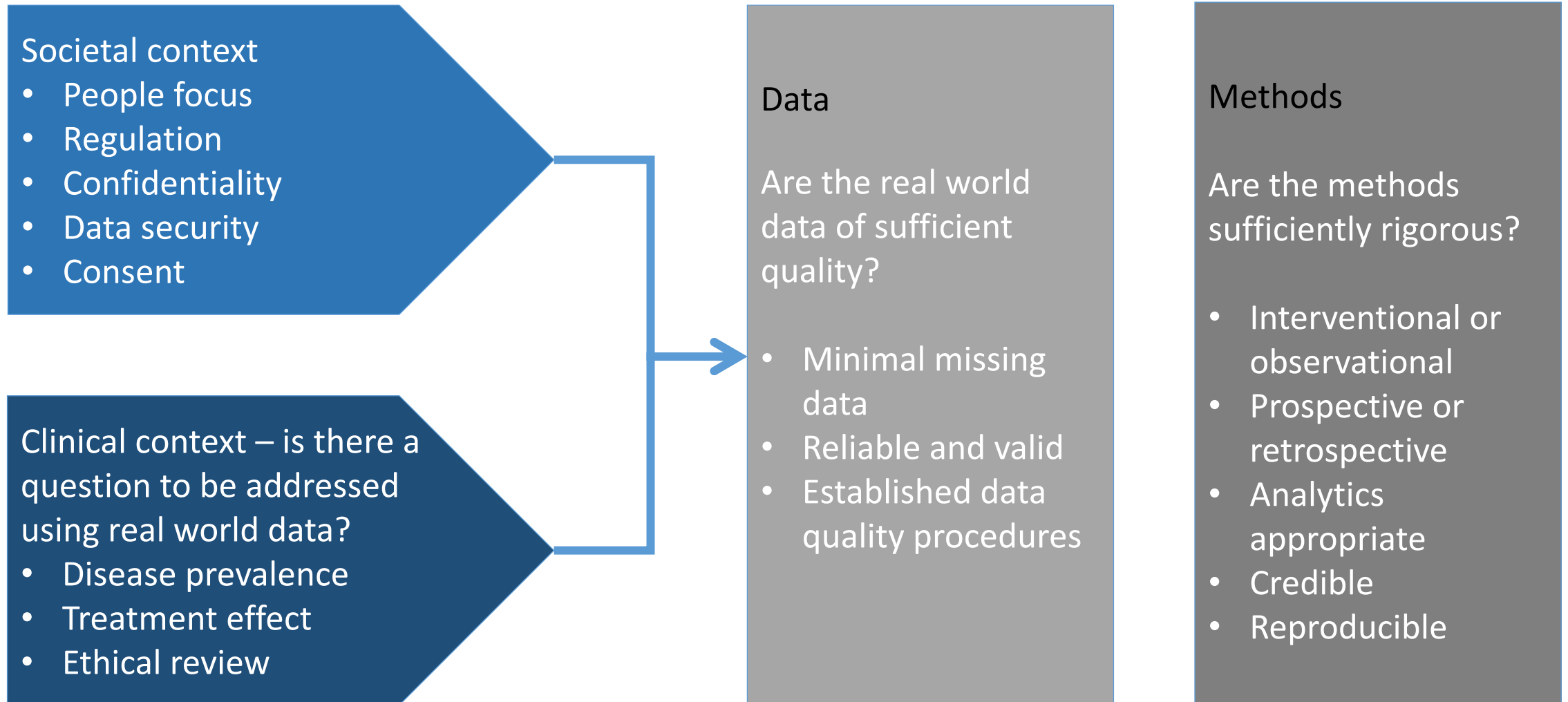
Accessing health data in east London

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24th January 2019



Considerations for using EHR data for health research



Where are the data?

East London –Health IT infrastructure

- Primary care – 3 GP systems
- Secondary care – 1 system: 2 domains
- Mental health – 1 system : 2 domains
- Community care – 1 system: multiple domains
- Social care – at least 3 systems
- Research databases

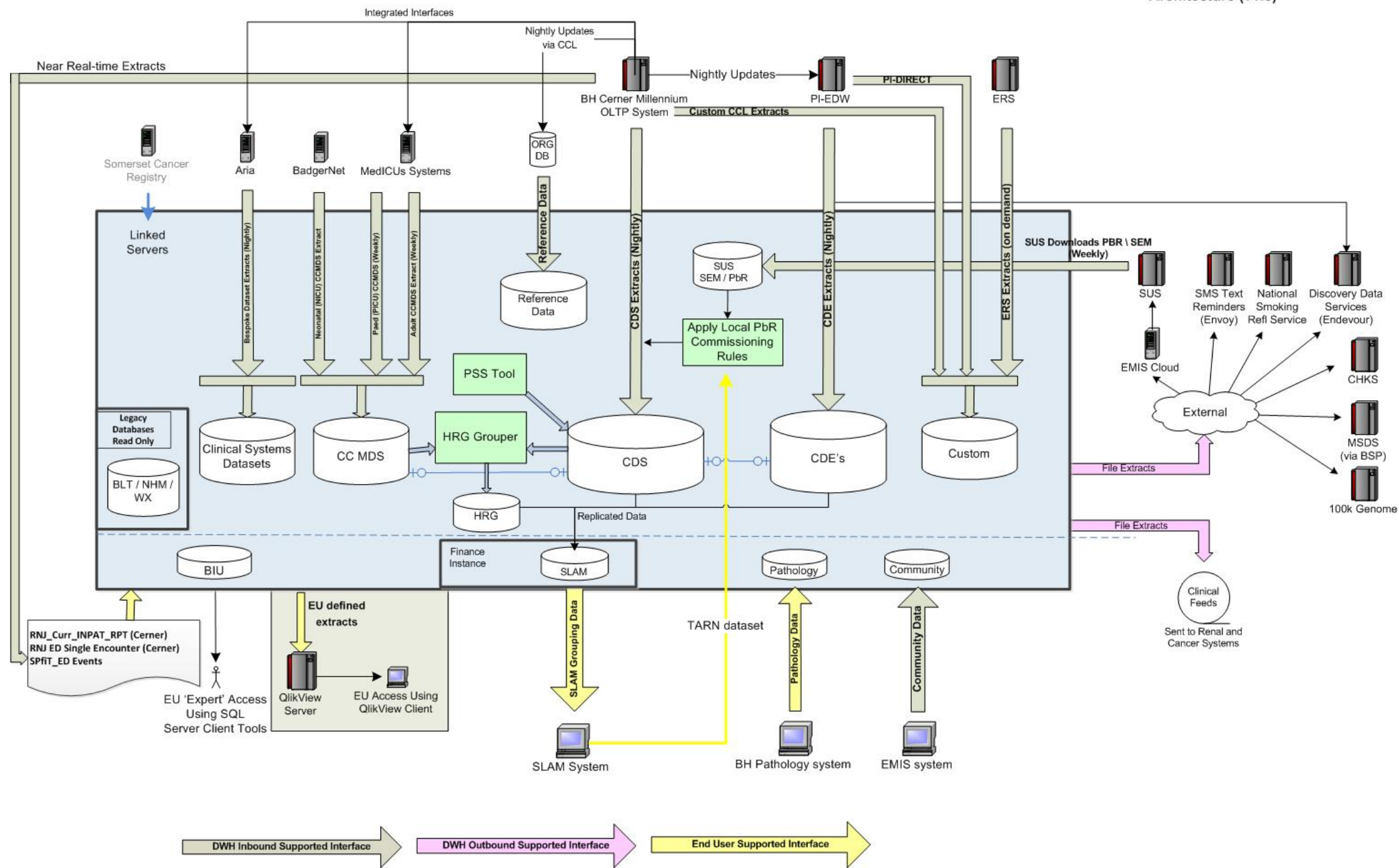
Health data sources in east London

- Barts Health enterprise EHR – Cerner Millennium
- Key clinical systems
 - Imaging – Sectra
 - Pathology – Clinisys WinPath
- Departmental systems
- GP systems – EMIS, TPP, Vision, Microtest
- Mental health – Servelec RIO
- Community care systems – EMIS
- Social care systems

Data types

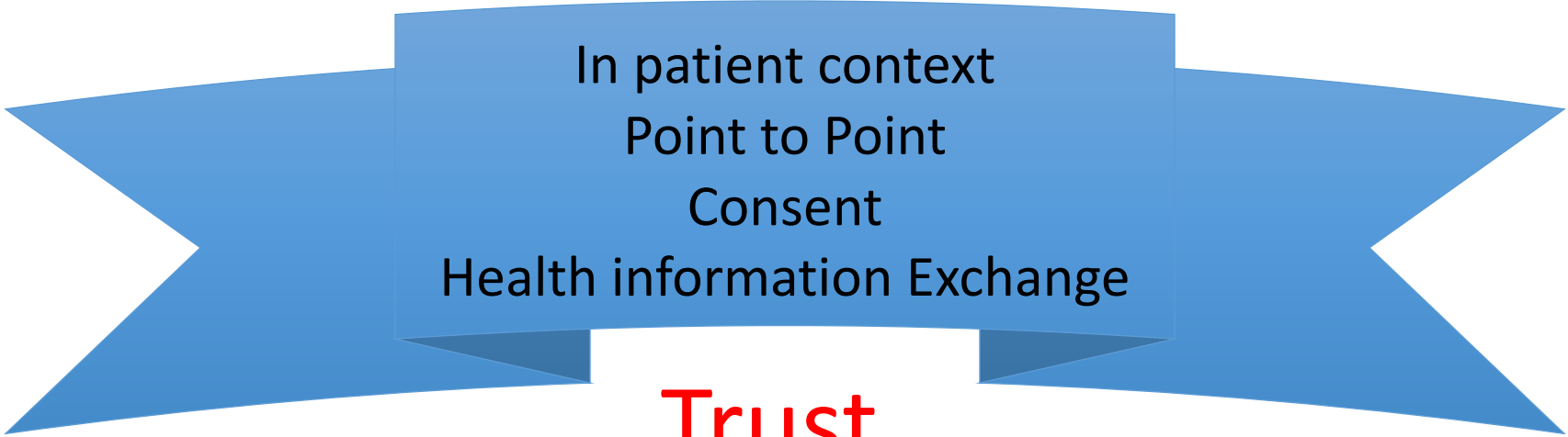
- Free text data – documents, reports, summaries, letters
- Semi-structured data recorded in system templates
- Structured data
 - Numeric laboratory data
 - SNOMED CT problem, diagnosis and procedure lists
 - ICD10 coded inpatient data
- Imaging data
 - Radiology
 - Pathology

Barts Health NHS Data Warehouse Architecture (v1.6)



The first steps towards towards real time data sharing 2012 onwards

east London Patient Record (eLPR) 100k views a month



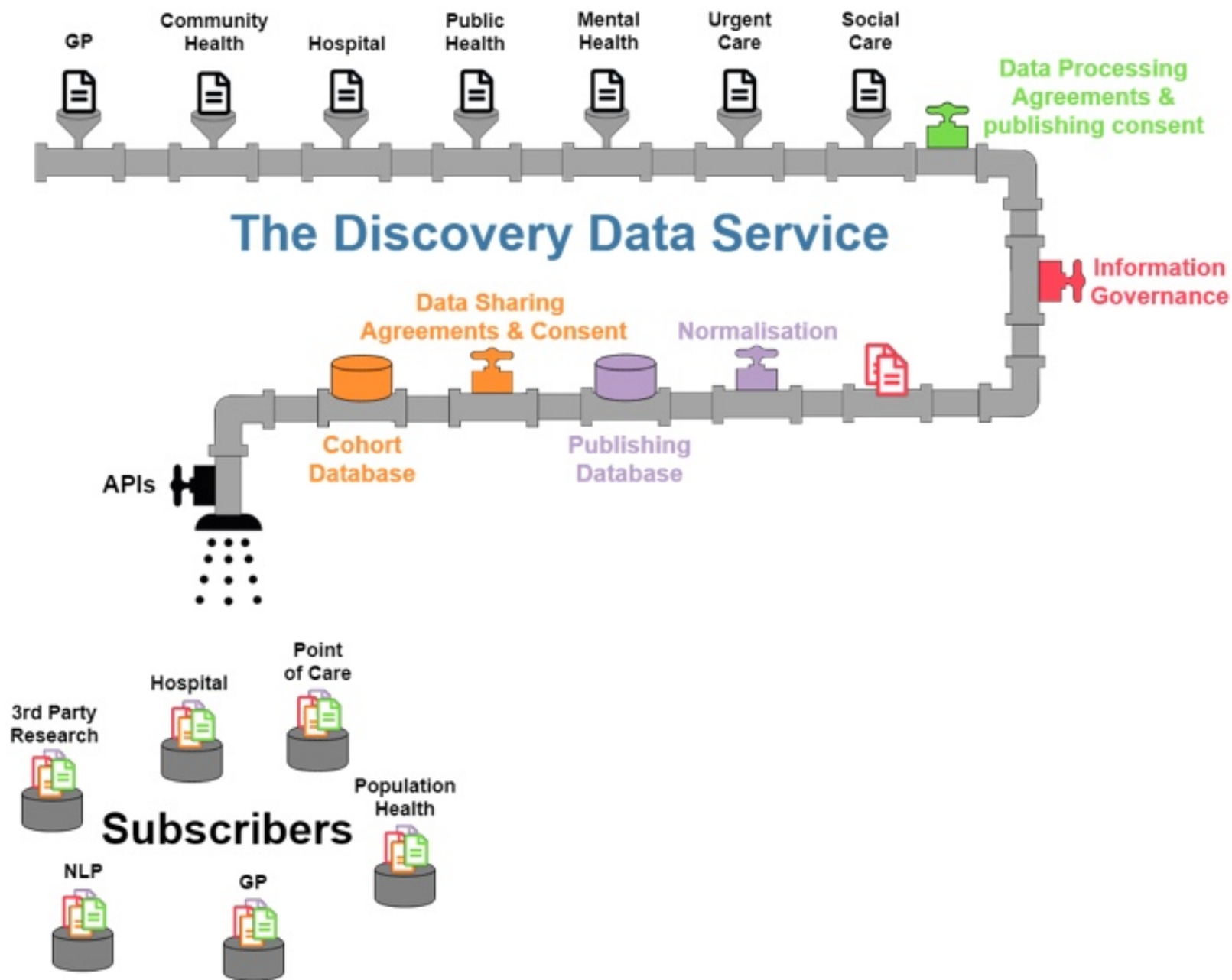
In patient context
Point to Point
Consent
Health information Exchange

Trust

Current content of the real time eLPR view

- Summary page of structured GP data including Read/SNOMED CT encoded problem and diagnosis data
- Secondary care
 - SNOMED CT encoded problem and diagnosis lists
 - Structured discharge summaries
 - Hospital ADT and appointments data
 - Laboratory and imaging results
- Mental health summary data (ICD10)
- Social care

Publishers



Human not technical challenges

- **Managing permissions and individual consent**
- **Assessment process for data requests**
- **Developing policies and protocols**
- **Regulatory compliance**
- **Funding streams**