

The challenge of healthcare data

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National Cancer Registration

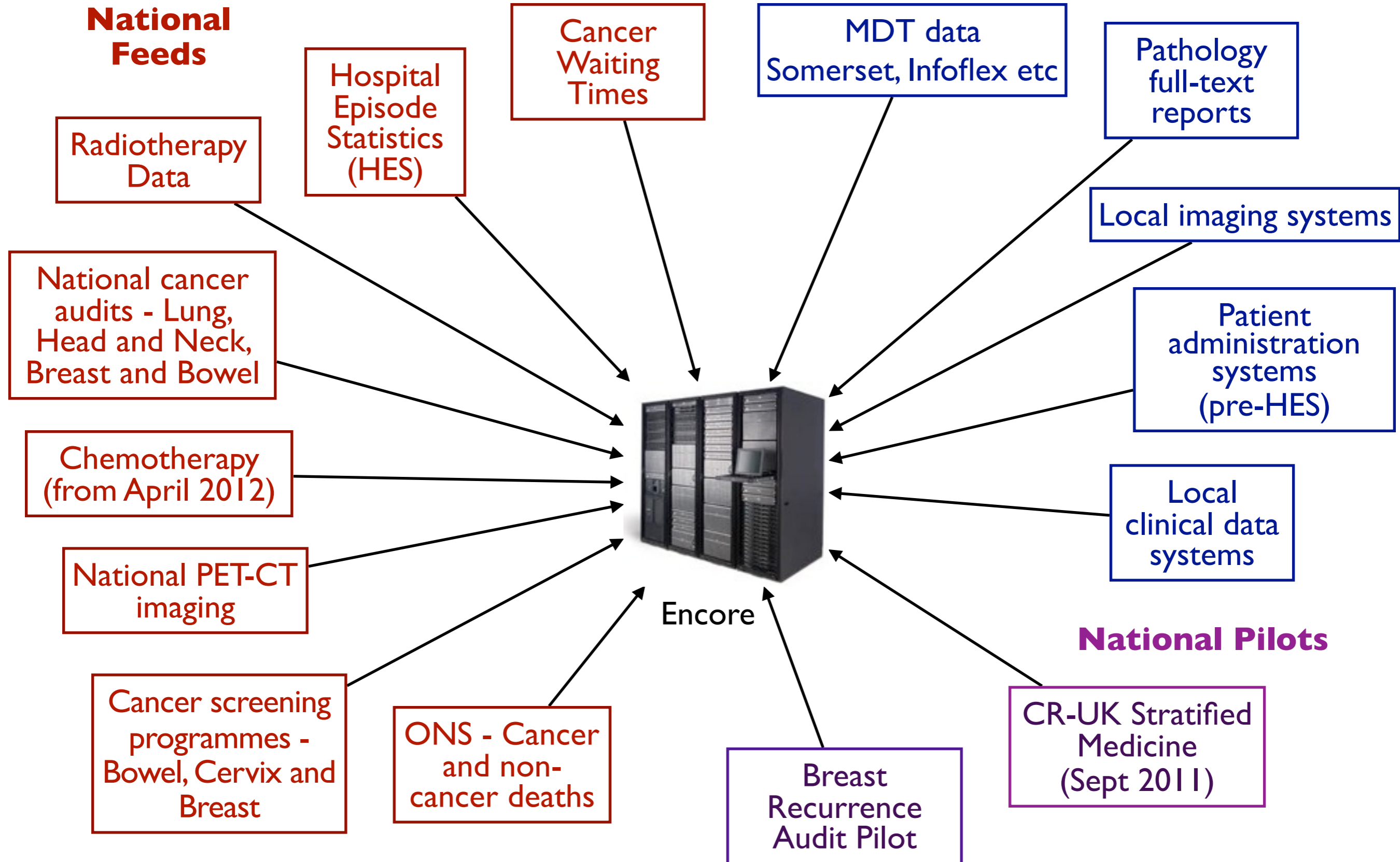
Background

- Why it is important
 - epidemiology of cancer
 - what is cancer registration
- Why it is difficult
 - Very complex data
 - Disparate systems
 - Brown-field site
 - Confidentiality
- Cancer as an exemplar
 - complexity of the data sources
 - movement of patients
 - outcomes
 - outliers

Systems and Solutions

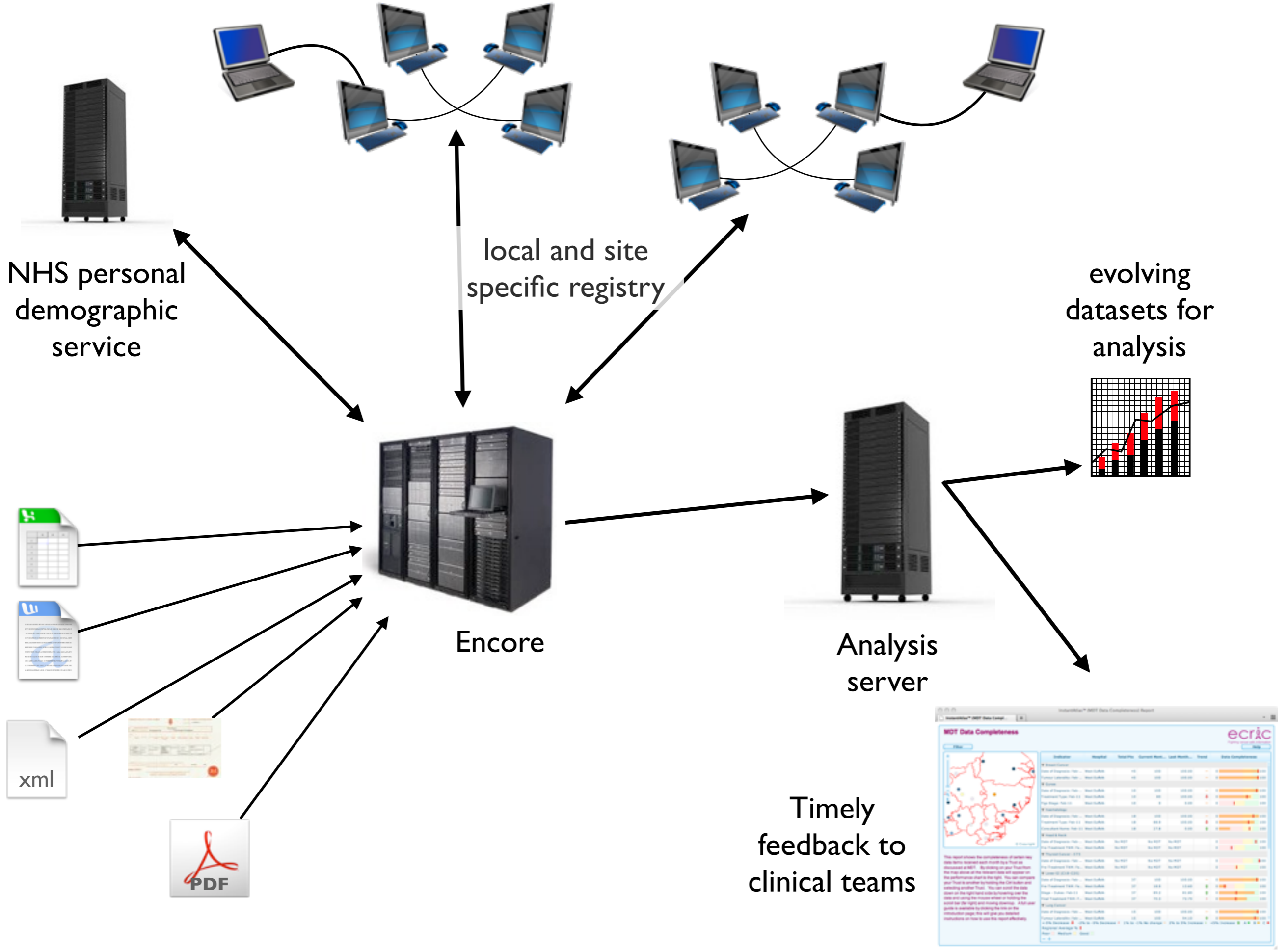
- What the systems are really like
 - the real history
 - Standard Government approach
 - data integration and extraction

Data sources - patient-level data



Our approach

- Our approach
 - any data is worth having
 - not about statistics to control for poor data
 - processing scripts
 - mass data importers
 - Ruby - with Oracle back end
- What we have achieved



NHS personal demographic service

local and site specific registry

evolving datasets for analysis

Encore

Analysis server

Timely feedback to clinical teams



Patient Pathway analysis

Where next

- Where next?
 - national cancer registration service
 - surveillance
 - full genome analysis
- Job opportunities -
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and so.....

Healthcare data, systems and processes are very complex and very messy.

We are on the verge of creating an integrated dataset and online service that will be unmatched anywhere in the world.

If you like hard problems and challenges - get in touch!

