Responding to a convergence of needs

**Clinical Research needs**
- Optimise clinical research processes
  - achieve faster and more accurate patient identification
  - identify sites that have access to the most suitable patients
  - reduce protocol amendments
- Enhance access to Real World Data
  - study the use of new medicines in real populations
  - conduct comparative effectiveness studies
  - monitor long term safety
  - gather evidence for adaptive licensing

**Healthcare needs**
- Improve quality and safety of care
  - enhance care co-ordination
  - increase adherence to clinical evidence
  - reduce medical errors and treatment delays
- Support patients in self-care and health maintenance
- Improve efficiency of care
  - optimise care pathways to improve outcomes
  - collate evidence for public health strategy and decision-making

Need to remove the bottlenecks to accessing and combining health data from diverse sources across Europe
Common challenges to the use of health data for person-centred care, and the re-use of health data for clinical research

- **Interoperability**
- **Data quality**
  - All data has to be complete and accurate at the point of capture.
- **Data security, privacy & ethics**
  - Complying with ethical, legal, and privacy requirements that differ from country to country is critical to gain acceptance with the general public, patients and health professionals.
- **Scalability and sustainability**
  - Solutions need to be adaptable and reusable and governed within a sustainable ecosystem.

Disparate and incompatible EHR systems
Variable quality, uniformity and organisation of the data
Different coding and content standards
Different languages across Europe

All data has to be complete and accurate at the point of capture. A single error presents risk to patient safety, and may be magnified as data are communicated and analysed.
Nahhhh...I don't think it will work. Let's do something different...something smarter...something cooler!
Each new project tends to reinvent wheels

- **WE INVENT VERY SIMILAR ENABLERS**
  - information models, clinical models, message models
  - ontologies, term lists, mappings and translations
  - tools of various kinds
  - service architectures

- **WE STUMBLE OVER VERY SIMILAR DISABLERS**
  - privacy protection, governance, data access, data sharing
  - information security
  - data quality

- **WE OVERLOOK VERY SIMILAR OPPORTUNITIES**
  - alignment of evaluation metrics
  - synergy of business models to ensure sustainability
and soon after a project is over......
Combining and sustaining the results of European projects
The European Institute For Innovation Through Health Data
The European Institute for Innovation through Health Data (i~HD)

has been formed as one of the key sustainable entities arising from the EHR4CR and SemanticHealthNet projects, in collaboration with several other European projects and initiatives supported by the European Commission.
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The vision of i~HD is to become the European organisation of reference for guiding and catalysing the best, most efficient and trustworthy uses of health data and interoperability, for optimising health and knowledge discovery.

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i~HD will support the Champion Programme, by

- providing an essential governance framework for the scale up of EHR4CR and future research platforms across Europe
  - certifying research platforms and service providers
  - establishing codes of practice and privacy protection policies
  - conducting audits and investigating any concerns about security and privacy
  - educating the public of the value of using health data for research and assuring them about the governance protecting their privacy
- supporting better quality and interoperability of health data
  - establishing a Network of Excellence amongst data providers to improve data quality
  - identifying ICT mature data sources e.g. hospitals
  - facilitating alignment amongst standards bodies, especially in semantic interoperability, ensuring that future standards prioritise clinical and research needs
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Enriching knowledge and enhancing care through health data