



The added value of DIPoH to the RI landscape

Andrew Smith

InFact final meeting, Jan 21 2021

<https://elixir-europe.org/>



Connecting molecular and population data

Challenges

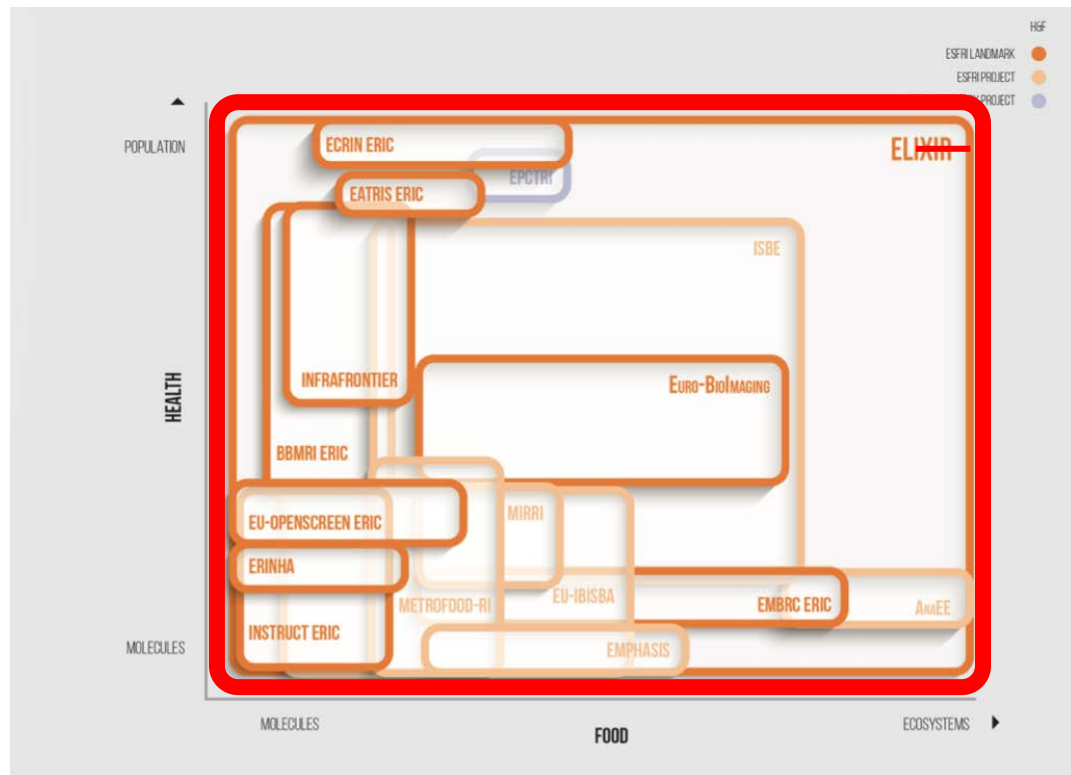
- Data harmonisation between clinic and research
- Terminology Mapping and Standardisation
- Sustainability of Efforts (project funding time-limited)
- Divergence of national healthcare systems

Opportunities

- Improved monitoring leads to better outcomes
- Better understanding of gene-environment interactions
- Improved machine learning, with predictive analysis decreasing health disparities

The world of life science ESFRIs

- Data acts as a foundation for health and food domain
- Some ESFRIs are data infrastructures; all ESFRIs have their own data needs
- Connections between ESFRIs is a political priority



ELIXIR Health Data Focus Group

Health Data Focus Group

The Health Data Focus Group aims to be the incubator of ideas relating to health data and is ELIXIR's formal channel to organise this.

Health data includes

- omics
- clinical (structured and unstructured EHRs, and clinical imaging)
- lifestyle/patient questionnaire
- administrative
- real-world wearables/mobile devices data.

All data will be anonymised/pseudonymised and consented for research. The collection of identifiable routine clinical data in healthcare systems are out of scope.



Integrating DiPOH into the ESFRI context

Collaboration between ESFRIs takes place through:

- EU projects
 - Examples: CORBEL, EOSCLife
 - Future grant opportunities for ELIXIR - DiPOH?
- Bilateral and joint collaborations
 - Examples of formal collaboration strategies: EuroBioImaging, EMPHASIS...
 - Joint positioning and advocacy via Life Science Director's group
- Local Node - Node collaboration
 - Example: HealthRI in Netherlands integrates ELIXIR NL, BBMRI NL and EATRIS NL
 - Future ELIXIR - InFact collaborations driven through local collaborations
 - Connections through and with COVID-19 Data Portal



A topical use case: SARS-CoV-2



<https://elixir-europe.org/>

ERA versus Corona Action Plan

ERAvsCORONA ACTION PLAN: FIRST RESULTS

Acting fast - acting together



European Union

26 June 2020
#Coronavirus



"Three months ago, we were facing a pandemic of unknown proportions. But Europe's scientific talent and innovative capacity gave us hope. Through the ERAvsCorona Action Plan, we jointly mobilised European research and innovation to tackle the crisis, and we did it fast. We joined forces, scaled up our response, and it made us stronger."

Mariya Gabriel, Commissioner for Innovation, Research, Culture, Education and Youth

Relevant Actions for RIs:

- Access to Research Infrastructures
- Research data sharing for SARS-CoV-2 and the Coronavirus

Key roles for DiPOH!



Infrastructure. Data. People. Trust

Universities



Research Centres



Consortia



National Health Data Infrastructures



Hospitals



Public Health Laboratories




Medical Centres



Publications
Genomic sequences
Protein structures
Protein sequences
Expression datasets
Drug targets
Chemical compounds

 Viral data
SARS-CoV-2
Data Hubs

Human/
clinical data 
Federated EGA



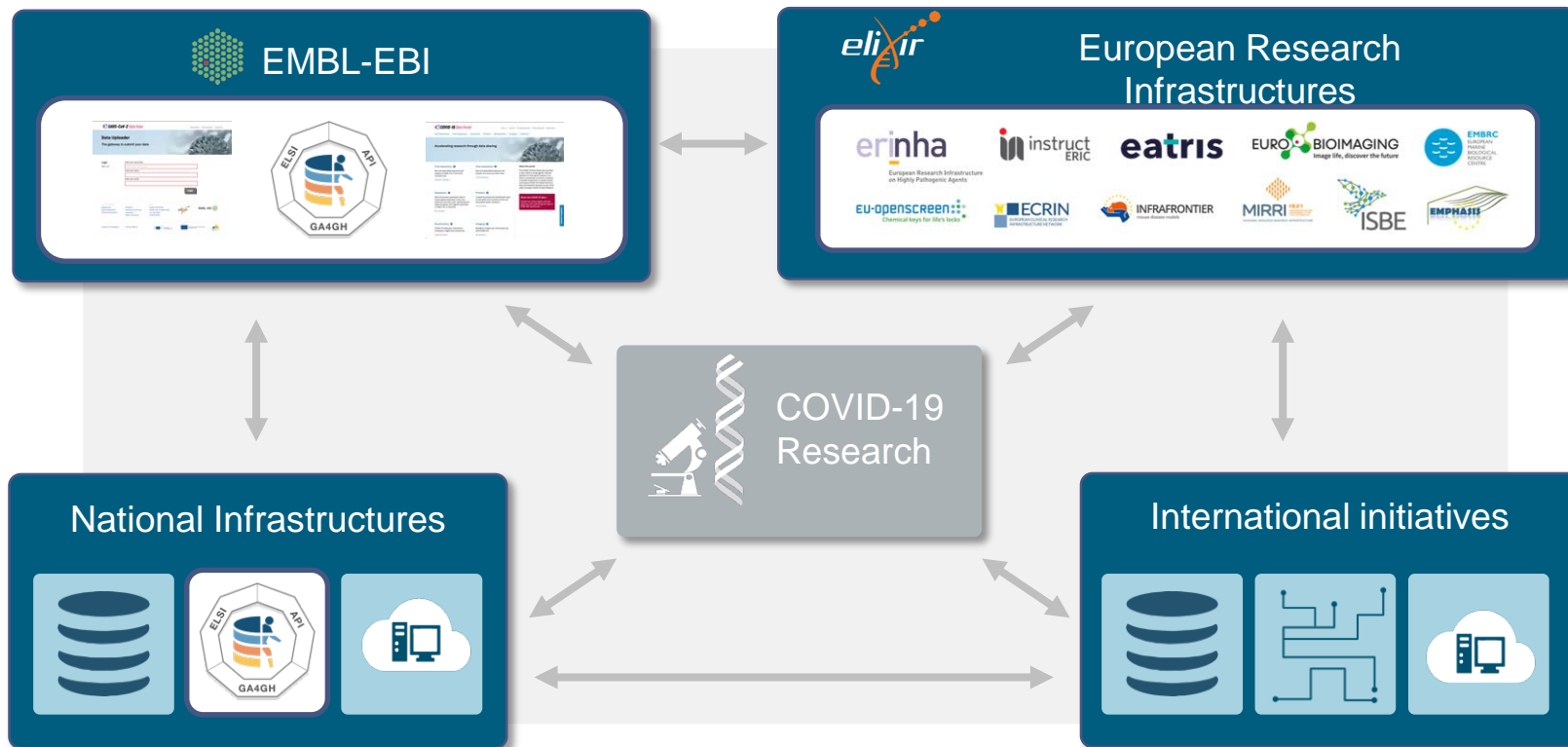
● Open research data

● Access-controlled data

COVID-19
Data Portal



European and global connectivity





The added value of DIPoH to the RI

Andrew Smith

InFact final meeting, Jan 21 2021

<https://elixir-europe.org/>

