ELIXIR-NL

DIGITAL RESEARCH INFRASTRUCTURE FOR LIFE SCIENCES



ELIXIR – ESFRI LANDMARK

DTL >>>

21 Countries + EMBL signed ECA

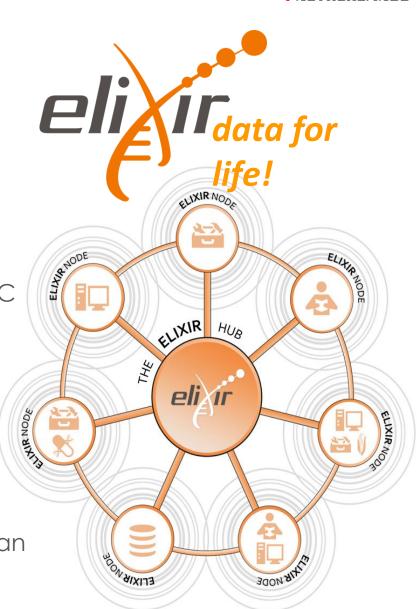
- Countries have 1 node
- Hub hosted by EMBL-EBI

ELIXIR-NL hosted by DTL

- Jaap Heringa HoN
- Rob Hooft TC, Celia van Gelder TrC
- Bea Pauw (NWO), Ruben Kok in ELIXIR Board

Hub-NL collaboration agreement

- Node service delivery plan
- Implementation studies
 - DTL Board: only DTL partners can join
- EC H2020 calls, Infradev, IMI,



THFRI ANNS



ELIXIR PLATFORMS

DTL >>>

ELIXIR's activities are divided into five areas called 'Platforms'. These are Data, Tools, Interoperability, Compute and Training. The Platforms are managed by Platform leaders and the work is carried out by groups within the Platforms.



Data Platform

Aims to identify key data resources across Europe and support the linkages between data and literature



Tools Platform

Helps researchers find the best software tools to analyse their data.



Compute Platform

Develops services to make it easier to store, share and analyse large datasets.



Interoperability Platform

Develops and encourages the adoption of standards to describe life science data.



Training Platform

Helps scientists and developers find the training they need, and also provides that training.

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ELIXIR PLATFORMS

ELIXIR-NL remit so far:
Interoperability
Compute
Training



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NATIONAL ROADMAP

ELIXIR-NL DIGITAL RESEARCH INFRASTRUCTURE FOR LIFE SCIENCES



Roadmap Cluster: ELIXIR-NL Cluster partners: DRE, euroCAT, ELIXIR-NL, SURF (NLeSC)

DRE

Radboudumc

Arnoud van der Maas Ariaan Siezen



Andre Dekker Philippe Lambin



Jaap Heringa Chris Evelo Rob Hooft



DIGITAL RESEARCH ENVIRONMENT (DRE)

• System-agnostic medical research environment

- Developed at Radboud MC (by private party RSRCH BV/Aridhia)

• Allowing safe and secure collaboration

- Each user (group) gets own 'paddy'

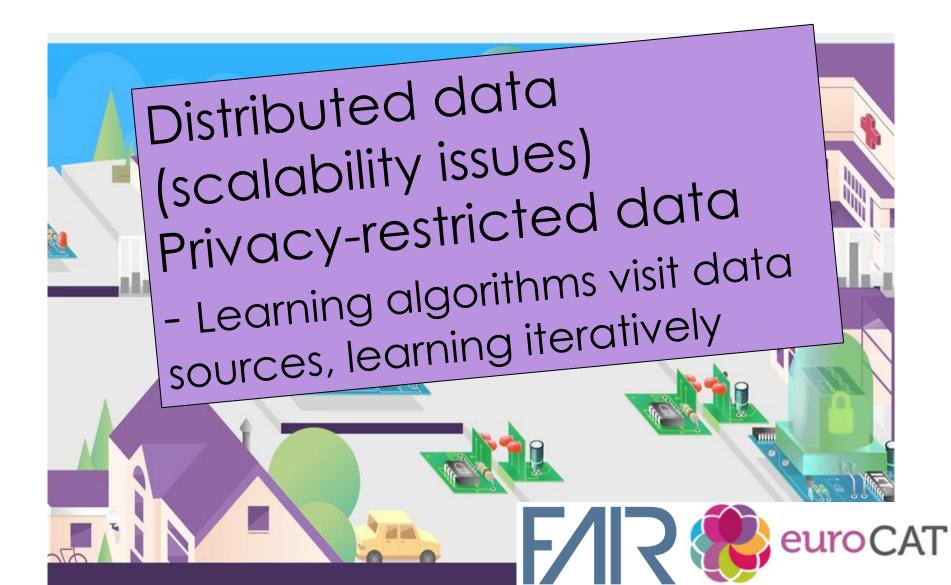
• App store for data and tools

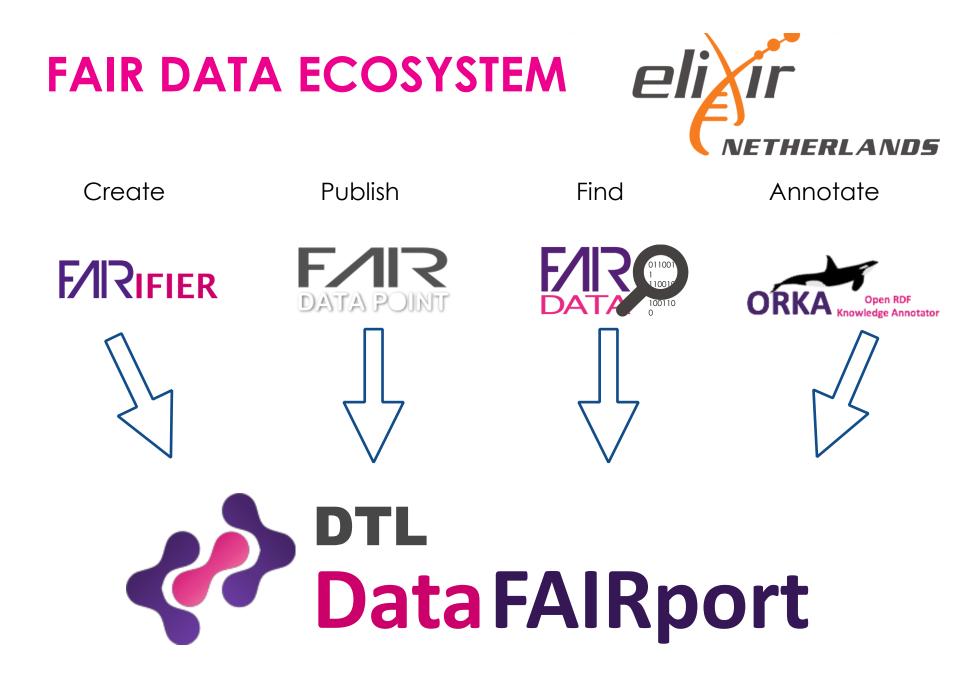


DISTRIBUTED LEARNING - PERSONAL HEALTH TRAIN APPROACH

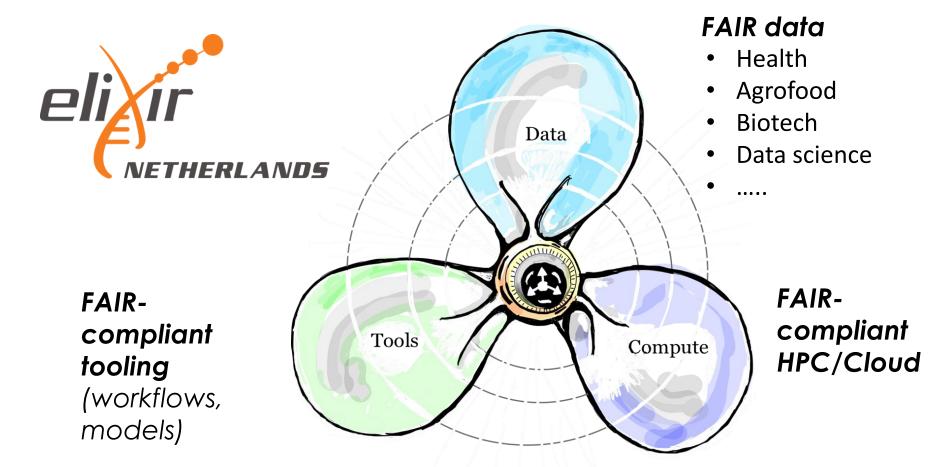


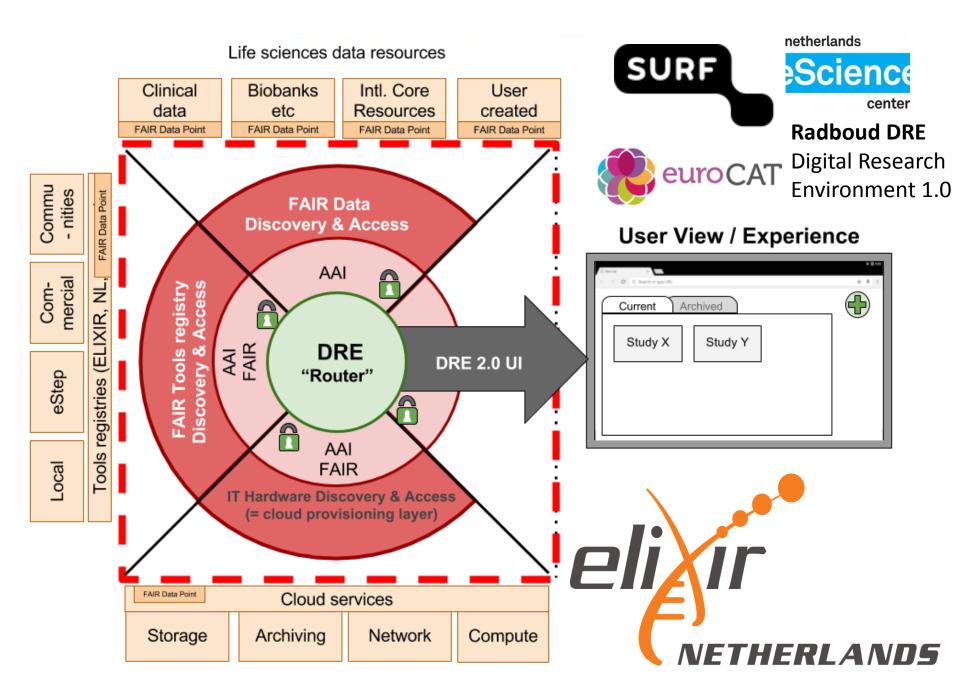
DISTRIBUTED LEARNING - PERSONAL HEALTH TRAIN APPROACH





FAIR INFRASTRUCTURE DATA, TOOLS, WORKFLOWS, MODELS AND COMPUTE





FAIR INFRASTRUCTURE DATA, TOOLS, WORKFLOWS, **NETHERLANDS** MODELS AND COMPUTE

- Community digital research infrastructure underlying all LS research (and beyond)
- Easy access for **users** and **contributors**
- Integrating FAIR data, analytics and compute
- Public-private
- Decompose existing infrastructures (e.g. DRE) and then re-amalgamate best-of-breed modules
- 'app store-type' environment geared for privacyaware collaboration
- ELSI support (privacy-sensitive data)
- Assisting in data management planning (+ software)
- Cross-ESFRI, cross-Roadmap cluster collaboration



ELIXIR: PREPARING 2ND 5-YEAR PLAN

- FAIR data management
- Core resources

2007 - 2012

PREPARATORY

PHASE

DTL

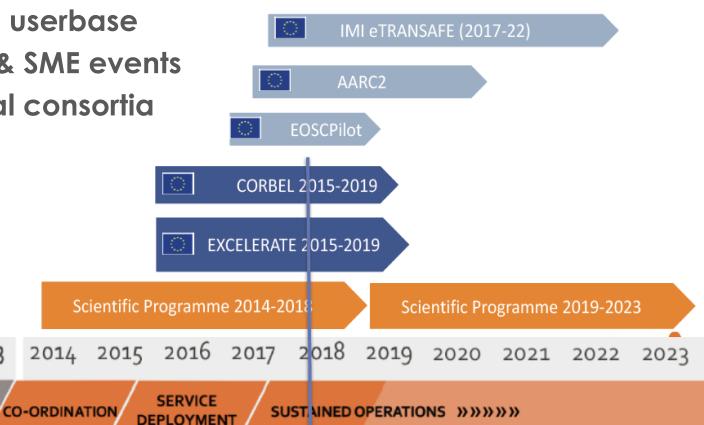
- Christine Durinx
- Broadening userbase
- Innovation & SME events
- International consortia

2013

INTERIM

PHASE

2014



EXTENDING ELIXIR-NL REMIT

NETHERLANDS

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ELIXIR Human Data

Interoperability Platform

data.

Develops and encourages the acResources and projects in human find of standards to describe I fe sciengenomics and translational data

