

Dutch involvement in the ELIXIR data management project "CONVERGE"







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www.elixir-europe.org/converge

Outline

The ELIXIR-CONVERGE context provides an excellent mechanism to connect data management and stewardship related activities in the Netherlands to activities at the European level, which will benefit both parties

- Introduction: ELIXIR-CONVERGE project
- Work packages with ELIXIR-NL involvement

Link to presentation:

https://doi.org/10.5281/zenodo.4963901







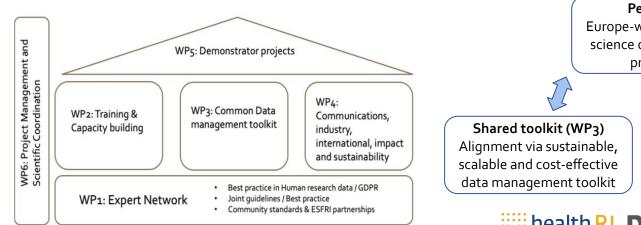




Connect and align ELIXIR Nodes to deliver sustainable FAIR life sciences data management services

ELIXIR-CONVERGE Objectives:

- 1. To develop a model for transnational life sciences data management support
- To strengthen Europe's data management capacity through a comprehensive training programme
- 3. To align national data management standards and services through a data management toolkit
- 4. To align national investments to drive local impact and the global influence of ELIXIR



People (WP1)

Europe-wide network of life science data management professionals



Skills (WP2)

Comprehensive training programme delivered throughout the European Research Area











WP1: People: Expert network & scientific best practices



- <u>Data Management Coordinators</u>: 1-2 coordinator(s) from each node (ELIXIR-NL: Rob, Mijke), coordinating local node contributions
- <u>Data Management Network</u>: for all node data management staff
- Monthly meetings, intranet groups, mailing lists and slack channels



- Scientific best practices, integrated into <u>RDMkit</u> (WP3)
- Topics of the <u>data life cycle</u>, in the various <u>life sciences domains</u> and to help solve <u>problems</u> that data stewards and their researchers are likely to experience











WP1: ELIXIR-NL: Bringing together the data stewardship community

- Facilitating communities is an essential element of professionalising data stewardship and FAIR data stewardship capacity building.
 - Exchange experiences and good practices
 - Jointly tackle data challenges
- For many years, DTL facilitates the <u>Data Stewards Interest</u>
 <u>Group</u> (DSIG), with regular meetings (next one: June 29)
 and a vibrant (<u>slack channel</u> 566 members) community for data stewards
 and like-minded in the Netherlands **and beyond (welcome to join!)** to share experiences
 and foster the (Dutch) national implementation of data stewardship
- Within Health-RI, a dedicated <u>Data Stewardship Community</u> (DSC) unites healthcare data stewards for fruitful national collaborations, so each institute does not have to reinvent the wheel locally







Data Stewardship Interest Group

204 members*

msterdam (AMC/VU/VUMC, NLESC)



Groningen (UMCG, Uni



WP1: ELIXIR-NL: Bringing together the data stewardship community





Status: Recognised & Endorsed

Chair (s): Mijke Jetten, Peter Neish, Niklas Zimmer, Varsha Khodiyar, Romain DA

TAB Liaison: Christine Kirkpatrick

This is the webpage of the RDA Interest Group on professionalising data stewardsl the 14th Plenary (Helsinki), and a first informal group of interested people was est. We are currently in the process of being endorsed.

Are you curious about our ambitions, goals and activities. Make sure to read our clactive task groups, tackling the following challenges:

- a business case for data stewardship
- data stewardship terminology
- the integration of data stewardship across an organisation
- job profiles for data stewards
- · training for data stewards
- · career tracks for data stewards
- networking and knowledge exchange
- and certification.

Webpage and slack channel

Most task groups could use active engagement. Each task group/challenge has join the channel of your interest if you want to help out (read here on how to

Education and Training on handling of research data IG

Status: Recognised & Endorsed

Chair(s): Laura Molloy, Katarzyna Biernacka,

Mijke Jetten, Amy Nurnberger

This page captures documentation associated with ETHRD-IG focus groups and their work. documentation may include scoping statements, working documents, reports, outputs/rec

Please organize focus groups in order of date of establishment then alphabetical. Format t Heading 2 using this convention where date refers to the group establishment date: YYYY-I name

2020-06, Learning resources collectors

- Initial scoping, 20200930
- · List of training resources related to research data management
- Characteristics of learning resource collectors, e.g. registries, catalogues, etc.

2020-06, Minimal metadata for learning resources

- Initial scoping, 20200930
- Metadata comparison
- Metadata comparison by user stories

2020-06, Extended documentation enabling reuse of le

Initial scoping, 20200930

Webpage and slack channel

WP2: Skills: Training & capacity building: Data management training by the nodes for the nodes

- Build a comprehensive, interconnected and sustainable ELIXIR training and capacity building programme in data management across all nodes
- Connect the activities in the ELIXIR training and capacity building programme in Data Management sustainably to the national roadmaps of the nodes
- Establish high level of data management and data stewardship knowledge and expertise across ELIXIR nodes
- 22 ELIXIR nodes are involved in WP2
 WP2 leads: Celia van Gelder (NL), Patricia Palagi
 (CH), Alexia Cardona (UK), Brane Leskosek (SI)

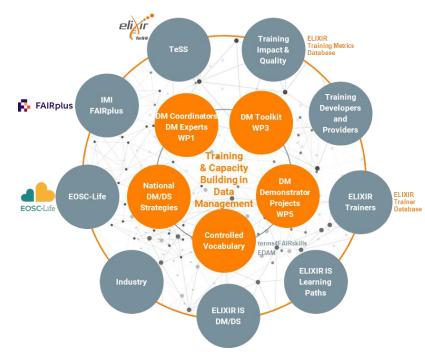


Image: Alexia Cardona











WP2: Define, build and deliver the training portfolio and roadmap

Design courses, develop course materials (a.o. through hackathons) and deliver courses

&

- Audiences: data stewards, researchers, tool developers and trainers
- In alignment with node priorities and/or national strategies
- First trainings have been delivered!



Training gap analysis has been performed

Data Management and Stewardship	ELIXIR Data Management Toolkit	Reproducibility
Data Management Plans	Policies	Ethics
Capturing/collecting/creating data	Finding data/Data discovery (Reusing existing data)	infrastructure for storing and sharing data
Documenting & Organizing data	Processing, analysing data	FAIR
Meta-data	Publishing, sharing data & archiving data	

- Upcoming:
 - Training material generation hackathons related to the gap analysis topics
 - Train-the-data-stewardship-trainer courses











WP2: ELIXIR-NL: Data stewardship competency framework

Responsibilities, activities, KSAs and learning objectives for:

- **Data steward policy**: institute and policy focused
- **Data steward research**: project and research focused
- Data steward infrastructure: data and e-infrastructure focused

Report (2019) "Towards FAIR data steward as profession for the life sciences", with matrices and a Zenodo community with all output

Implemented in the EBI <u>Competency Hub</u>

Work continued in the Dutch National Programme Open Science (NPOS) and the NPOS F professionalising data stewardship report

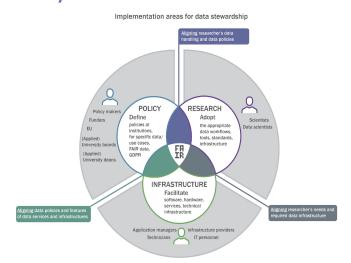
 A collaborative effort of over 30 representatives of universities, UMCs, UASs, service providers, and representatives of the major Dutch umbrella organisations











http://doi.org/10.5281/zenodo.3460552



WP2: ELIXIR-NL: delivering FAIR data stewardship training

 Helis Academy course "FAIR Data stewardship for life sciences" (all materials are available for reuse)



- <u>First edition</u> (2019)
- <u>Second edition</u> (2019)
- Third edition (2021) (in this edition observers from ELIXIR-IT and ELIXIR-SE attended, as we will help them deliver a similar course in their country in 2021)
- ELIXIR-NL <u>Technical Data Stewardship Course</u> 2019
- Data stewardship training in 2020 for Early Career Researchers from Marie Curie ITNs
 - Combating Disorders of Adaptive Immunity with Systems Medicine (materials)
 - Prostate Cancer Extracellular Vesicle LifeCycle (materials)
- In 2020, various data stewardship webinars and metadata workshops were given for data stewards and project leads of the ZonMw granted <u>Covid-19 projects</u>, as a collaborative action of GO FAIR, Health-RI and DTL, as part of the ZonMw FAIR data requirements



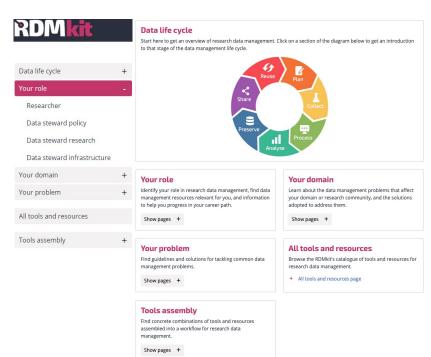








WP3: shared toolkit: RDMkit



RDMkit — A toolkit that scales and enables

Support the data needs of Europe's estimated **500,000** life scientists A user-oriented guide to the FAIR RDM activities of ELIXIR



increase self-sufficiency



support researchers to know and utilise RDM services



build capacity and skills in every research institute



pool the expertise of the community for the community

https://rdmkit.elixir-europe.org











WP3: ELIXIR-NL: connecting RDMkit & the DSW



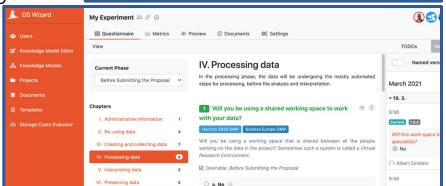
- Linking RDMkit and <u>Data Stewardship Wizard</u> in both directions, incorporating the knowledge of RDMkit in the DSW knowledge model
- Web-based application for preparing smart Data Management Plans. It connects to learning resources and helps raise awareness about data stewardship challenges
- Researchers: support in data stewardship planning, raise awareness
- Data stewards: checklist data stewardship planning
- Experts: their contact details can be linked
- Funders & institutes: customize, domain specific
- Allows tailor made DSW instances for an organisation, a node, a company etc. (contact: rob.hooft@dtls.nl)



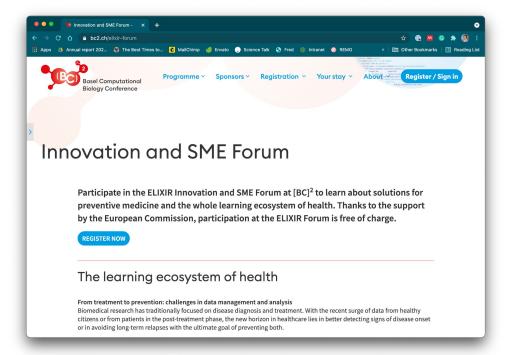








WP4: Industry engagement



Innovation and SME Forum

13 September 2021 | Basel or online

Building the learning ecosystem of health: from data tracking to preventive medicine

Register here

2022: Health-RI/ELIXIR SME Forum in NL, around theme "health data & AI"

WIKI: how to engage with industry

Publication: January 2022

Summary guidance document for Nodes on liaising with the private sector (capacity building in nodes)











ELIXIR-NL involvement in other CONVERGE WPs

- WP5: Demonstrators: will be capturing their expertise in a Data Stewardship Wizard knowledge model
- WP6: Excellence in management: Work on the ELIXIR Node Organisation Models

Later additions (doubling total size of the project):

- WP7: Covid-19 addition: managing federated human data; installing Federated EGA (European genome/phenome archive) at ELIXIR nodes. We want to follow along with Health-RI
- WP8: Support for the European Covid-19 data portal: an EBI activity; several other ELIXIR nodes have built national portals too, just like the Netherlands (Health-RI)
- WP9: Covid-19 variant surveillance data: just starting, connecting NL efforts with RIVM and Erasmus MC











Acknowledgements

- The ELIXIR-NL, DTL and Health-RI team
- ELIXIR-CONVERGE WP members
- NPOS-F team
- RDA Professionalising Data Stewardship Interest Group
- RDA Education and Training in Handling Research Data Interest Group
- DTL Data Stewards Interest Group











