

The logo for RDMkit, featuring the letters 'RDM' in a bold, dark blue font and 'kit' in a bold, pink font. A small white circle with a red dot inside is positioned above the 'R'.

ELIXIR-Converge has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 871075.

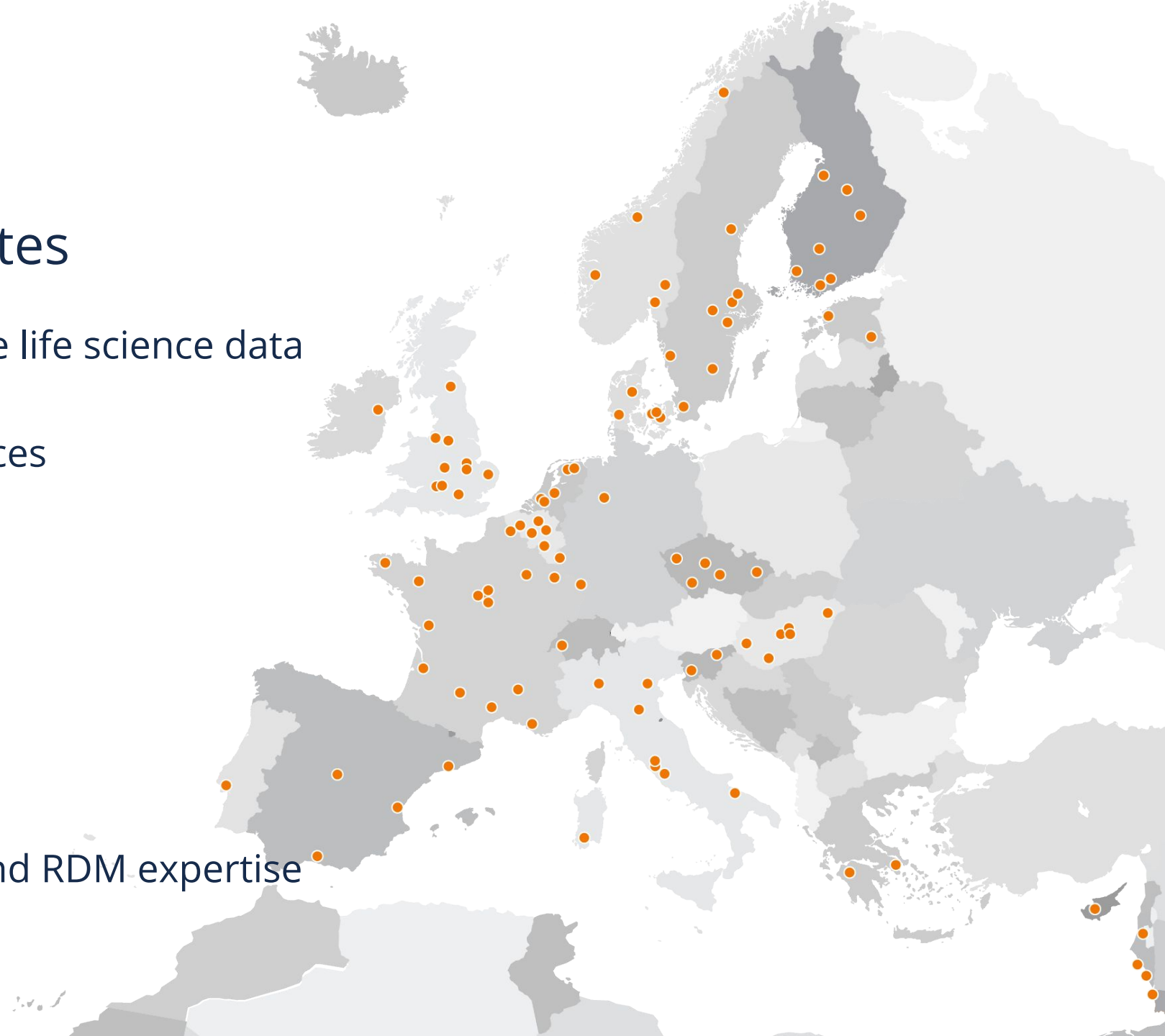
Putting the Life Science RDM support landscape in context with RDMkit

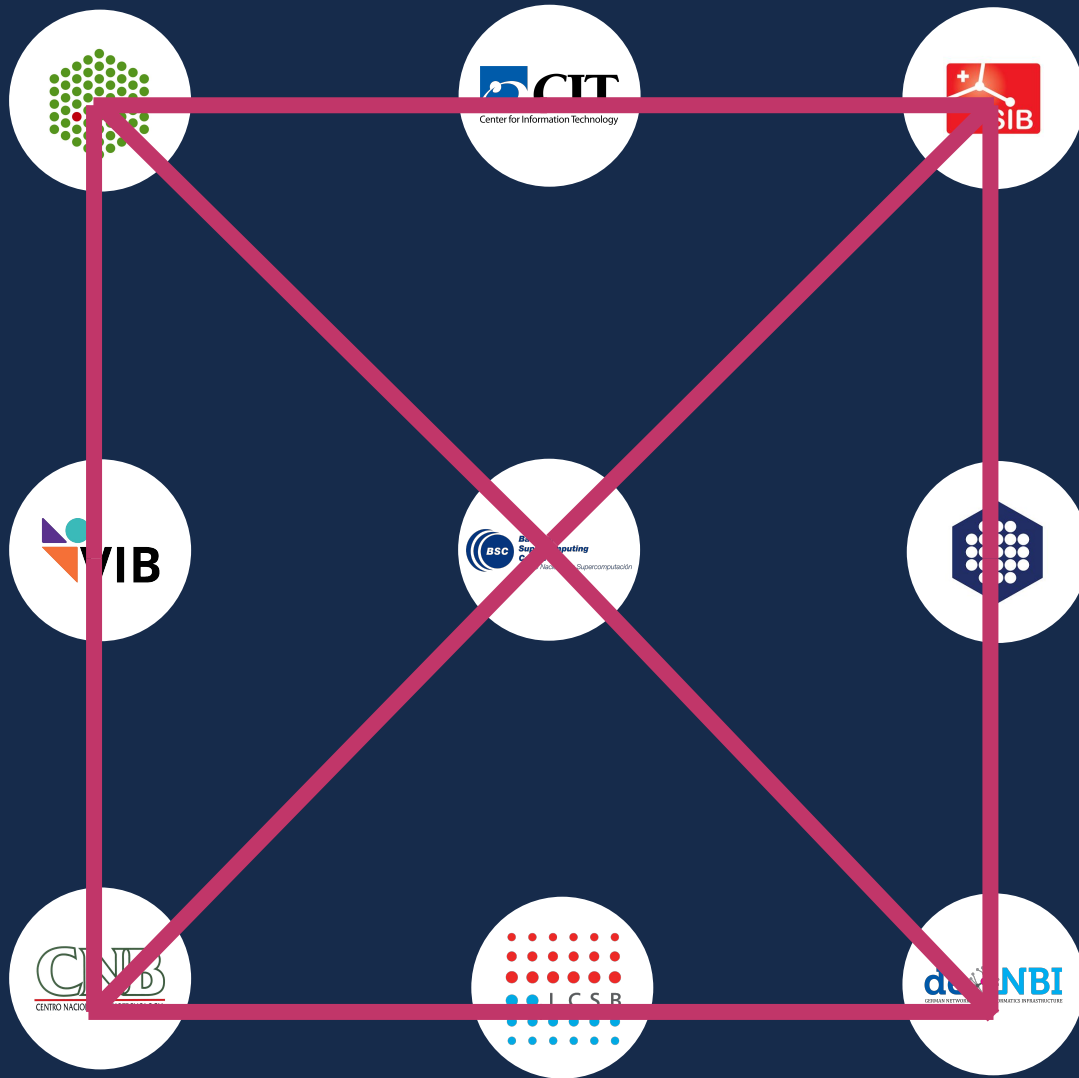
Pinar Alper (ELIXIR LU), Carole Goble (ELIXIR UK)
on behalf of the RDMkit community

Open Science FAIR 2021

● Hundreds of institutes

- large volume of diverse life science data
- bioinformatics resources
 - databases
 - software tools
 - cloud platforms
 - training
- life science research and RDM expertise





THIS IS





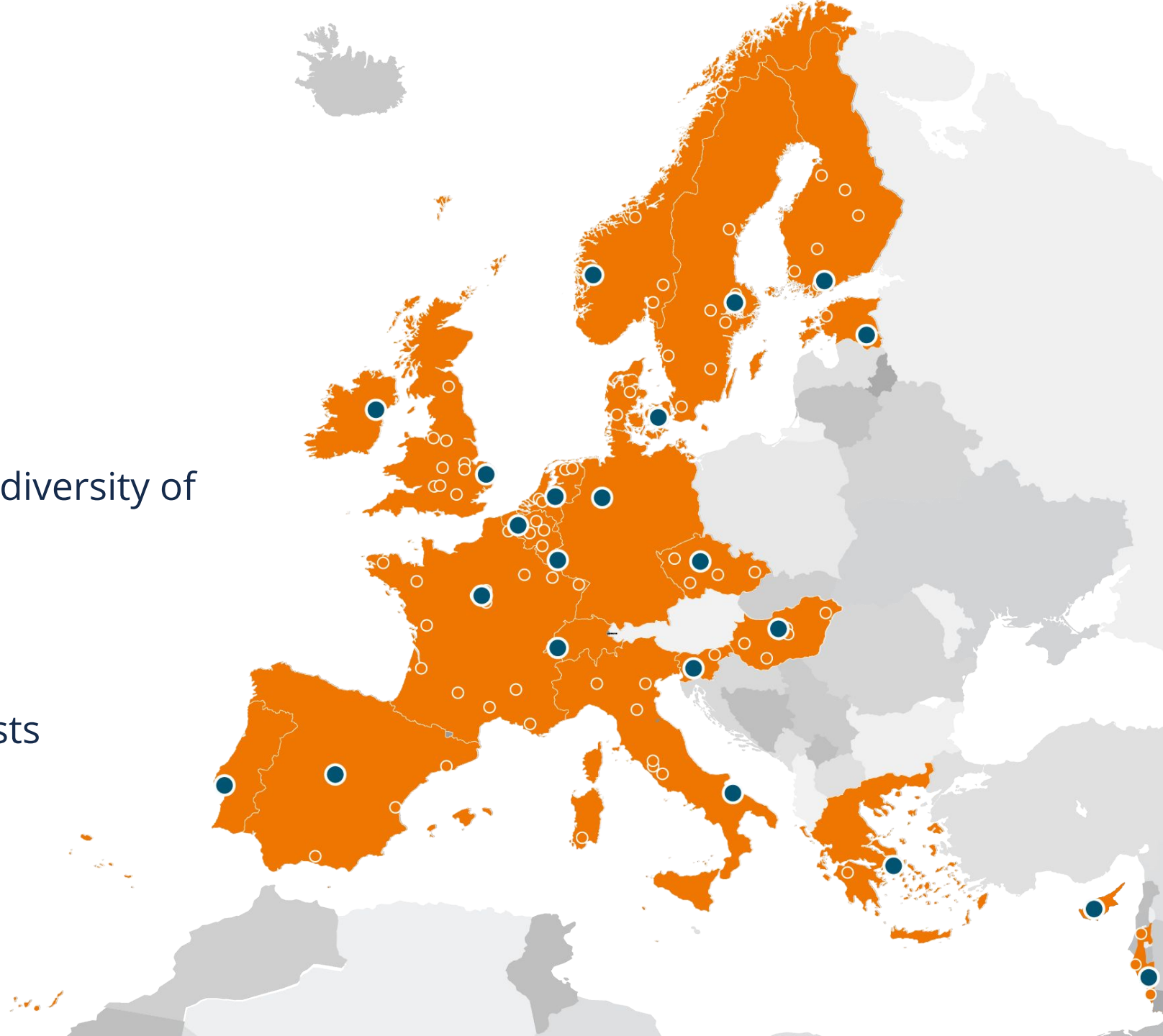
● 23 Nodes

Goal

Support data management for the diversity of life sciences across Europe

With an infrastructure that is:

- Internationally aligned
- Scalable to 500 000 life scientists
- Long-term sustainable
- FAIR data at its heart

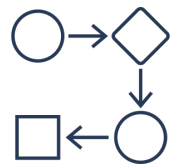


ELIXIR's support to FAIR Data



FAIR services & resources

Registries, standards, ontologies, identifiers, data management platforms, stewardship tools, templates



FAIR data techniques

Workflows, reproducible processing, transparent reporting and provenance, FAIR assessment and evaluation, FAIRification methods



Specific communities

Infrastructure, Pilots Human Data, Biodiversity



Trusted repositories

Deposition databases and portals, scalable curation, sustainability



FAIR policy and activism

FAIR principles, FAIR leadership & partnering at the global, European and national level.



FAIR expertise and training

Capability frameworks, skills, data managers network, training portal



The abundance of support can be overwhelming for researchers when starting their project, when writing and executing their DMPs.





Provides guidance on the RDM support landscape!



rdmkit.elixir-europe.org

RDM support throughout the entire **life cycle of projects** as outlined in **DMPs**



Website focal point for guidance, information, best practice, examples

RDMkit About Contribute GitHub Give feedback Search...

Data life cycle +
Your role +
Your domain +
Your problem +
All tools and resources +
Tools assembly +

Are you working with data in the Life Sciences? Do you feel overwhelmed when you think about Research Data Management?

The ELIXIR Research Data Management Kit (RDMkit) is an online guide containing good data management practices applicable to research projects from the beginning to the end. Developed and managed by people who work every day with life science data, the RDMkit has guidelines, information, and pointers to help you with problems throughout the data's life cycle. RDMkit supports FAIR data — Findable, Accessible, Interoperable and Reusable — by-design, from the first steps of data management planning to the final steps of depositing data in public archives.

The RDMkit organises information into the six sections displayed below, which are interconnected but can be browsed independently.

Data life cycle
Start here to get an overview of research data management. Click on a section of the diagram below to get an introduction to that stage of the data management life cycle.

Your role
Identify your role in research data management, find data management resources relevant for you, and information to help you progress in your career path.

Your domain
Learn about the data management problems that affect your domain or research community, and the solutions adopted to address them.



For whom is the RDMkit?



Researchers

One stop shop of information, signposting resources for developing & executing project Data Management Plans.



Data managers and data stewards

guides to complement their own expertise and resources.



Project consortium coordinators

For research data management, practice and potential partners.



Funding agencies and policy makers

Include in guidelines, highlight open science policies and requirements.



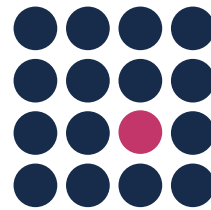
RDMkit — components

Written by field workers in the language of the community

RDM Lifecycle



Guidelines both generic & specific



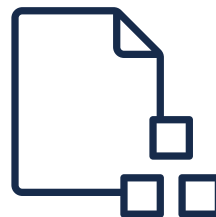
Tools and resources



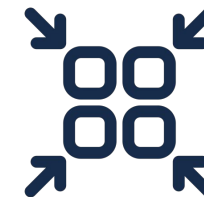
Roles



Registries



Example tool assemblies



Guidelines for life science RDM tasks

Data protection

 Edit me

How do you protect research data under GDPR?

Description

Where scientific research involves the processing of data concerning people in the EU, it is subject to the General Data Protection Regulation (GDPR). The GDPR applies a “special regime” to research, providing derogations from some obligations given appropriate criteria are met and safeguards are in place. The criteria is to follow standards in research method and ethics as well as to aim societal benefit rather than serving private interests in research. The safeguards are a multitude and include:

■ ■ ■

Considerations

Seek expert help for the interpretation of GDPR legal requirements to practicable measures.

- Research institutes appoint Data Protection Officers (DPO). Before starting a project you should contact your DPO to be informed of GDPR compliance requirements for your institution.
- Each EU country has its own national implementation of the GDPR. If your project involves a multi-national consortium, the requirements of all participating countries need to be met and you should inform the project coordinator of any country-specific requirements.
- Legal offices in research institutes provide model agreements, which cater for various research scenarios and consortia setups. You should inform your local legal office of your project’s setup and identify the necessary agreements to be signed.

Assess your project under the GDPR.

- Determine your GDPR role. Are you a data controller, who determines the purposes and means of the processing, or, are you a data processor, who acts under instructions from the controller?
- If you are a controller, you need to check whether your processing poses high privacy risks for data subjects, and if so, perform a Data Protection Impact Assessment (DPIA).

Solutions

■ ■ ■

Relevant tools and resources

Tool or resource ⓘ	Description	Related pages
BBMRI-ERIC's ELSI Knowledge Base	The ELSI Knowledge Base is an open-access resource platform that aims at providing practical know-how for responsible research.	Sensitive data Data steward policy Data steward research Human data
DAISY	Data Information System to keep sensitive data inventory and meet GDPR accountability requirement.	Data steward infrastructure Data steward policy Human data bio.tools TransMed Assembly
EU General Data Protection Regulation	Regulation (eu) 2016/679 of the european parliament and of the council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing directive 95/46/ec (general data protection regulation).	Data steward policy Human data TSD for sensitive data - Norway
GA4GH regular and ethical toolkit	Framework for Responsible Sharing of Genomic and Health-Related Data	Sensitive data Data steward policy Data steward research Data steward infrastructure

Training

[Training in TeSS](#)

Related RDMkit pages in "Tool assembly"

[TSD for sensitive data - Norway](#)
[TransMed Assembly](#)

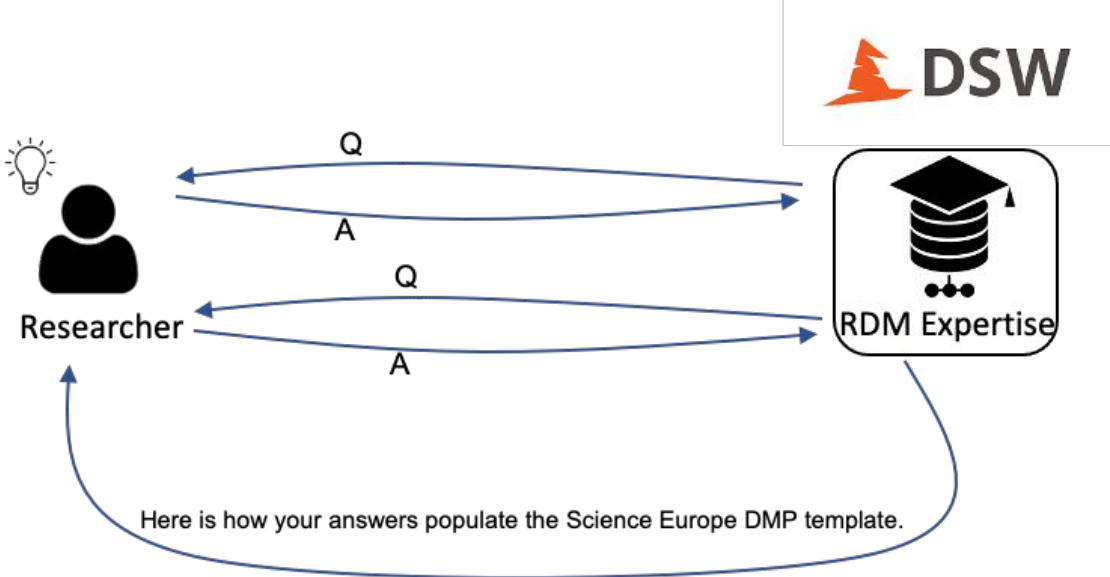


Links to further RDM guidance in ELIXIR's Data Stewardship Wizard DSW

Data storage [Edit me](#)

Planning your data storage solution

You can plan your data storage, including the above considerations and solutions, using the [Data Stewardship Wizard](#). This link provides access directly to the appropriate section of the Data Management Plan questionnaire.



RDMkit — in numbers

96

Contributors



ELIXIR Data Managers Network



Trainers



Domain experts

77

Pages

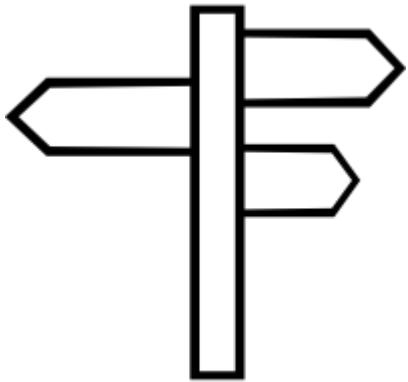
7 Domains

10 Tool Assemblies

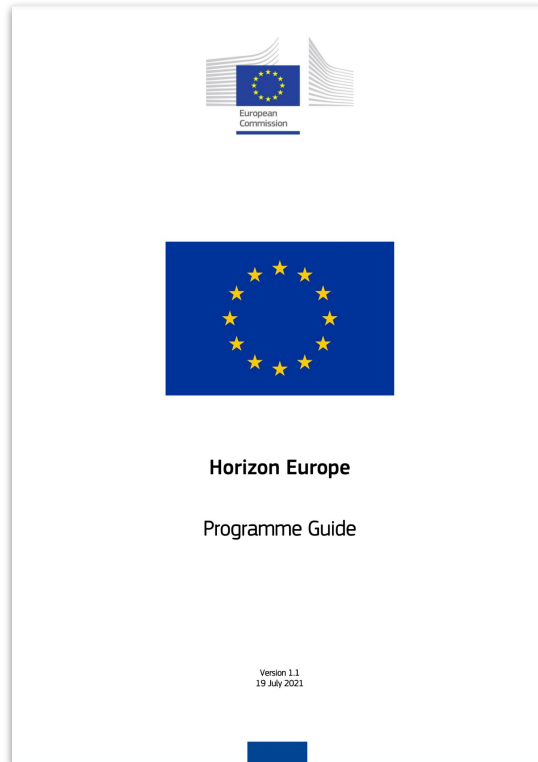
273 Tools and Resources



RDMkit – Included in guidelines; funder, national, and institutional



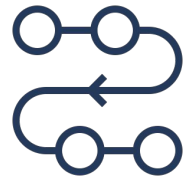
Horizon Europe



European Research Council



RDMkit – A sustainable, open, ongoing community effort



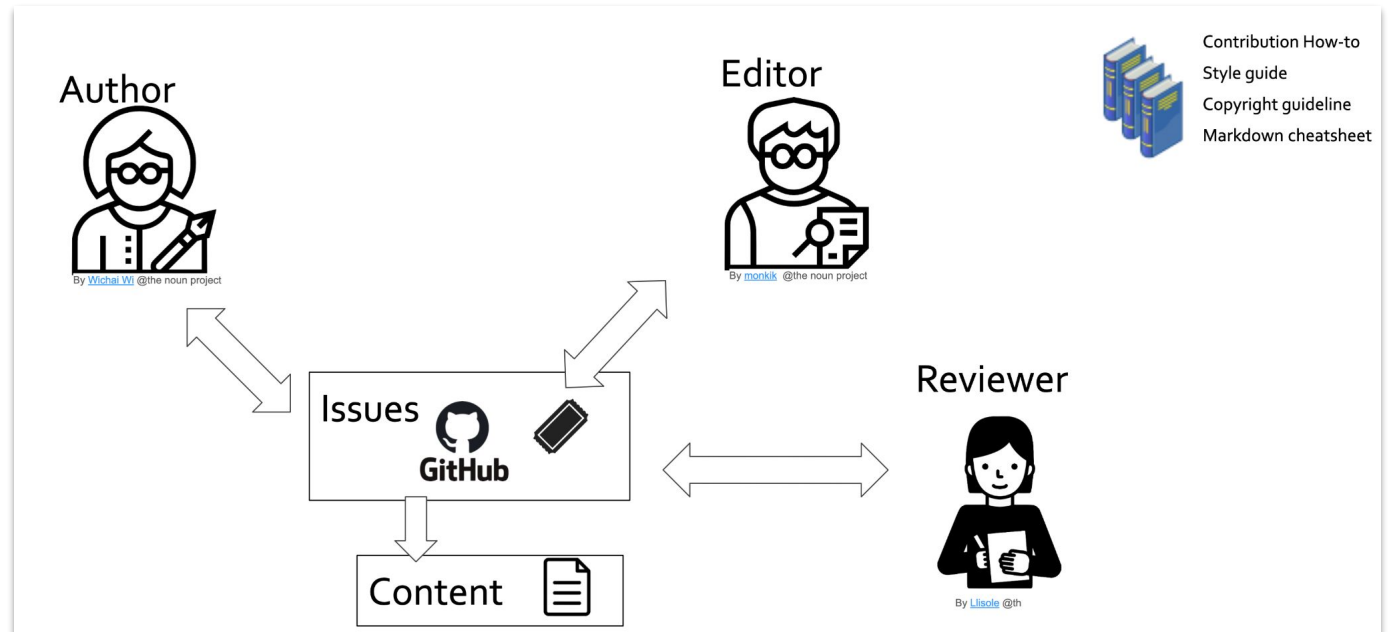
Contribution and editorial processes



Simple, sustainable platform



Contentathons and focus groups



If you are interested in the RDMkit

RDMKit Editorial Board



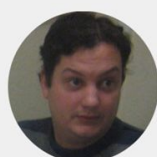
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RDMkit – A toolkit that bridges the gap between researchers and data stewards



pool the expertise of
the community for
the community



support researchers
to know and utilise
RDM services



increase self-sufficiency,
build capacity and skills
in every institute



For more information



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rdmkit.elixir-europe.org

