

Welcome to the Life Science DMP- workshop on Zoom



Turn your video on while speaking (optional)



Use the 'hand up' function for questions or just unmute yourself



Mute yourself while not speaking



... or ask questions in the chat



Please use the 'rename' function to indicate your department & institution



Data Management Plans

and a short introduction to ELIXIR & Digital Life Norway



CENTRE FOR
DIGITAL LIFE
NORWAY

Korbinian Bösl
Data management coordinator
ELIXIR Norway/Digital Life Norway

Schedule

21.08.2023

0830 - 0900 Login support

0900 - 0915 Introduction

0915 - 0930 Requirements from the RCN

0930 - 1000 Parallel session: Local recommendations & storage infrastructures Institutional DMP guidelines

1000 - 1015 Short break

1015 - 1100 Introduction DSW

1100 - 1120 Information on national storage infrastructures

NeLS/StoreBioInfo

NIRD

TSD

1120 - 1135 Short break

1135 - 1230 Persistent identifiers, Controlled Vocabularies & Ontologies

Schedule

22.08.2023

0900 - 1000 Key legal and ethical requirements for research in the GDPR and Health research act

Personal Data Act

Health Research Act

1000 - 1010 Short break

1010 - 1050 Relevant deposition repositories/ data archives

domain specific archives (ELIXIR/EMBL-EBI, NCBI)

Dataverse NO

EGA

NIRD archive

NSD

1050 - 1100 Short break

1100 - 1115 Licensing of data, biological material and software

1115 - 1230 Hands on training and assistance to generate a data management plan



Espen
Åberg



Nazeefa
Fatima



Federico
Bianchini



Illimar
Rekand



David
Dolan



Korbinian
Bösl



CENTRE FOR
DIGITAL LIFE
NORWAY

ELIXIR Europe

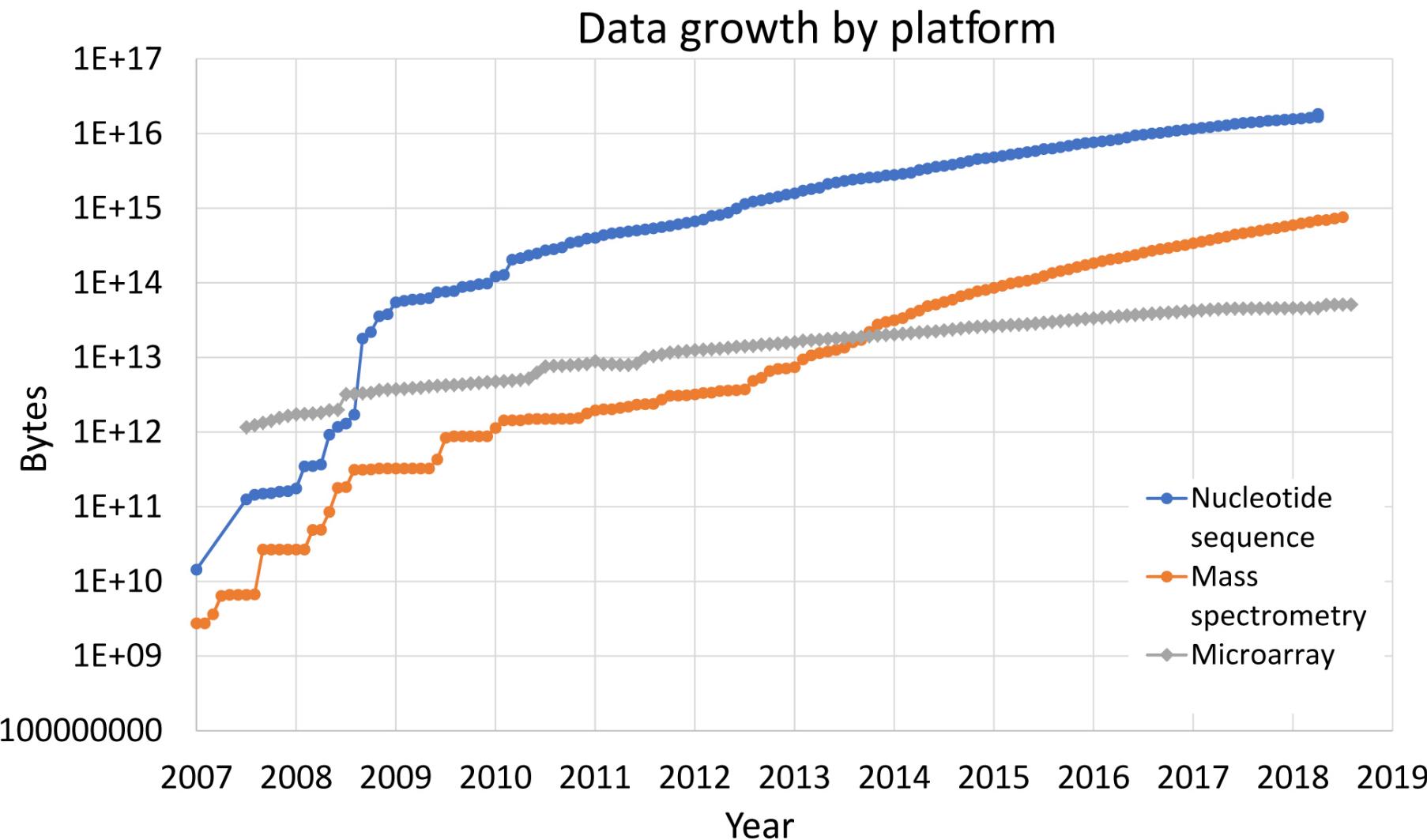
'Data for Life'

Mission:

To operate a sustainable European infrastructure for biological information, supporting life-science research and its translation to society, the bio-industries, environment and medicine



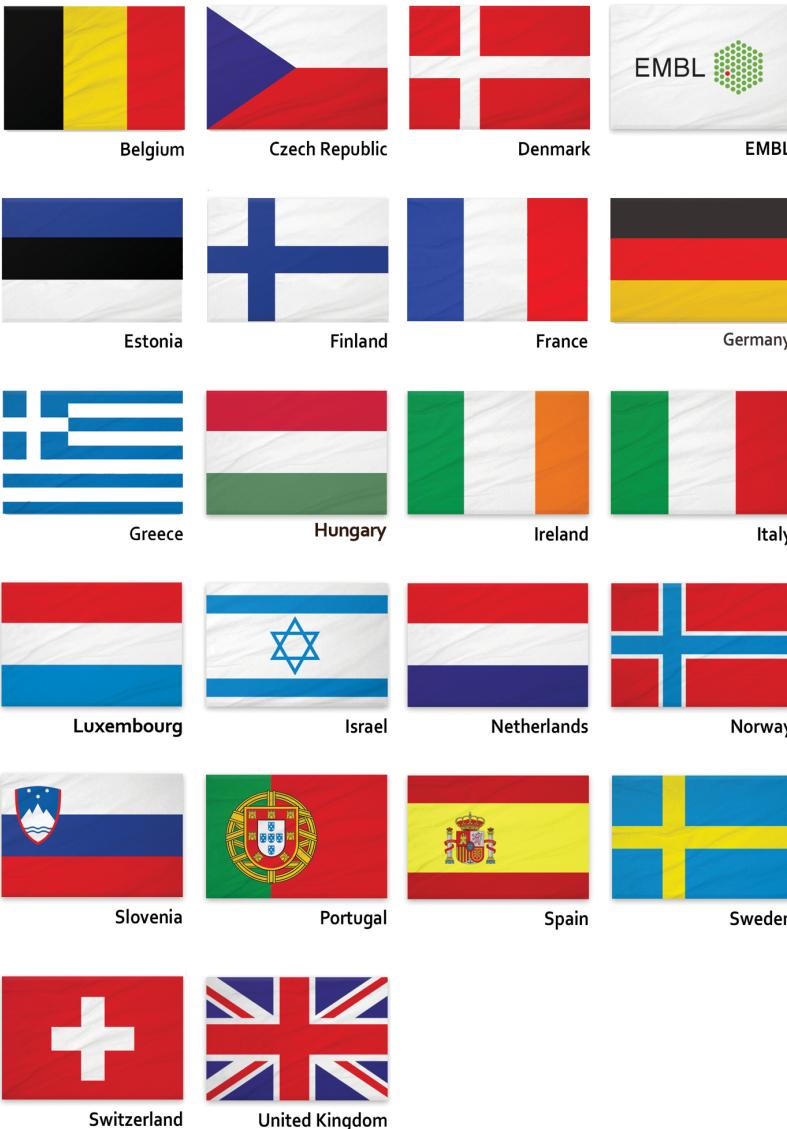
ELIXIR Europe



Data stored in
ELIXIR/EBI-EMBL
Repositories



ELIXIR Members



ELIXIR Observers



Cyprus

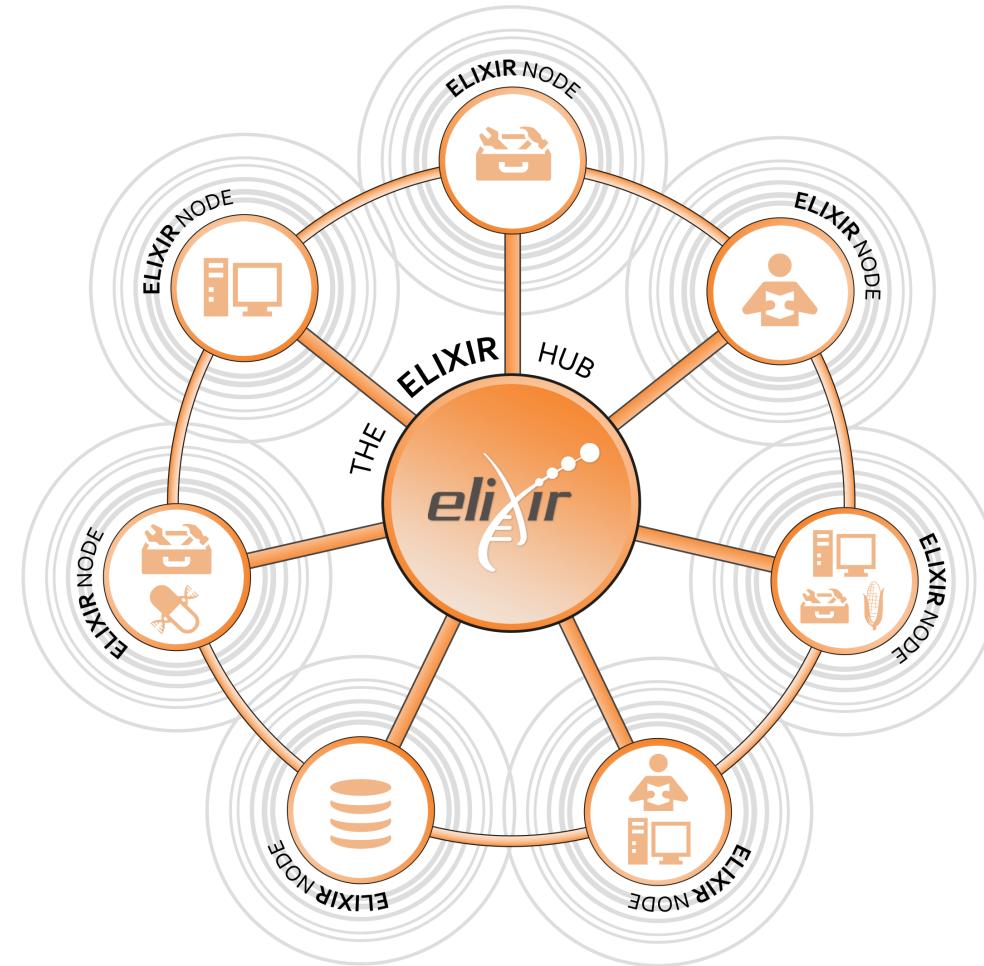


A distributed infrastructure to scale with the challenge

ELIXIR data infrastructure
for Europe's life science
research sector

ELIXIR Nodes build local
bioinformatics capacity
throughout Europe

ELIXIR Nodes build on
national strengths and
priorities



ELIXIR Services



ELIXIR Services



Data deposition:
ENA, EGA, PDBe, EuropePMC, ...



ELIXIR Services



Data deposition:
ENA, EGA, PDBe, EuropePMC, ...



Data management:
Genome annotation, RDMkit,
Data management plans

ELIXIR Services



Data deposition:
ENA, EGA, PDBe, EuropePMC, ...



Data management:
Genome annotation, RDMkit,
Data management plans



Added value data:
UniProt, Ensembl, OrphaNet, ...

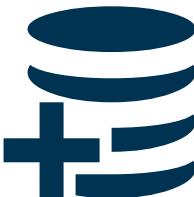
ELIXIR Services



Data deposition:
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Data management:
Genome annotation, RDMkit,
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Data Interoperability:
FAIRSharing, identifiers.org, OLS,
Bioschemas, ...



ELIXIR Services



Data deposition:
ENA, EGA, PDBe, EuropePMC, ...



Compute:
Secure data transfer, cloud computing, AAI



Data management:
Genome annotation, RDMkit,
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Bioinformatics tools:
Bio.tools, Benchmarking: OpenEBench



ELIXIR Services



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Industry:
Innovation and SME programme
Bespoke collaborations



ELIXIR Services



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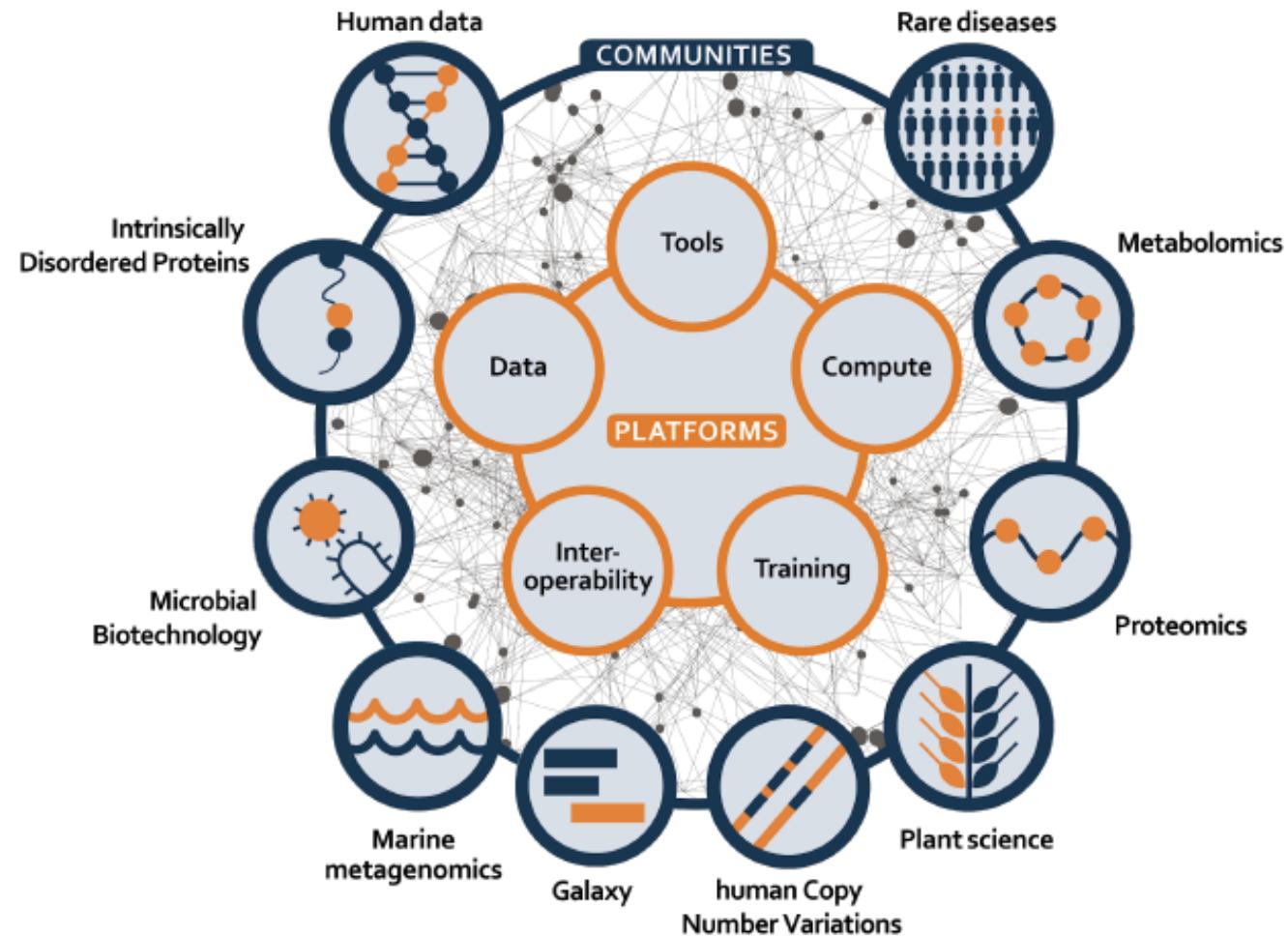


Training:
TeSS, Data Carpentry, eLearning



ELIXIR Structure

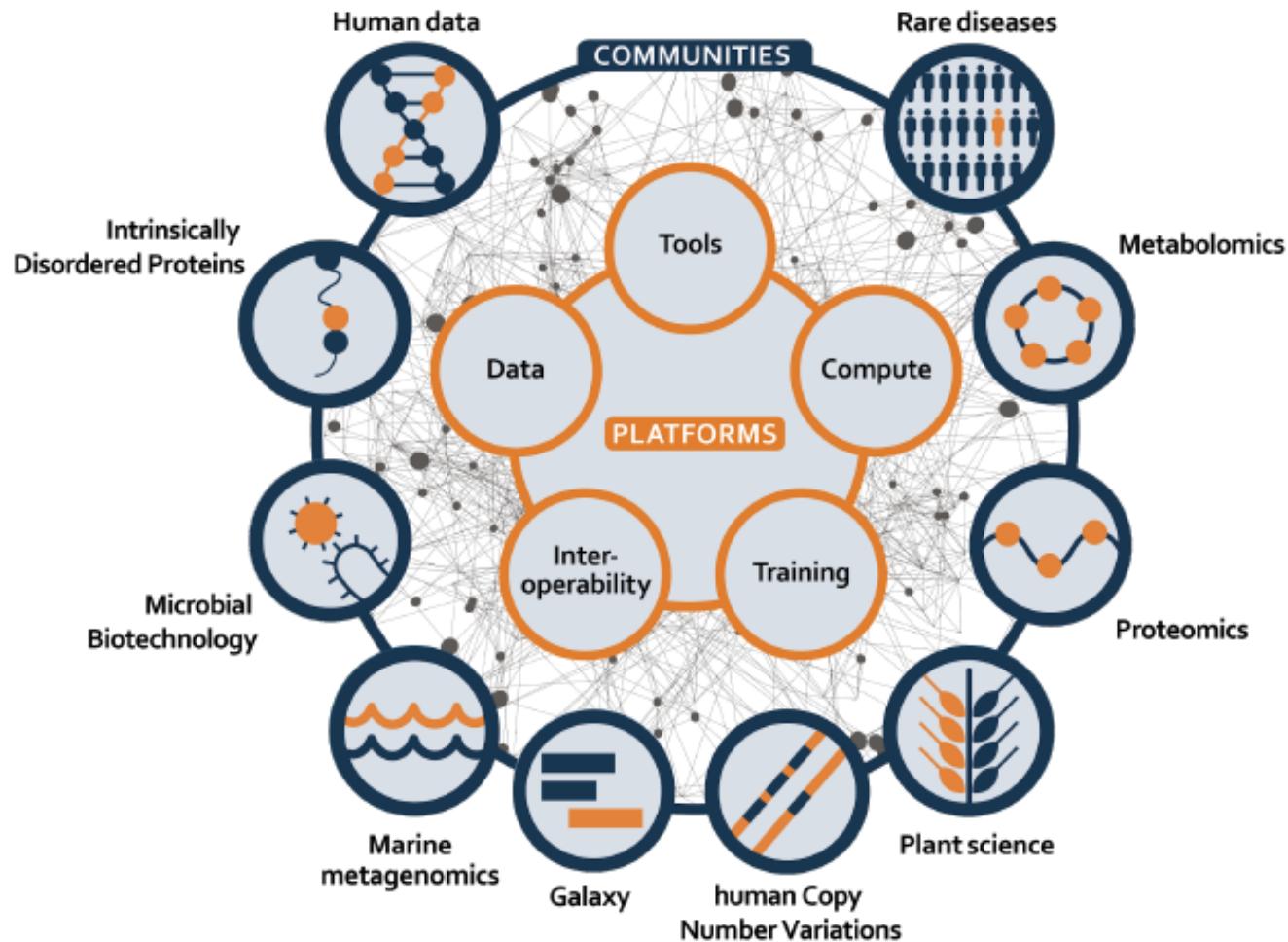
Five technical **Platforms** for
Compute, Data, Tools,
Interoperability, and Training



ELIXIR Structure

Five technical **Platforms** for
Compute, Data, Tools,
Interoperability, and Training

Complemented by
Communities for specific use
cases within e.g. **Human data,**
Metabolomics, Proteomics,
Marine Metagenomics,
Microbial Biotechnology,
Structural Bioinformatics and
others



ELIXIR Structure

The Norwegian node of ELIXIR Europe

Currently funded by:

The Research Council of Norway (until 2026)

The involved institutions; UiB, UiO, NMBU, NTNU and UiT

Users

Services to national users

Infrastructure, support and training

Deliverables to ELIXIR Europe

Tools and databases



Our additional user services - Norway

Support – through our HelpDesk 1 day of service free of charge (enabled by RCN)

Training – in using our tools and workflows, and in data management

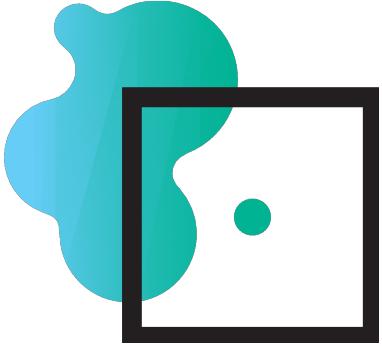
Bioinformatics infrastructure

Analysis, sharing and managing of data



support@elixir.no





Centre for Digital Life Norway (DLN 2.0)

facilitates transdisciplinary research, innovation, and education in
Life Science



Transdisciplinary collaborations



Education and career development



Responsible research and innovation

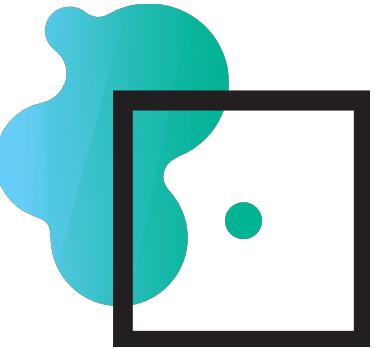


Innovation and commercialisation



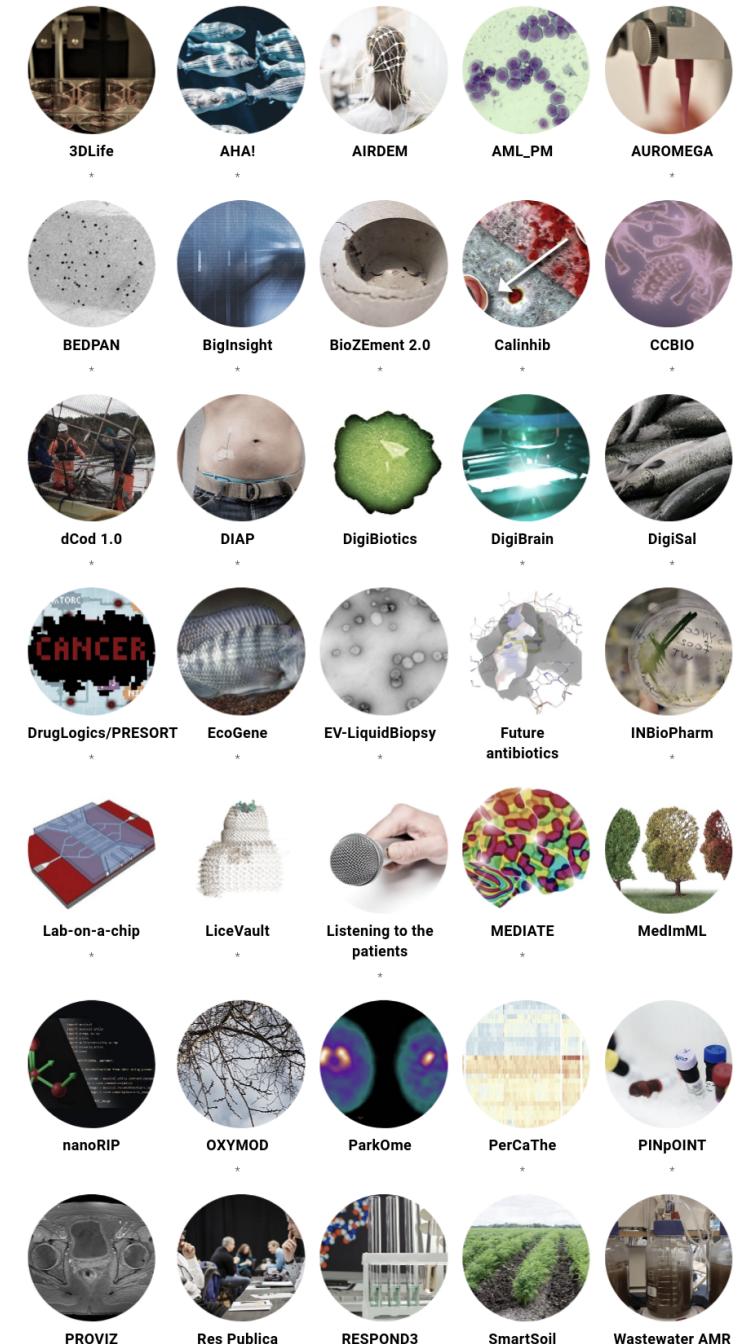
Data management

www.digitallifenorway.org

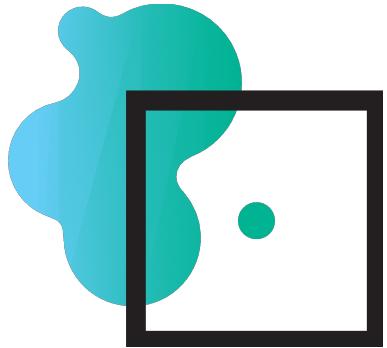


35 transdisciplinary
biotechnology projects all over
the country.

Biotechnology with digital
technology: health,
aquaculture, agriculture &
industrial biotechnology.



Join us!



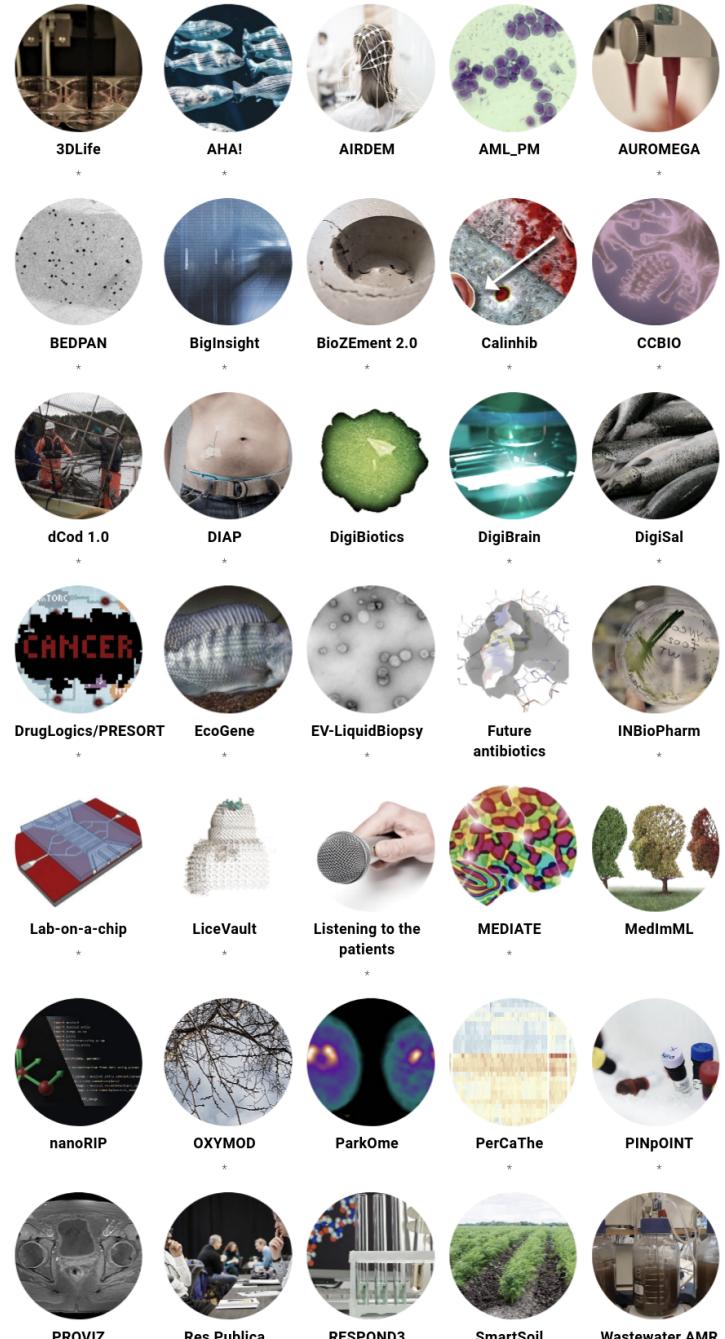
Open call for Digital Life Norway project membership

contact@digitallifenorway.org

... and join the DLN Research School at any time

<https://www.digitallifenorway.org/news/open-call-project-membership.html>

<https://www.digitallifenorway.org/research-school/membership/index.html>

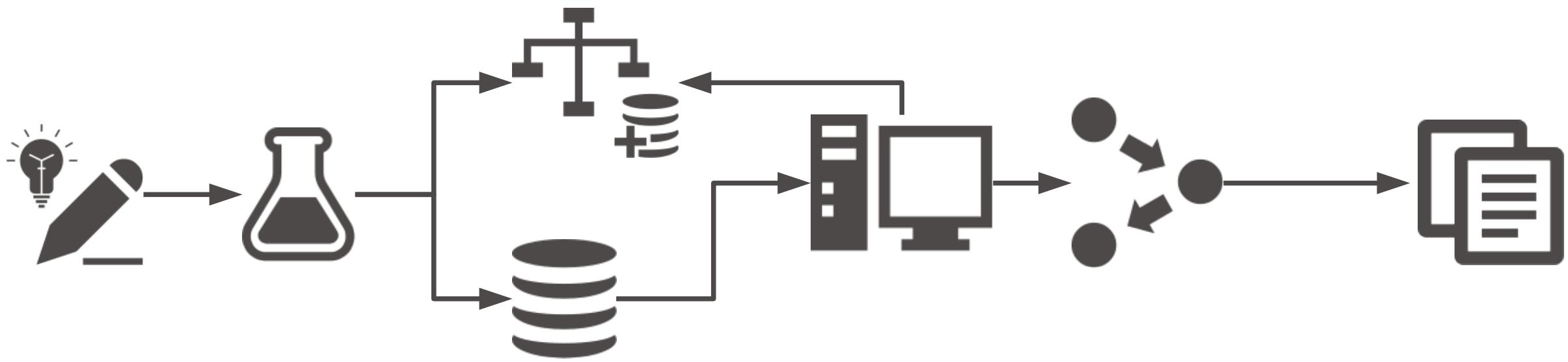


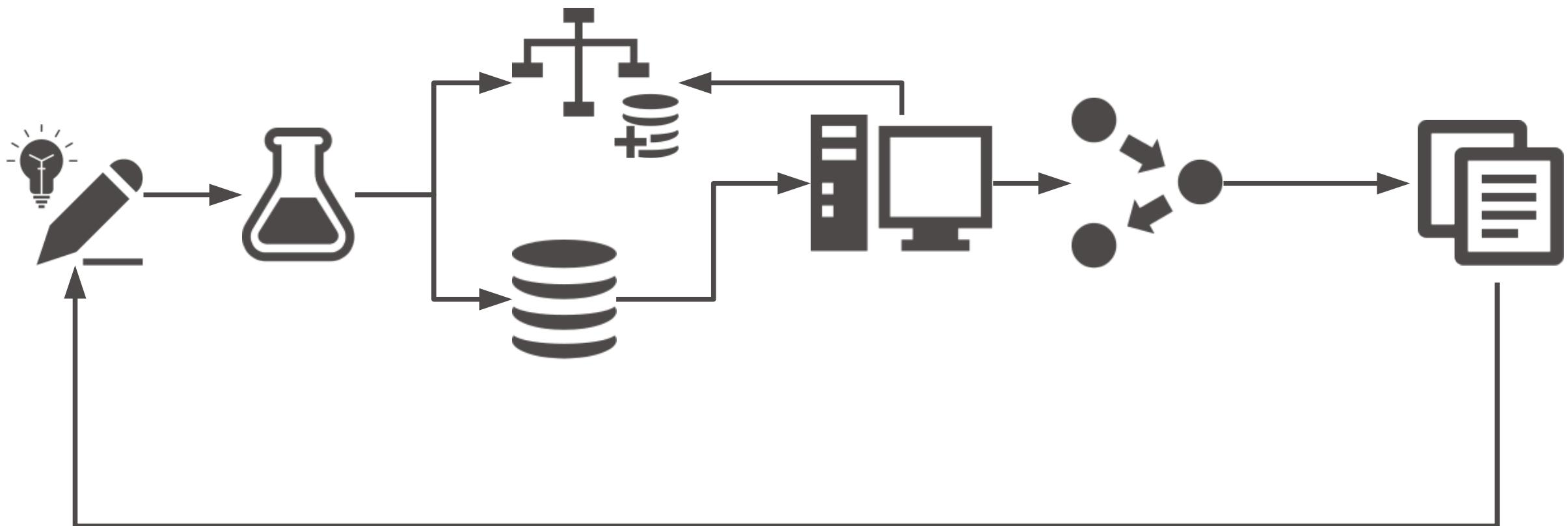
Data Management

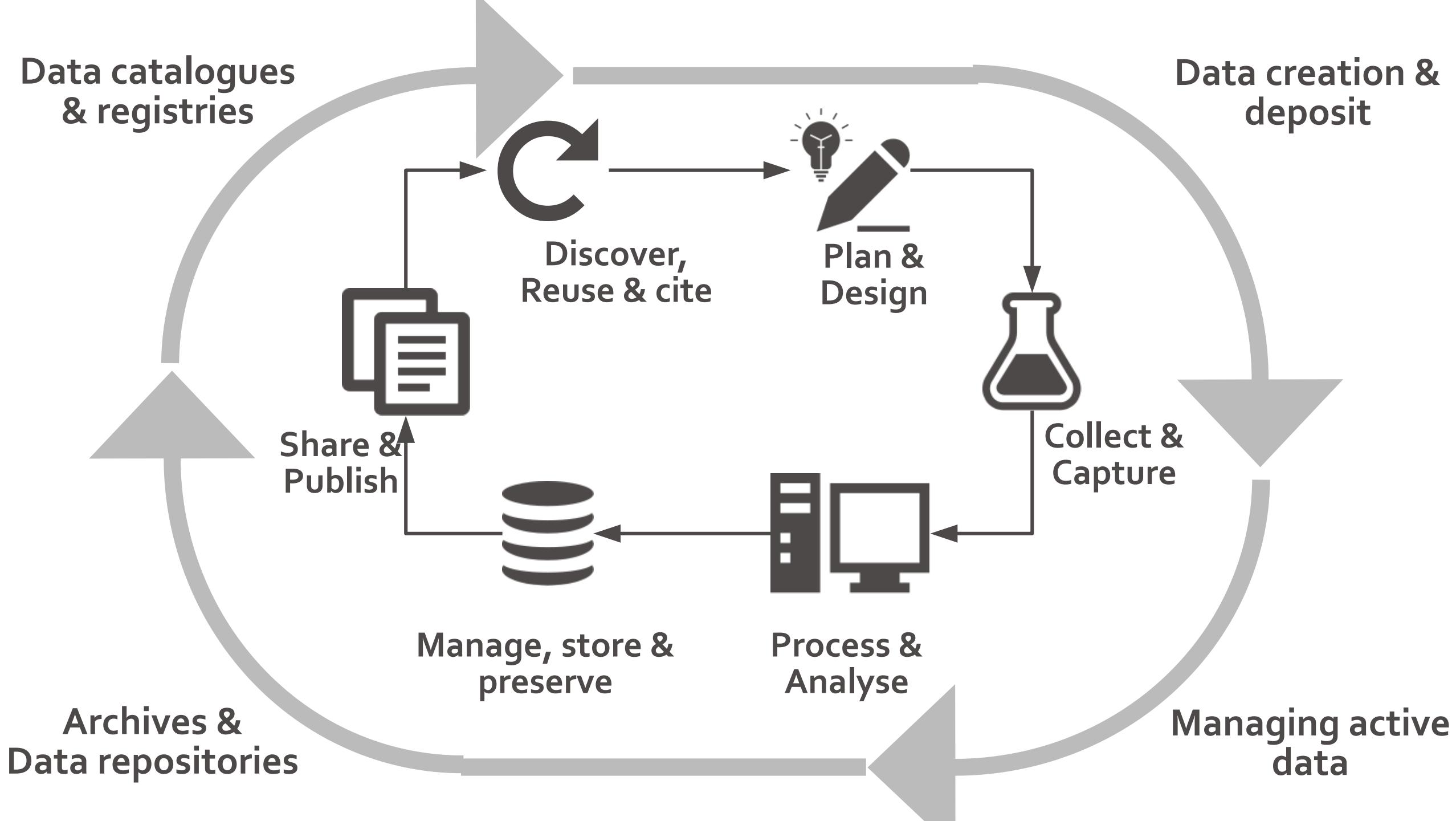


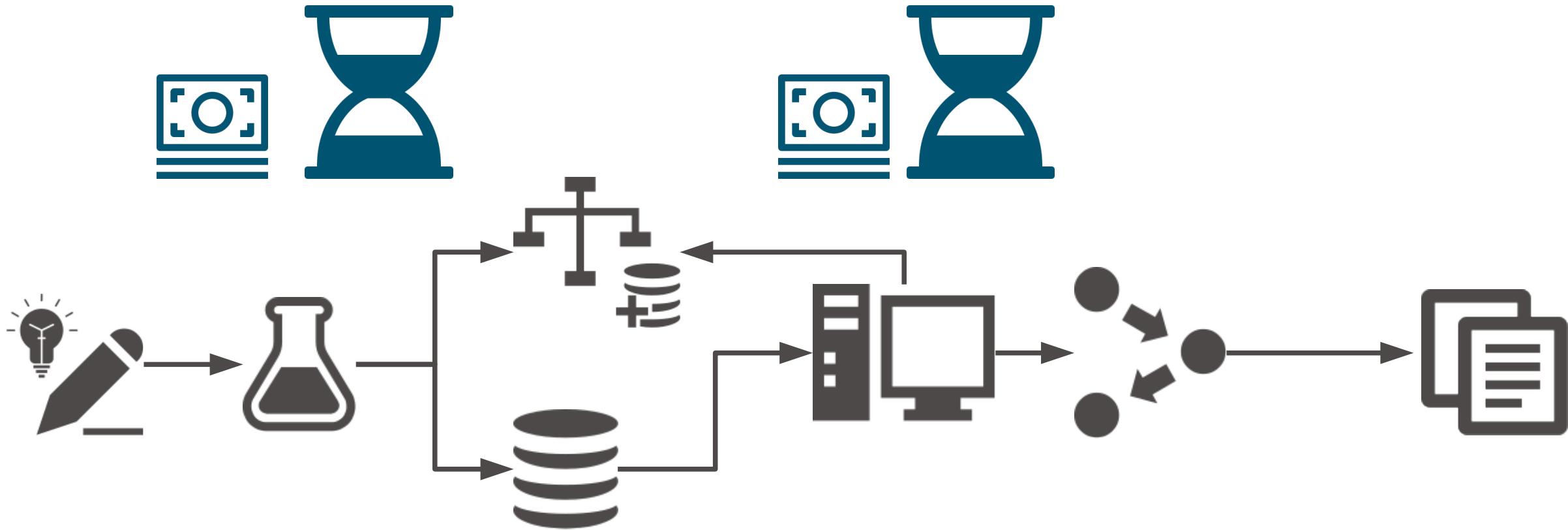
Make research data and related metadata
**discoverable, accessible and
understandable ...**

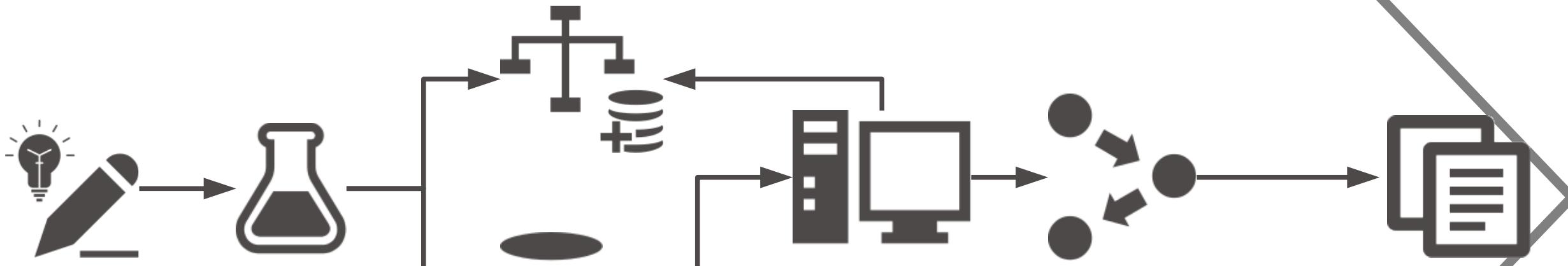
... today, tomorrow, and well into the future.
... across geographical distances.
... enabling efficient collaboration; even across
disciplines.

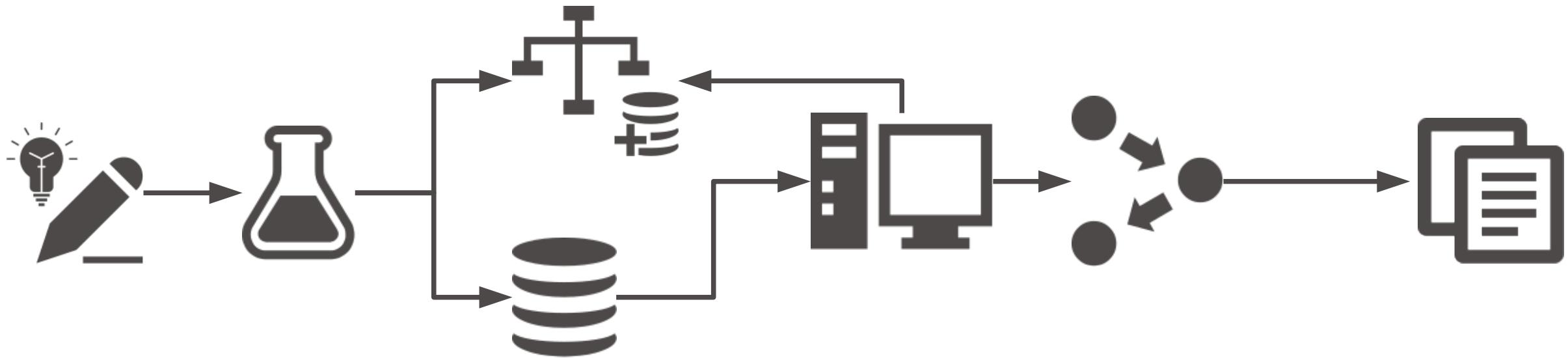








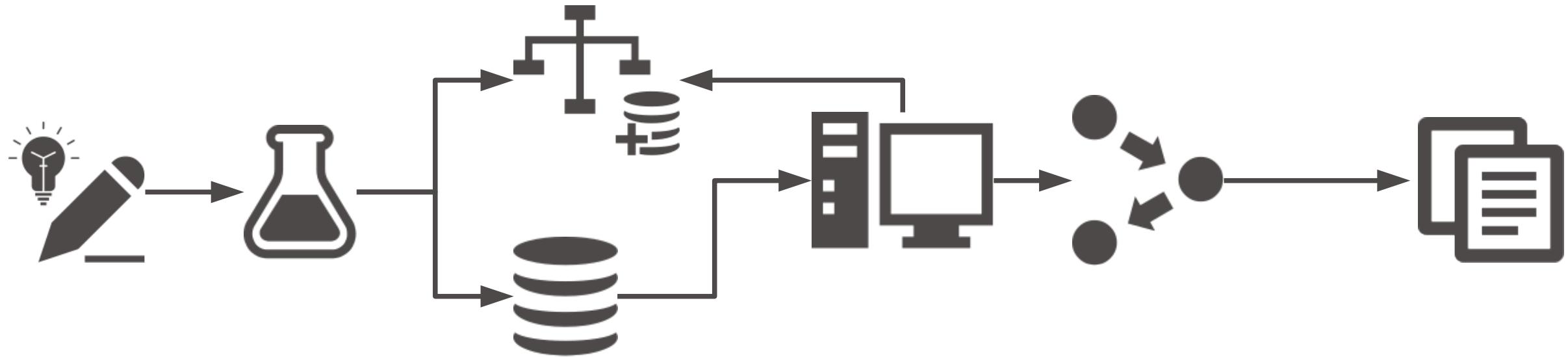






NeLS

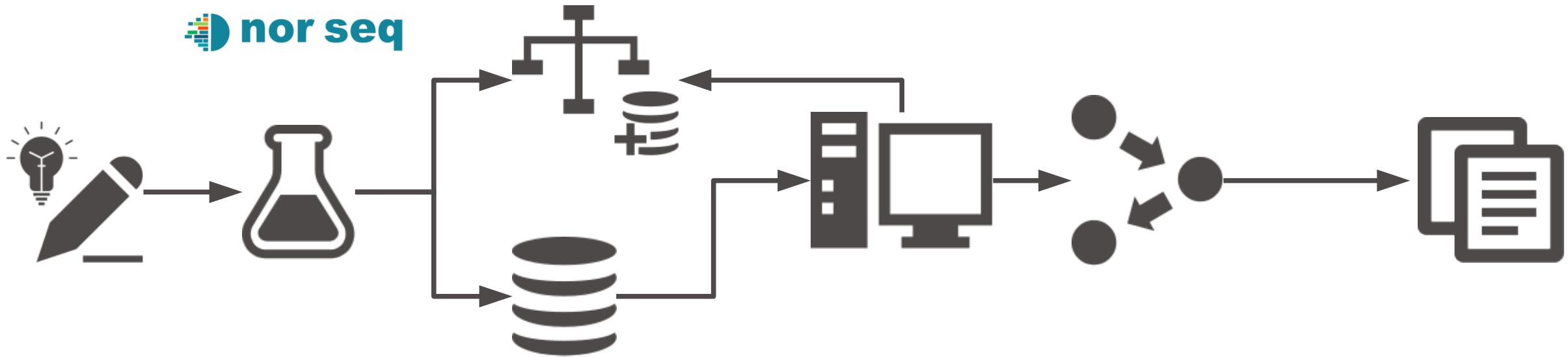
Norwegian e-Infrastructure for Life Sciences





NeLS

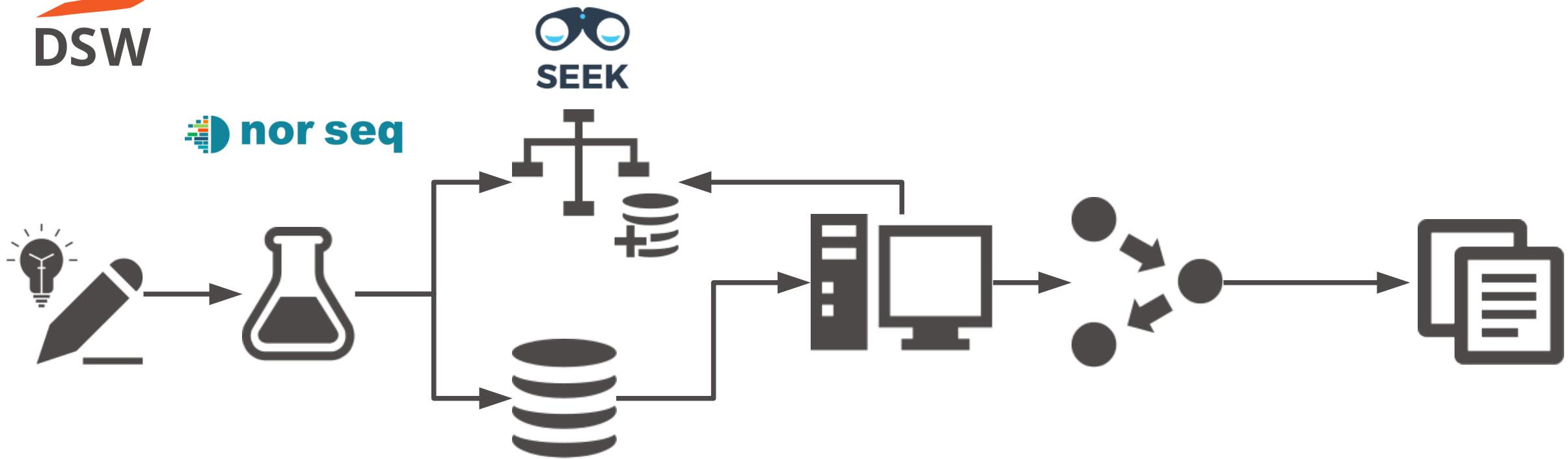
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NeLS

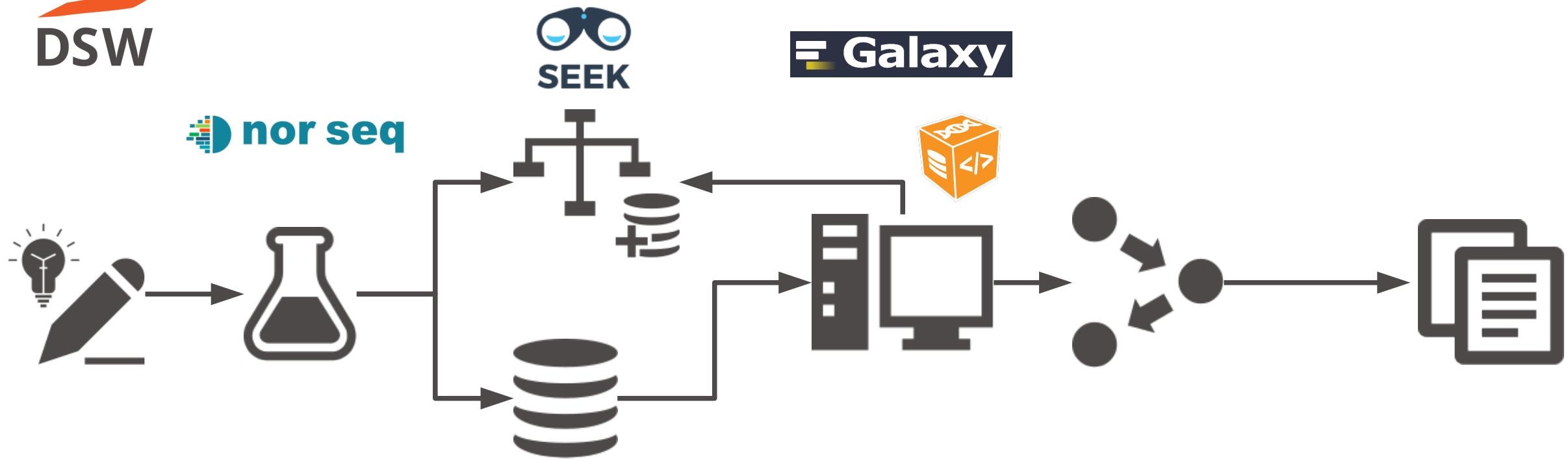
Norwegian e-Infrastructure for Life Sciences





NeLS

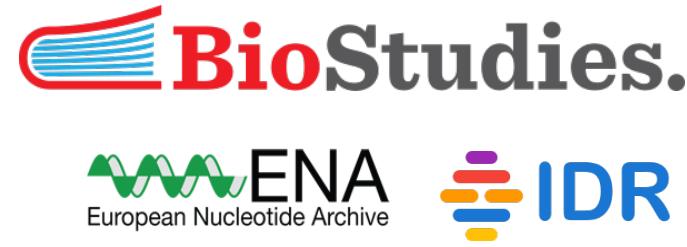
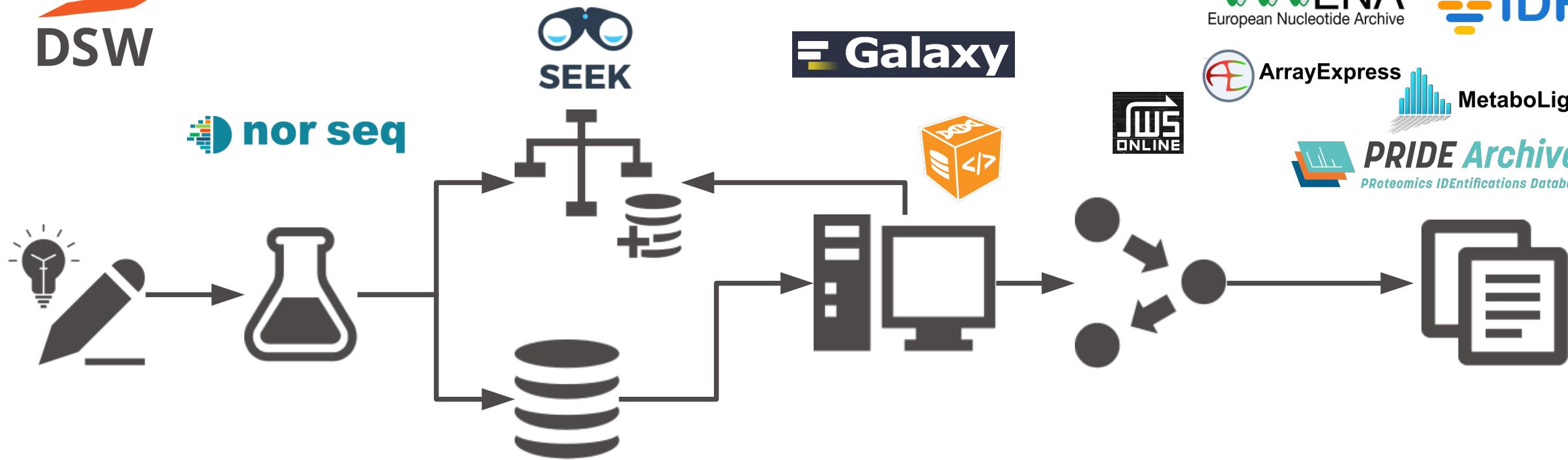
Norwegian e-Infrastructure for Life Sciences





NeLS

Norwegian e-Infrastructure for Life Sciences



ENA
European Nucleotide Archive

IDR

ArrayExpress

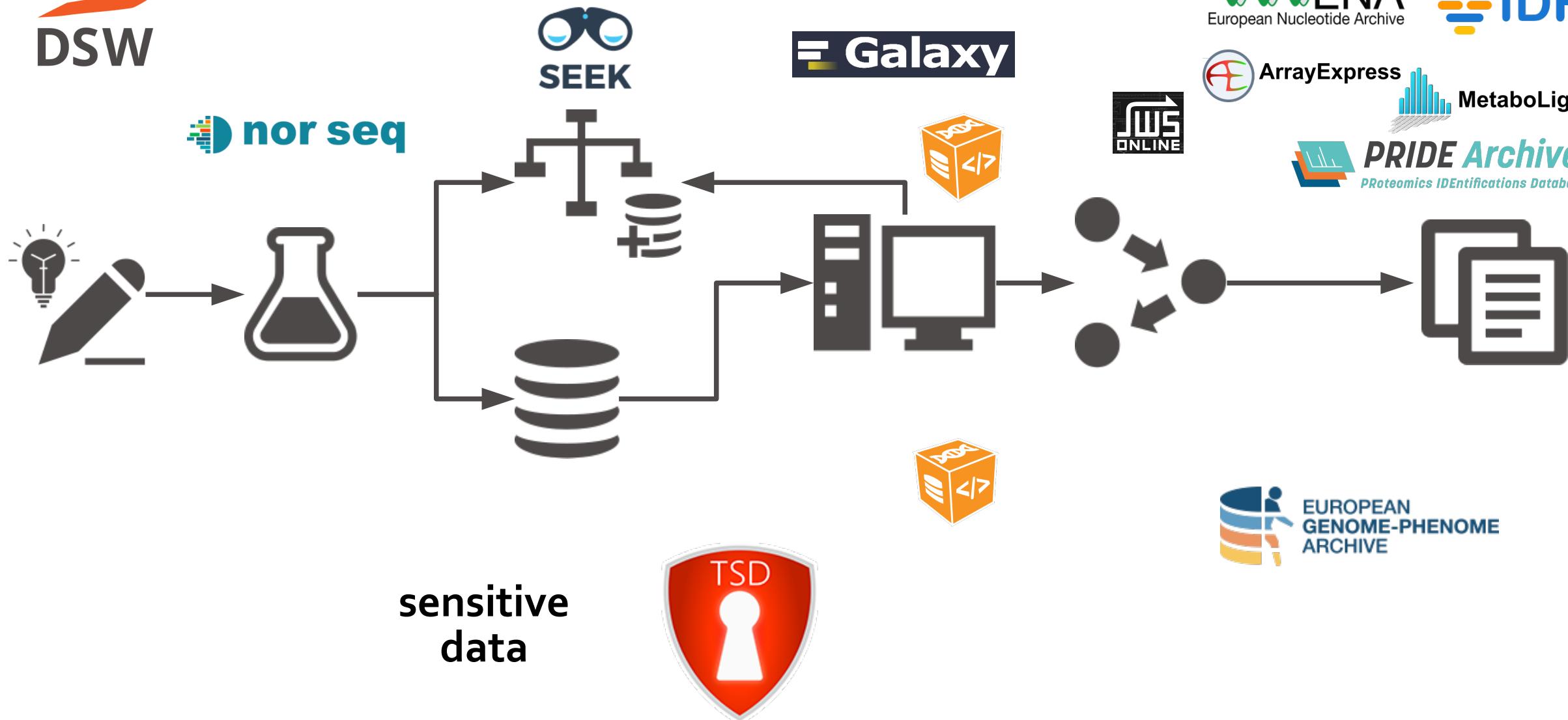
MetaboLights

PRIDE Archive
PRoteomics IDEntifications Database



NeLS

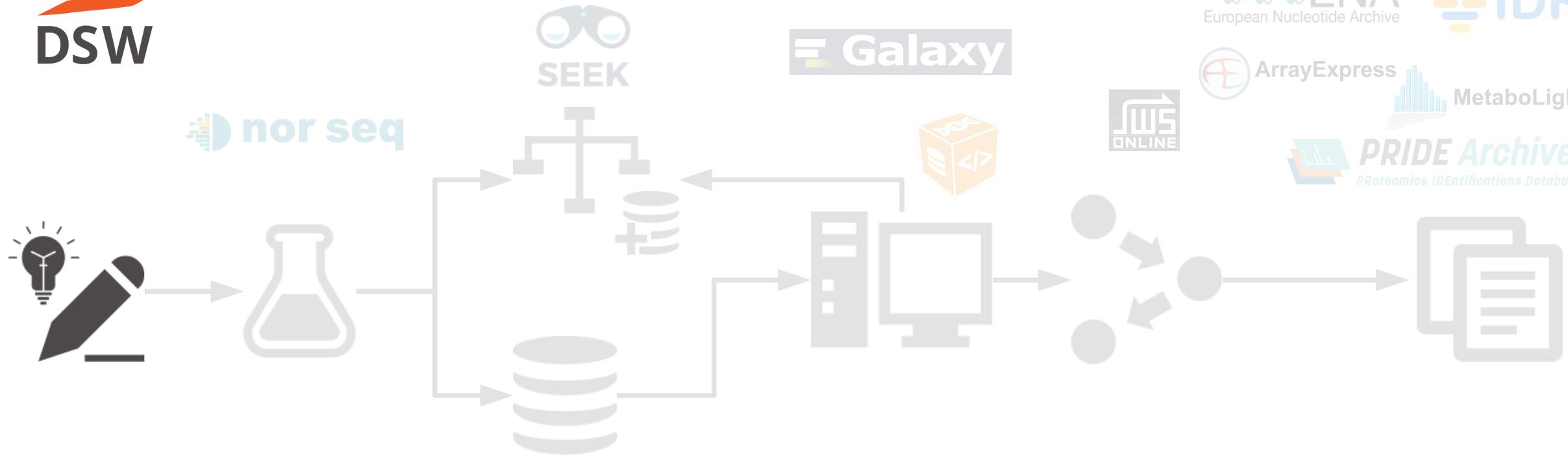
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NeLS

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Data Management Plan?





NeLS

Norwegian e-Infrastructure for Life Sciences

BioStudies.

ENA
European Nucleotide Archive

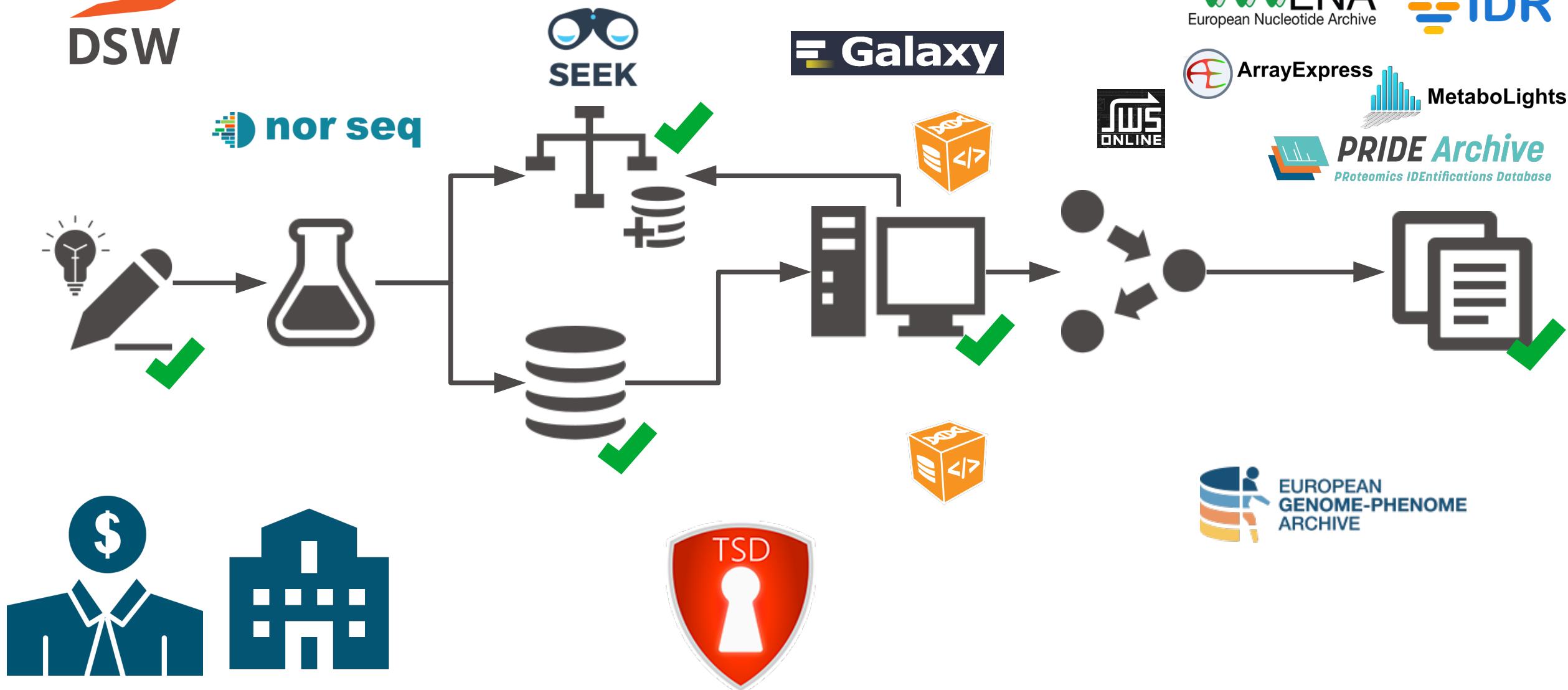
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EUROPEAN GENOME-PHENOME ARCHIVE





NeLS

Norwegian e-Infrastructure for Life Sciences

BioStudies.

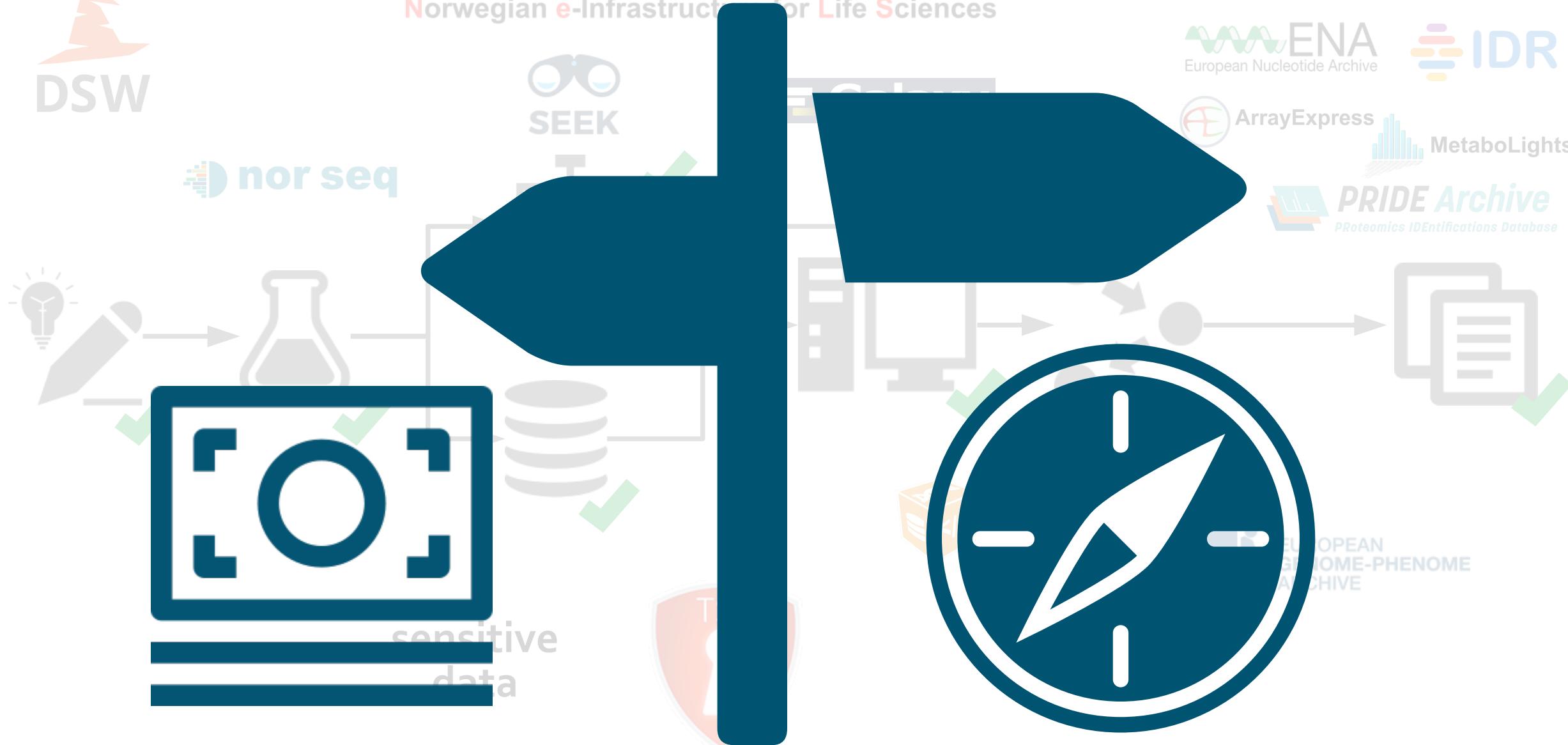
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A user-oriented guide to the FAIR RDM practices in life sciences



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

To support the data needs of Europe's estimated **500,000** life scientists

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

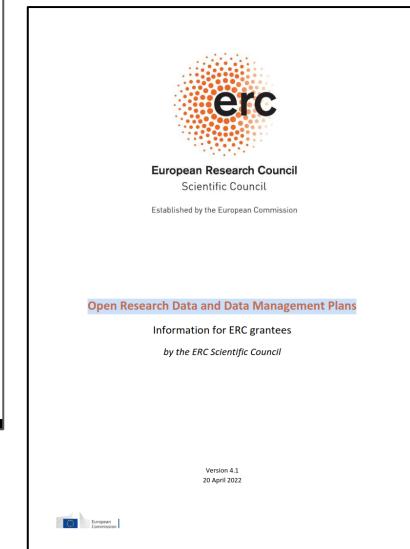


Recommended by:

EC: Horizon Europe Program Guide

ERC: Research Data and Data Management Plans

Research Council of Norway



RDMkit

Your domain



Bioimaging data

Biomolecular simulation data

Epitranscriptome data

Human data

Human pathogen genomics

Intrinsically disordered proteins

Marine metagenomics

Microbial biotechnology

Plant sciences

Proteomics

Rare disease data

Structural bioinformatics

Toxicology data



rdmkit.elixir-europe.org



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elixir.no
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support@elixir.no
contact@digitallifenorway.org



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@DigitaltLiv



With funding from
**The Research
Council of Norway**



CENTRE FOR
DIGITAL LIFE
NORWAY

BioMedData



UNIVERSITY OF BERGEN



UiO : University of Oslo



UiT The Arctic University of Norway



NTNU

Norwegian University of
Science and Technology



Norwegian University
of Life Sciences

The Data Stewardship Wizard is provided by:





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