



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

15.06.2021

0830 - 0900 Login support

0900 - 0915 Introduction

0915 - 0930 Requirements from the RCN

0930 - 1015 Parallel session: Local recommendations & storage infrastructures Institutional DMP guidelines

1015 - 1030 Short break

1030 - 1100 Introduction DSW

1100 - 1120 Information on national storage infrastructures

1120 - 1135 Short break

1135 - 1230 Persistent identifiers, Controlled Vocabularies & Ontologies

Schedule

16.06.2021

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

1000 - 1015 Short break

1015 - 1045 Relevant deposition repositories/ data archives

1100 - 1115 Licensing of data, biological material and software

1115 - 1300 Hands on training and assistance to generate a data management plan



Erik
Hjerde



Espen
Åberg



Eivind
Coward



Nazeefa
Fatima



Federico
Bianchini



Korbinian
Bösl



Marta
Eide





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Research Data
Support



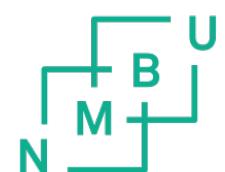
Research Data
Competence Group



University Library
Research Data team



RESEARCH
DATA
@NTNU



University Library &
Research Support

ELIXIR Europe

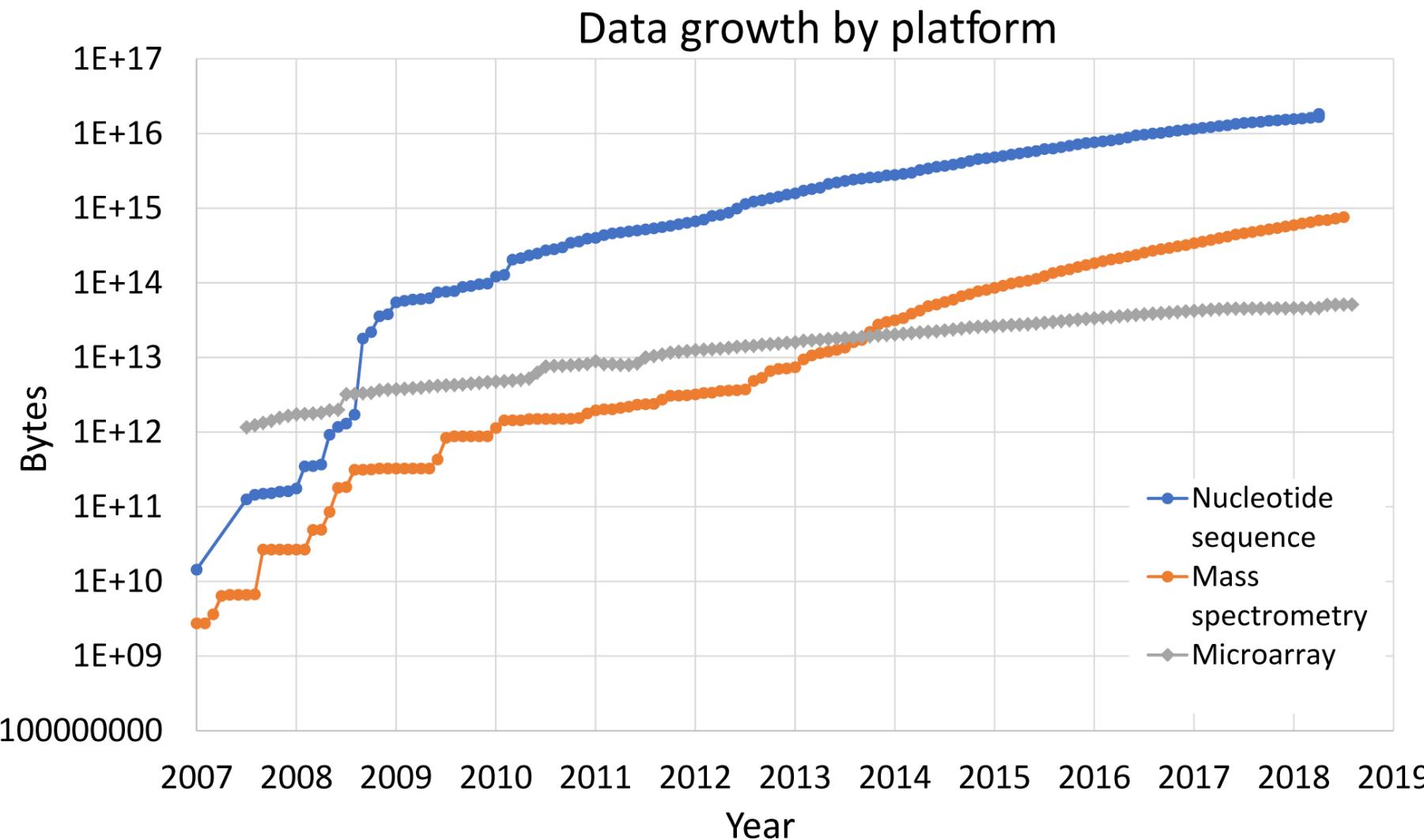
'Data for Life'

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



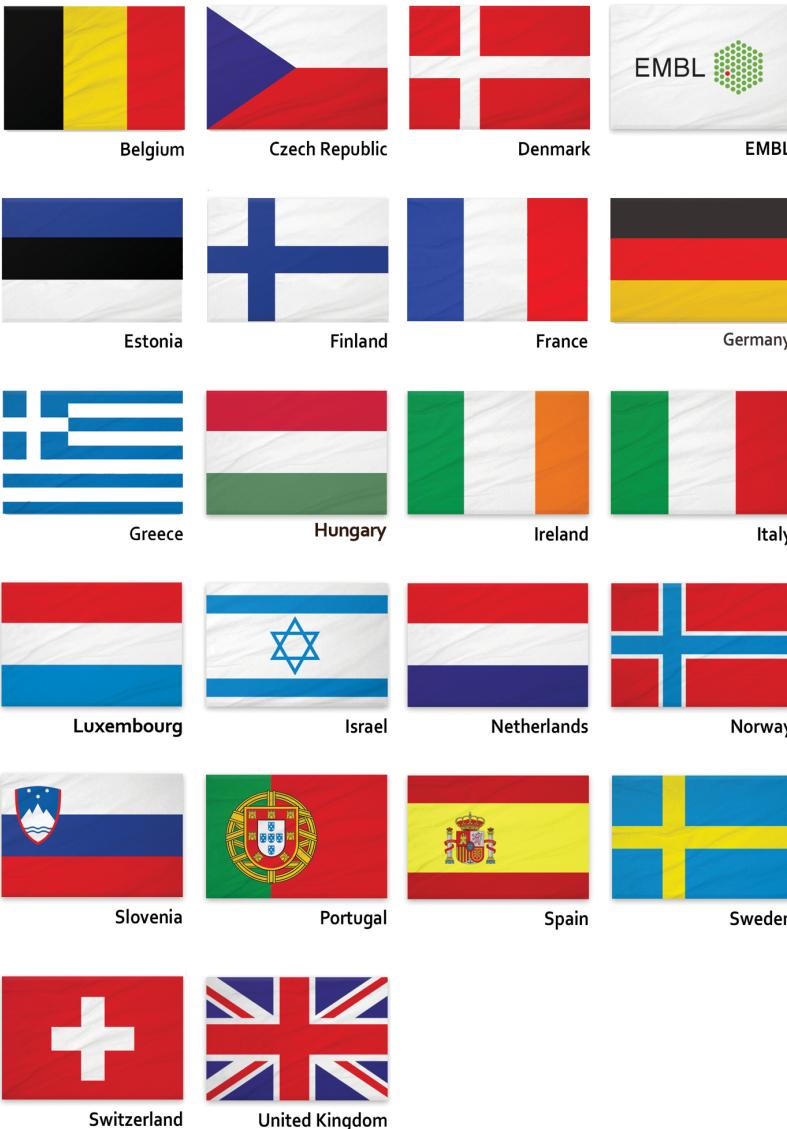
ELIXIR Europe



Data stored in
ELIXIR/EBI-EMBL
Repositories



ELIXIR Members



ELIXIR Observers



Cyprus

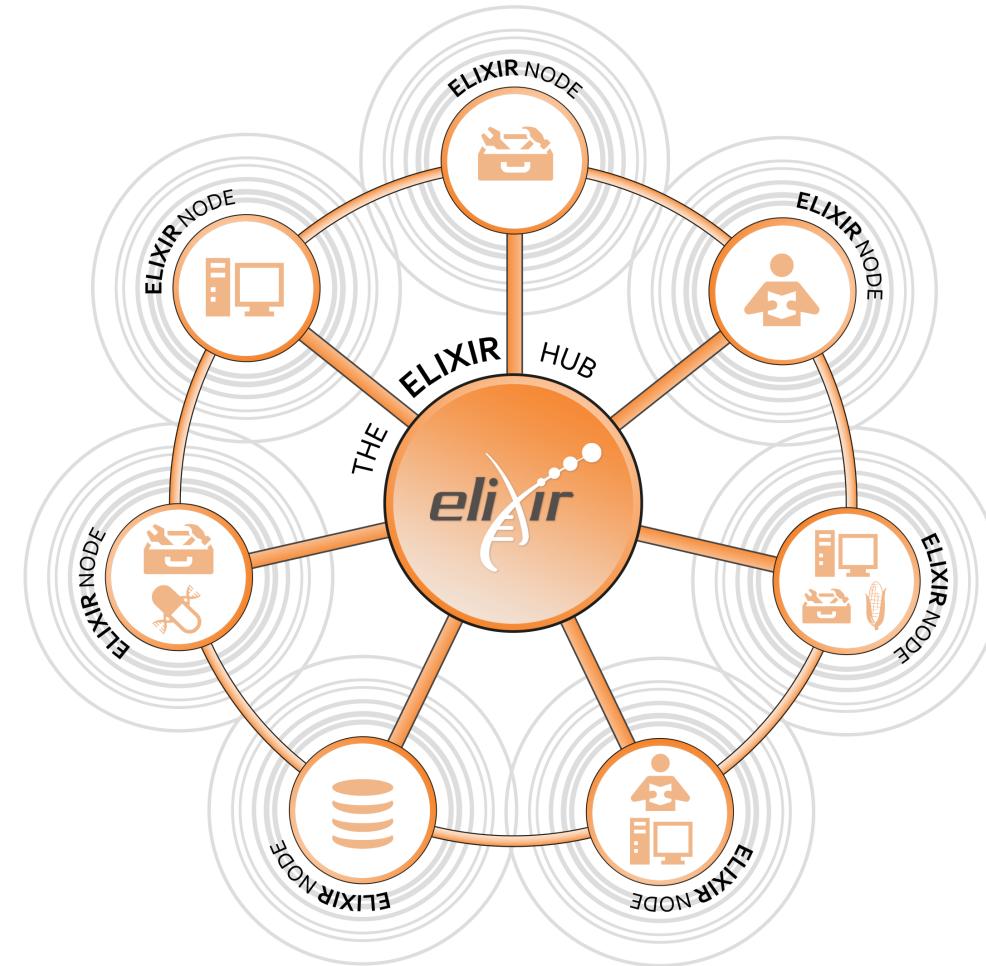


A distributed infrastructure to scale with the challenge

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



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ENA, EGA, PDBe, EuropePMC, ...



Data management:
Genome annotation, RDMkit,
Data management plans



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

ELIXIR Services



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



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



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Bio.tools, Benchmarking: OpenEBench



Industry:
Innovation and SME programme
Bespoke collaborations



ELIXIR Services



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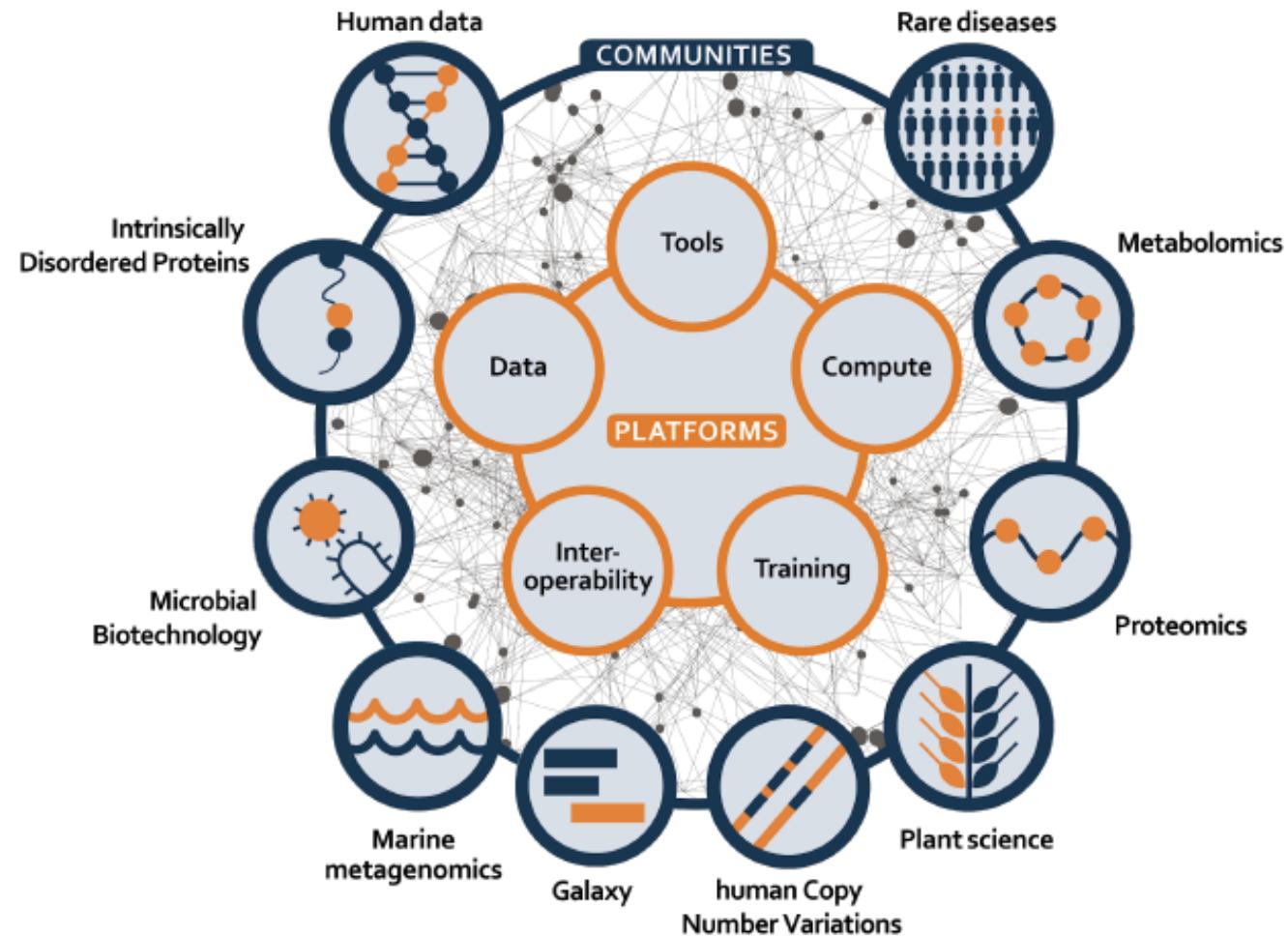


Training:
TeSS, Data Carpentry, eLearning



ELIXIR Structure

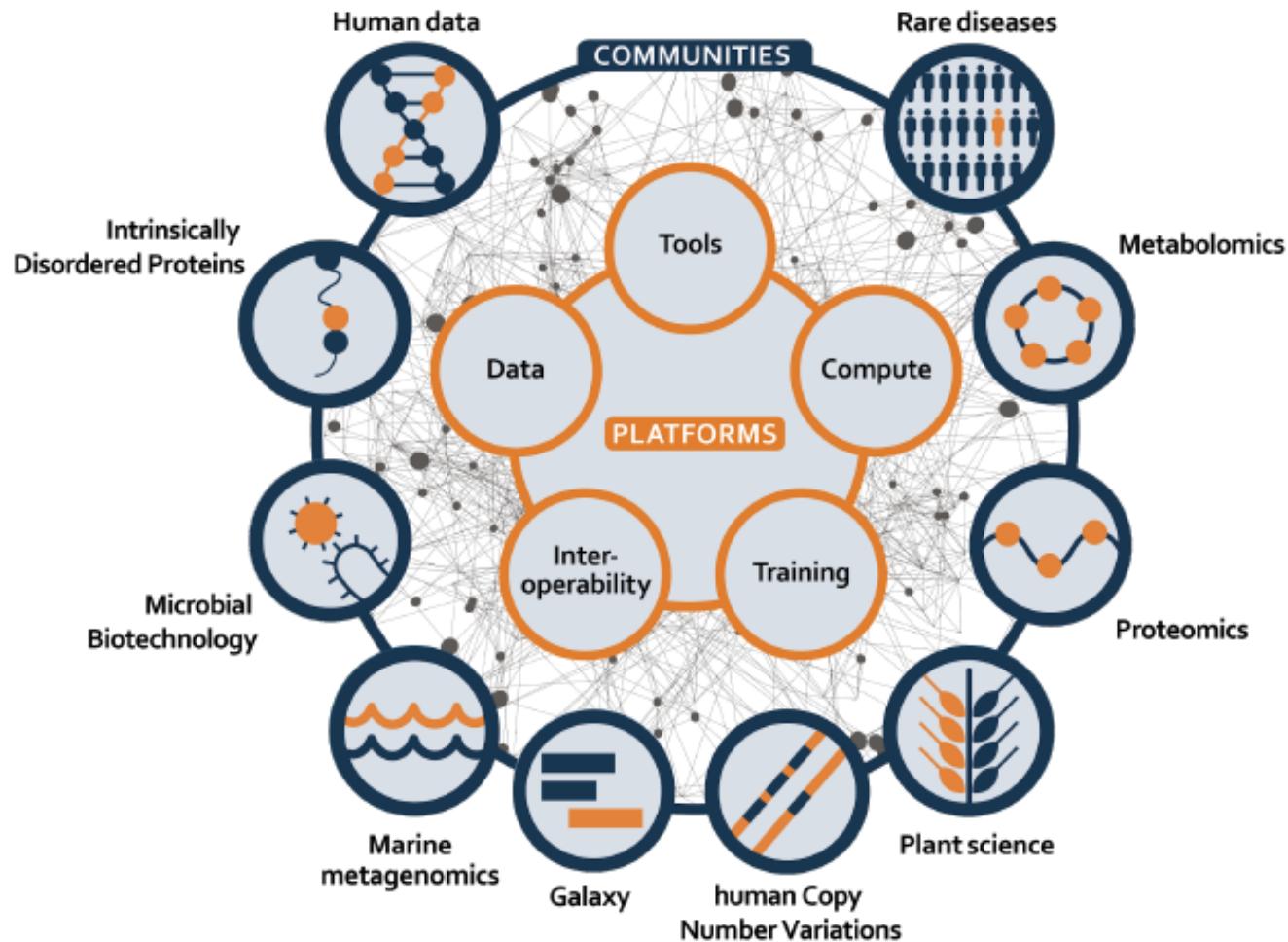
Five technical **Platforms** for
Compute, Data, Tools,
Interoperability, and Training



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 2021)

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 2 days 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



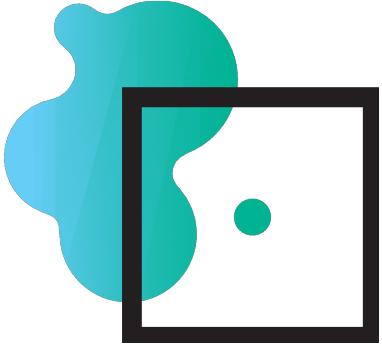
contact@bioinfo.no



Data Management

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





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

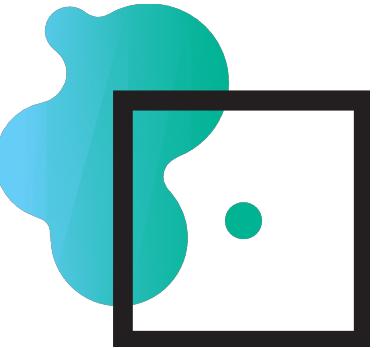


Innovation and commercialisation



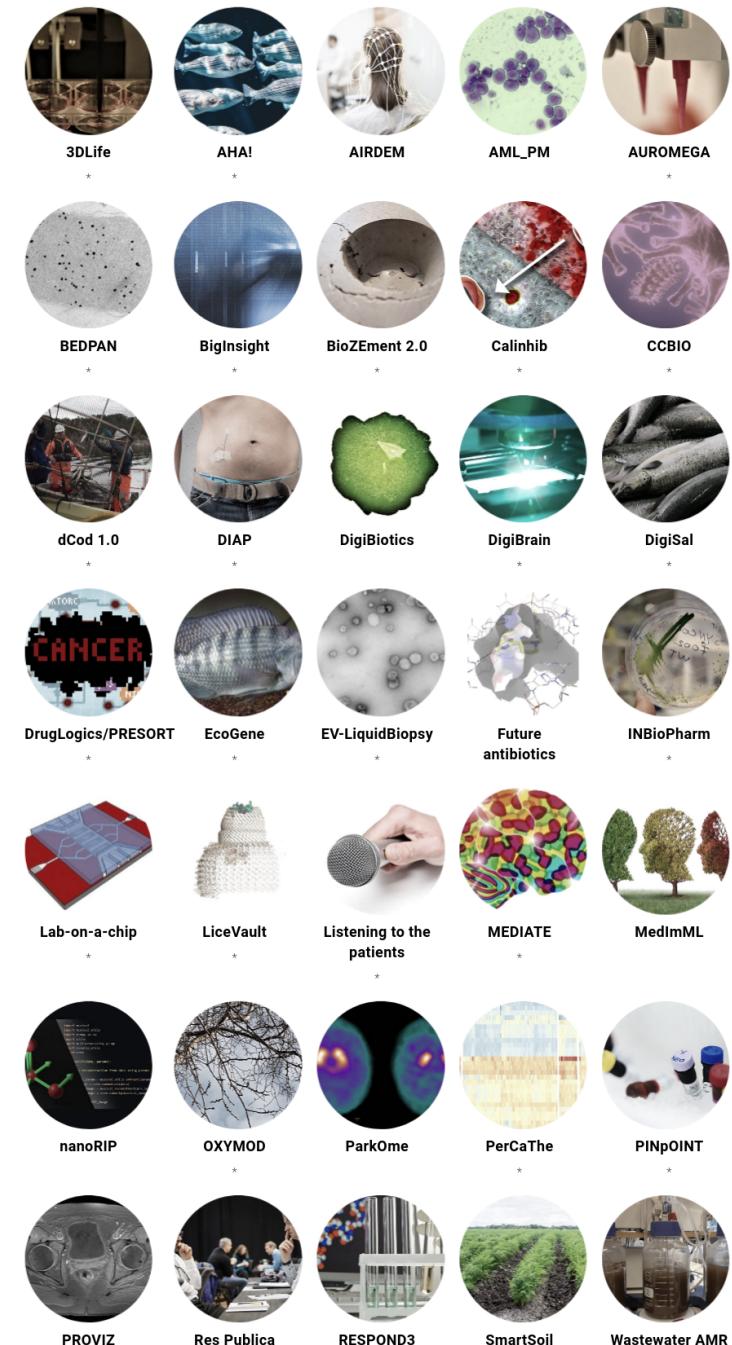
Data management

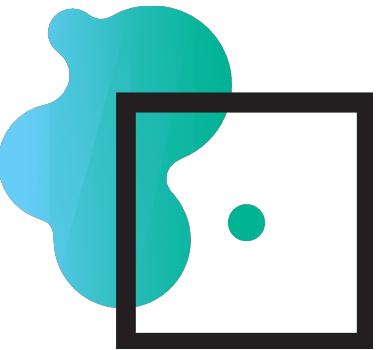
www.digitallifenorway.org



35 transdisciplinary
biotechnology projects all over
the country.

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



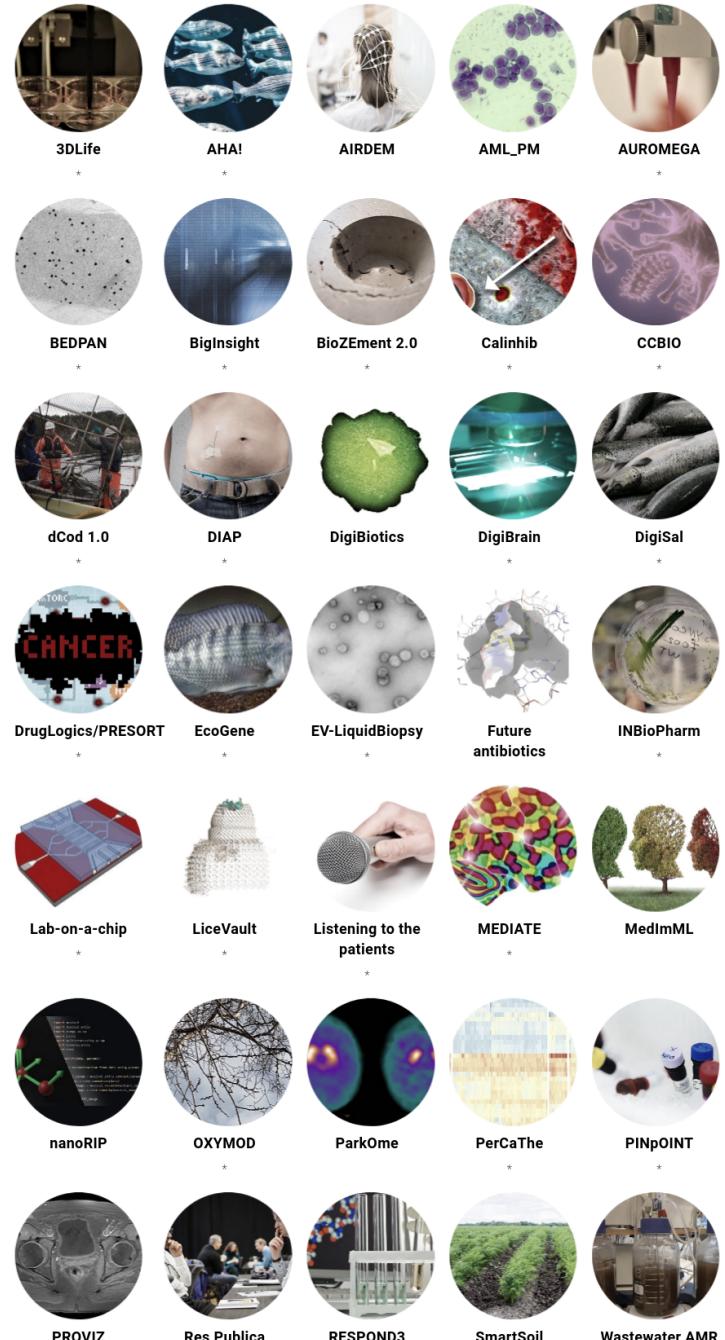


Join us!

upcoming partner call

Support for RCN call:
“Enabling technologies”

contact@digitallifenorway.org



Data Management

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



... today, tomorrow, and well into the
future.

Data Management

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



... today, tomorrow, and well into the
future.

... across geographical distances.

Data Management



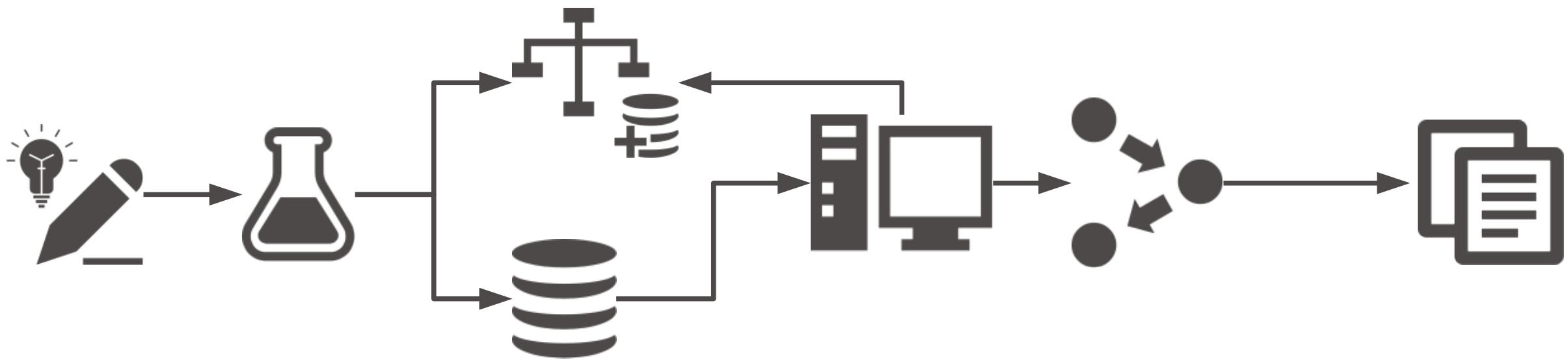
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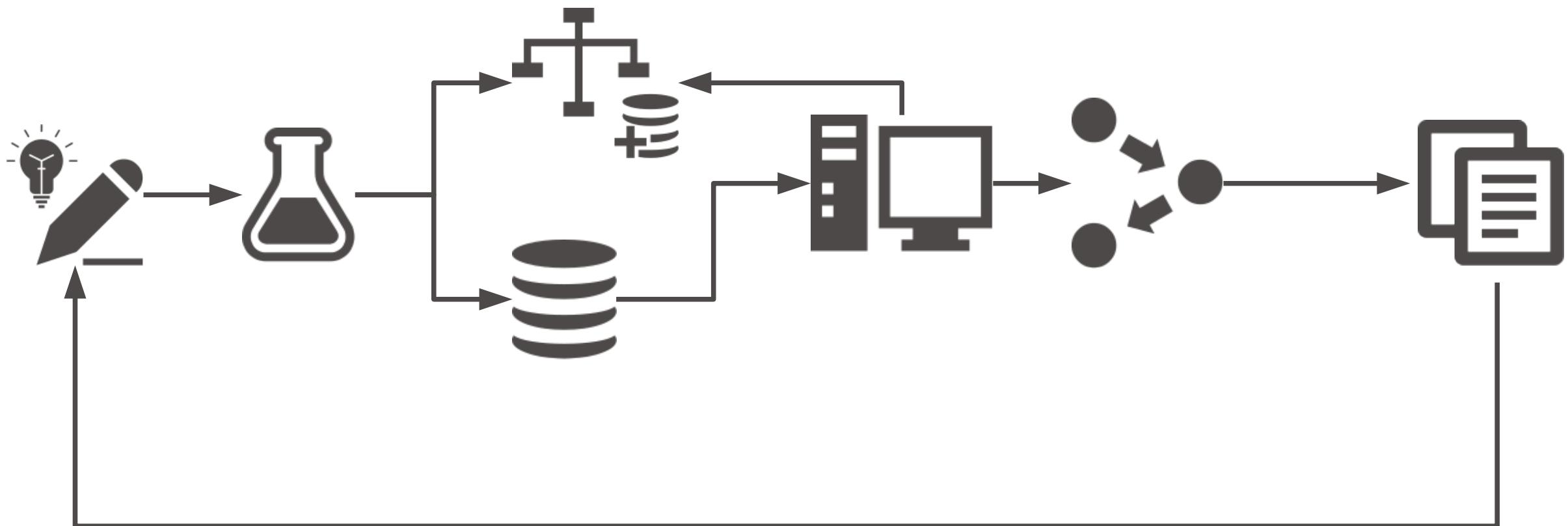
... today, tomorrow, and well into the
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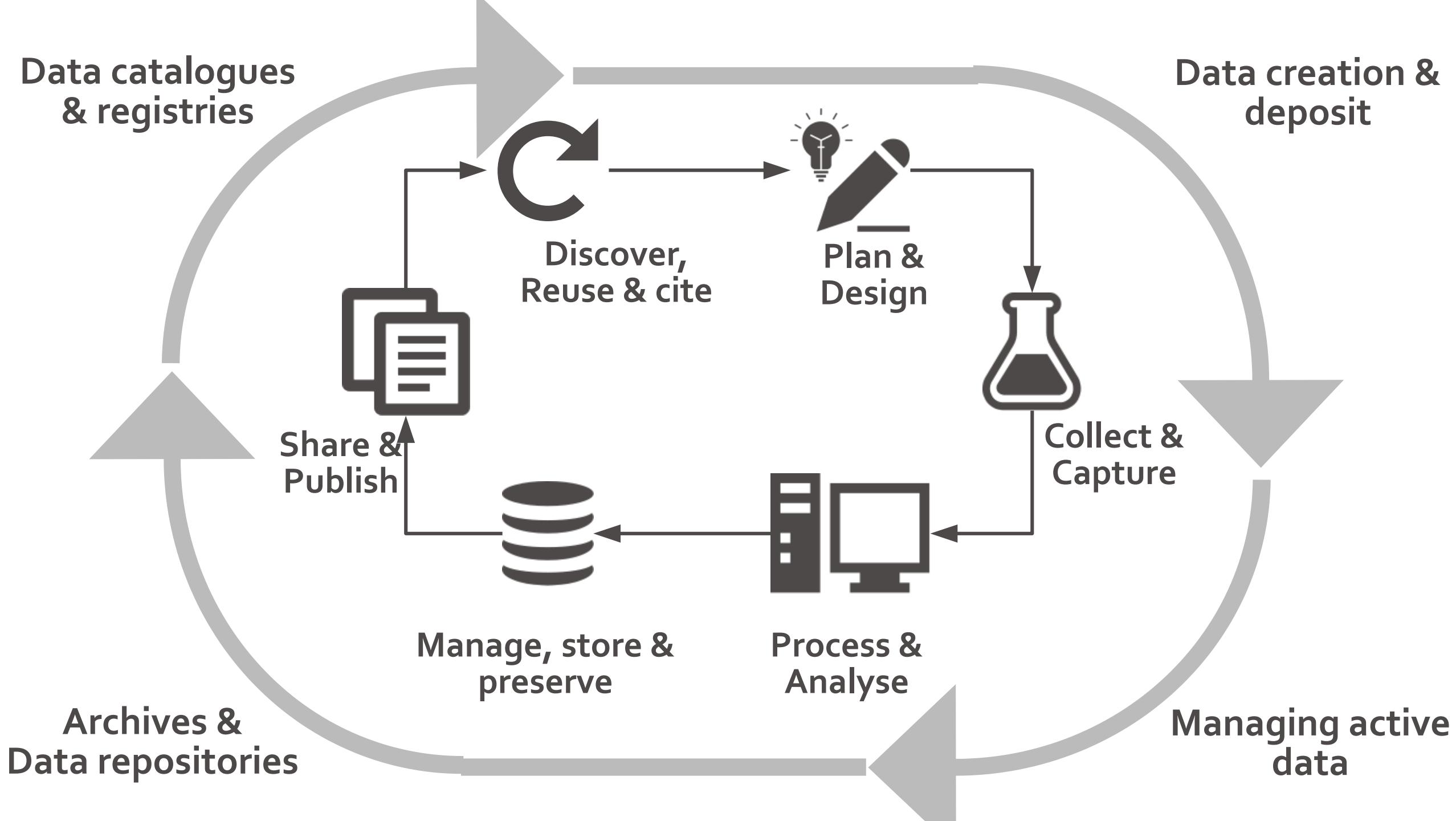
... across geographical distances.

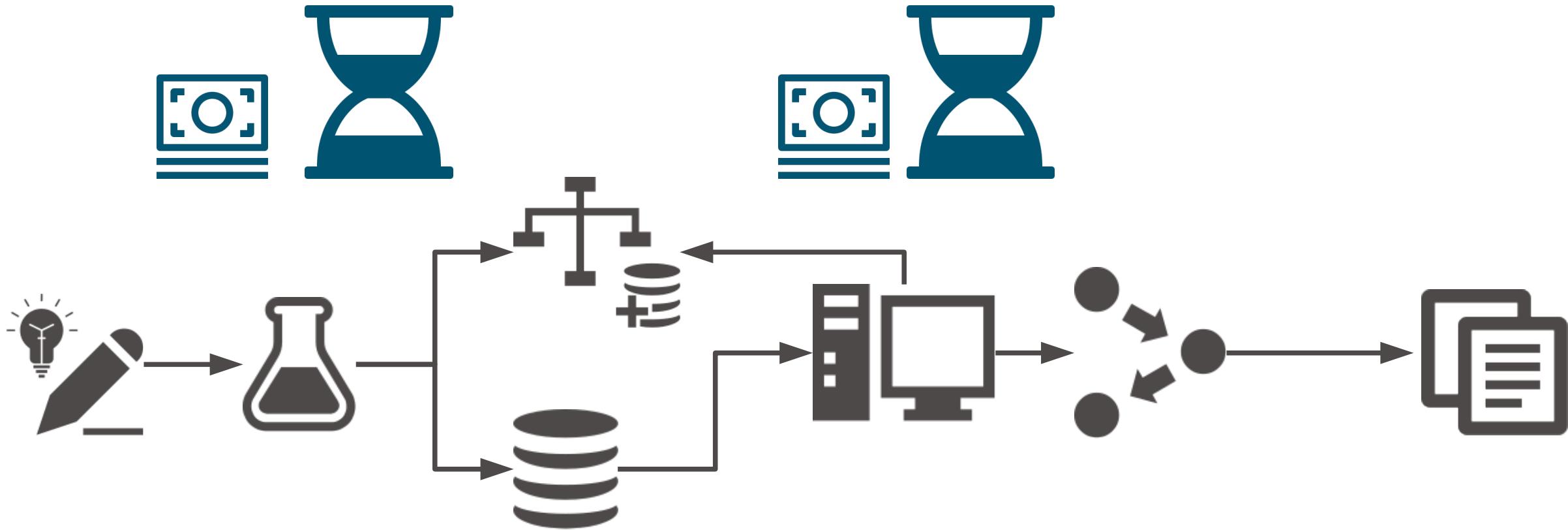
... enabling efficient collaboration;

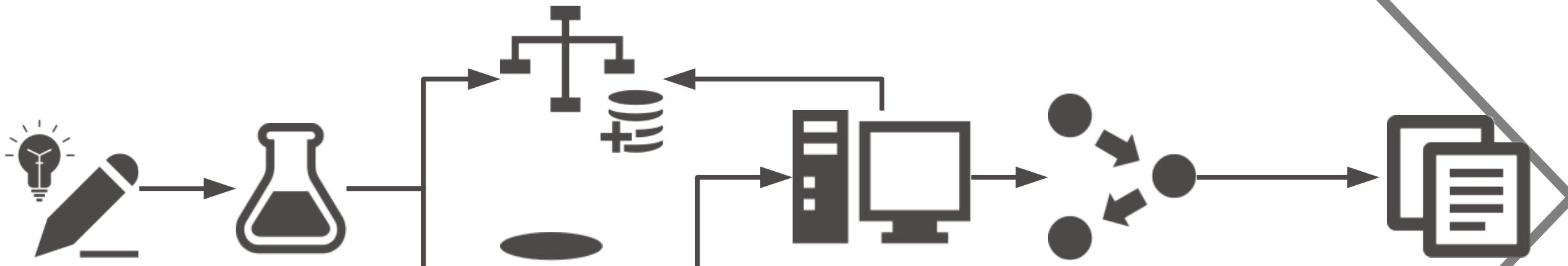
even across disciplines.

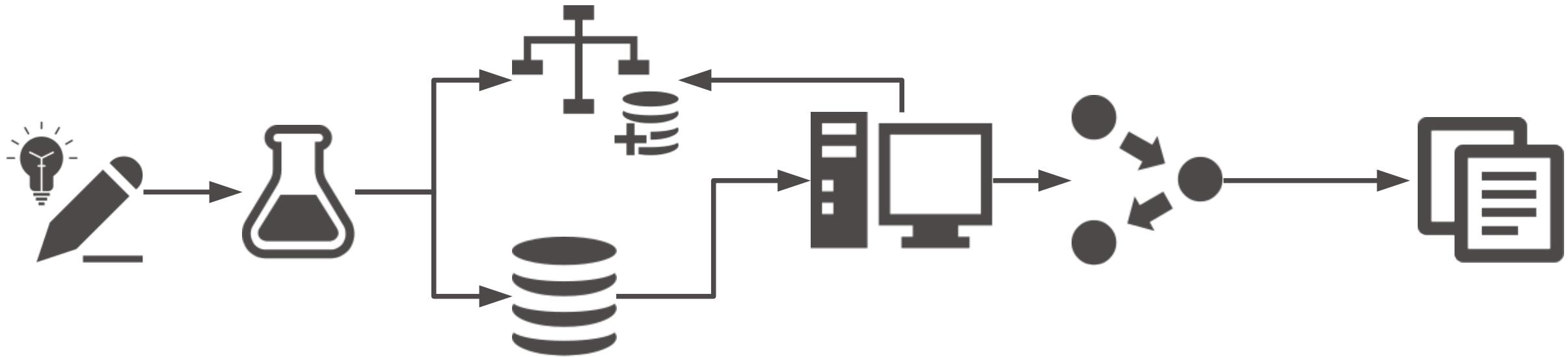








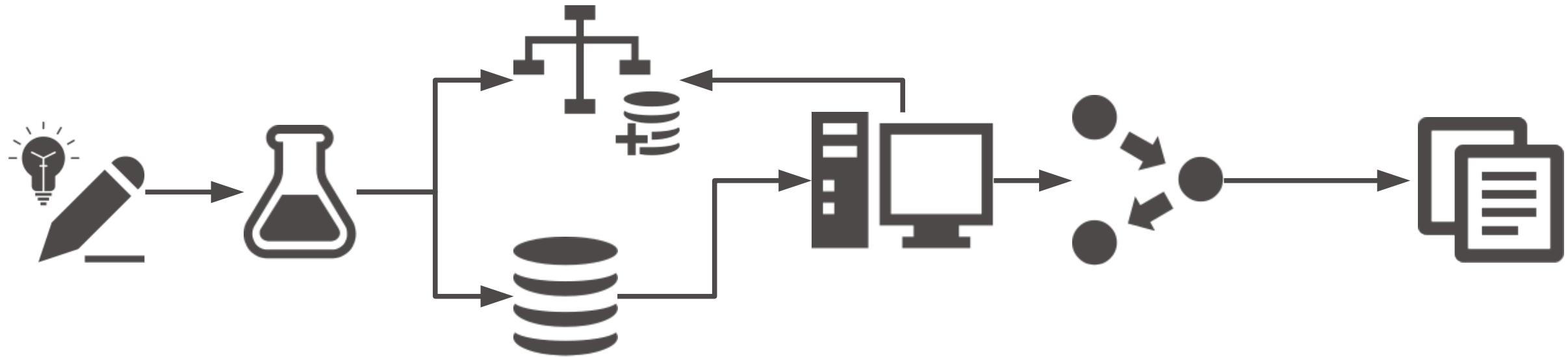






NeLS

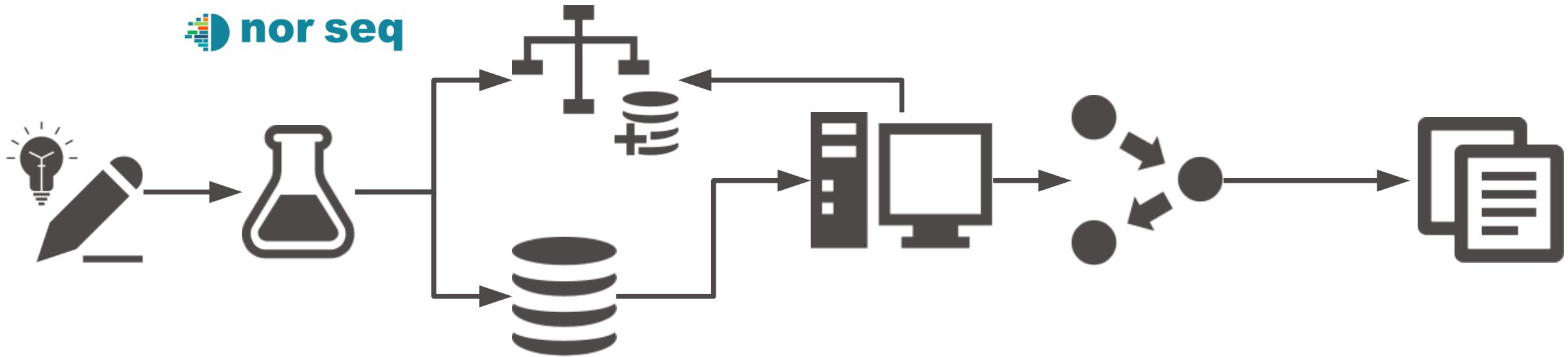
Norwegian e-Infrastructure for Life Sciences





NeLS

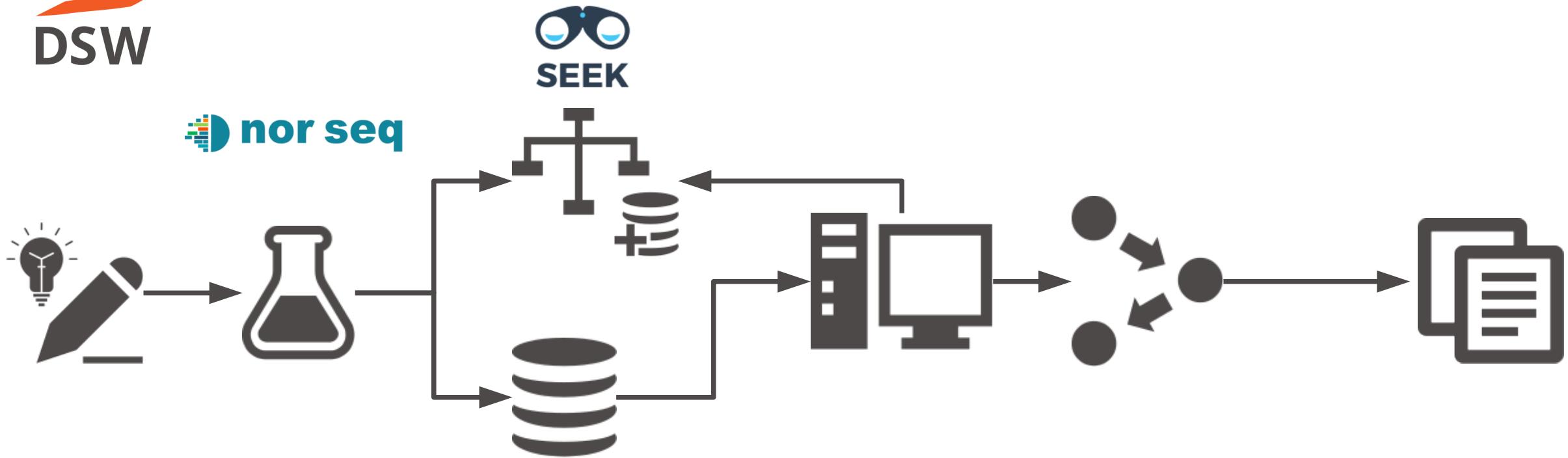
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NeLS

Norwegian e-Infrastructure for Life Sciences





NeLS

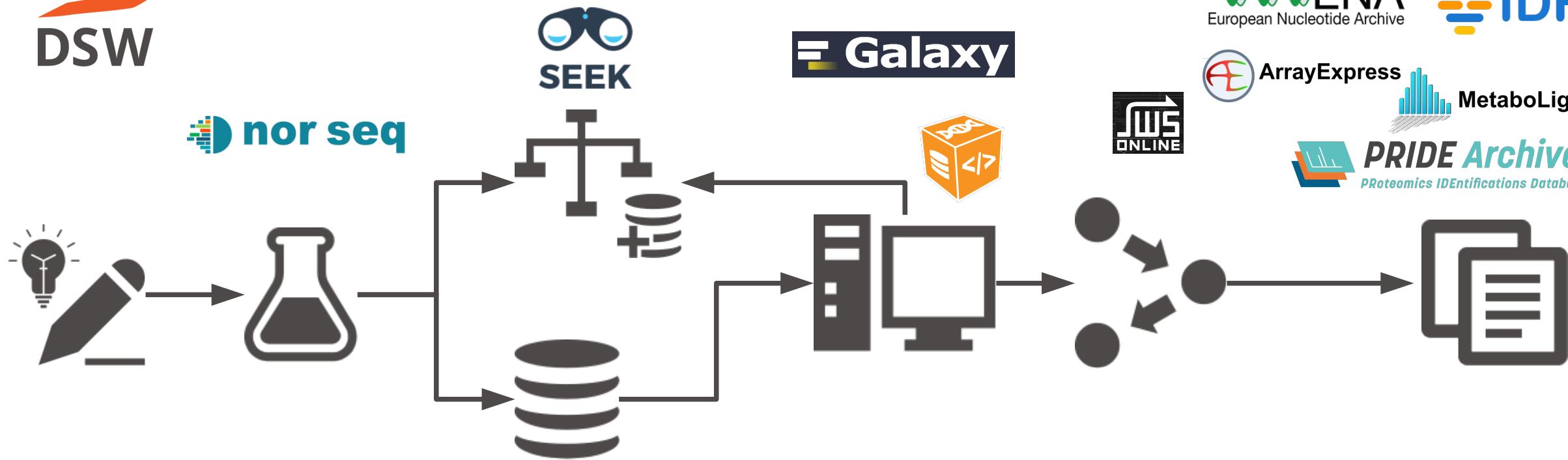
Norwegian e-Infrastructure for Life Sciences





NeLS

Norwegian e-Infrastructure for Life Sciences



BioStudies.

ENA
European Nucleotide Archive

IDR

ArrayExpress

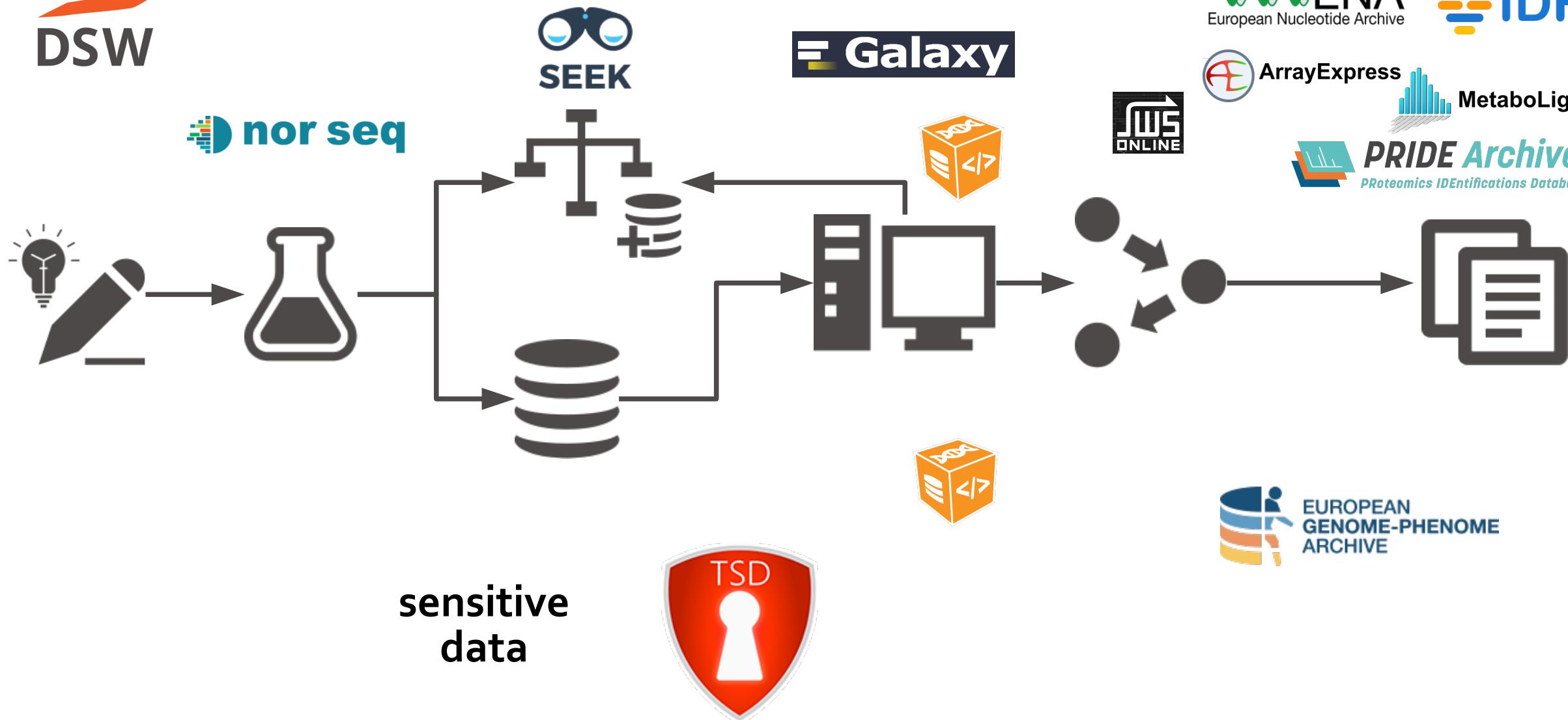
MetaboLights

PRIDE Archive
PRoteomics IDEntifications Database



NeLS

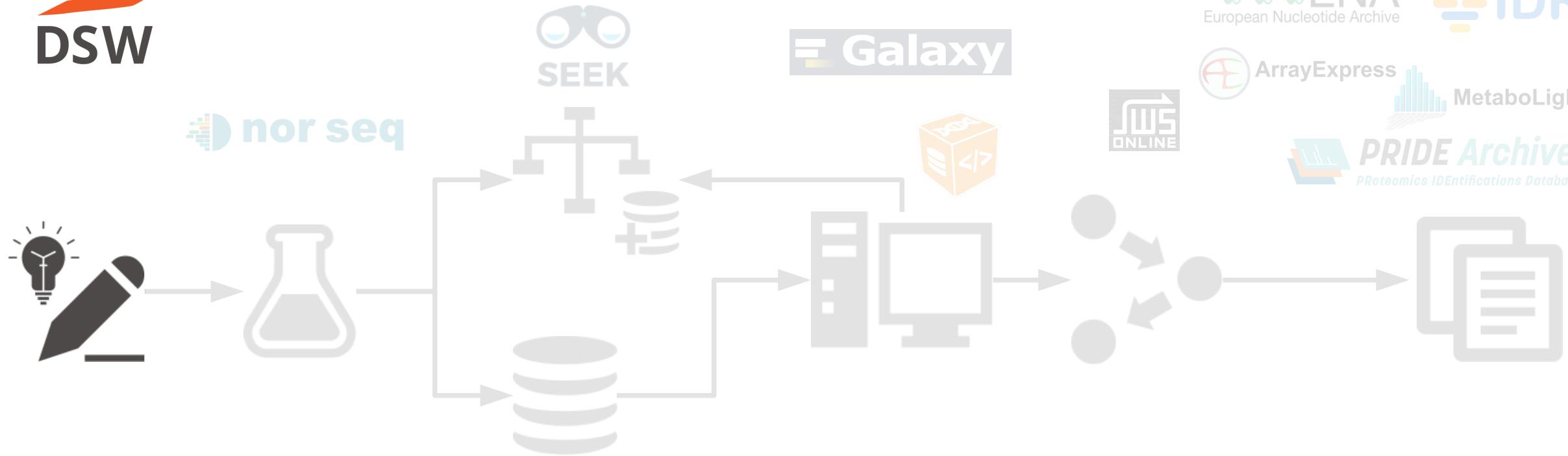
Norwegian e-Infrastructure for Life Sciences





NeLS

Norwegian e-Infrastructure for Life Sciences





Data Management Plan?





NeLS

Norwegian e-Infrastructure for Life Sciences

BioStudies.

ENA
European Nucleotide Archive

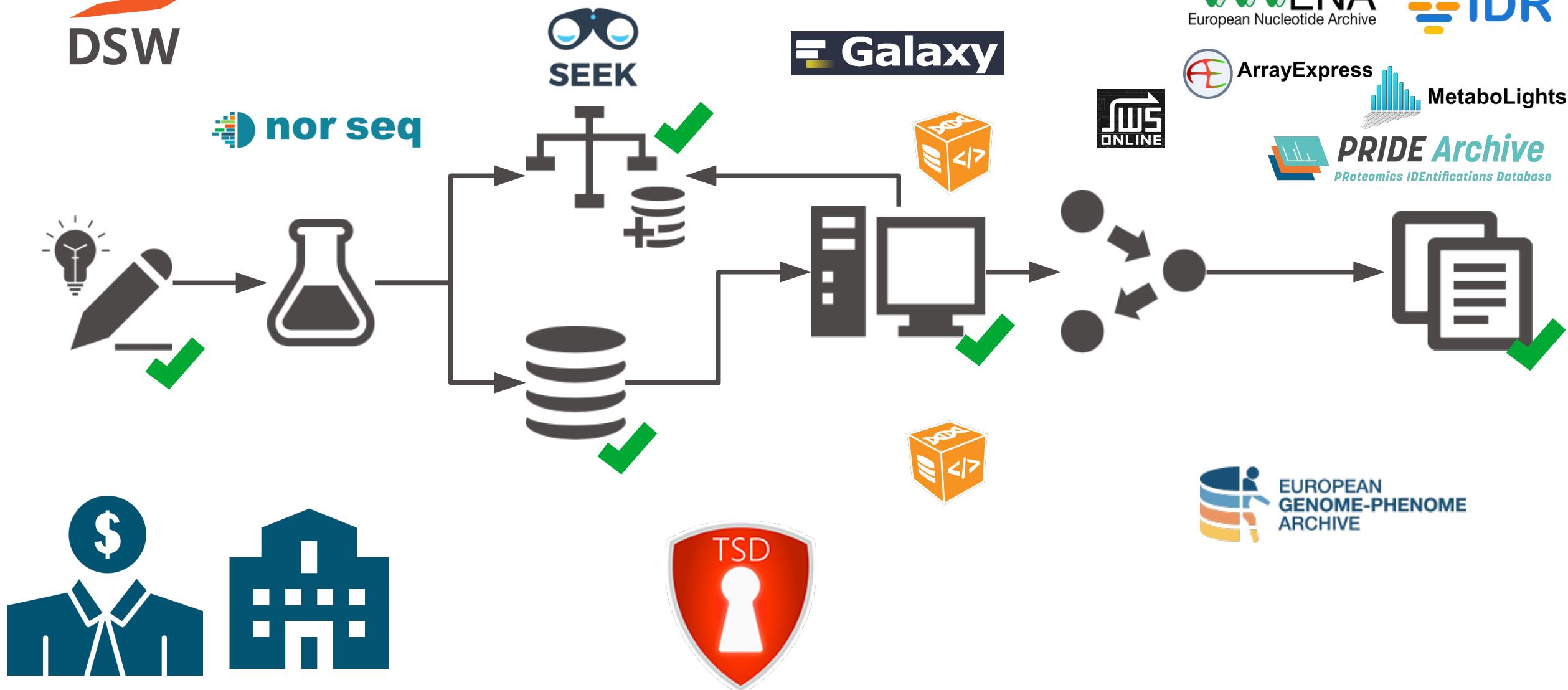
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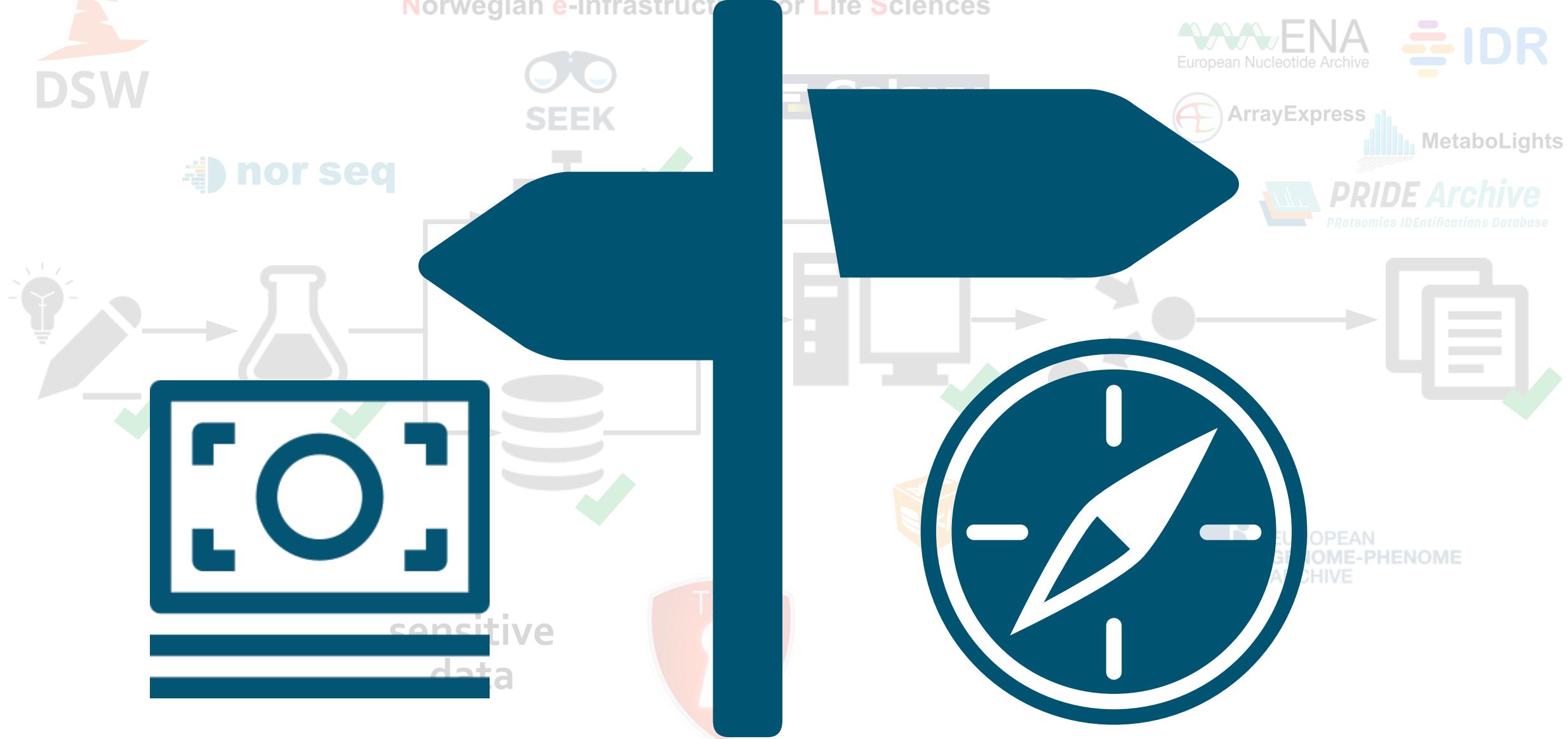
EUROPEAN GENOME-PHENOME ARCHIVE





NeLS

Norwegian e-Infrastructure for Life Sciences



RDMkit

Your role



- Researcher

Data steward policy

Data steward research

Data steward infrastructure

rdmkit.elixir-europe.org

RDMkit

Your domain

-

Plant sciences

Marine metagenomics

Human data

Biomolecular simulation data

Intrinsically disordered proteins

Microbial biotechnology



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RDMkit

Your problem

-

Compliance monitoring

Data analysis

Data management plan

Data organisation

Data protection

Data publication

Data quality

Data storage

Data transfer

Identifiers

Licensing

Metadata management

Sensitive data



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inbuilt curated resources:



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inbuilt curated resources:

**Repositories &
Metadata standards**

 FAIRsharing

The FAIRsharing logo consists of the word "FAIRsharing" in a blue and black sans-serif font. A stylized blue infinity symbol is positioned below the letter "A".

rdmkit.elixir-europe.org

RDMkit

inbuilt curated resources:

**Repositories &
Metadata standards**



Software



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RDMkit

inbuilt curated resources:

**Repositories &
Metadata standards**



Software



Training



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rdmkit.elixir-europe.org



elixir.no
digitallifenorway.org



contact@bioinfo.no
contact@digitallifenorway.org
korbinian.bosl@uib.no



@elixirnorway
@DigitaltLiv
@BoslKorbinian



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



CENTRE FOR
DIGITAL LIFE
NORWAY

BioMedData



UNIVERSITY OF BERGEN



UiO : University of Oslo

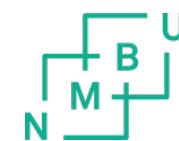


UiT The Arctic University of Norway



NTNU

Norwegian University of
Science and Technology



Norwegian University
of Life Sciences

The Data Stewardship Wizard is provided by:





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