



Data Management Plans

and a short introduction to ELIXIR & Digital Life Norway



CENTRE FOR
DIGITAL LIFE
NORWAY

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Data manager ELIXIR Norway
11 March 2020

Content:

tinyurl.com/DMP-WS-Bergen

ELIXIR Europe

'Data for Life'

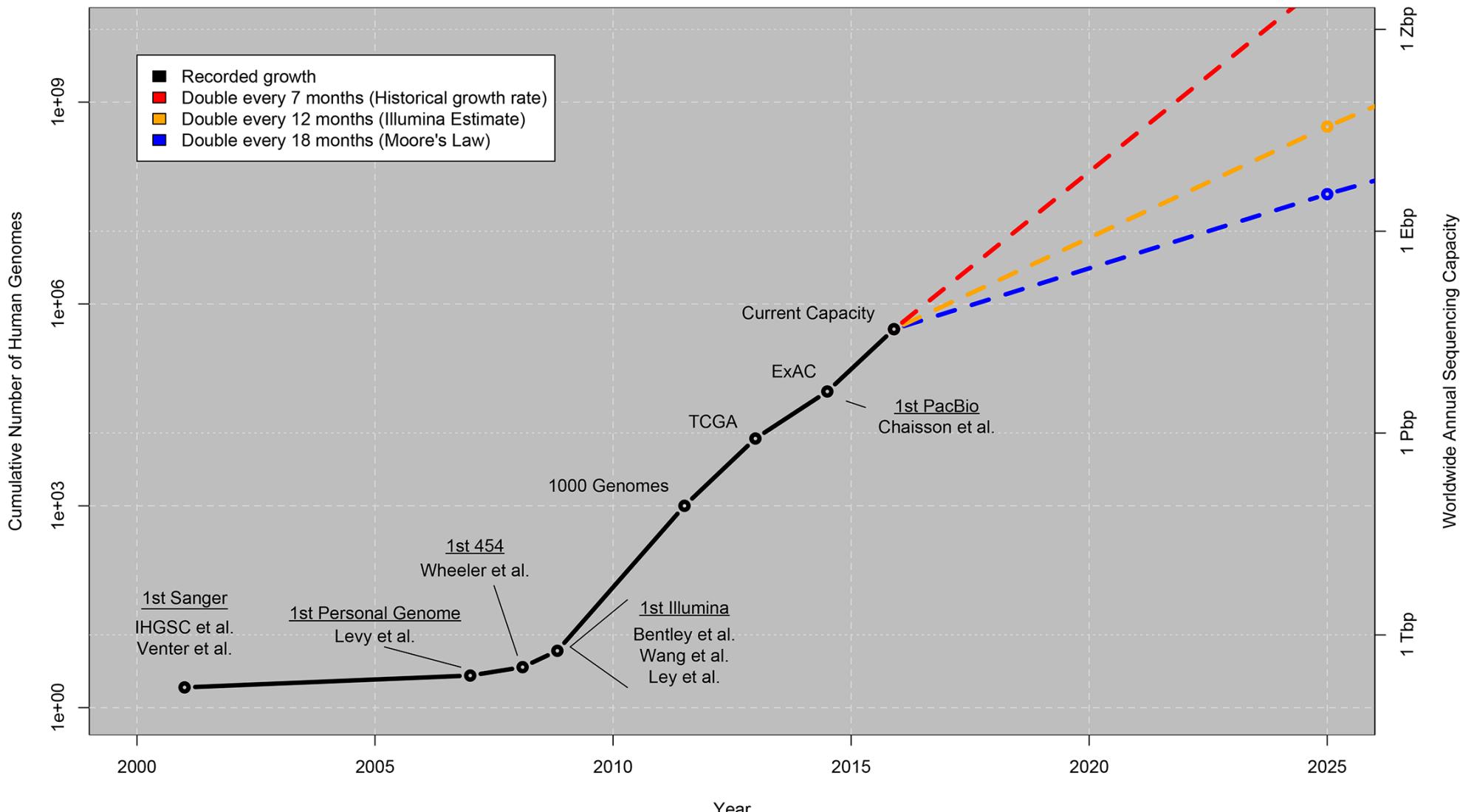
Mission:

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

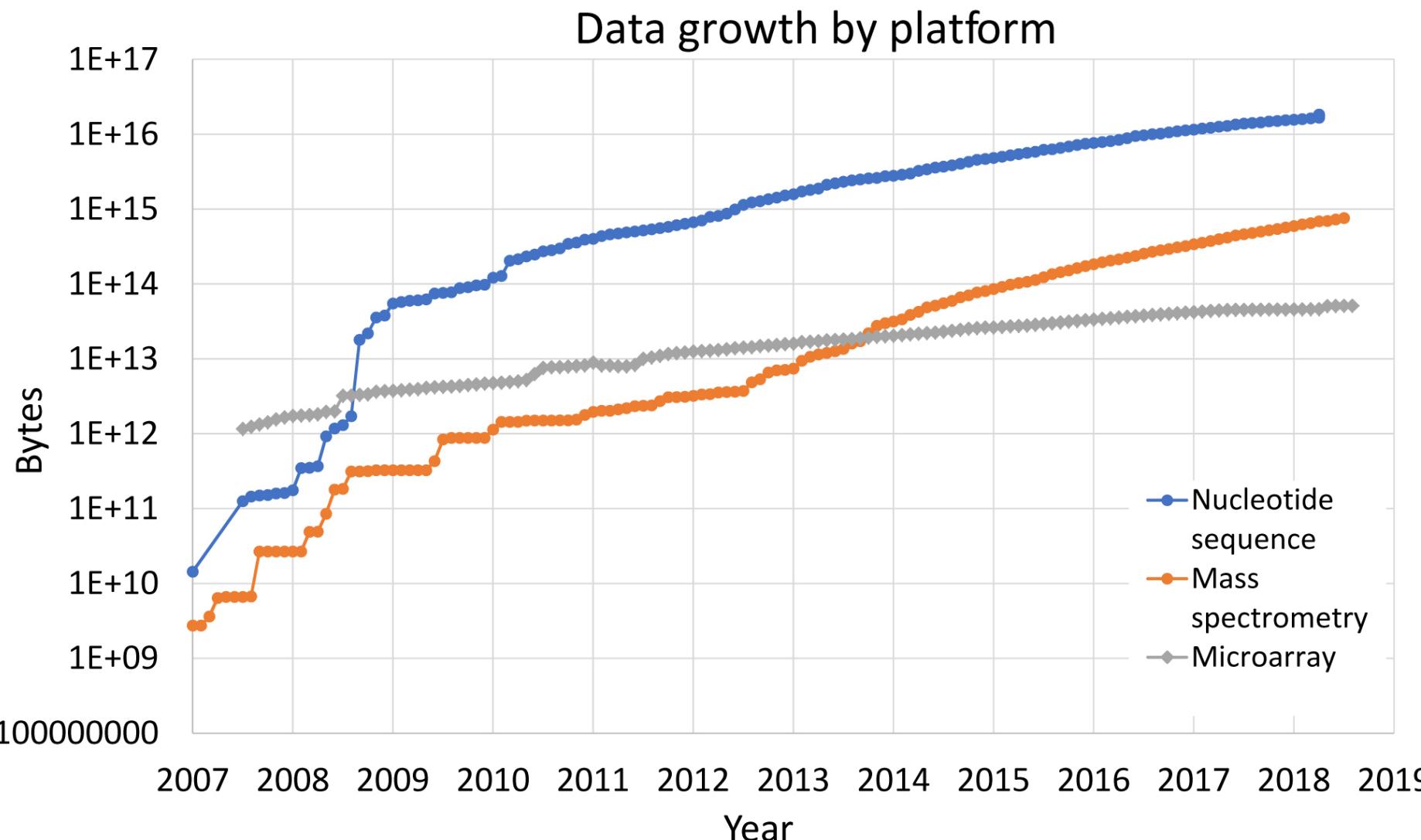


ELIXIR Europe

Growth of DNA Sequencing



ELIXIR Europe



Data stored in
ELIXIR/EBI-EMBL
Repositories



ELIXIR Members



ELIXIR Observers



Cyprus

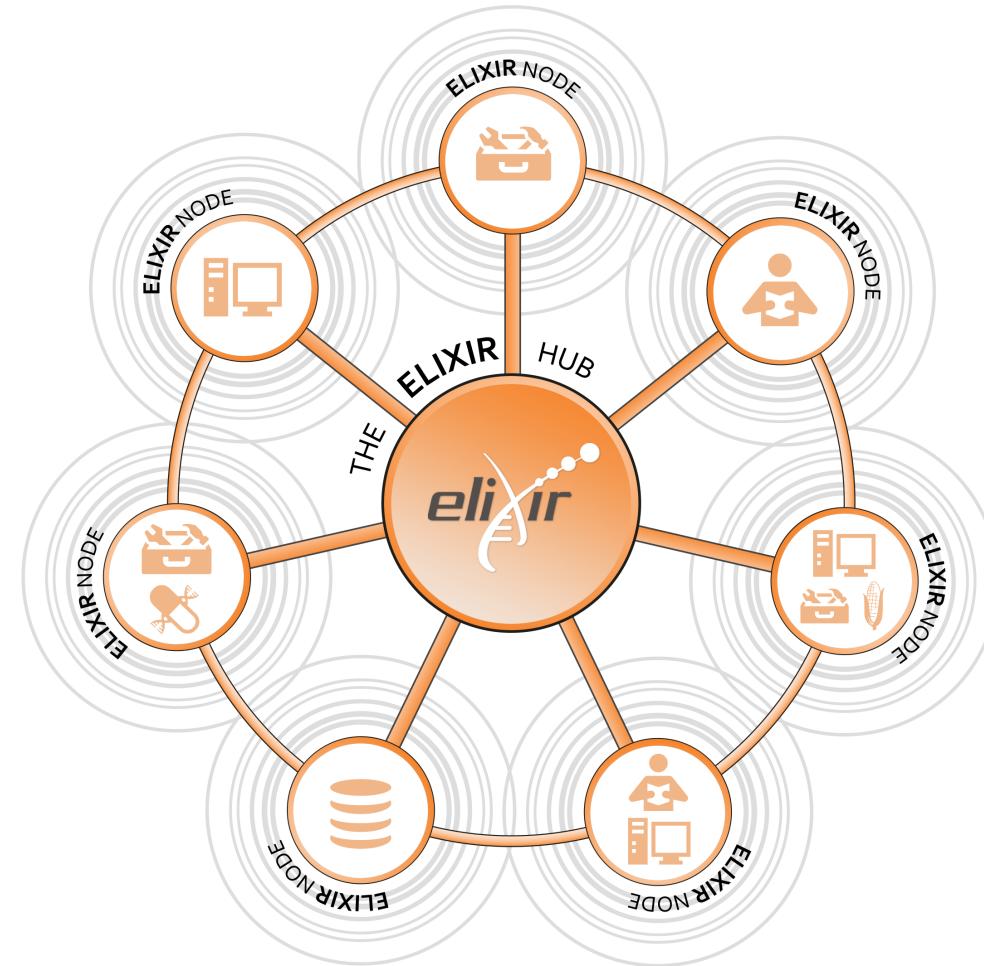


A distributed infrastructure to scale with the challenge

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



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



ELIXIR Services



Data deposition:
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Data management:
Genome annotation
Data management plans

ELIXIR Services



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



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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



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Genome annotation
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Bioinformatics tools:
Bio.tools, Benchmarking: OpenEBench



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Industry:
Innovation and SME programme
Bespoke collaborations



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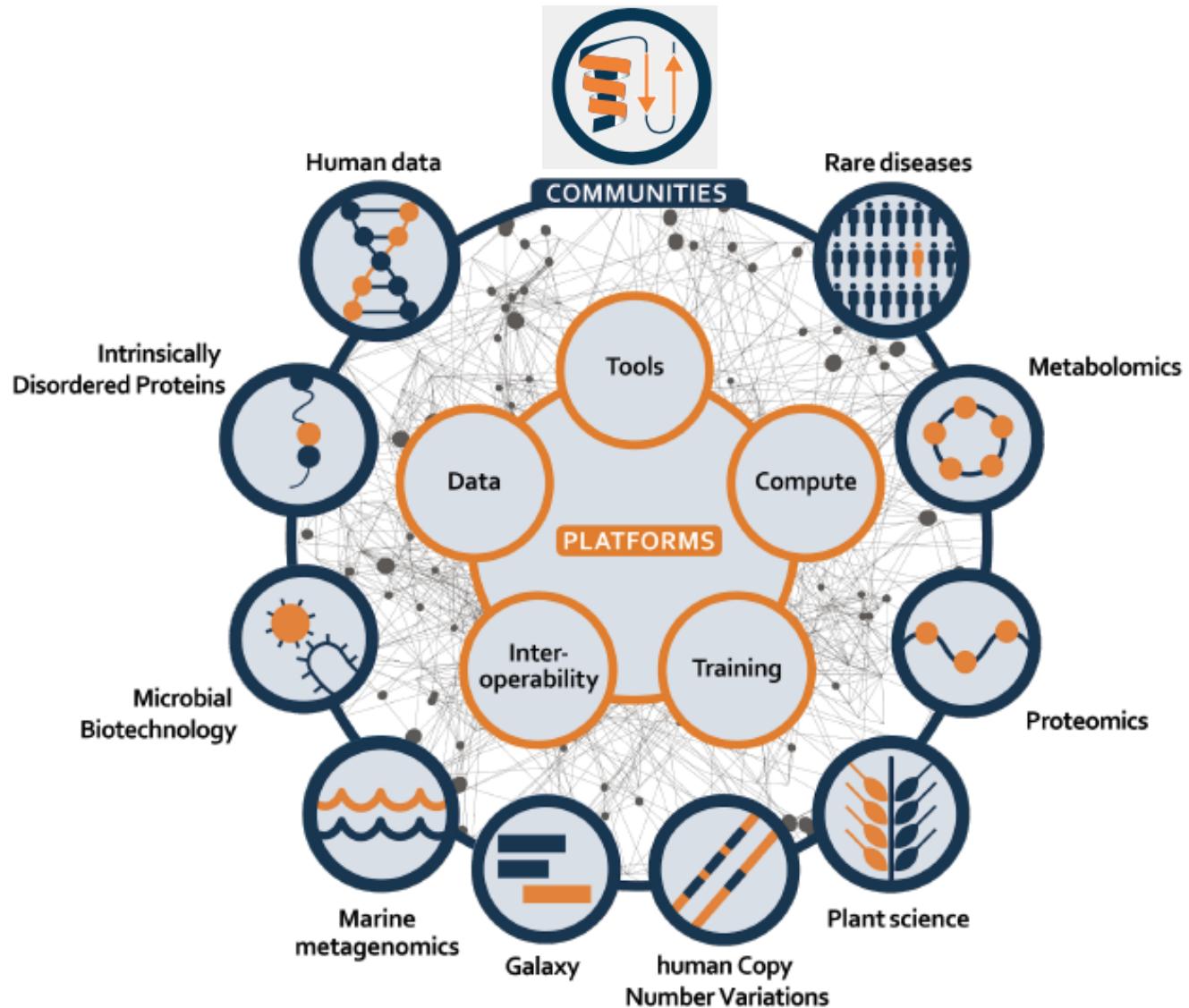


Training:
TeSS, Data Carpentry, eLearning



ELIXIR Structure

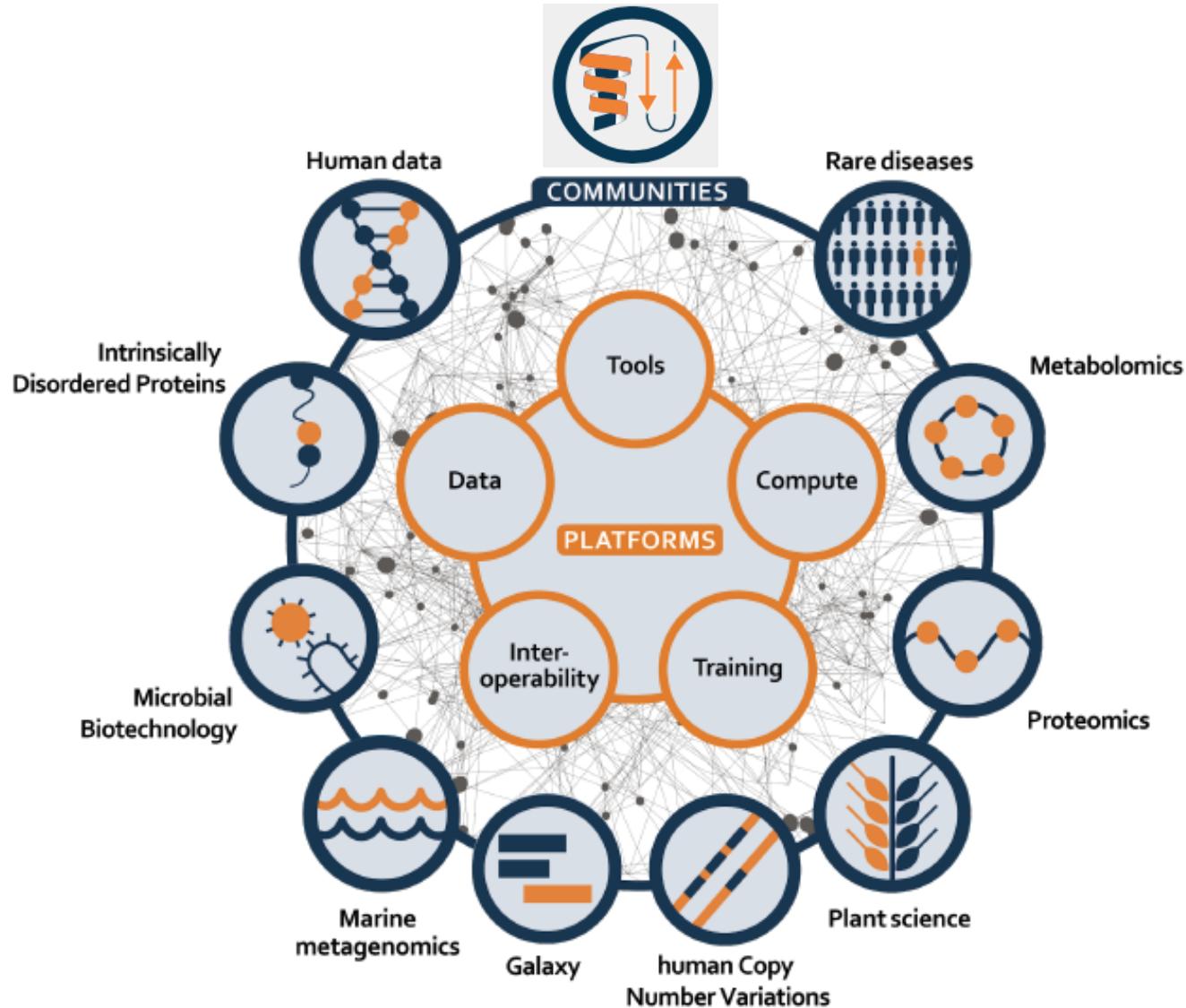
Five technical **Platforms** for
Compute, Data, Tools,
Interoperability, and Training



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

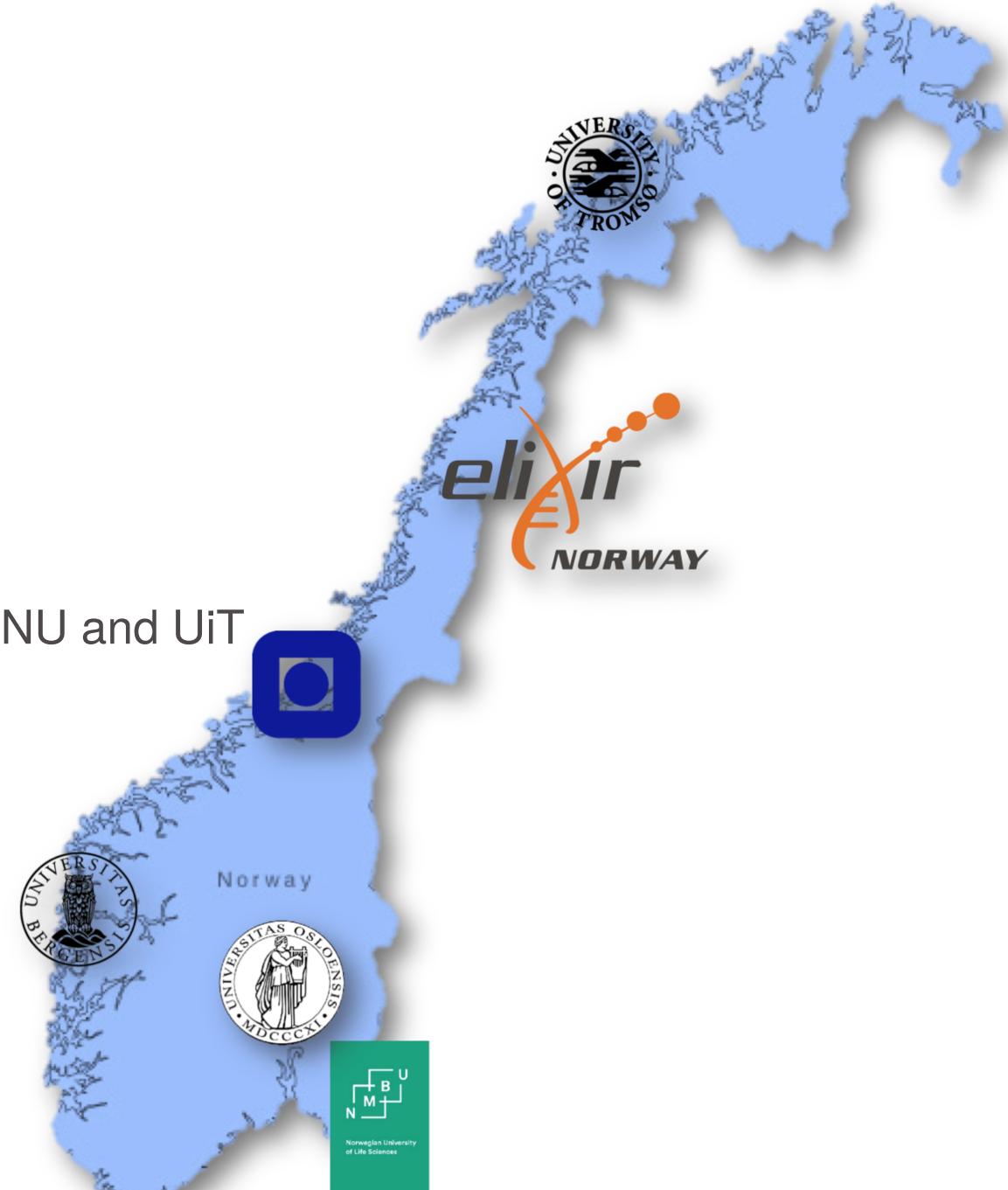
Users

Services to national users

Infrastructure, support and training

Deliverables to ELIXIR Europe

Tools and databases



Our additional user services - Norway

Support – through our HelpDesk

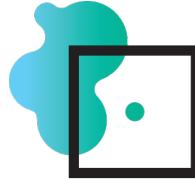
Training – in using our tools and workflows, and in data management

Bioinformatics infrastructure

Analysis, sharing and storage of data

contact@bioinfo.no





CENTRE FOR
DIGITAL LIFE
NORWAY

Support for trans-disciplinary participating projects:

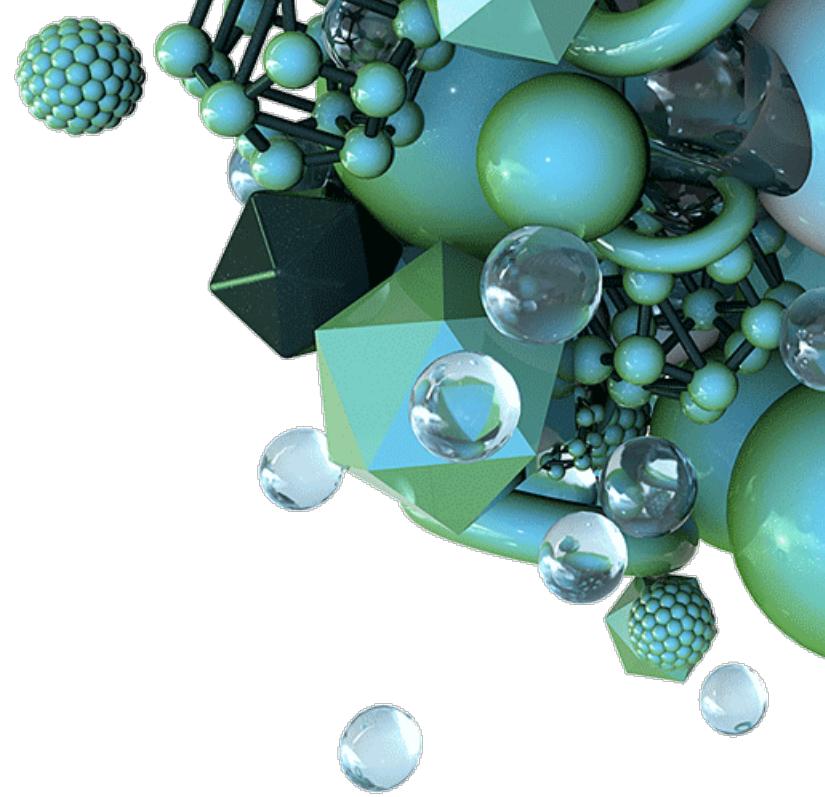
Responsible Research and Innovation

Innovation and industry involvement

Training & Research school

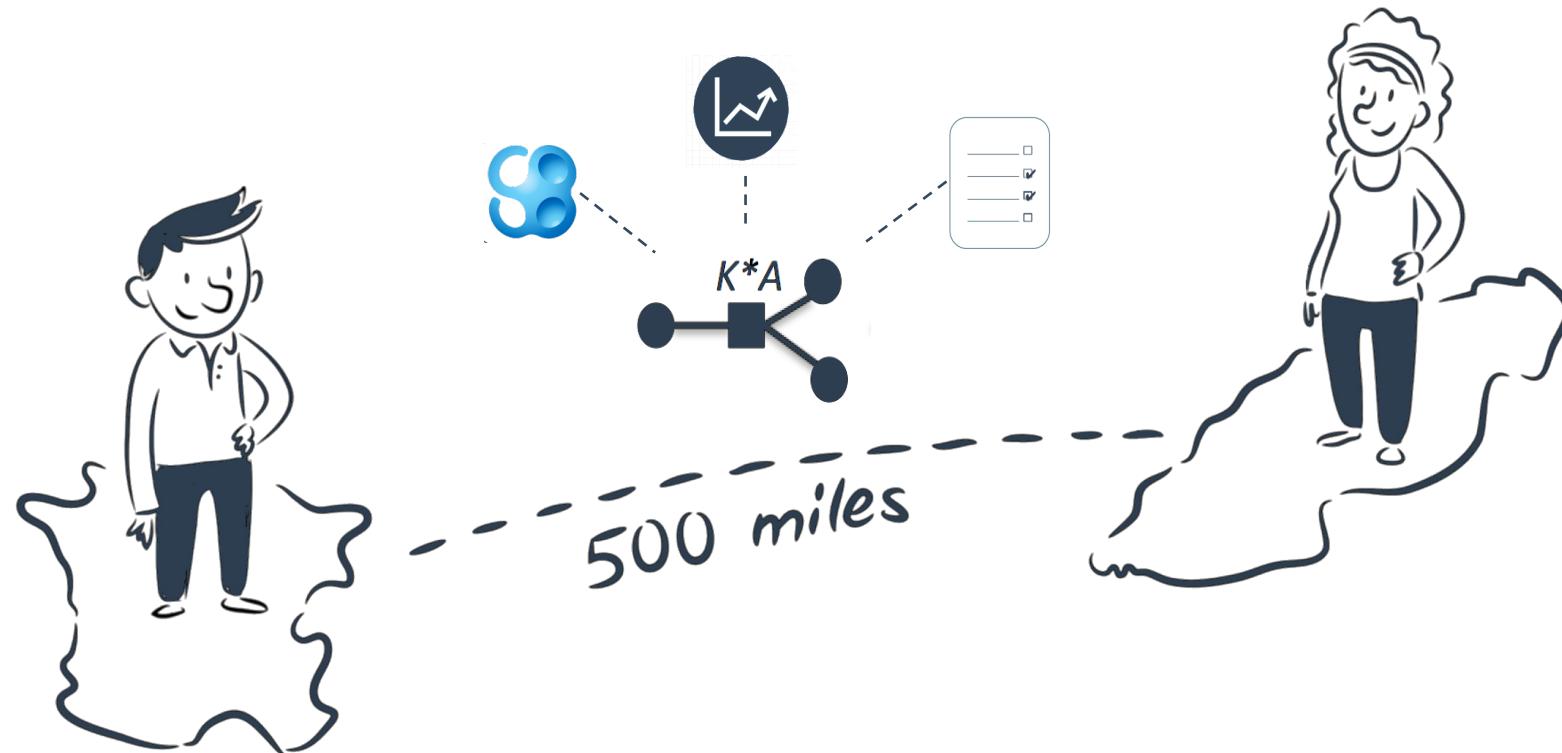
Competence and infrastructure – incl. Data Management

Outreach communication

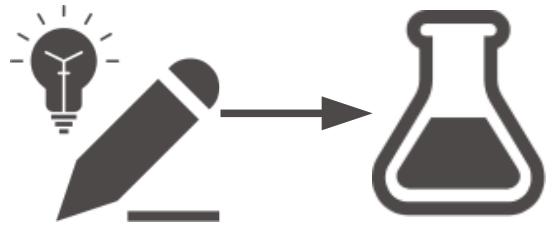


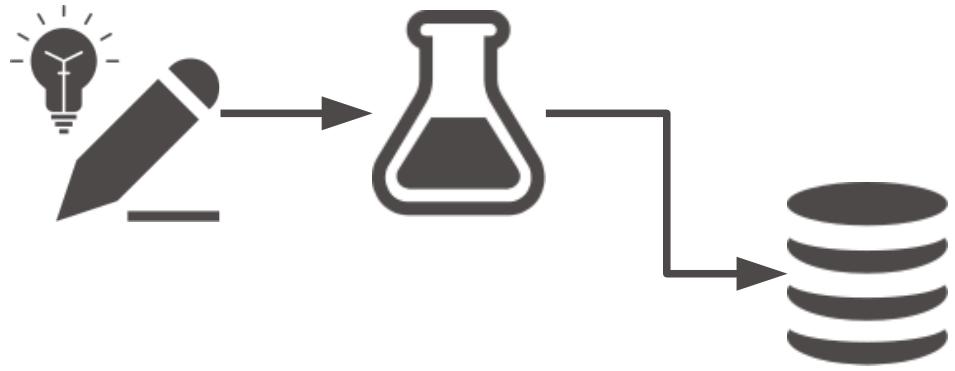
Data Management

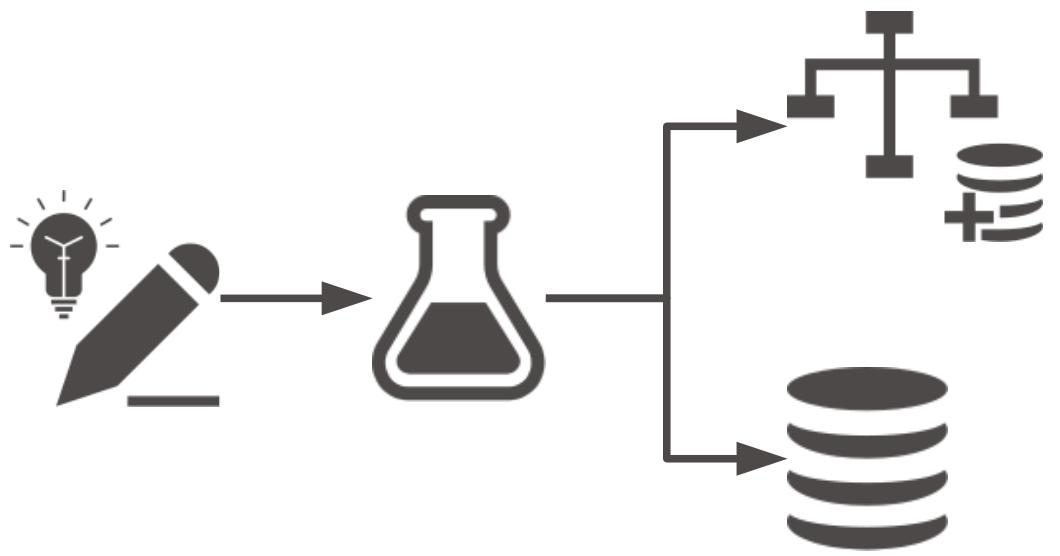
Make research data and related metadata **discoverable, accessible and understandable** today, tomorrow, and well into the future.

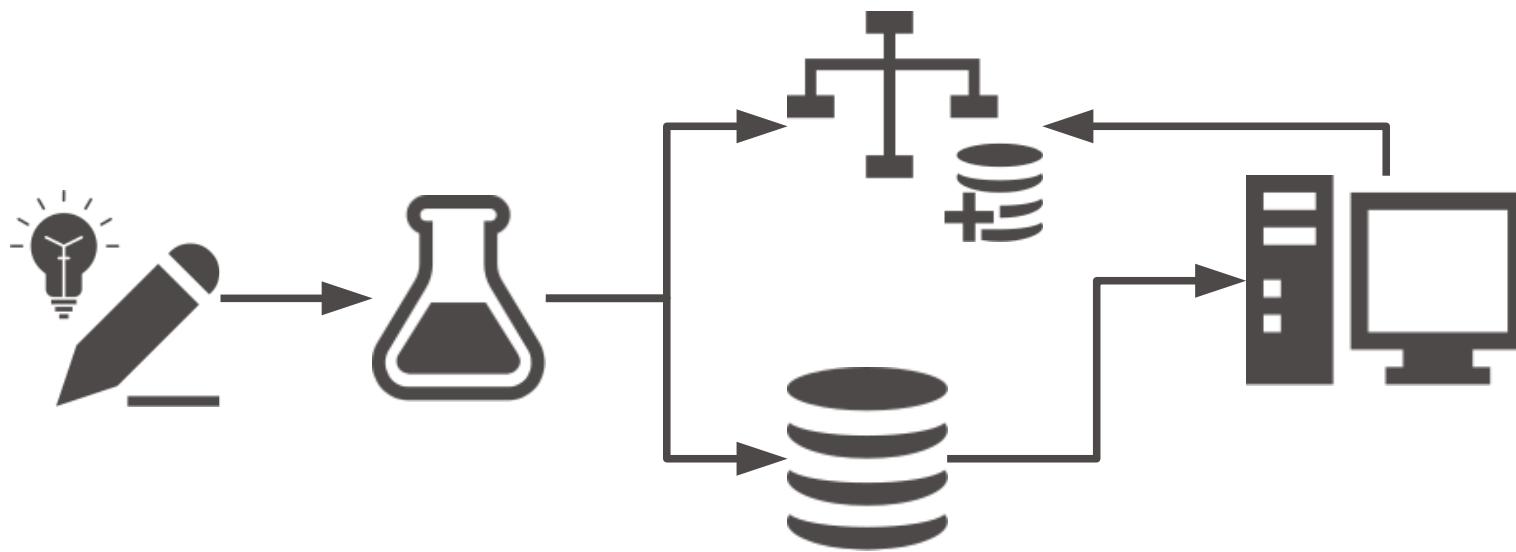


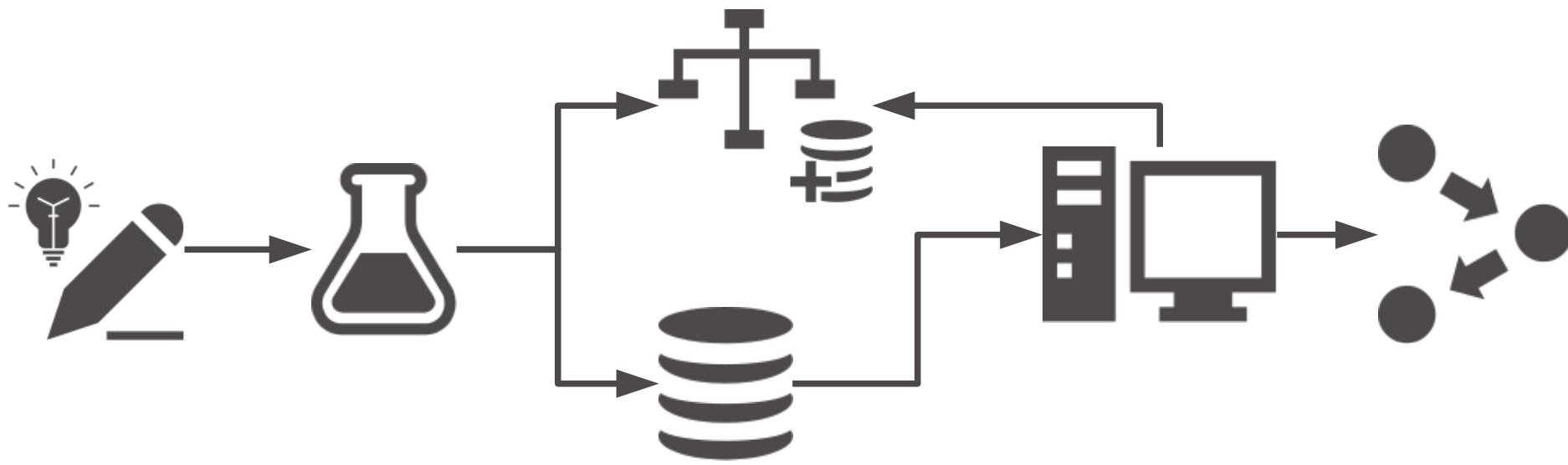


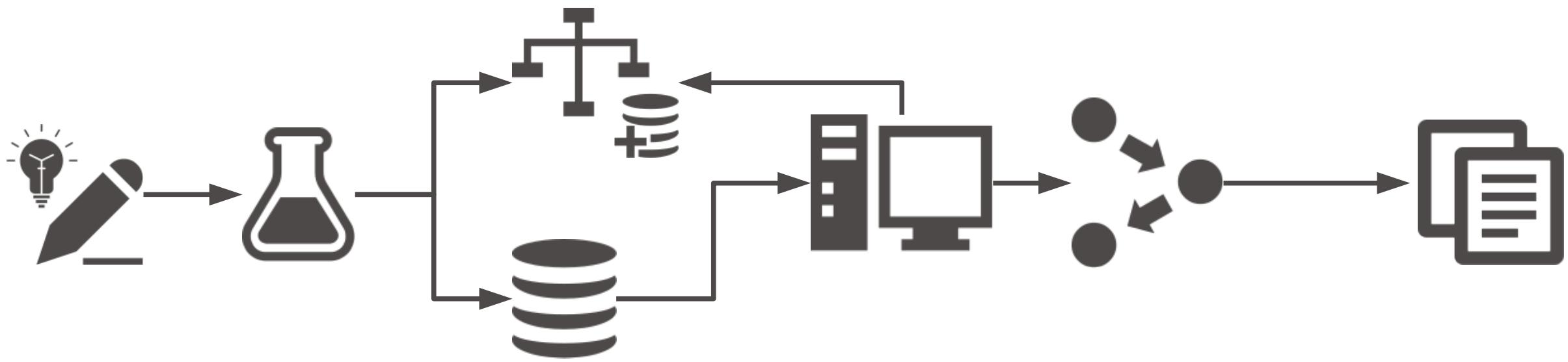


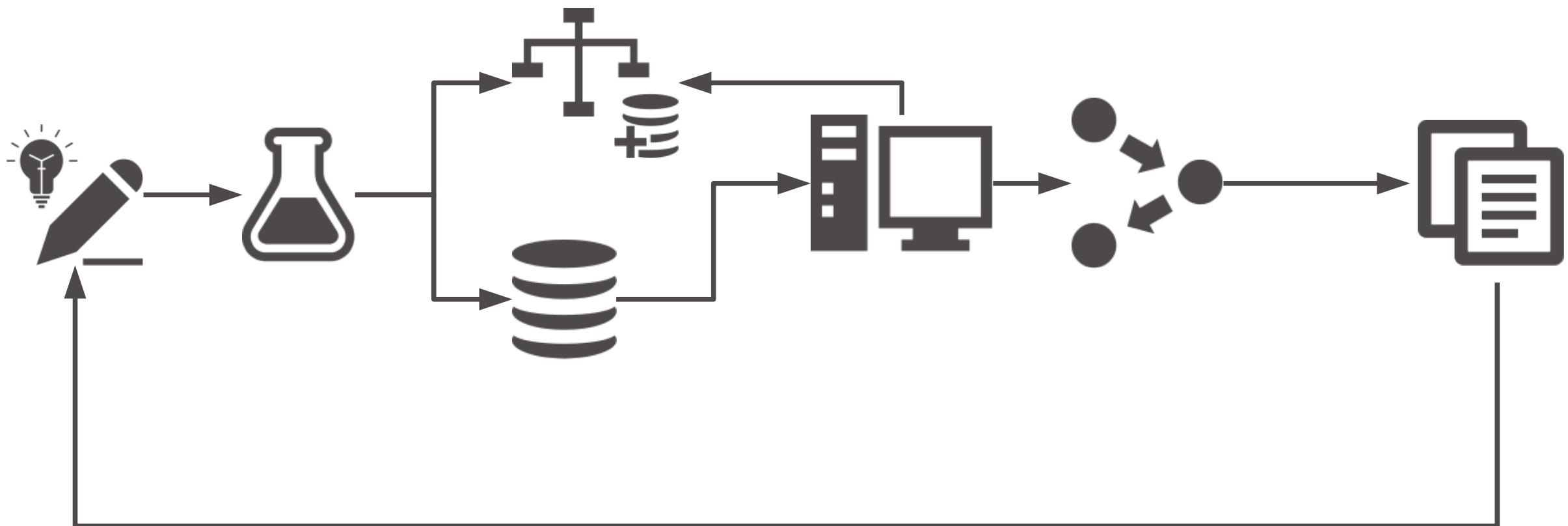


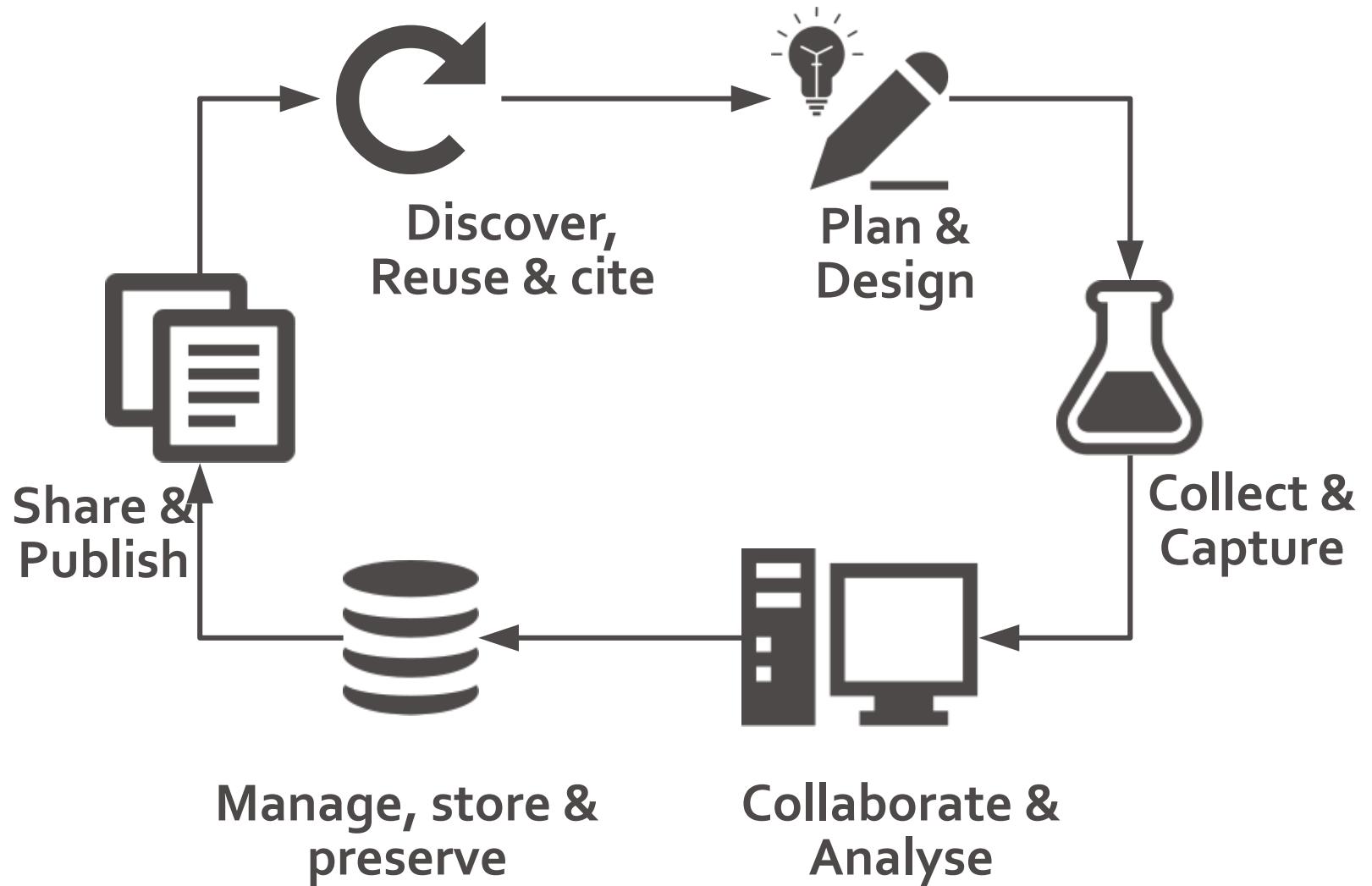


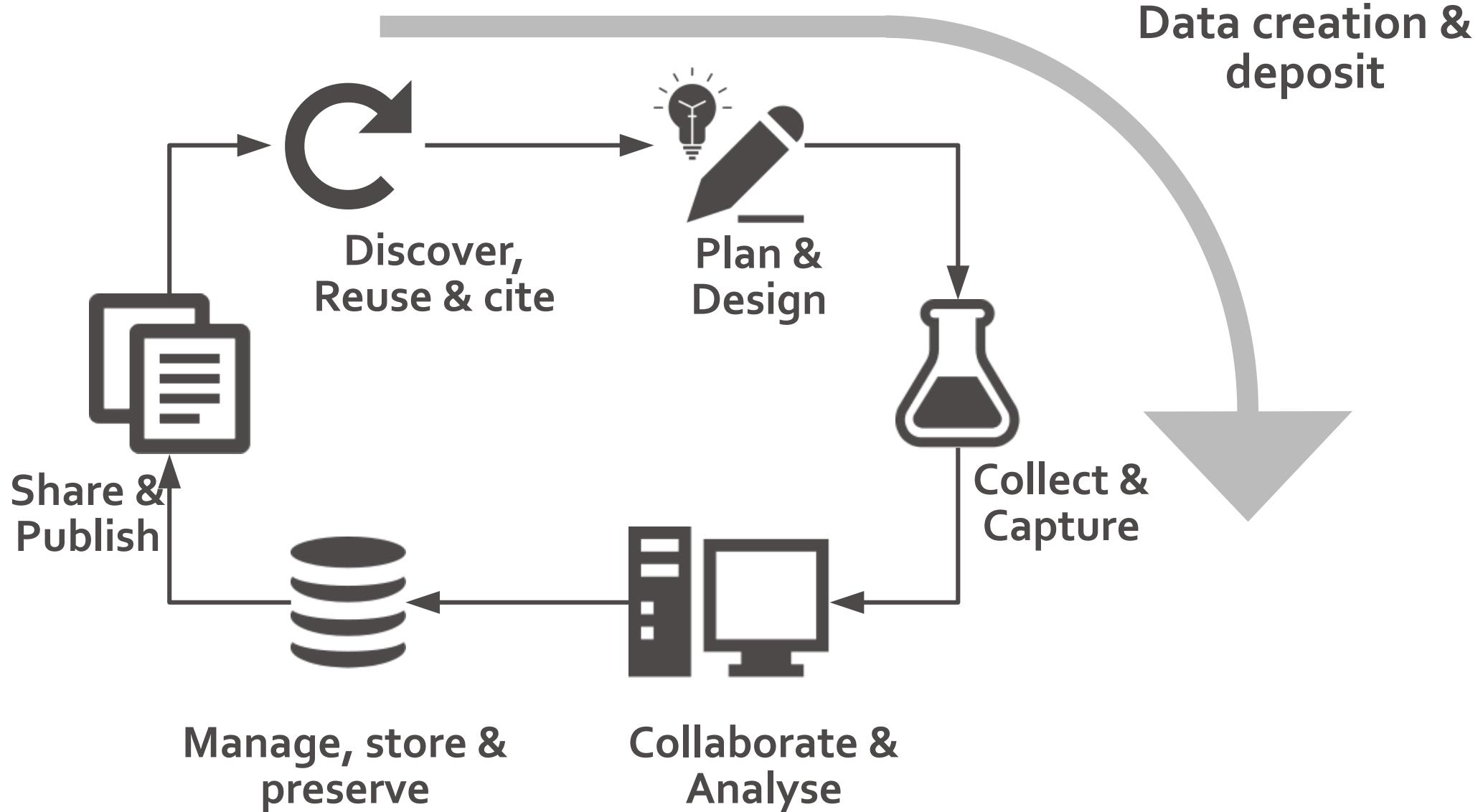


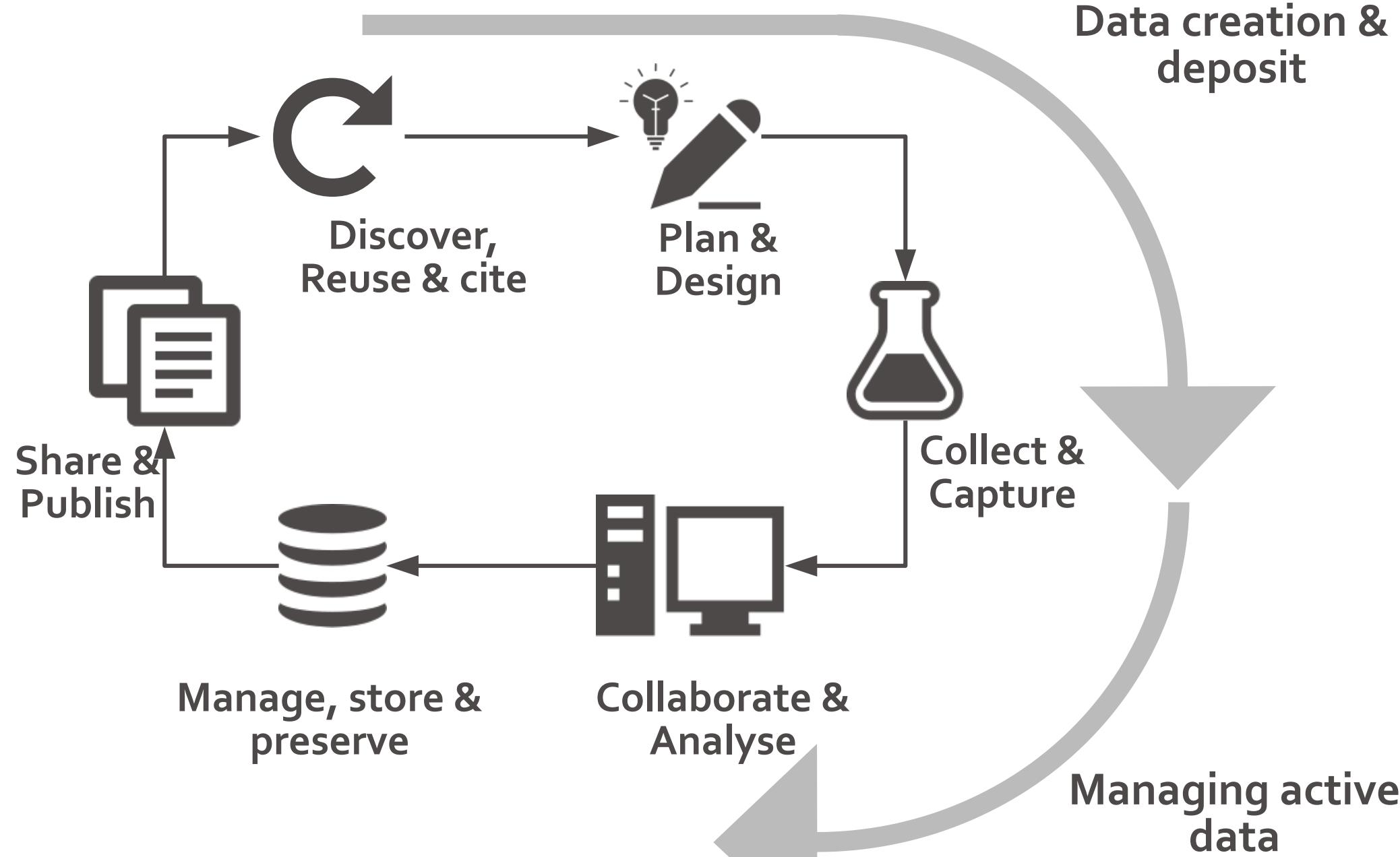


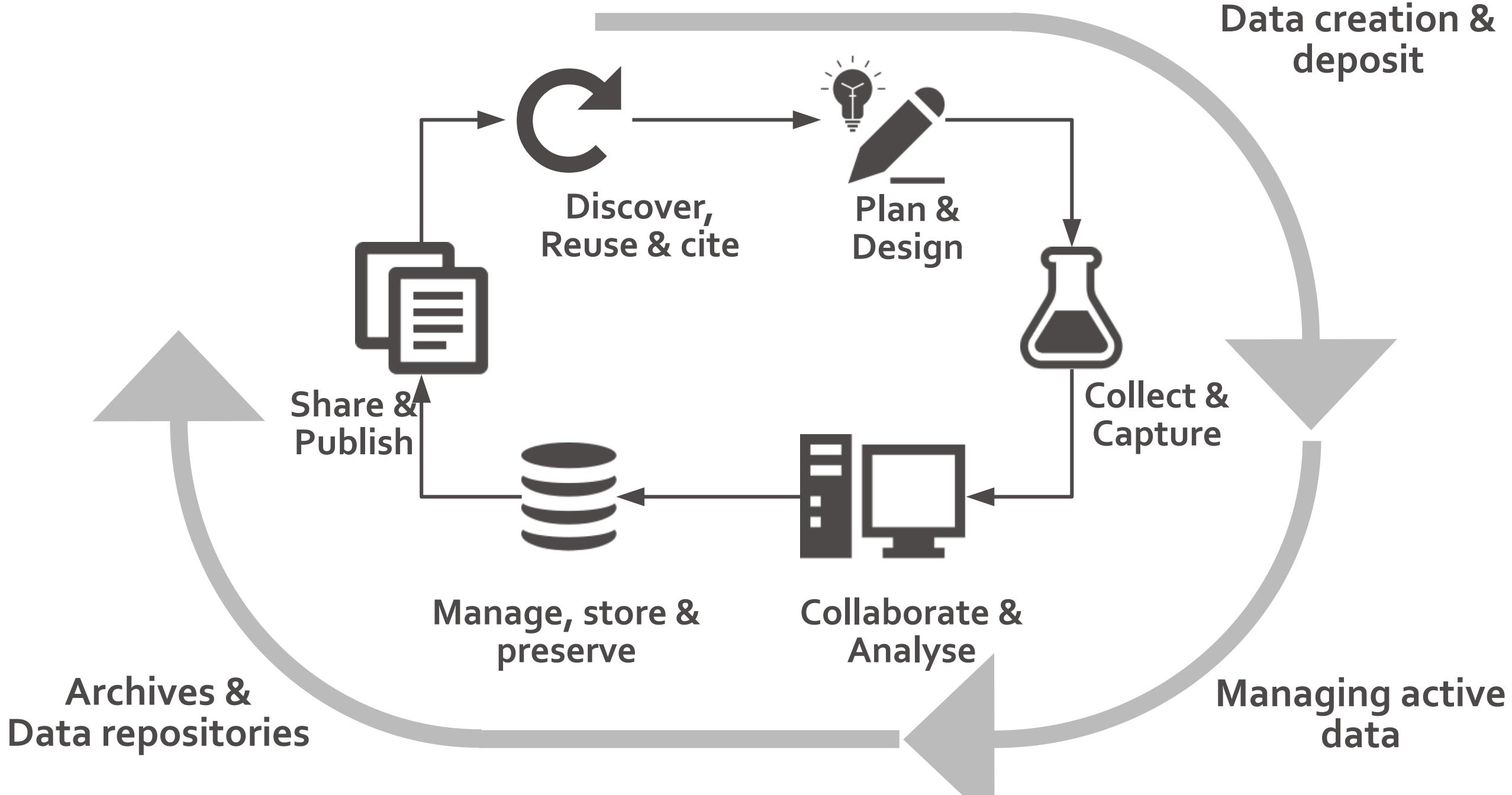


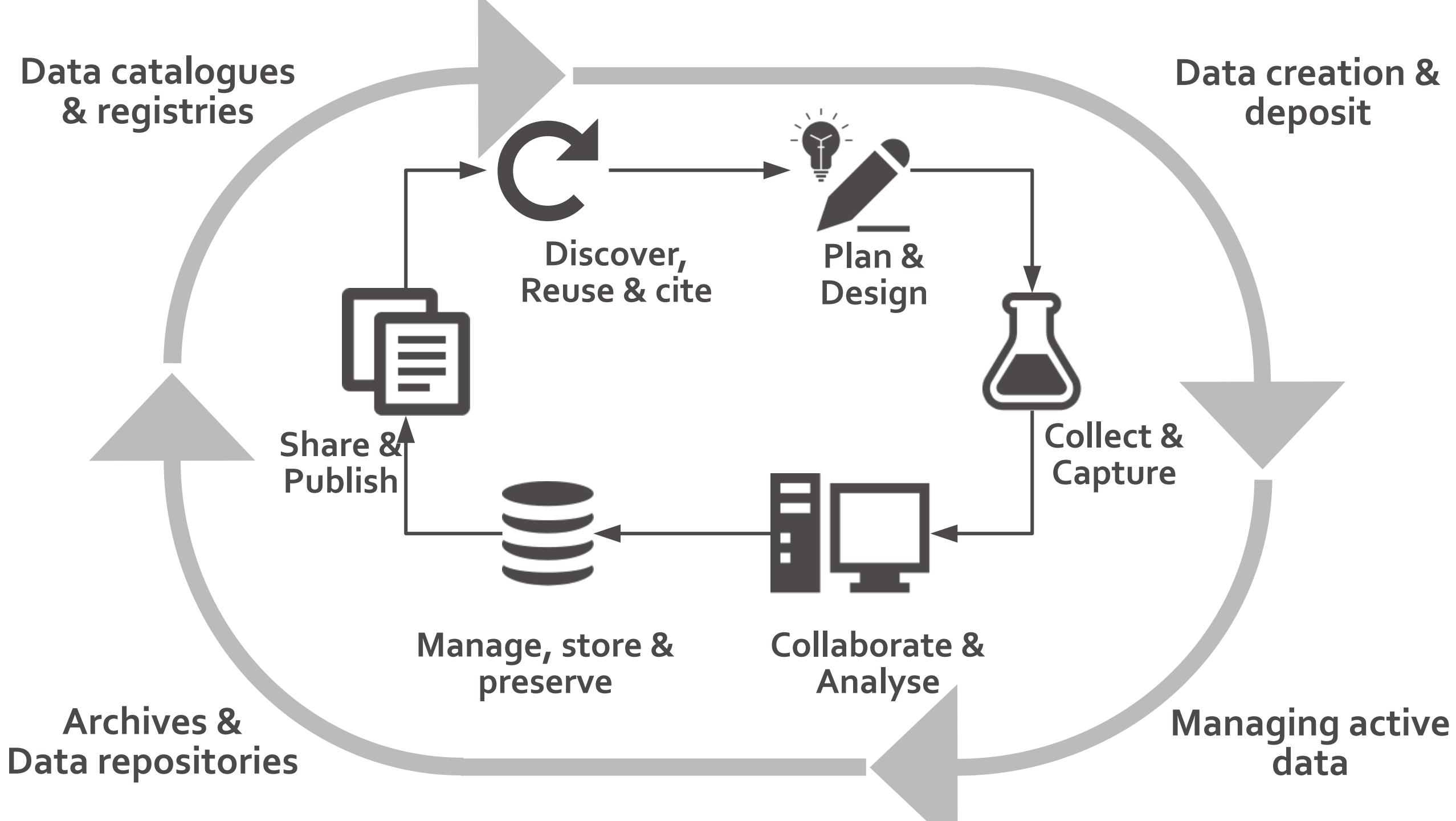


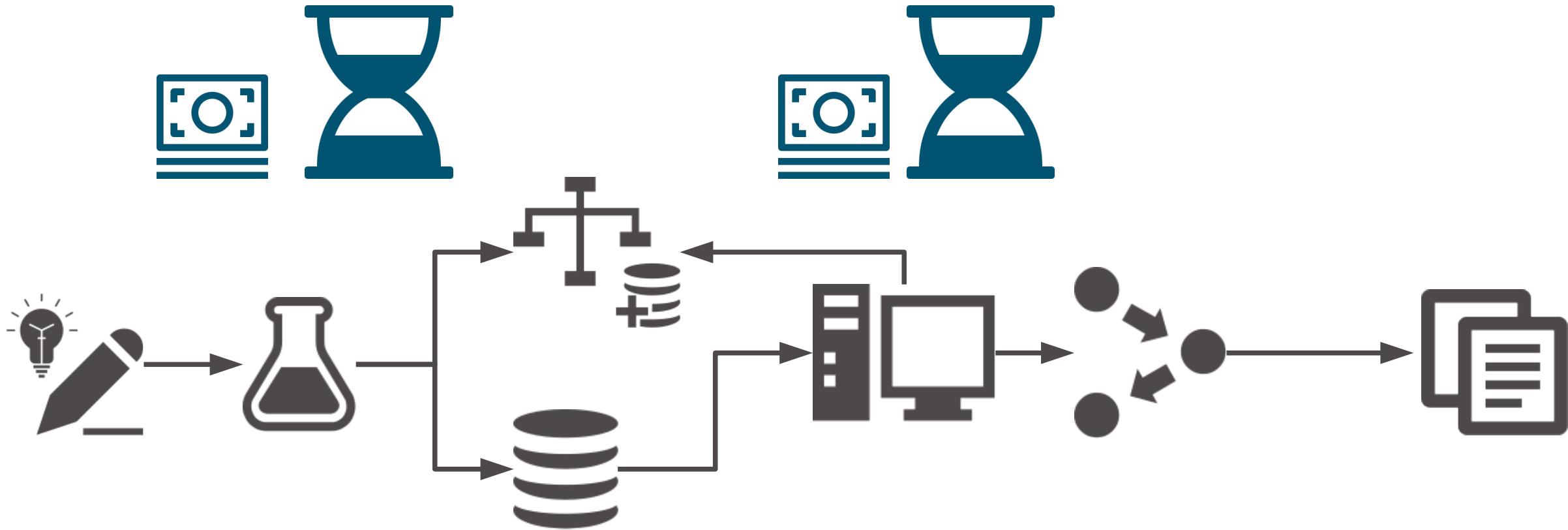


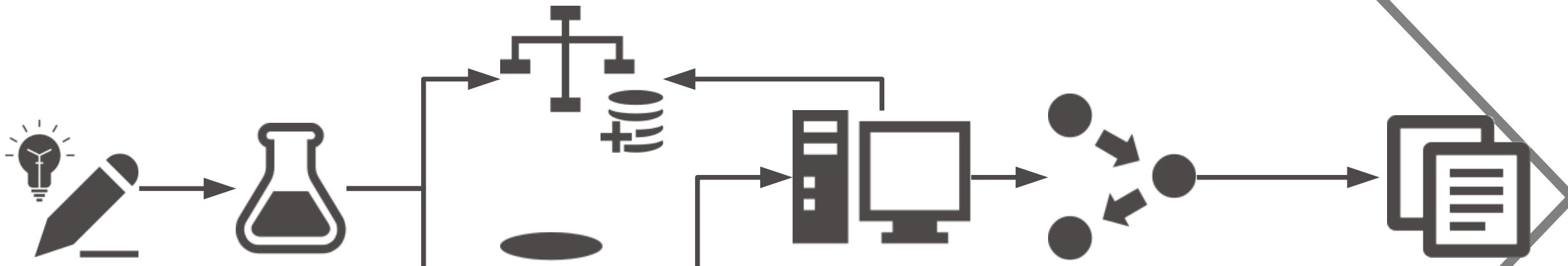


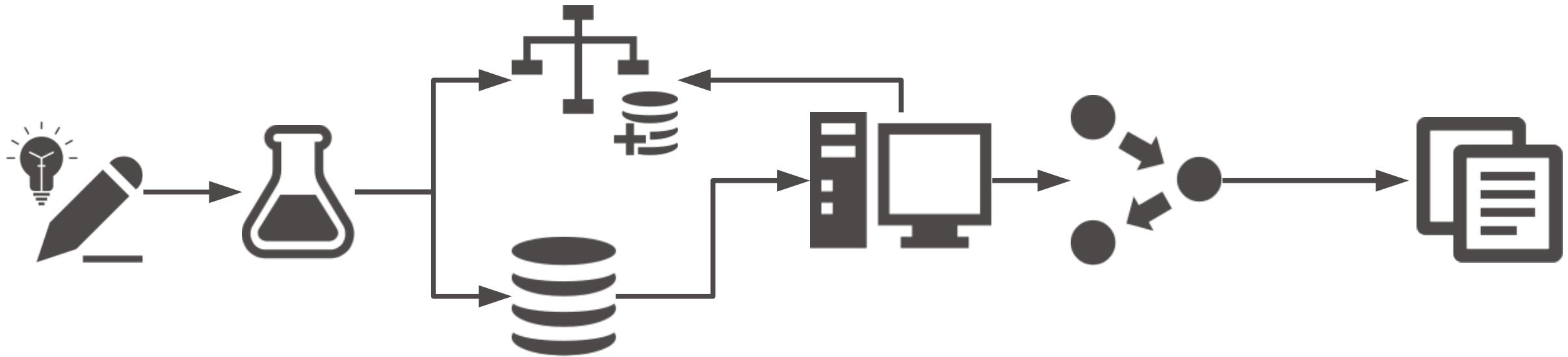








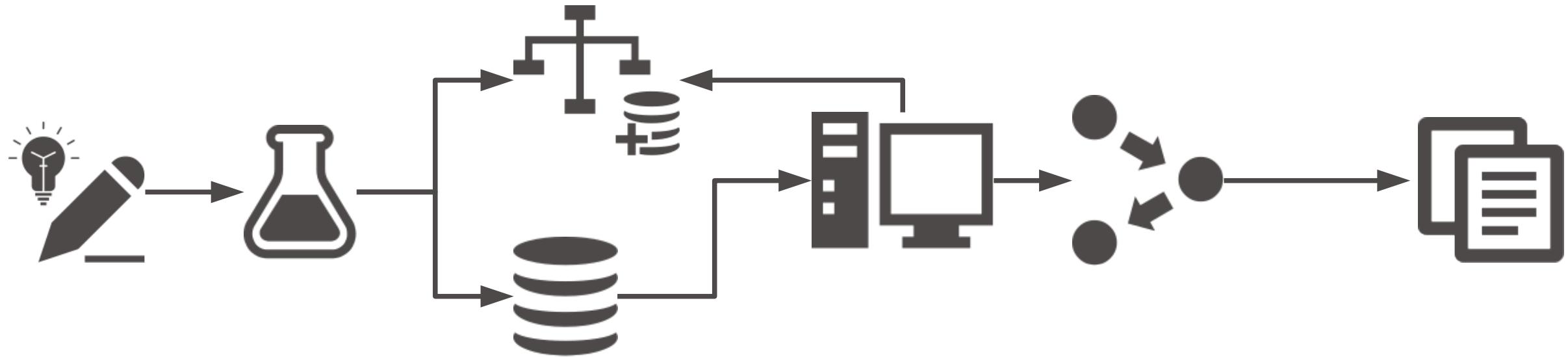






NeLS

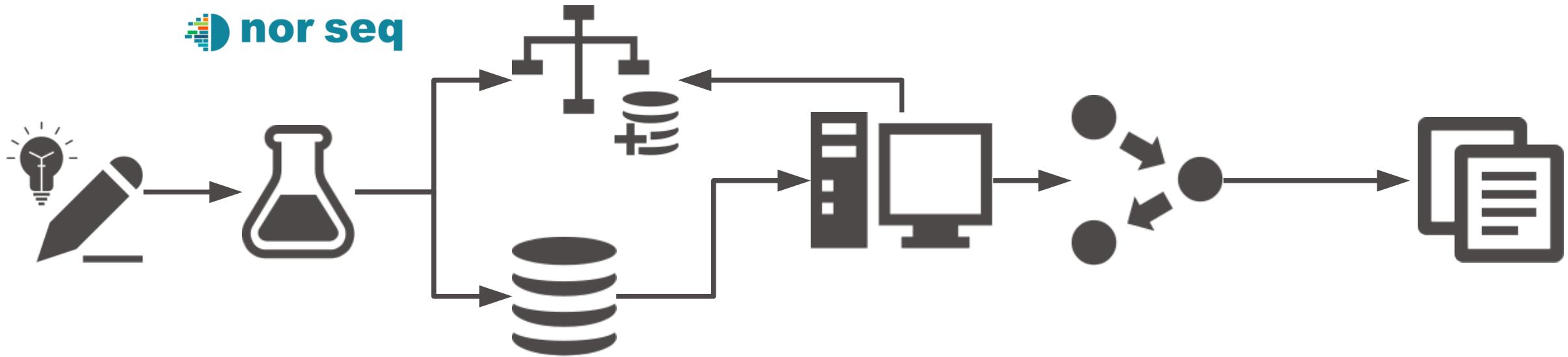
Norwegian e-Infrastructure for Life Sciences





NeLS

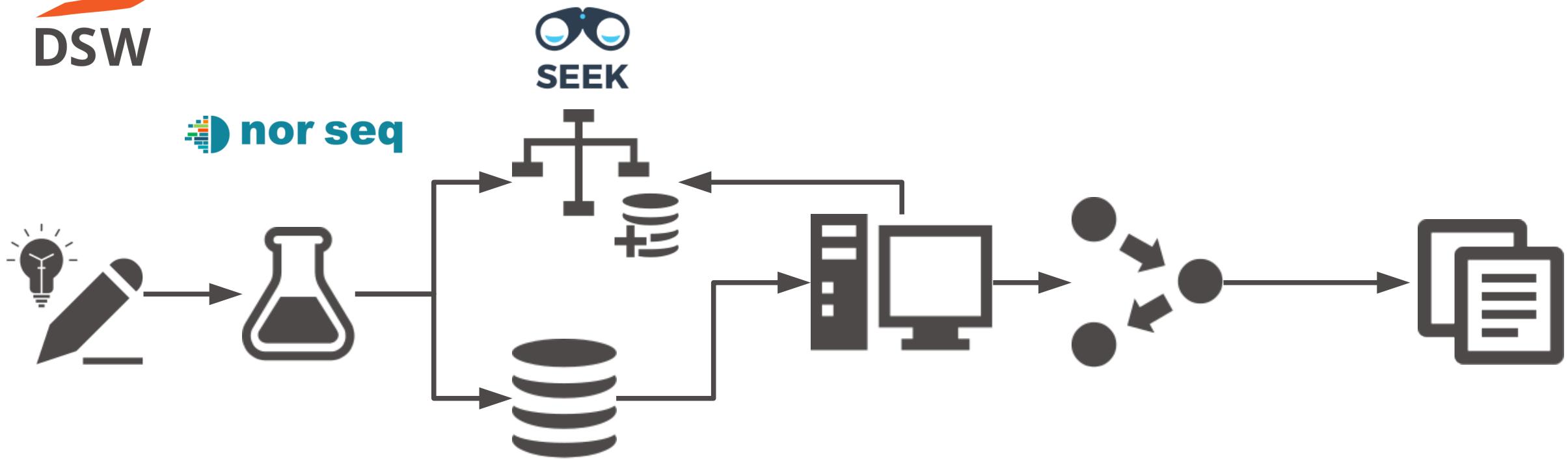
Norwegian e-Infrastructure for Life Sciences





NeLS

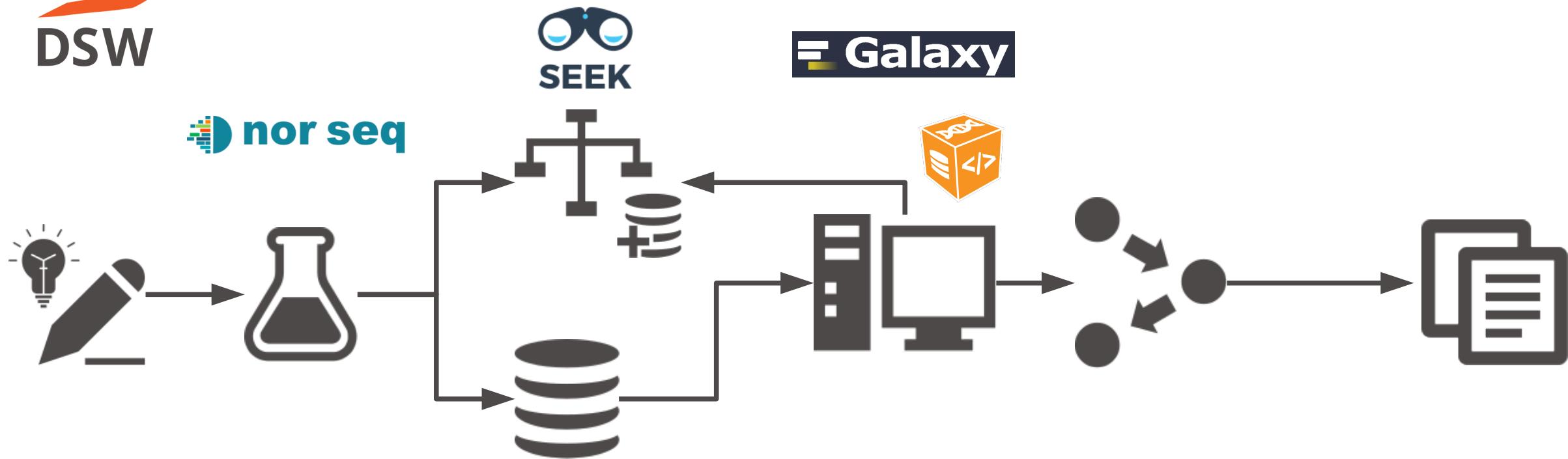
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NeLS

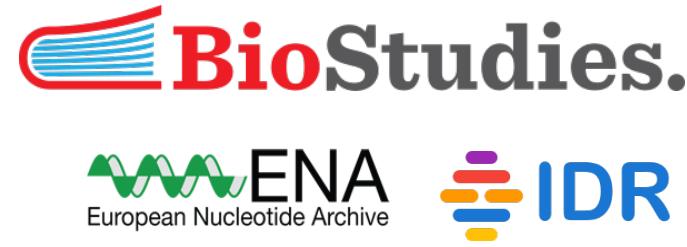
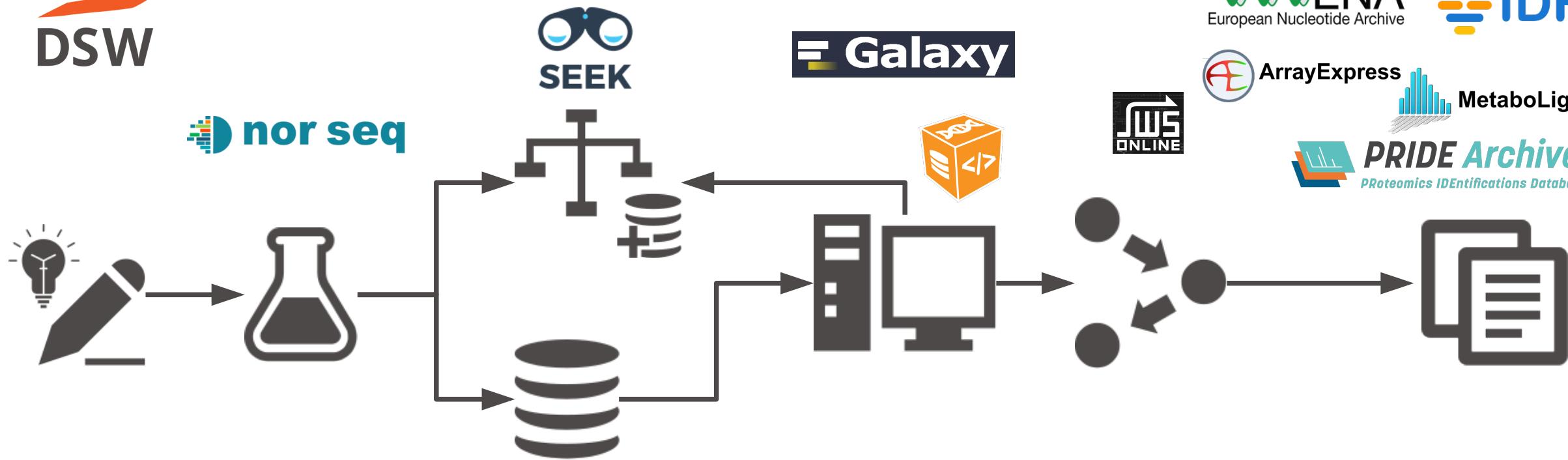
Norwegian e-Infrastructure for Life Sciences





NeLS

Norwegian e-Infrastructure for Life Sciences



ENA
European Nucleotide Archive

IDR

ArrayExpress

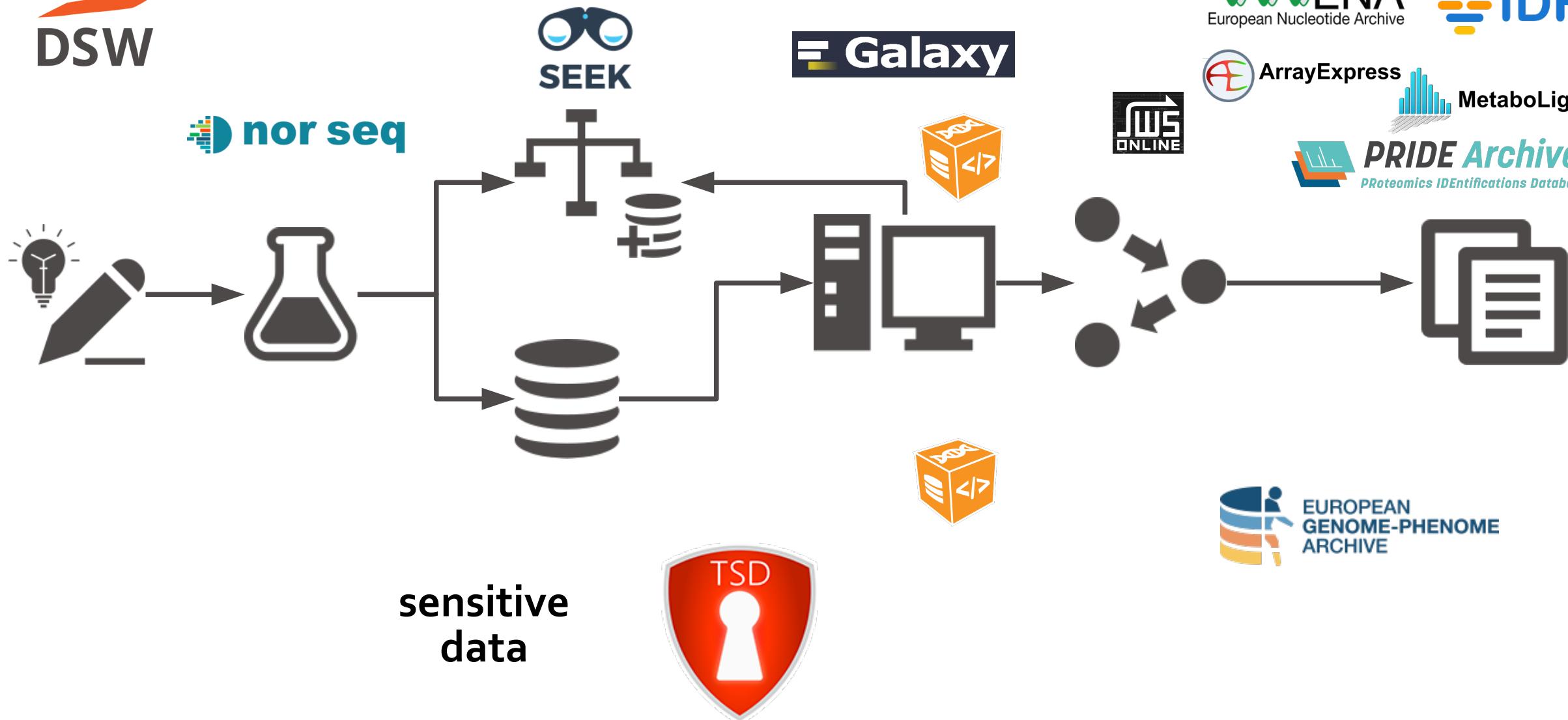
MetaboLights

PRIDE Archive
PRoteomics IDEntifications Database



NeLS

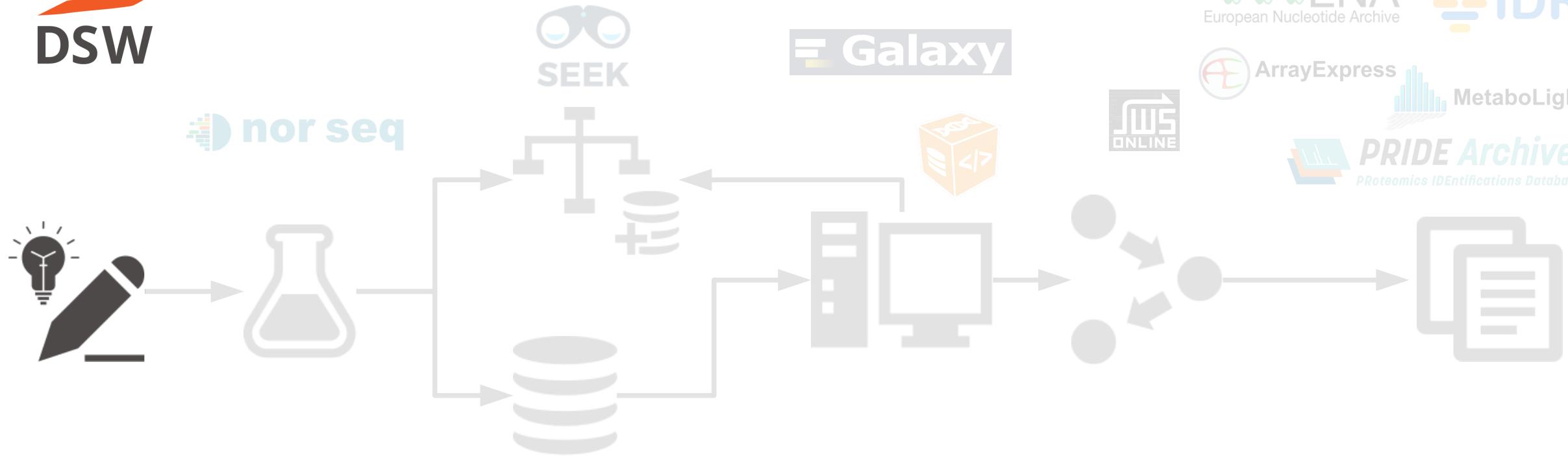
Norwegian e-Infrastructure for Life Sciences





NeLS

Norwegian e-Infrastructure for Life Sciences





Data Management Plan?





NeLS

Norwegian e-Infrastructure for Life Sciences

BioStudies.

ENA
European Nucleotide Archive

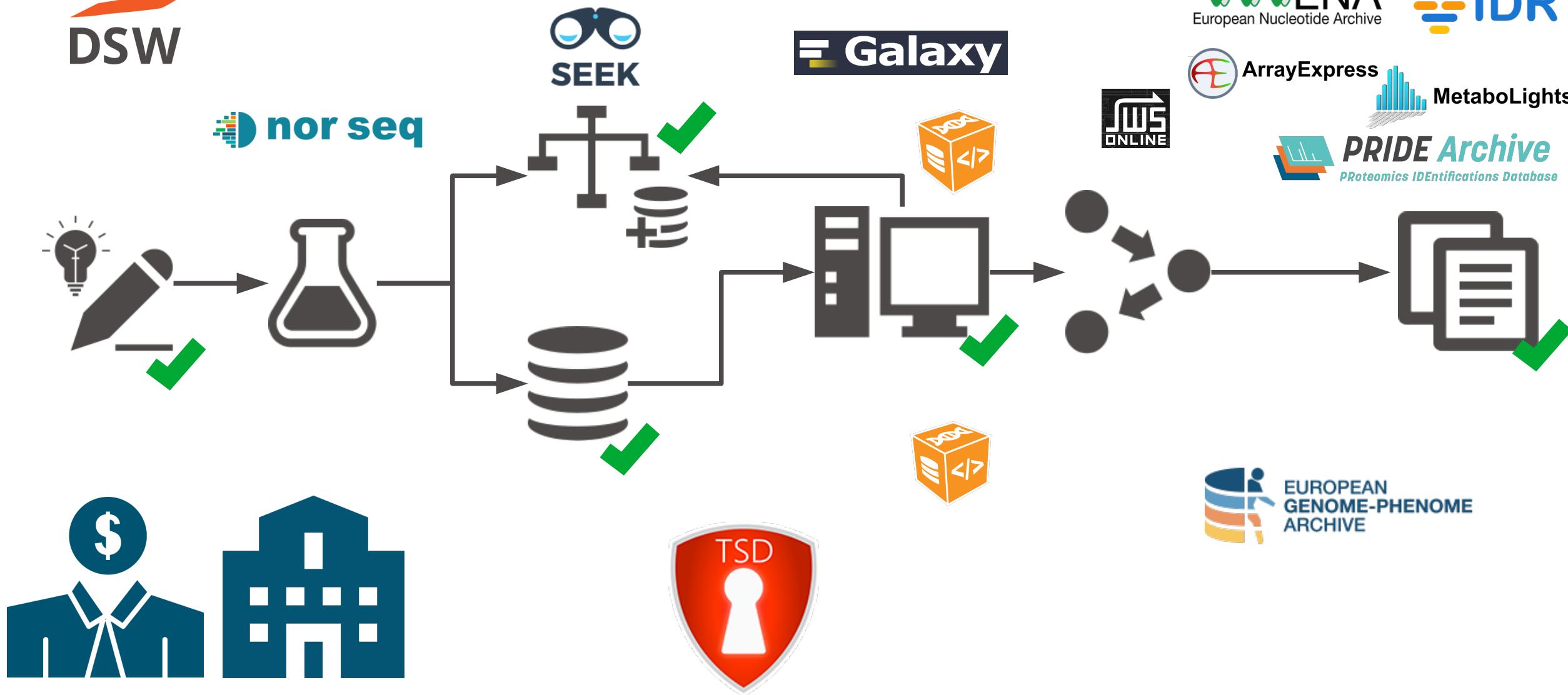
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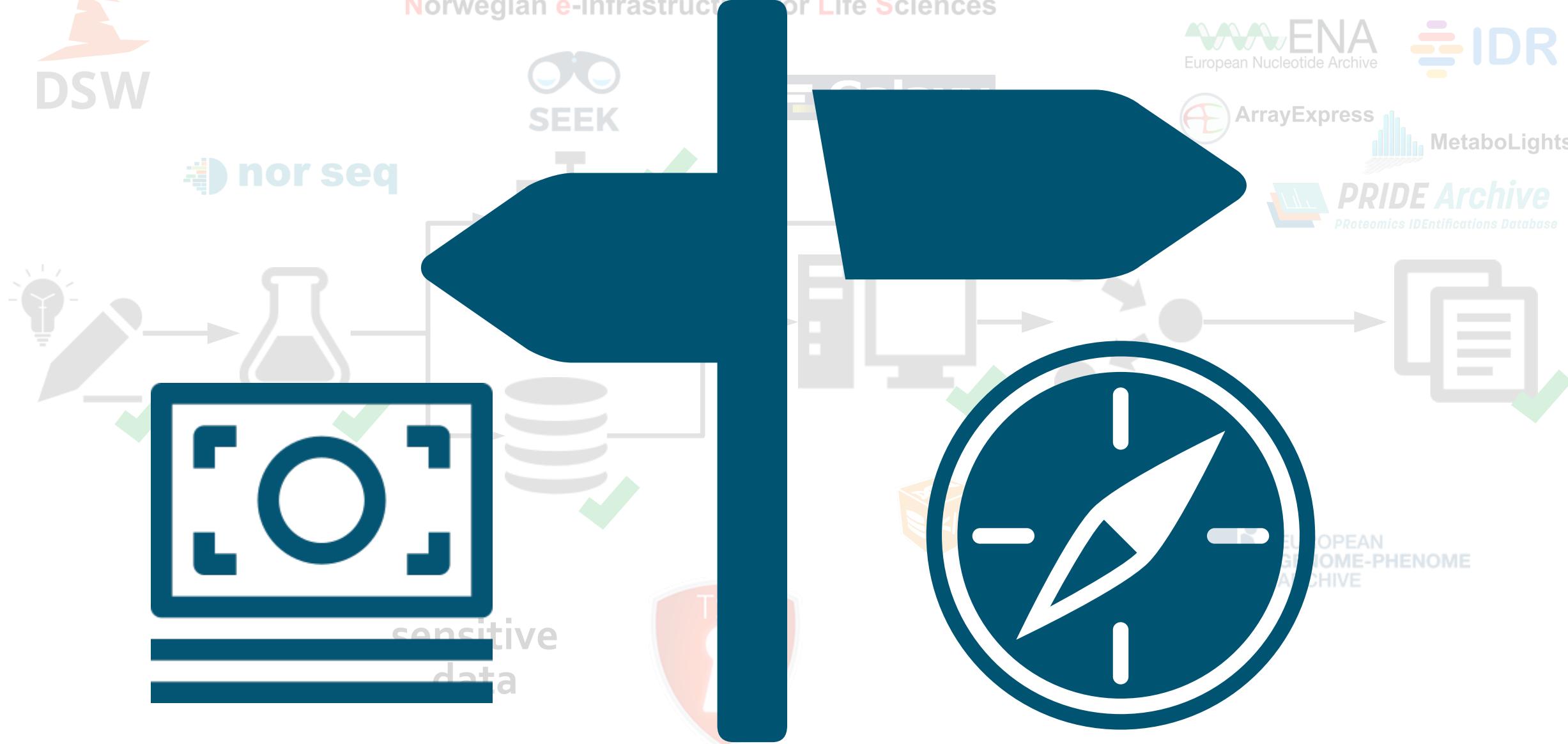
EUROPEAN GENOME-PHENOME ARCHIVE





NeLS

Norwegian e-Infrastructure for Life Sciences





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Horizon 2020
Research Infrastructure
Program



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



UNIVERSITY OF BERGEN



UiT The Arctic University of Norway

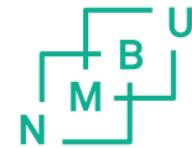


UiO University of Oslo



NTNU

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of Science and Technology



Norwegian University
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