Introduction to Data Management Practices

NBIS DM Team
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https://nbisweden.github.io/workshop-dm-practices/

CC BY

NBIS
NATIONAL BIOINFORMATICS INFRASTRUCTURE SWEDEN

SciLifeLab

Welcome!

Learning outcomes

Take the first steps towards a more systematic and reproducible approach to analysing and managing research data

Feel comfortable enough to start applying some practices and continue learning more

Topics

Metadata

Organisation

Data Management Plans

Cleaning data

FAIR

Open Science

Data publication

Versioning control

Scripting analysis

The Carpentries

https://carpentries.org/

Carpentries Code of Conduct

All participants in our events and communications are expected to show respect and courtesy to others. All interactions should be professional regardless of platform: either online or in-person. In order to foster a positive and professional learning environment we encourage the following kinds of behaviours in all Carpentries events and platforms:

- Use welcoming and inclusive language
- Be respectful of different viewpoints and experiences
- Gracefully accept constructive criticism
- Focus on what is best for the community
- Show courtesy and respect towards other community members

Report violations to the Code of Conduct

https://docs.carpentries.org/topic_folders/policies/code-of-conduct.html

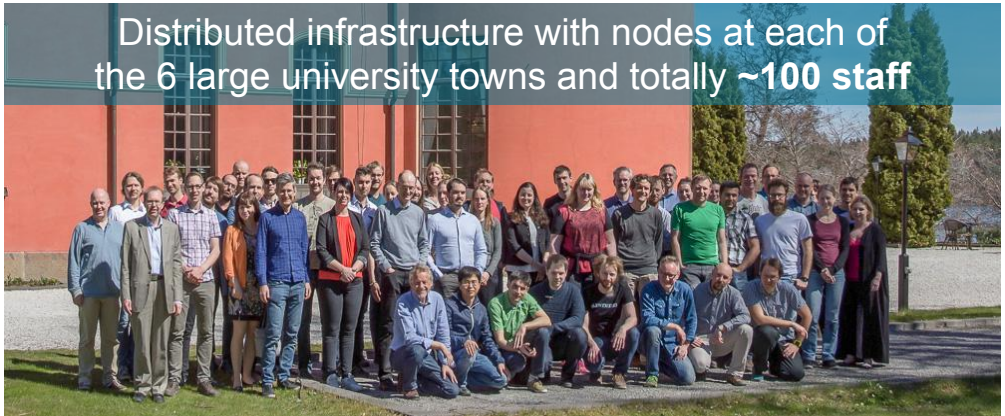
Practicalities

- Pre-workshop survey
- Trainer - Helpers
- Getting attention
  - Chat message to Helpers - Zoom or Slack
- Collaborative notes
  - Common Google document
- Contact channels
  - Course Slack
  - Emergency email - edu.intro-dm@nbis.se
  - Emergency phone - +46 72-999 98 20 (Markus)
- Software - let us know if you still need help!
- End of course
  - Two evaluation forms… (sorry!)

NBIS – SciLifeLab Bioinformatics Platform

Analysis of biological data

- Support
- Infrastructure
- Training



Enable world-class life science research and maximise scientific and societal impact of collected data by:

- Providing expert knowledge, innovative data integration, advanced training, efficient data publication for open science, and access to high-performance data analysis methods
- Coordinating bioinformatics support within Sweden and making bioinformatics easily accessible for life science researchers
- Responding swiftly to changes in support needs as new techniques are developed and utilised
- Forming the Swedish ELIXIR node and participating in relevant international projects

NBIS Data Management team

Markus Englund
Data Steward

Wolmar Nyberg Åkerström
Data Steward

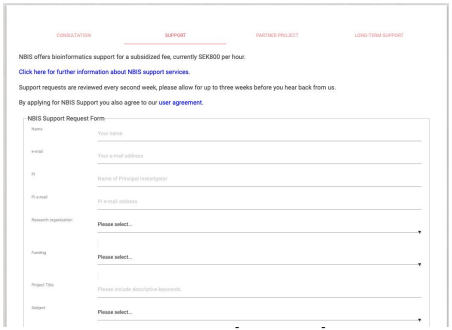
Elin Kronander
Data Steward

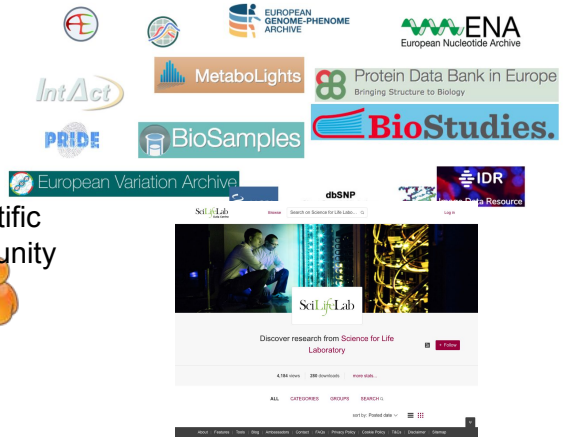
Niclas Jareborg
Data Manager

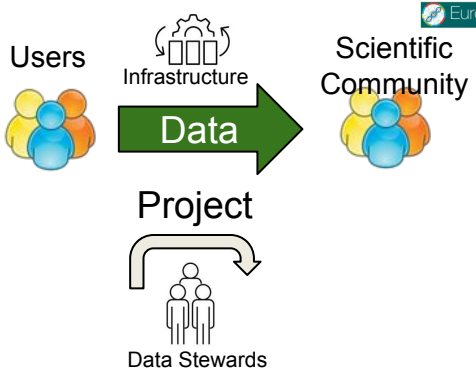
Yvonne Kallberg
Data Steward

ELIXIR-SE/NBIS Data Management

- Support
  - General project DM support
  - Data Management Plans
  - Data publication and submission
- Training
  - Courses
  - Guidelines
- Collaboration
  - SciLifeLab Data Centre
  - ELIXIR
  - Other infrastructures

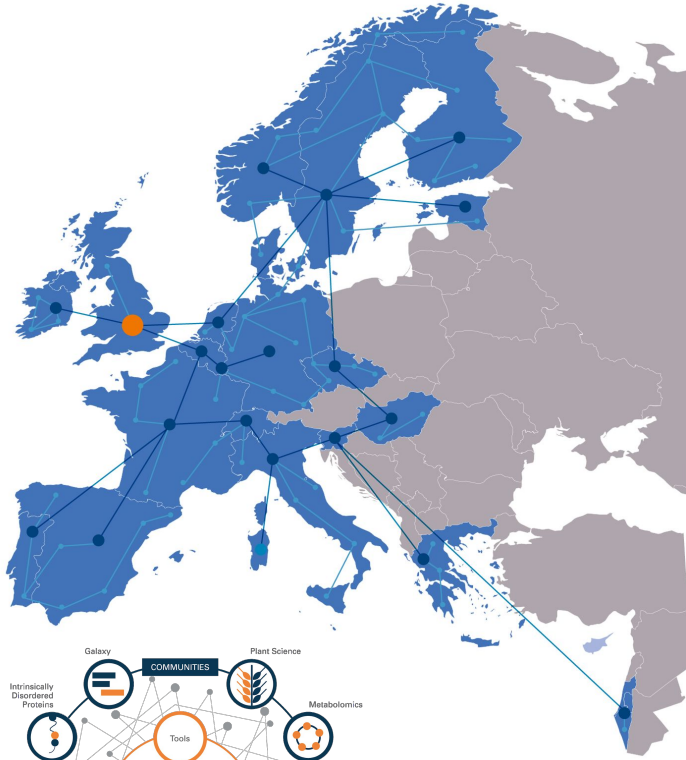
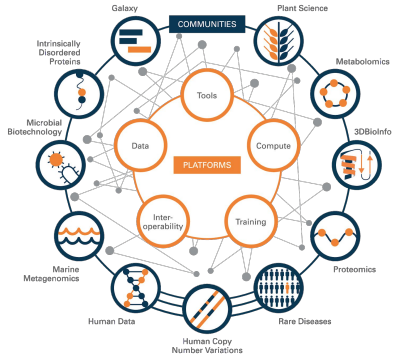






ELIXIR

ELIXIR is an intergovernmental organisation that brings together life science resources such as databases, software tools, training materials, standards and compute resources, from across Europe.

The goal of ELIXIR is to **coordinate life science resources from across Europe so they form a single infrastructure**. This makes it easier for scientists to:

- Find and share data
- Exchange expertise
- Agree on best practices in scientific research