Data strategies for Research Infrastructures

Formal aspects

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Relevant resources

- BMS RIs (2014) Principles of data management and sharing at European Research Infrastructure
  - 10.5281/zenodo.8304

- e-IRG Best practices White Paper (draft)

- BioMedBridges E-infrastructure advisory board: 2nd periodic report on current developments in the ICT e-infrastructures
  - 10.5281/zenodo.14659
Factors: political

- Drivers e.g. from:
  - funding bodies
  - large organisations
  - national interests
Factors: legal/ethical/formal

- Constraints for data storage/transfer/access may include e.g.
  - need to store patient data in country of origin
  - requirements from journal publishers
  - data management plans requirement from funders
  - Etc.
Factors: formal – funding bodies

- European Commission
  - Prioritize the dissemination of data
  - Improved policies on access to and re-use of scientific information and data

- Horizon 2020 Open data pilot:
  - Access to and re-use of research data generated by selected projects
Factors: formal – funding bodies

- Funders in several **EU Member States** (e.g. the UK, NL) have developed policies and requirements for data deposition and sharing.

- **US funding bodies** require data generated with their funding to be made available under certain conditions.
Factors: formal – intellectual property

Four cases (+ combinations):

- Data generated within the BMS RI where the whole or part of the project is funded through the RI (e.g. through collaborative research projects)
- Data generated by a publicly funded research project carried out at the BMS RI and where the project covers the operating costs of the RI
- Data generated by commercial/private entities covering operating costs
- Data generated by Public-Private Partnership consortia
Factors: formal - sensitive data

- Some data may only be shared under certain conditions and with appropriate safekeeping mechanisms in place, e.g.:
  - Data with **Ethical, Legal or Societal Implications** (ELSI), e.g. non-anonymised patient data including personally identifiable information, patient data with specific consent
  - Restrictions for **intellectual property** protection (see previous slide)
  - Specifics of software or data use **licenses**
Factors: formal - sensitive data

- RIs must:
  - guarantee high standards of security and traceability
  - administer data securely while ensuring that their origin is visible and acknowledged
  - Ensure that the necessary legal framework is in place: licenses!
  - Ensure that use of sensitive data is within the given restrictions: informed consent!
Factors: Social

- Data sharing mentality of the community in question
  - how do they do science - e.g. standards, best practices
Proposals for new ESFRI roadmap

○ Questions on “e-infrastructure needs” that need to be addressed for new proposals, including:
  ○ Existence of a data policy
  ○ Existence of a data management plan and funding scheme
  ○ List of e-infrastructure resources and explanation of their provision
  ○ Assessment of RI relation to e-infrastructure commons
  ○ Training plan and target audiences
Your own requirements!