ENVRI-Hub-NEXT

General Ethical Considerations

Core Considerations

- Ethical areas
 - Open Science EOSC and UNESCO commitments
 - Integration of data generation and reuse of data
 - Al and advanced processing reuse and processing
- Design
 - AI (AI will be used in datasets processing);
 - Data (a wide range of research data will be collected and processed, including personal data);
 - Humans (key stakeholder groups are involved in the co-creation of the ENVRI-Hub through coordinated interactions, including surveys, consultations, collection of user feedback, etc.).

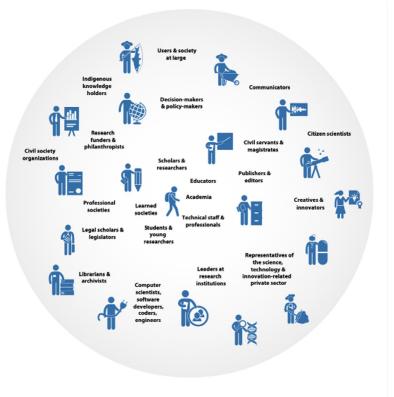
Open Science

- UNESCO Recommendation on Open Science
- Signed in 2021 by all partner states
- "Open science is a set of principles and practices that aim to make scientific research from all fields accessible to everyone for the benefits of scientists and society as a whole. Open science is about making sure not only that scientific knowledge is accessible but also that the production of that knowledge itself is inclusive, equitable and sustainable."



Open Science (2)





es of open science actors. Icons: Gan Khoon Lay, Miroslav Kurdov, Adrien Coquet, Wynne Nafus Sayer, courtesy of The Nour

Integration of Data

- European Code of Conduct for Research Integrity
- Present research goals and intentions in an honest and transparent manner
- Design research carefully and conduct it reliably, taking its impact on society into account
- Use appropriate research techniques and methodologies
- Ensure objectivity, accuracy and impartiality when disseminating the results



Integration of Data and Al

- General Data Protection Regulation
- Rules for how organizations handle personal data and strengthens individuals' control over their data
- Focus on EU citizens, but applies to organisations outside the EU who deal with EU citizen data
- Increasingly aligned with personal data protection acts from non-EU countries

Integration of Data and AI (2)

- (EU) 2021/821
- Dual-use (1): dual-use items are goods, software and technology that can be used for both civilian and military applications
- Dual-use (2): beneficial research that can be misused by third parties for nefarious purposes



Al and Advanced Processing

- Ethics by Design and Ethics of Use Approaches for AI (EC)
- Respect for Human Agency: human beings must be respected to make their own decisions and carry out their own actions. Respect for human agency encapsulates three more specific principles, which define fundamental human rights: autonomy, dignity, and freedom;
- Privacy and Data governance: people have the right to privacy and data protection, and these should be respected at all times;
- Fairness: people should be given equal rights and opportunities and should not be advantaged or disadvantaged undeservedly;
- Individual, Social and Environmental Well-being: Al systems should contribute to, and not harm, individual, social, and environmental well-being;
- Transparency: the purpose, inputs and operations of AI programs should be knowable and understandable to its stakeholders;
- Accountability and Oversight: humans should be able to understand, supervise and control the
 design and operation of AI-based systems, and the actors involved in their development or operation
 should take responsibility for the way that these applications function and for the resulting
 consequences.