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FAIRsFAIR Open Consultation: FAIR Data Policies and Practices

Want research in Europe to be more FAIR? Your views count! Please complete one or all of our surveys! *FAIRsFAIR Open Consultation* is open - check the deadlines.

FAIRsFAIR is looking to assess the skills, practices, services and policies required to make research data Findable, Accessible, Interoperable and Reusable.

HELP US IDENTIFY GOOD PRACTICE AND MIND THE GAPS!

If you support research data management or provide related services we'd like to hear from you. Your opinions will inform decision-making around FAIR governance in the European Science Cloud and we'll help you implement them in your organisation.

There are **three surveys available and each requires around 15-20 minutes of your time**. Feel free to complete either or all of them!

SURVEY 1: FAIR POLICIES AND PRACTICES - deadline 27th September 2019

The purpose of this survey is to assess:

- The different levels of maturity with regards to FAIR practices among disciplines.
- The range of policies that influence the way that researchers work.
- The sources of support currently available to researchers.

We seek input from a wide range of research support roles including repository managers, research data managers, policy makers, service providers, and data stewards.

SURVEY 2: SEMANTICS AND INTEROPERABILITY - deadline 27th September 2019

This survey is targeted at those in technical service support roles such as data scientists, data stewards, architects, and developers. We'd like to know which formats, semantic

artefacts, identifiers and software practices you see in the scientific community you work with.

SURVEY 3: *NEW!* RESEARCH DATA AND FAIR DATA PRINCIPLES - deadline 31st October 2019

The European Universities Association (EUA), as part of the FAIRsFAIR project, has launched a survey, specifically aimed at the state of FAIR data at universities and higher education institutions, and focused on the availability and emergence of educational programmes relating to the FAIR principles.
This survey is targeted at university leadership or management staff, responsible for the development and implementation of research data management policies and plans. Universities that do not yet have such a plan are also encouraged to participate in the sections relevant to them.

The purpose of this survey is to address the following dimensions of research data management and the FAIR principles at higher education institutions:

- the state and nature of institutional policies and support services for research data management;
- the awareness of the FAIR principles for research data within universities;
- the teaching of research data competences to students and researchers;
- the level of awareness of and views on the European Open Science Cloud (EOSC).

The anonymised survey data will be made available from a trusted repository for reuse and the links will also be provided here. FAIRsFAIR has been working in cooperation with several related initiatives including the EOSC 5B projects, the Group of European Data Experts in RDA (GEDE) the EOSC FAIR Working Group to avoid duplication of effort in our information collection.

The deadline of the surveys n.1 and n.2 is Friday, ~~20th of September 2019~~ 27th of September 2019 (new deadline)
The deadline of the surveys n.3 is Thursday, 31st of October 2019
Thank you for your time! If you could pass this link on to a colleague we'd be most appreciative!

Questionnaire

A. Background Information

A.1 Which research communities do you support or work with?

- ENERGY
- ENVIRONMENT
- HEALTH & FOOD/ LIFE SCIENCES
- PHYSICAL SCIENCES & ENGINEERING
- SOCIAL SCIENCES
- HUMANITIES
- COMPUTING & RESEARCH INFRASTRUCTURES
- 101-01 Prehistory
- 101-02 Classical Philology
- 101-03 Ancient History
- 101-04 Classical Archaeology
- 101-05 Egyptology and Ancient Near Eastern Studies
- 102-01 Medieval History
- 102-02 Early Modern History
- 102-03 Modern and Current History
- 102-04 History of Science
- 103-01 Art History
- 103-02 Musicology
- 103-03 Theatre and Media Studies
- 104-01 General and Comparative Linguistics, Typology, Non-European Languages
- 104-02 Individual Linguistics
- 104-03 Historical Linguistics
- 104-04 Applied Linguistics, Experimental Linguistics, Computational Linguistics
- 105-01 Medieval German Literature
- 105-02 Modern German Literature
- 105-03 European and American Literature
- 105-04 General and Comparative Literature and Cultural Studies
- 106-01 Social and Cultural Anthropology and Ethnology
- 106-02 Asian Studies
- 106-03 African, American and Oceania Studies
- 106-04 Islamic Studies, Arabian Studies, Semitic Studies
- 106-05 Religious Studies and Jewish Studies
- 107-01 Protestant Theology
- 107-02 Roman Catholic Theology
- 108-01 History of Philosophy
- 108-02 Theoretical Philosophy
- 108-03 Practical Philosophy
- 109-01 General Education and History of Education
- 109-02 General and Domain-Specific Teaching and Learning
- 109-03 Education Systems and Educational Institutions
- 109-04 Educational Research on Socialization, Welfare and Organisations
- 110-01 General, Biological and Mathematical Psychology

- 110-02 Developmental and Educational Psychology
- 110-03 Social Psychology, Industrial and Organisational Psychology
- 110-04 Differential Psychology, Clinical Psychology, Medical Psychology, Methodology
- 111-01 Sociological Theory
- 111-02 Empirical Social Research
- 111-03 Communication Sciences
- 111-04 Political Science
- 112-01 Economic Theory
- 112-02 Economic Policy and Public Finance
- 112-03 Business Administration
- 112-04 Statistics and Econometrics
- 112-05 Economic and Social History
- 113-01 Principles of Law and Jurisprudence
- 113-02 Private Law
- 113-03 Public Law
- 113-04 Criminal Law and Law of Criminal Procedure
- 113-05 Criminology
- 201-01 Biochemistry
- 201-02 Biophysics
- 201-03 Cell Biology
- 201-04 Structural Biology
- 201-05 General Genetics
- 201-06 Developmental Biology
- 201-07 Bioinformatics and Theoretical Biology
- 201-08 Anatomy
- 202-01 Evolution and Systematics of Plants and Fungi
- 202-02 Plant Ecology and Ecosystem Analysis
- 202-04 Plant Physiology
- 202-05 Plant Biochemistry and Biophysics
- 202-06 Plant Cell and Developmental Biology
- 202-07 Plant Genetics 203-01 Special Zoology and Morphology
- 203-02 Evolution, Anthropology
- 203-03 Animal Ecology, Biodiversity and Ecosystem Research
- 203-04 Sensory and Behavioural Biology
- 203-05 Animal Physiology and Biochemistry
- 203-06 Evolutionary Cell and Developmental Biology (Zoology)
- 204-01 Metabolism, Biochemistry and Genetics of Microorganisms
- 204-02 Microbial Ecology and Applied Microbiology
- 204-03 Medical Microbiology, Parasitology, Medical Mycology and Hygiene, Molecular Infection Biology
- 204-04 Virology
- 204-05 Immunology
- 205-01 Epidemiology, Medical Biometry, Medical Informatics
- 205-02 Public Health, Health Services Research, Social Medicine
- 205-03 Human Genetics
- 205-04 Physiology
- 205-05 Nutritional Sciences
- 205-06 Pathology
- 205-07 Clinical Chemistry and Pathobiochemistry
- 205-08 Pharmacy

- 205-09 Pharmacology
- 205-10 Toxicology, Occupational Medicine and Forensic Medicine
- 205-11 Anaesthesiology
- 205-12 Cardiology, Angiology
- 205-13 Pneumology, Clinical Infectiology
- 205-14 Hematology, Oncology, Transfusion Medicine
- 205-15 Gastroenterology, Metabolism
- 205-16 Nephrology
- 205-17 Endocrinology, Diabetology
- 205-18 Rheumatology, Clinical Immunology, Allergology
- 205-19 Dermatology
- 205-20 Pediatric and Adolescent Medicine
- 205-21 Gynaecology and Obstetrics
- 205-22 Reproductive Medicine/Biology
- 205-23 Urology
- 205-24 Biogerontology and Geriatric Medicine
- 205-25 General and Visceral Surgery
- 205-26 Cardiothoracic and Vascular Surgery
- 205-27 Traumatology and Orthopaedics
- 205-28 Dentistry, Oral Surgery 2
- 05-29 Otolaryngology
- 205-30 Radiology and Nuclear Medicine
- 205-31 Radiation Oncology and Radiobiology
- 205-32 Biomedical Technology and Medical Physics
- 206-01 Molecular Neuroscience and Neurogenetics
- 206-02 Cellular Neuroscience
- 206-03 Developmental Neurobiology
- 206-04 Systemic Neuroscience, Computational Neuroscience, Behaviour
- 206-05 Organismic Neurobiology
- 206-06 Cognitive Neuroscience
- 206-07 Molecular and Cellular Neurology, Neuropathology
- 206-08 Clinical Neurosciences
- 206-09 Biological and Molecular Psychiatry
- 206-10 Clinical Neurosciences II - Psychiatry, Psychotherapy, Child and Adolescent Psychiatry
- 206-11 Clinical Neurosciences III - Ophthalmology
- 207-01 Soil Sciences
- 207-02 Plant Cultivation and Agricultural Technology
- 207-03 Plant Nutrition
- 207-04 Ecology of Agricultural Landscapes
- 207-05 Plant Breeding
- 207-06 Phytomedicine
- 207-07 Agricultural Economics and Sociology
- 207-08 Forestry
- 207-09 Animal Husbandry, Breeding and Hygiene
- 207-10 Animal Nutrition and Nutrition Physiology
- 207-11 Basic Veterinary Medical Science
- 207-12 Basic Research on Pathogenesis, Diagnostics and Therapy and Clinical Veterinary Medicine Subject Area
- 301-01 Inorganic Molecular Chemistry
- 301-02 Organic Molecular Chemistry

- 302-01 Solid State and Surface Chemistry, Material Synthesis
- 302-02 Physical Chemistry of Solids and Surfaces, Material Characterisation
- 302-03 Theory and Modelling
- 303-01 Physical Chemistry of Molecules, Interfaces and Liquids - Spectroscopy, Kinetics
- 303-02 General Theoretical Chemistry
- 304-01 Analytical Chemistry, Method Development (Chemistry)
- 304 Analytical Chemistry, Method Development (Chemistry)
- 305-01 Biological and Biomimetic Chemistry
- 305-02 Food Chemistry
- 306-01 Preparatory and Physical Chemistry of Polymers
- 306-02 Experimental and Theoretical Physics of Polymers
- 306-03 Polymer Materials
- 307-01 Experimental Condensed Matter Physics
- 307-02 Theoretical Condensed Matter Physics
- 308-01 Optics, Quantum Optics, Atoms, Molecules, Plasmas
- 308 Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas
- 309-01 Nuclear and Elementary Particle Physics, Quantum Mechanics, Relativity, Fields
- 310-01 Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics
- 312-01 Mathematics
- 313-01 Atmospheric Science
- 313-02 Oceanography
- 314-01 Geology and Palaeontology
- 315-01 Geophysics
- 315-02 Geodesy, Photogrammetry, Remote Sensing, Geoinformatics, Cartography
- 316-01 Geochemistry, Mineralogy and Crystallography
- 317-01 Physical Geography
- 317-02 Human Geography
- 318-01 Hydrogeology, Hydrology, Limnology, Urban Water Management, Water Chemistry, Integrated Water Resources Management
- 401-01 Metal-Cutting Manufacturing Engineering
- 401-02 Primary Shaping and Reshaping Technology
- 401-03 Joining, Mounting and Separation Technology
- 401-04 Plastics Engineering
- 401-05 Production Management and Operations Management
- 401-06 Machine Tools and Production Automation
- 402-01 Engineering Design, Machine Elements, Product Development
- 402-02 Mechanics
- 402-03 Lightweight Construction, Textile Technology
- 402-04 Acoustics
- 403-01 Chemical and Thermal Process Engineering
- 403-02 Technical Chemistry 403-03 Mechanical Process Engineering
- 403-04 Biological Process Engineering
- 404-01 Energy Process Engineering
- 404-02 Technical Thermodynamics
- 404-03 Fluid Mechanics
- 404-04 Hydraulic and Turbo Engines and Piston Engines
- 405-01 Metallurgical and Thermal Processes, Thermomechanical Treatment of Materials
- 405-02 Sintered Metallic and Ceramic Materials
- 405-03 Composite Materials
- 405-04 Mechanical Behaviour of Construction Materials

- 405-05 Coating and Surface Technology
- 406-01 Thermodynamics and Kinetics of Materials
- 406-02 Synthesis and Properties of Functional Materials
- 406-03 Microstructural Mechanical Properties of Materials
- 406-04 Structuring and Functionalisation
- 406-05 Biomaterials
- 407-01 Automation, Control Systems, Robotics, Mechatronics, Cyber Physical Systems
- 407-02 Measurement Systems
- 407-03 Microsystems
- 407-04 Traffic and Transport Systems, Logistics, Intelligent and Automated Traffic
- 407-05 Human Factors, Ergonomics, Human-Machine Systems
- 407-06 Biomedical Systems Technology
- 408-01 Electronic Semiconductors, Components, Circuits, Systems
- 408-02 Communications, High-Frequency and Network Technology, Theoretical Electrical Engineering
- 408-03 Electrical Energy Generation, Distribution, Application
- 409-01 Theoretical Computer Science
- 409-02 Software Engineering and Programming Languages
- 409-03 Security and Dependability
- 409-04 Operating, Communication, Database and Distributed Systems
- 409-05 Interactive and Intelligent Systems, Image and Language Processing, Computer Graphics and Visualisation
- 409-06 Information Systems, Process and Knowledge Management
- 409-07 Computer Architecture and Embedded Systems
- 409-08 Massively Parallel and Data-Intensive Systems
- 410-01 Architecture, Building and Construction History, Construction Research, Sustainable Building Technology
- 410-02 Urbanism, Spatial Planning, Transportation and Infrastructure Planning, Landscape Planning
- 410-03 Construction Material Sciences, Chemistry, Building Physics
- 410-04 Structural Engineering, Building Informatics and Construction Operation
- 410-05 Applied Mechanics, Statics and Dynamics
- 410-06 Geotechnics, Hydraulic Engineering
- Other

A.2 What is your role or position?

Research support staff
Repository staff
Research infrastructure operator
Researcher
Policy maker
Other

A.3 Are you involved in an European research infrastructure (ESFRI)?

- EU-SOLARIS
- IFMIF-DONES
- MYRRHA
- WindScanner
- ACTRIS
- DANUBIUS-Ri

- DiSSCo
- eLTER
- AnaEE
- EMPHASIS
- EU-IBISBA
- ISBE
- METROFOOD
- MIRRI
- EST
- KM3NET 2.0
- E-RIHS
- EHRI
- ECCSEL ERIC
- JHR
- EISCAT_3D
- EMSO ERIC
- EPOS
- EURO-ARGO ERIC
- IAGOS
- ICOS ERIC
- LifeWatch ERIC
- BBMRI ERIC
- EATRIS ERIC
- ECRIN ERIC
- ELIXIR
- EMBRC ERIC
- ERINHA
- EU-OPENSCREEN ERIC
- Euro-BioImaging
- INFRAFRONTIER
- INSTRUCT ERIC
- CTA
- ELI
- ELT
- EMFL
- ESRF EBS
- European Spallation Source ERIC
- European XFEL
- FAIR
- HL-LHC
- ILL
- SKA
- SPIRAL2
- CESSDA ERIC
- CLARIN ERIC
- DARIAH ERIC
- ESS ERIC
- SHARE ERIC
- PRACE
- Other

A.4 Which type of organization do you work in?
Research infrastructure
University
Research institution
Government/local government
Private company
Medical School/Teaching Hospital
Other
A.5 Country where your organisation is based

- Austria
- Italy
- Belgium
- Latvia
- Bulgaria
- Lithuania
- Croatia
- Luxembourg
- Cyprus
- Malta
- Czechia
- Netherlands
- Denmark
- Poland
- Estonia
- Portugal
- Finland
- Romania
- France
- Slovakia
- Germany
- Slovenia
- Greece
- Spain
- Hungary
- Sweden
- Ireland
- United Kingdom
- Other European country
- Other country or countries

A.6 What is the total number of **researchers** (full time equivalent, FTE), including doctoral candidates, working at your institution?
<100
100-500
500-1000
1000<
The following questions are divided into four sections: Metadata Standards, Persistent Identifiers, Semantic Artifacts and Research Software. About half of them are open questions, where you can give your answer in free text. Please, feel free to elaborate and share information you feel is

important for implementing the FAIR principles. The rest are multiple choice questions, which should be fairly quick to answer. None of the questions below are mandatory, but all answers are very much appreciated.

B. Metadata Standards

B.1 What metadata standards are recommended in your community?

1000 character(s) maximum

B.2 What is your rough estimation on the amount of researchers in your community adding bibliographic metadata (creator, title, etc) to the datasets they publish? By community, we mean the domain you specified in A.1.

<10%
10 - 25%
25 - 50%
50 - 75%
75 - 100%

B.3 What is your rough estimation on the amount of researchers in your community adding additional metadata (for ex. domain specific and provenance information) to the datasets they publish? By community, we here mean the domain you specified above.

<10%
10 - 25%
25 - 50%
50 - 75%
75 - 100%

B.4 What kind of additional metadata is normally added to the published datasets?

B.5 In your experience, are the metadata standards available well suited for your community? If not, please elaborate.

C. Persistent Identifiers

By persistent identifier we mean an actionable, unique identifier.

C.1 Does your community use persistent identifiers?

yes
no
I don't know

C.2 What kind of digital objects do you use persistent identifiers for?

scientific publications
datasets
files without metadata
files containing metadata
software
methods
protocols
metadata records
semantic artefacts (vocabularies, data models, concepts)
other

C.3 Which identifiers are used in your community for these digital objects?

DOI
URN
Handle
ARK
PURL

none,
other
C.4 For what purpose are the identifiers used?
C.5 What kind of objects do you refer to in your metadata with other people's persistent identifiers?
scientific publications
datasets
files without metadata
files containing metadata
software
methods
protocols
metadata records
semantic artefacts (vocabularies data models or, concepts)
funders
researchers
research organisations
infrastructures
other
C.6 In your experience, are the identifiers available well suited for your community and the purpose you want to use them for?
If not, please elaborate.
C.7 Do you also work with persistent identifiers for dynamic data objects?
yes
no
partly
I don't know
C.8 Are versioning and changes in data objects clearly documented?
yes
no
partly
I don't know

D. Semantic Artefacts

By semantic artefacts, we mean any computer processable representation of semantics i.e. controlled vocabularies, ontologies, thesauri, taxonomies, reference data, code lists and any related artefacts.

D.1 Does your community use semantic artefacts?
yes
no
I don't know
D.2 Which vocabularies and/or ontologies are recommended to be used in your community?
D.3 In your experience, are the vocabularies and/or ontologies available well suited for your community?
If not, please elaborate.
yes
no
I don't know
D.4 Which criteria do you use for selecting semantic artefacts?
D.5 How do you find and access semantic artefacts that you are using?
D.6 What type of recommendations/good practices are currently being used in your community for semantic artefacts?

D.7 Which formats are used for the semantic artefacts in your field?
SKOS
OWL
RDF
XML
SHACL
other
D.8 Which licences are used for the semantic artefact in your community?
D.9 Do the semantic artefacts used in your community have defined governance policies and processes (i.e. versioning, integration of a new concept,...)?
If yes or partly, please, elaborate.
yes
no
partly
I don't know
D.9a Please, tell us something about the governance policies and processes
D.10 Are the semantic artefacts used in your community interoperable with each other?
If partly or no, please, elaborate.
yes
no
partly
I don't know
D.11 What is the common process defined in your community to build semantic artefacts?
Please, specify the type of semantic artefact if relevant.
D.12 Which tools are commonly used in your community for building semantic artefacts?
D.13 Are the semantic artefacts used in your community documented with metadata?
If yes or partly, please, elaborate.
yes
no
partly
I don't know
D.14 Do you actively contribute to the development and/or maintenance of a semantic artefact used in your community? If yes, which one?
yes
no
I don't know
D.15 Which semantic artefacts do you contribute to?

E. Research Software

E.1 Does your community use research software?
yes
no
E.2 Is the research software that is being produced in your institute being made available to others?
No
Yes, within institute only
Yes, with selected parties only
Yes, made public
E.3 Describe the process of publishing or sharing such software, including how you deal with versioning, persistent identifiers, and metadata?
E.4 What challenges do researchers in your community encounter when trying to find relevant research software on the web?

E.5 What challenges do researchers in your community encounter when trying to re-use relevant research software on the web?
Would you be willing to participate in any follow up landscape assessment activities being carried out by FAIRsFAIR?
yes, please
no, thank you
Please give your name, email and affiliation, so that we might get in touch