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TABLE OF CONTENTS

FAIR IMPLEMENTATION PROFILE

Definition

A list of decisions made by a community to FAIRify their data

The FIP is a collection of FAIR implementation choices made by a community of practice for each of the FAIR Principles.

FIC

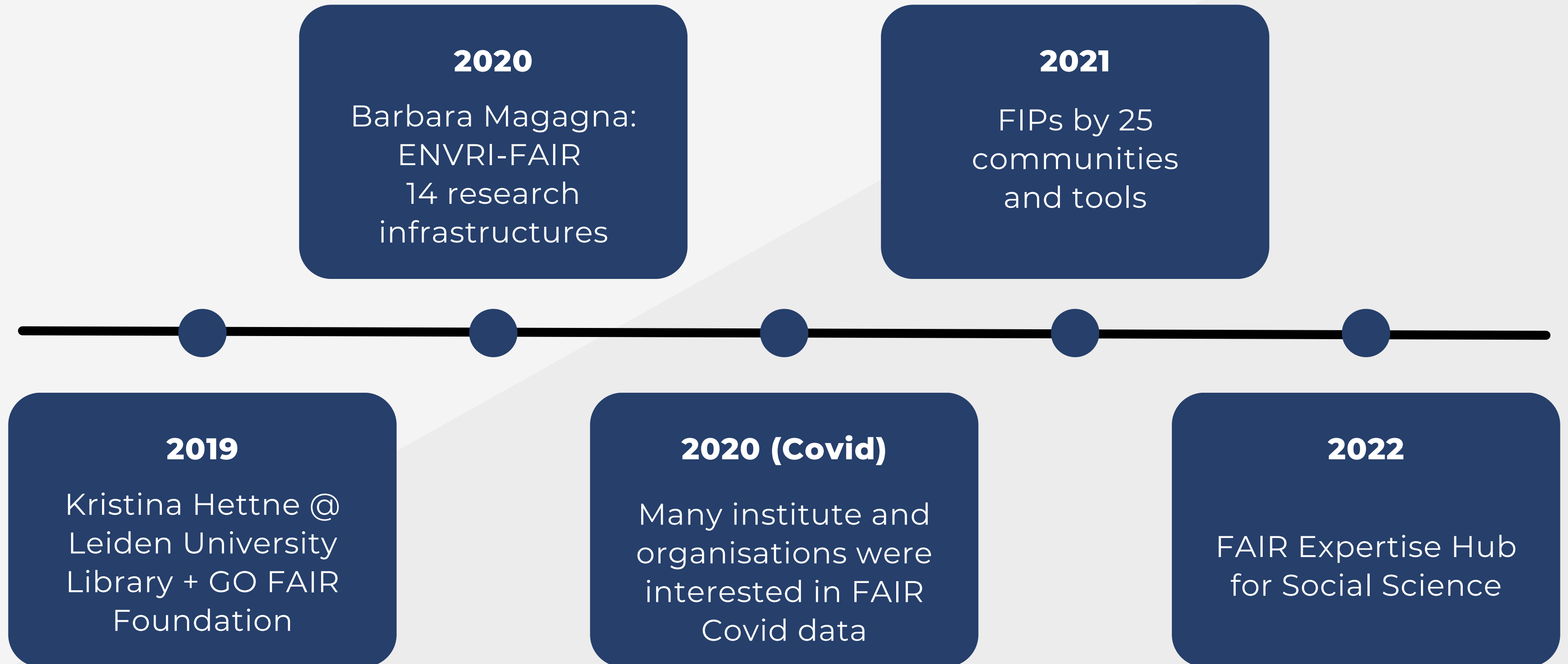A group of people who are using/publishing data on the same topics

FER

A resource that enables the implementation of FAIR behaviors

Their relations

A FIC used a FER
A FIC is using a FER
A FIC will use a FER

FIPS FOR SOCIAL SCIENCE

- Two FIPs in WorldFAIR

- One FIP from past attempts

- Data in social science can be very different

- Qualitative data

- Different data management behaviors

- Less FAIR

COMMUNITIES

ESS

European Social
Survey (ESS)

AUSSI-ESS

Australian Social
Survey International –
European Social Survey

GESIS SSSR

GESIS Social
Science Survey
Research

SEH

SSHOC-NL Socio-
Economic History

MCAL

Media Content
Analysis Lab
scholars

LGBTQVoc

LGBTQ+ Linked
Open Vocabulary

Meetings → **Processing** → **Review** → **Publish**

CREATING FIPS

- Meetings/emails with members of the communities.
- All FIPs were created on the FIP Wizard
- Download in PDF and *.trig

LGBTQ+ Linked Open Vocabulary FIP   Share

📋 Questionnaire   📊 Metrics   👁 Preview   📄 Documents   ⚙ Settings

View   TODOs   Comments   Version history   ⛶

Current Phase

Defining FAIR Implem...

Chapters

I. About ✓
II. Declare your FAI... ✓
   💬 Select your FAIR Imple...
   💬 Who is the Community ...
   💬 Specify the start date f...
   💬 Specify the end date fo...
III. Declarations for ... ✓
IV. Declarations for ... ✓
V. Declarations for I... ✓
VI. Declarations for ... ✓
VII. Register a new re... ✓

In this section of the FIP Wizard, you, the Community Data Steward, are requested to answer questions that will declare, in a machine-readable way, the FAIR Implementation Community.

✓ II.1 Select your FAIR Implementation Community

In the drop-down list, select your FAIR Implementation Community. If your community is not yet listed, you will need to first create a nanopublication referencing your FAIR Implementation Community. Once you create this nanopublication, you will then see it in the drop-down list. A Wizard for creating nanopublications referencing a FAIR Implementation Community can be accessed below (in Chapter VII. Register a new resource as a nanopublication).

☑ Desirable: *Defining FAIR Implementation Profile*

LGBTQ+ Linked Open Vocabulary Community
The LGBTQ+ Linked Open Vocabulary Community consists of researcher, librarians, linguistics experts that are contributing to the development and use of vocabularies such as Homosaurus, QLIT, etc. The community is centered around the Homosaurus project.
• See more here

🔗 http://purl.org/np/RAOGUK-HzDHdTUPVG9tJXEjnG_p1mkqOylWUi10xf11_8#LGBTQVoc

↺ Clear answer

Answered 3 months ago by Shuai Wang.

✓ II.2 Who is the Community Data Steward?

As the Community Data Steward, you take the responsibility to represent your FAIR Implementation Community, and for reporting the decisions your community has made on how to implement the FAIR Principles. Provide your ORCID here (like this: 0000-0003-2..., without https://orcid.org/).

ANALYSIS

FAIR principles

FAIR Principle	SEH	MCAL	LGBTQVoc	SSSR	ESS	AUSSI-ESS
F4 Data	Dataverse, DANS SSH data station (future use)	DANS SSH data station, Dataverse, OSF, Figshare, TriplyDB (future use)	-	GESIS Search	ESS Data Portal, EOSC Portal	ADA Dataverse FER
A1.1 Metadata	OAI-PMH, HTTPS, REST API	HTTPS, REST API	HTTPS, REST API	OAI-PMH	HTTPS, GraphQL API	HTTPS, REST API
I1 Data	OWL, RDF, RDFS, XMLS, HTML	-	JSON-LD, RDF, RDFS, N-Triples, Turtle, SKOS	-	Apache Parquet	SPSS, Stata, SAS, R, CSV
I2 Data	HISCO, AMCO, H-ICD, IDS	-	Homosaurus, QLIT, LCSH, HCDGT, PVM	-	ISO3166-1, ISO639-2, NACE Rev. 2, ISCO-08, NUTS 3, DDI Controlled vocabularies, CESSDA Vocabulary, ELSST	-
R1.1 Data	CC-BY-SA, CC-BY-NC	-	CC-BY-NC-ND 4.0	GESIS Usage Regulations 2018	CC-BY-NC-SA 4.0	-

Table 1. A comparison of decisions on the practice of the FAIR principle

ANALYSIS

FAIR Enabling Resources and Convergence Analysis

FAIR Principle	FER	SEH	MCAL	LGBTQVoc	SSSR	ESS	AUSSSI-ESS
F1 Metadata	DOI	1	1	1	1	0	0
A1.1 Metadata	OAI-PMH	1	0	0	1	0	0
A1.1 Metadata	REST API	1	1	1	0	0	1
F2 & R1.2 Data	DDI-Codebook	1	0	0	1	1	1
I1 Metadata/Data	RDF	1	0	1	0	0	0

Table 2. Selected rows in the FAIR Convergence Matrix (1 indicates in use, 0 not)

ANALYSIS

FIP Similarity analysis

FER	SEH	MCAL	LGBTQVoc	SSSR	ESS
MCAL	4,2,0,0 (6)	-	-	-	-
LGBTQVoc	2,2,4,0 (8)	1,2,0,0 (3)	-	-	-
SSSR	1,2,0,0 (3)	1,0,0,1 (2)	1,0,0,0 (1)	-	-
ESS	0,1,0,0 (1)	1,1,0,0 (2)	1,1,0,0 (2)	1,0,0,0 (1)	-
AUSSI-ESS	0,3,0,0 (3)	1,3,0,1 (5)	0,2,0,0 (2)	1,1,1,1 (4)	0,1,0,1 (2)

Table 3. Comparison of FERs across FICs (in each cell is the number of overlapping FERs between the FIPs for each aspect of F, A, I, R as well as their sum in parentheses; the color corresponds to the sum)
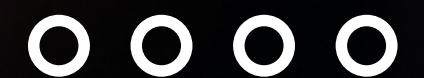
DISCUSSION

- The approach for the creation of the FIP for LGBTQVoc is not generalisable

- The FIP Wizard has limits in use: some FERs are not available

- FIP can evolve and the templates can also be changed Thus, some cost of maintainence.

- Giving advice based on the assessment results.

FUTURE WORK

- How FIPs in social science differ from other communities.

- How can we use FIP as suggestions for questions In DMPs.

- How FIPs can be automatically filled.

- What can FIP do to legacy datasets (datasets not in use).

THANK YOU

CONTACT

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🌐 www.fairexpertisehub.org

(under construction)

PDI SSH Platform Digitale Infrastructuur
Social Sciences & Humanities

ODISSEI

Clariah

GO FAIR

Data Archiving and Networked Services
DANS

References

- Erik Schultes et al. "Reusable FAIR Implementation Profiles as Accelerators of FAIR Convergence".
- Mark D Wilkinson et al. "The FAIR Guiding Principles for scientific data management and stewardship". In: Scientific data 3.1 (2016), pp. 1–9
- Barbara Magagna et al. "FIPs and Practice". In: Research Ideas and Outcomes 8 (2022). doi: 10.3897/rio.8.e94451.
- Hana Pergl Sustkova et al. "FAIR Convergence Matrix: Optimizing the Reuse of Existing FAIR-Related Resources". In: Data Intelligence 2.1-2 (Jan. 2020), pp. 158–170. issn: 2641-435X
- Kristina Hettne et al. "FIP2DMP: Linking data management plans with FAIR implementation profiles".

References (useful links)

FAIR Implementation Profile: 3-part video series:
https://www.go-fair.org/2021/08/02/fair-implementation-profile-3-part-video-series/

WorldFAIR: https://docs.google.com/presentation/d/1vDgMCWW-RM8O6RnDuI5ataGh4md5VX49u5NjcolVMU8/edit?usp=sharing

FIP questionnaire and FER types: https://bit.ly/WF-FIPs-Questions

The FIP Wizard: https://fip-wizard.ds-wizard.org/