FAIR implementation

To create value and guide strategic decision-making in pharma and Life Science companies, data needs to be Findable, Accessible, Interoperable and Reusable (FAIR) both by humans and machines. The objective of the Pistoia Alliance FAIR implementation project , from its inception in 2019 to today, is to enable precompetitive instruments for the implementation of FAIR data principles.

Key Information

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Project website

https://www.pistoiaalliance.org/projects/current-projects/fair-implementation/

Key project information resources

Sponsors/ Steering

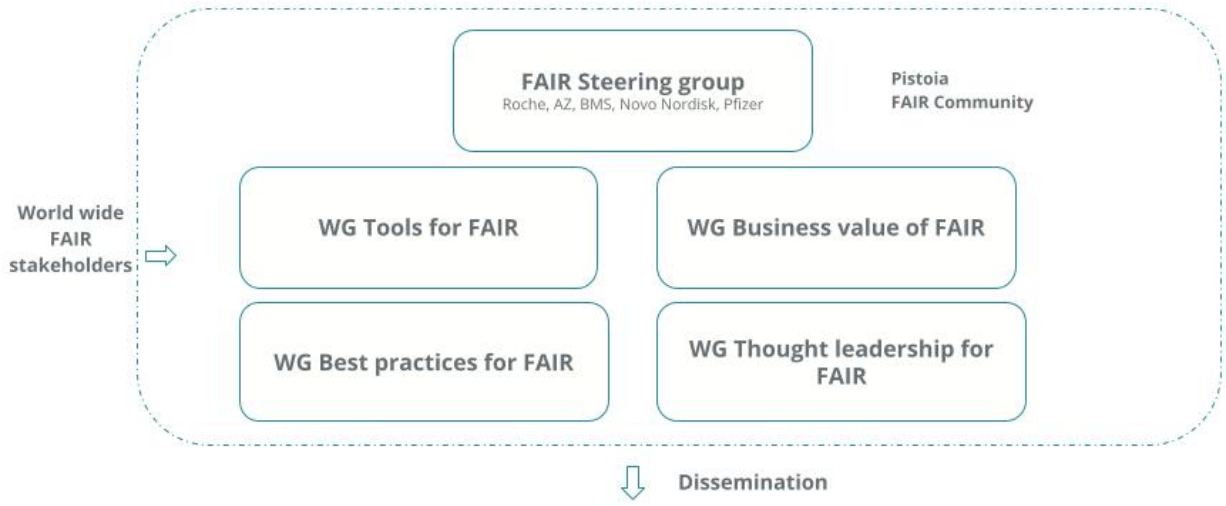
Roche, AstraZeneca, Bristol Myers Squibb, novo nordisk, Pfizer

Contributors

AstraZeneca, Bayer, Boehringer Ingelheim, Bristol Myers Squibb, CSL Behring, Curlew Research, elixir, epam, FAQIR, GO FAIR, The Hyve, IQVIA, Manchester, novo nordisk, ONTOFORCE, ORCID, Roche, XponentL Data

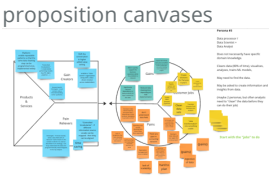
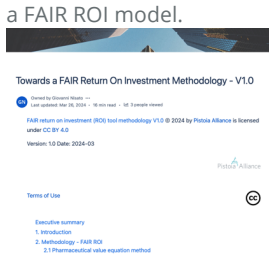
Thanks to our funders who are making this project possible, without their help this community would not exist or collaborate. Thanks for all the in-kind contributors for their time and expertise.

Working Groups Phase 3



	Tools	Business Value	Best Practices	Thought Leadership
PROBLEM	Lack of interoperability. High costs. Lack of FAIR standards. Multiplication of CV and ontologies.	Who benefits from FAIR, who pays and for what? How to maintain "Common good" FAIR resources?	How to orient organisations during their complex FAIR data implementation journeys?	Implementations of FAIR data principles are understood differently across organisations. "Fake FAIR" emerges.
SCOPE	Pistoia Alliance Pharma General Ontology	Defining personas. Towards an "ROI" of FAIR implementation	FAIR implementation Organisational Maturity Model	Dissemination of resources created in the project

Selected Outcomes Working groups

Tools	Business Value	Best Practices	Thought Leadership
Started survey for key concepts or "Pharma top 40" Situated key concepts with enterprise-level ontology (GIST) Tested feasibility of creating simple models to address a compeneny question Define 'Pharma General ontology" project charter Project kick off in April 2024	Identified 5x FAIR user "personas" and draft of value proposition canvases  V1.0 methodolology for pharma projects ROI, towards a FAIR ROI model. 	Co-creation of a a first maturity assessment model of FAIR data principle implementation at the organisational level. 6 maturity levels, L0-L5, in alignment with FAIR data frameworks. We identified 7 dimensions to describe FAIR implementation journeys: 	3x new use cases FAIRtoolkit FAIR4clinV 2.0 FAIR Webinars: • BMS : data model • Novo Nordisk • Swiss Inst. Bioinformatics Presentations at: BiotechX 2023 BioITworld EU 2023 FAIR at Pistoia Boston 2023 Publication in, Data, 2024 Vol 9 Issue 4 doi.org/10.3390/data9040055

Resources

Since its inception in 2018, the FAIR implementation project created among others

fairtoolkit.pistoiaalliance.org : resources and uses cases of FAIR in life-sciences

fair4clin.pistoiaalliance.org : a document mapping FAIR in the clinical space

fairmm.pistoiaalliance.org :an organizational maturity model for FAIR

Getting involved

FAIR continues as a "Community of Experts" in 2024 you are interested in sponsoring the activty financially or in-kind please pin

Pistoia Alliance: Lowering barriers to R&D innovation

The Pistoia Alliance is a global, not-for-profit alliance of life science companies, vendors, publishers, and academic groups that work together to lower barriers to innovation in R&D.

Our members collaborate as equals on open projects that generate significant value for the worldwide life science community.

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