

FAIRification is a Team Sport

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Interoperability Platform ExCo



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Associate Director, Oxford e-Research Centre



Group: datareadiness.eng.ox.ac.uk



Founding
Academic Editor

scientific data

Springer Nature

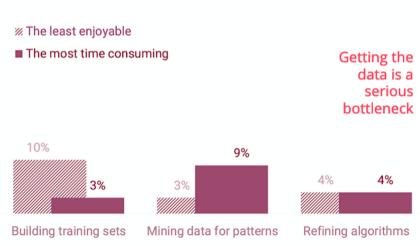
nature.com/sdata

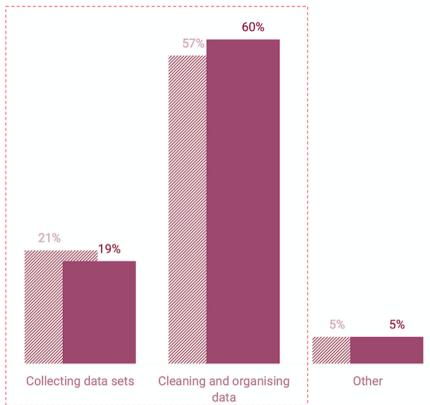
Science is about continuity

Discoveries are made using shared data and this requires data that are:

- Cited and stored to be discoverable
- Retrievable and structured in standard format(s)
- Richly described to be understandable

Data preparation accounts for about 80% of the work of data scientists





Use of data at scale by humans and machines

SCIENTIFIC DATA (11011) 10 (111011) 10 (111011) SPRINGER NATURE

SUBJECT CATEGORIES

» Research data » Publication characteristics

OPEN Comment: The FAIR Guiding Principles for scientific data management and stewardship

Mark D. Wilkinson, Michel Dumontier, IJsbrand Jan Aalbersberg, Gabrielle Appleton, Myles Axton, Arie Baak, Niklas Blomberg, Jan-Willem Boiten, Luiz Bonino da Silva Santos, Philip E Bourne, Jildau Bouwman, Anthony J Brookes, Tim Clark, Merce Crosas, Ingrid Dillo, Olivier Dumon, Scott Edmunds, Chris T Evelo, Richard Finkers, Alejandra Gonzalez-Beltran, Alasdair J G Gray, Paul Groth, Carole Goble, Jeffrey S. Grethe, Jaap Hennga, Peter A.C. 't Hoen, Rob Hooft, Tobias Kuhn, Ruben Kok, Joost Kok, Scott J. Lusher, Maryann E. Martone, Albert Mons, Abel L. Packer, Bengt Persson, Philippe Rocca-Serra, Marco Roos, Rene van Schaik, Susanna-Assunta Sansone, Erik Schultes, Thierry Sengstag, Ted Slater, George Strawn, Morris A. Swertz, Mark Thompson, Johan van der Lei, Erik van Mulligen, Jan Velterop, Andra Waagmeester, Peter Wittenburg, Katherine Wolstencroft, Jun Zhao, and Barend Mons

SCIENTIFIC DATA | 3:160018 | DOI: 10.1038/sdata.2016.18

Access & Citations

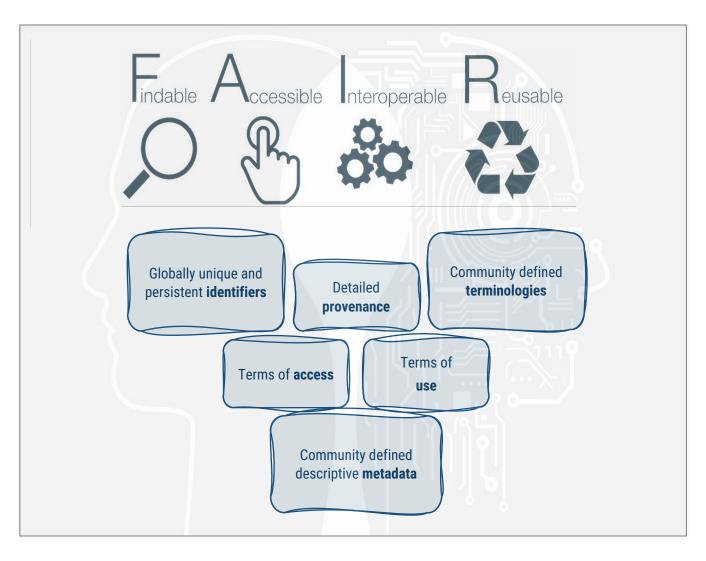
3173 451k

Article Accesses

Web of Science

3993 CrossRef

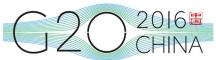


















doi.org/10.1787/25186167

ark:/48223/pf0000374837

POLICY STATEMENT ON F.A.I.R. ACCESS TO AUSTRALIA'S RESEARCH OUTPUTS

www.fair-access.net.au

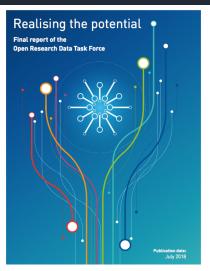
Impact story Changing the culture of data science The Turing Way is an online handbook – and global community – dedicated to fostering gold-standard reproducible research. It's a cultural movement with the potential to transform data science. "The reuse of other people's data provides useful insights for new research questions and products, and drives new scientific discoveries." Susuan-s-asunts Sansone, Associate Professor in Data Readiness at the University of Colord Images: Created by Sorberia for The Turing Way of So

www.turing.ac.uk/research/impactstories/changing-culture-data-science

FAIR has aligned the broad community around common guidelines



doi.org/10.7486/DRI.tq582c863



www.gov.uk/government/publications/openresearch-data-task-force-final-report



doi.org/10.2777/986252

FAIR Principles: a continuum of features, attributes and behaviours









Recommended by national and international funders, e.g.:











Horizon Europe (HORIZON)

Programme Guide

Version 1.2 04 October 2021

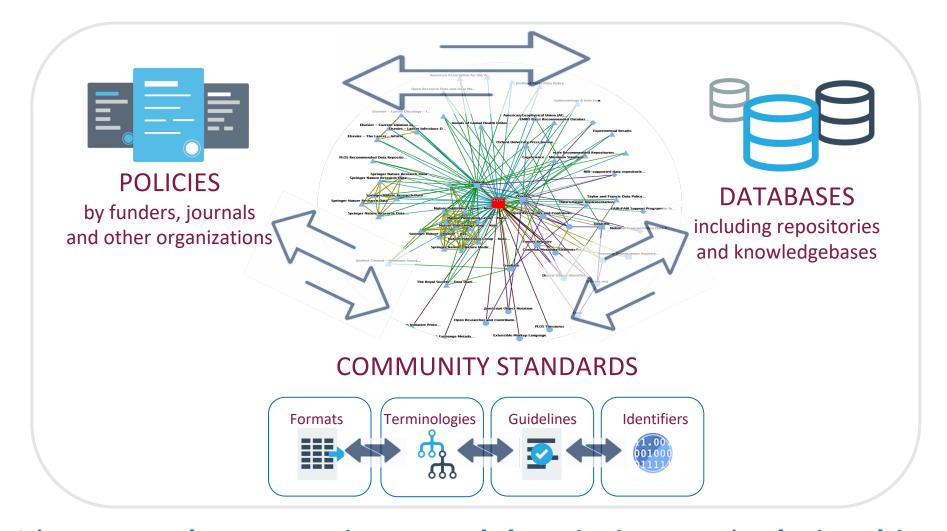


IMI2 project guidelines for open access to publications and research data



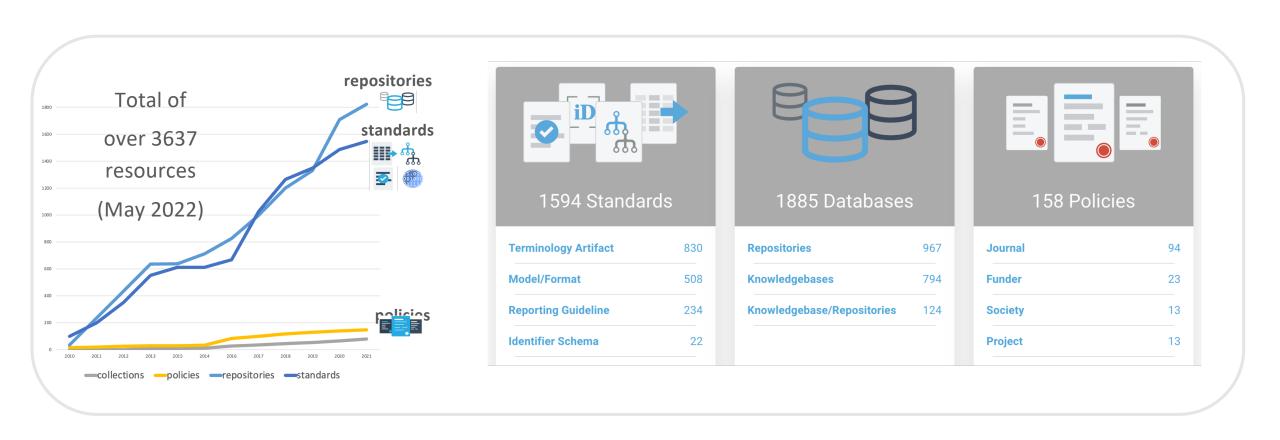


An informative and educational resource



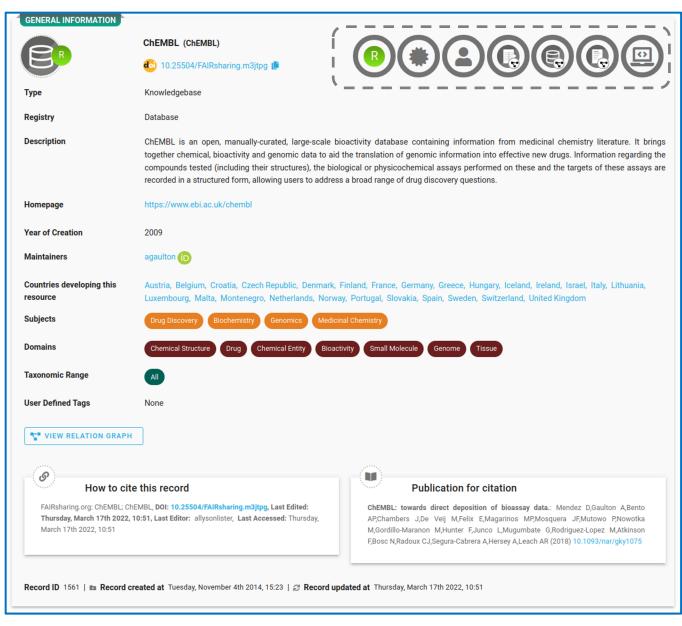
It provides curated, community-vetted descriptions and relationship graphs of standards, databases and policies in all disciplines

Promoting databases, standards, policies



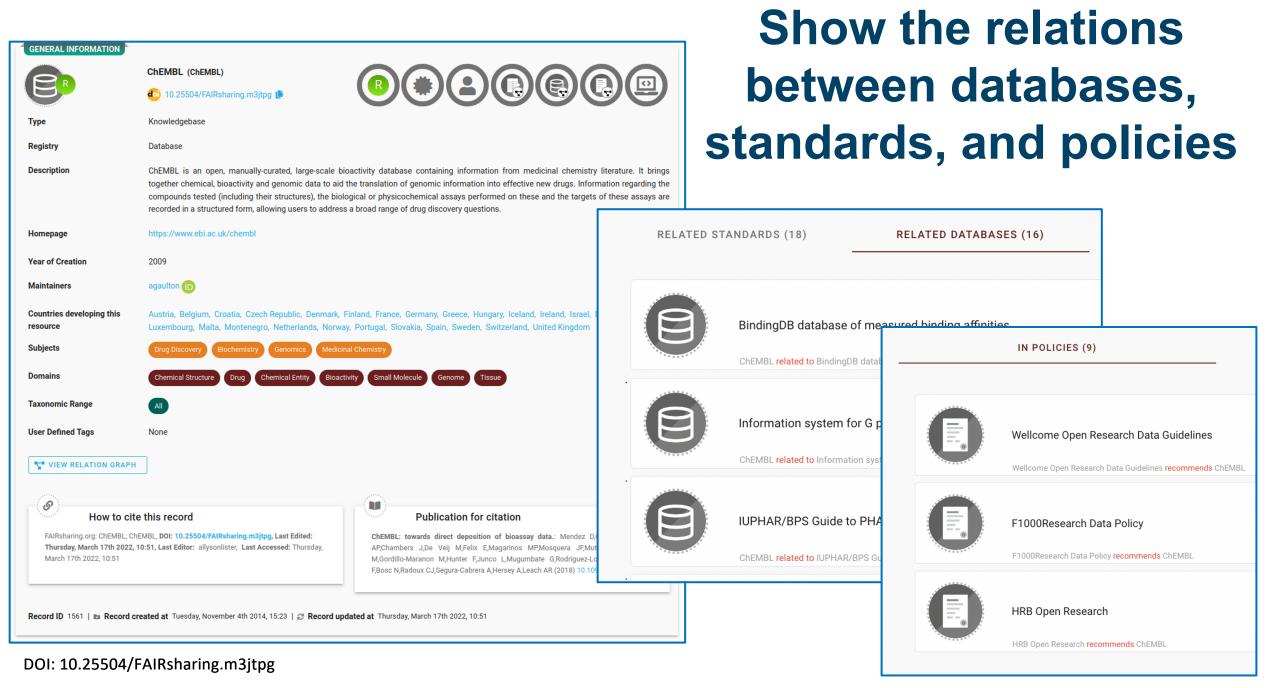
Guides consumers to discover, select and use these resources with confidence

Helps *producers* to make their resources more *visible*, more widely *adopted* and *cited*



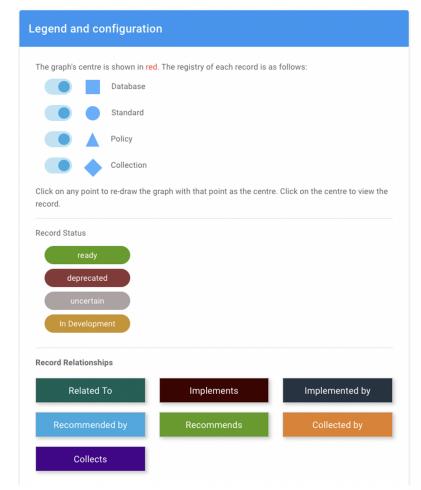
Detailed descriptions that help you decide what resource is right for your case

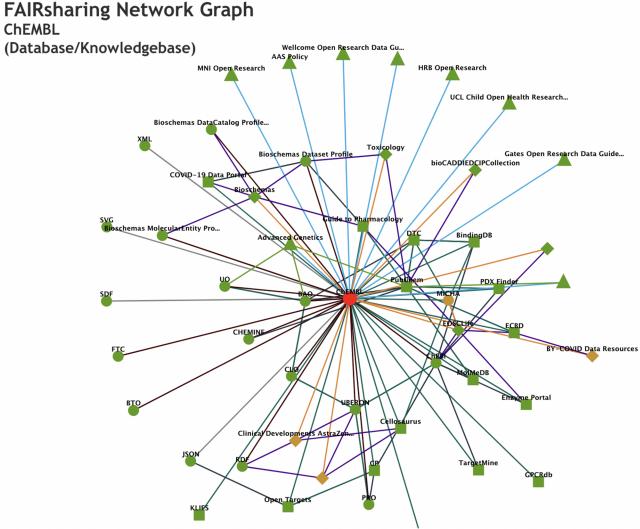






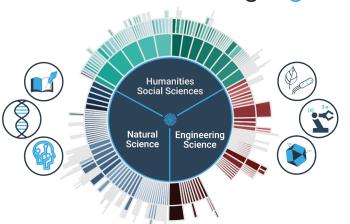
Visualize these relations to guide you





DOI: 10.25504/FAIRsharing.m3jtpg

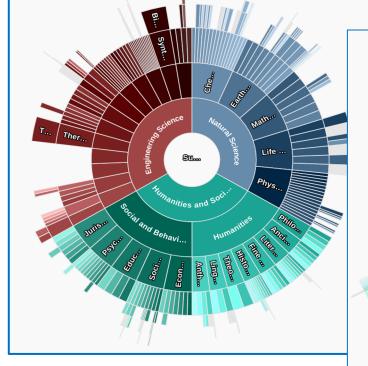


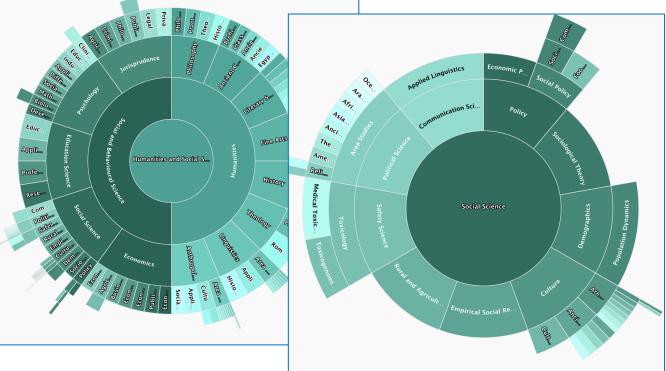


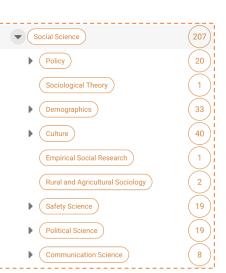
Help you search by subject

Classification is powered by our **Subject Ontology** of 436 terms

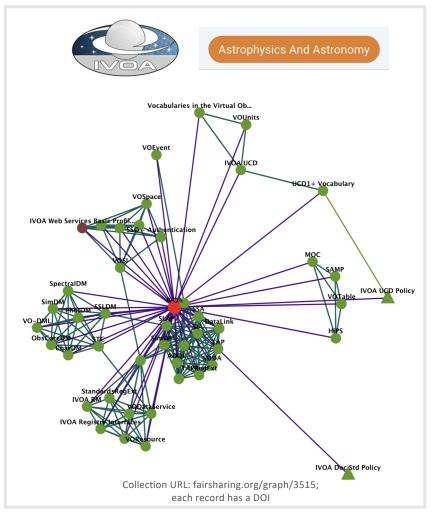
URL: fairsharing.org/browse/subject URL: github.com/FAIRsharing/subject-ontology

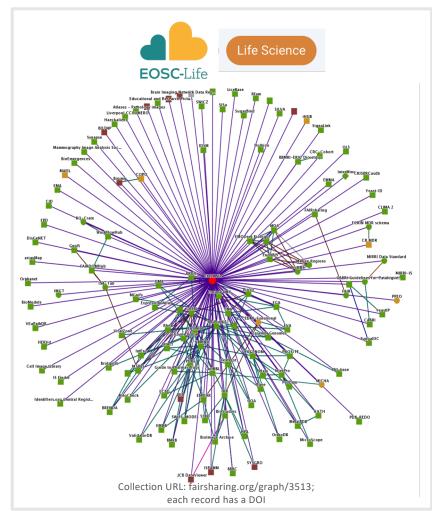






Working with international communities to create subject-specific collections of the resources







FAIRsharing: working with and for all stakeholders

Users, adopters and collaborators include:



Current operational Team

- Allyson Lister, Content and Community Lead
- Milo Thurston, Technical Lead
- Ramon Granell, Data Enrichment & Quality Manager
- **Delphine Dauga**, Data Curator Manager
- *Hiring in progress,* Web Developer
- **Dominique Batista**, Research Software Engineer
- **Philippe Rocca-Serra**, Co-Founder
- Susanna-Assunta Sansone, PI and Founder
- and many collaborators and contributors!

Executive Advisors

- Varsha Khodiyar, Independent expert
- Chris Graf, Springer Nature
- **David Carr**, Independent expert
- Robert Hanisch, Director, NIST Office of Data & Informatics
- Peter McQuilton, FAIRsharing Founding Member, GSK

Stakeholder Advisors

- Amye Kenall, VP of Publishing and Product, Research Square
- Adam Leary, Oxford University Press
- Catriona MacCallum, Hindawi
- Dagmar Meyer, European Research Council, Executive Agency
- **Dominic Fripp,** JISC, UK
- Emma Ganley, Protocols.io
- Geraldine Clement-Stoneham, Medical Research Council
- Helena Cousijn, DataCite
- lain Hrynaszkiewicz, PLoS
- Imma Subirats, FAO of the United Nations
- Kiera McNiece, Cambridge University Press
- Luiz Olavo Bonino, GO-FAIR
- Marina Soares E Silva and Sarah Callaghan, Elsevier
- Michael Ball, Biotechnology and Biological Sciences Research Council
- Mike Huerta, NIH National Library of Medicine
- Molly Cranston and Guillaume Wright, F1000Research
- Nick Everitt and Matthew Cannon, Taylor and Francis
- Scott Edmunds, GigaScience, Oxford University Press
- Simon Hodson, CODATA
- Theo Bloom, British Medical Journal
- Thomas Lemberger, EMBO Press
- Wei-Mun Chan, eLife
- Sowmya Swaminathan, Springer Nature







Recommended by national and international funders, e.g.:











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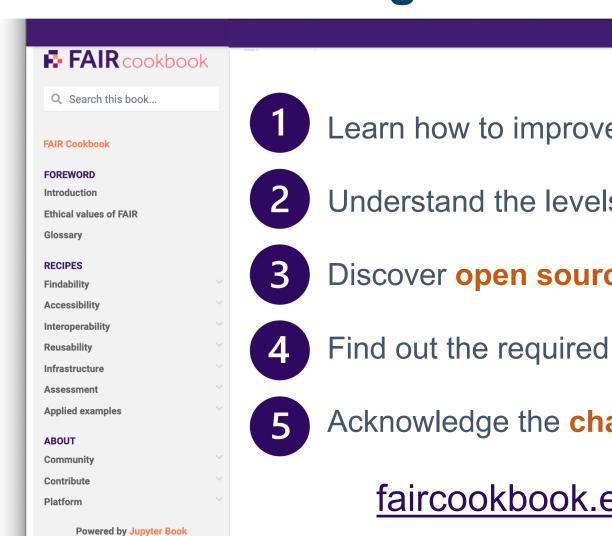
IMI2 project guidelines for open access to publications and research data







A 'live' collection of recipes to help achieve FAIR data management



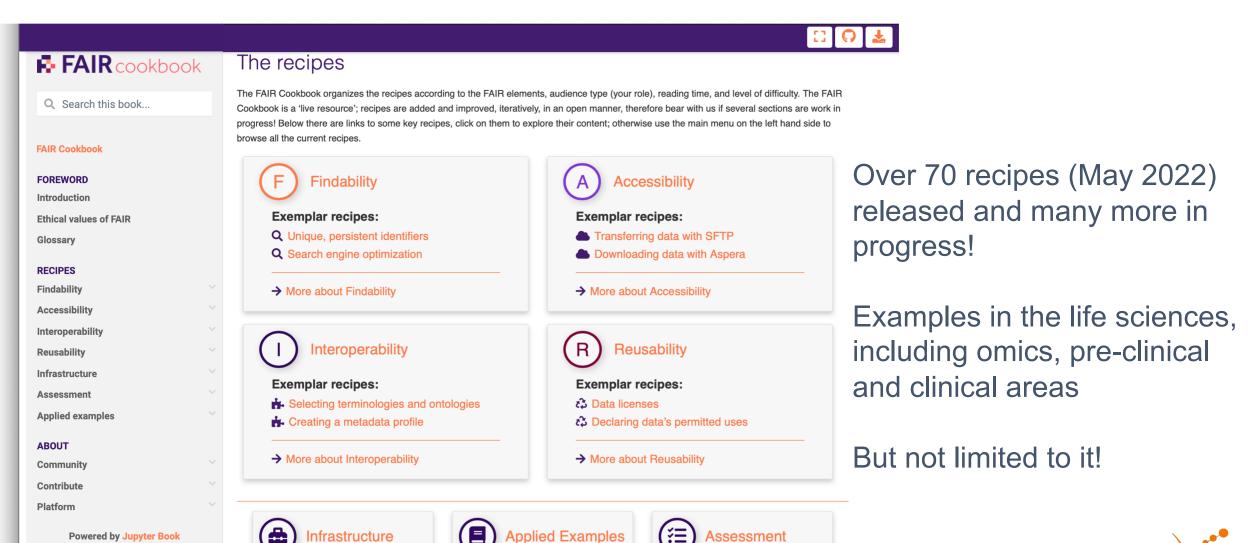
- Learn how to improve the FAIRness with exemplar datasets
- Understand the levels and indicators of FAIRness
- Discover open source technologies, tools and services
- Find out the required skills
- Acknowledge the challenges

faircookbook.elixir-europe.org



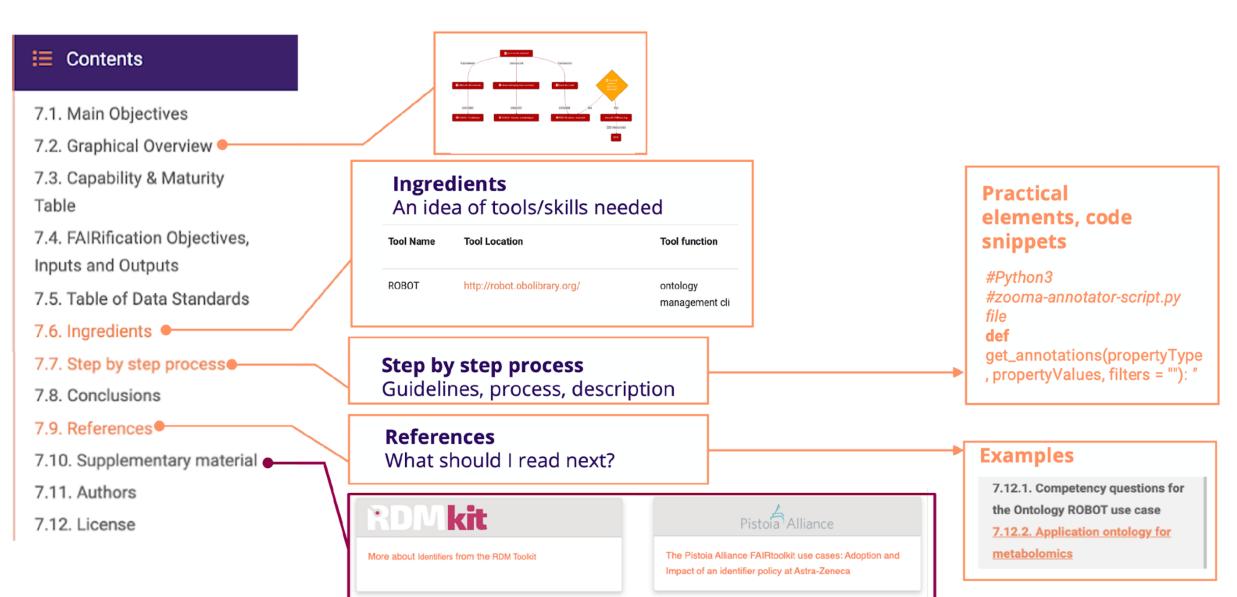


Recipes that cover all aspects of FAIRness



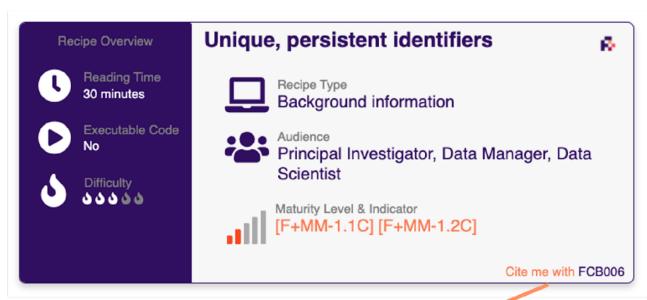


Anatomy of a recipe





Citability of the recipes and credit to the authors

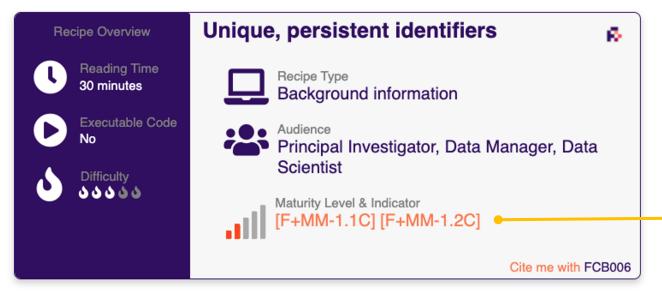


w3id



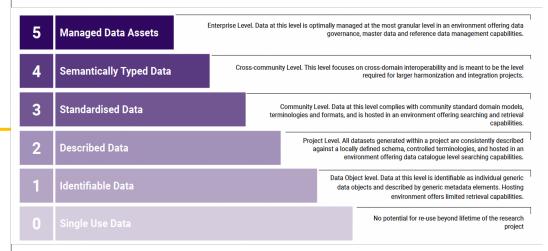


Maturity level and indicators of FAIRness



We are working to tag the recipes with a 'dataset maturity model'

It show the level of FAIRness you can reach by applying a specific recipe to improve a dataset



https://fairplus.github.io/Data-Maturity



FAIR Cookbook: turning knowledge into recipes

Almost 100 life sciences professionals, researchers and data managers































































The roadmap, your steps



adopt it



Help us to help you, this is a useroriented resource Contribute according to your needs

Create and review, or signpost gaps and needs

leverage it

Recommend it in your guidance and training material

use it

Join a network of FAIR experts

Share and broaden your expertise, joining our journey

join it

Benefit from the power of the FAIR community

Become a recognised expert, enlarge your network

