

FAIRsharing.org

a FAIR-enabling service

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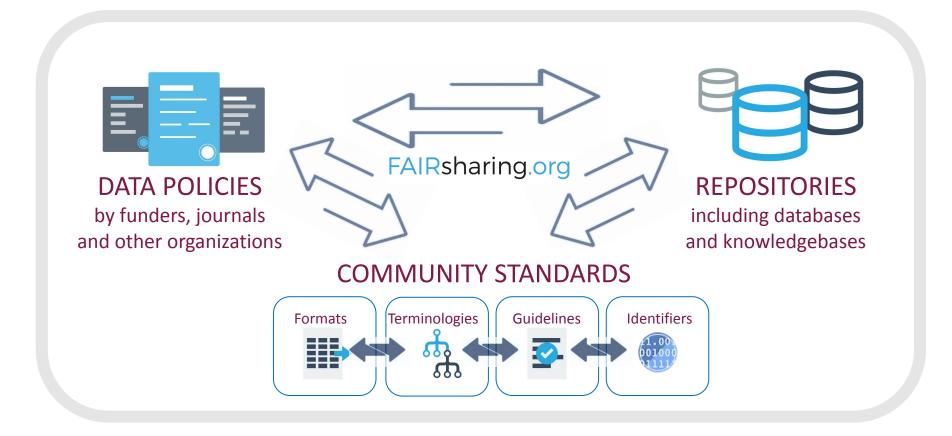


10.25504/FAIRsharing.2abjs5



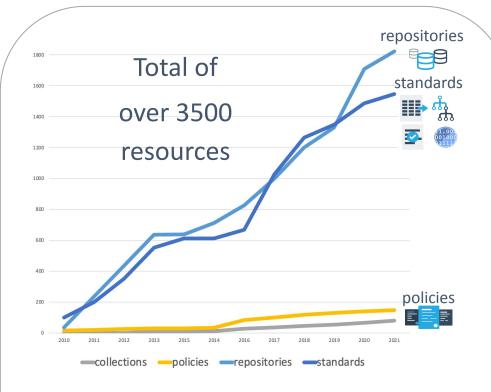


A global resource for all disciplines

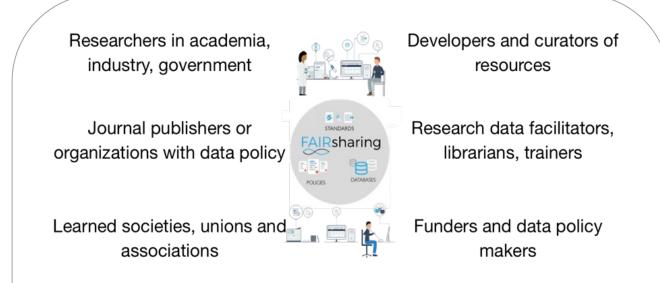


An informative and educational resource of three *curated* and *interlinked* registries of standards, repositories and policies; three key elements of the FAIR ecosystem

Promoting repositories, standards, policies



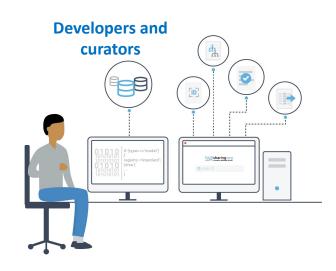
Fosters a culture change where the use of these resources for FAIRer data is pervasive and seamless



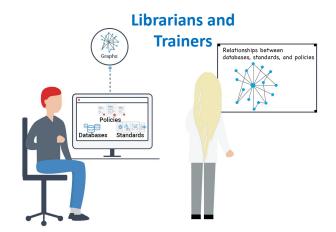
Guides *consumers* to *discover*, *select* and *use*these resources with confidence
Helps *producers* to make their resources more *visible*, more widely *adopted* and *cited*

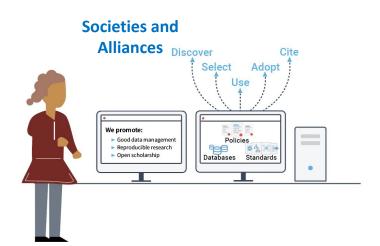
Users from academic, governmental and industry sectors







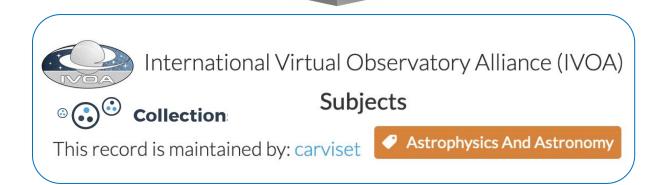






Organisations: collections provide tailored views

Many groups and projects have created **Collections**



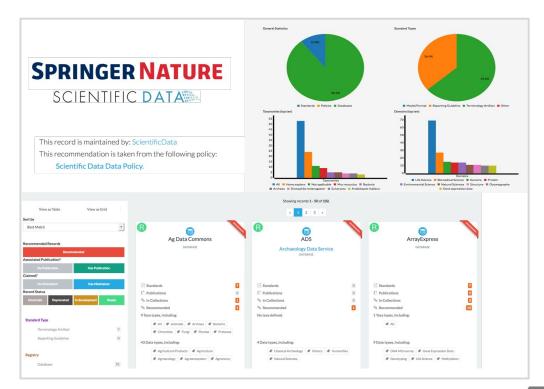
URL: fairsharing.org/collection/IVOA

EXAMPLES

These are are branded pages that group selected **standards** (and/or repositories) relevant to their community and/or developed by them



Publishing industry: policies registration and dashboards



Scholarly publishers use FAIRsharing to:

- list standards and repositories they recommend in their data policy,
- discover new resources and monitor
 their evolution to refine or update
 their policies

EXAMPLES

















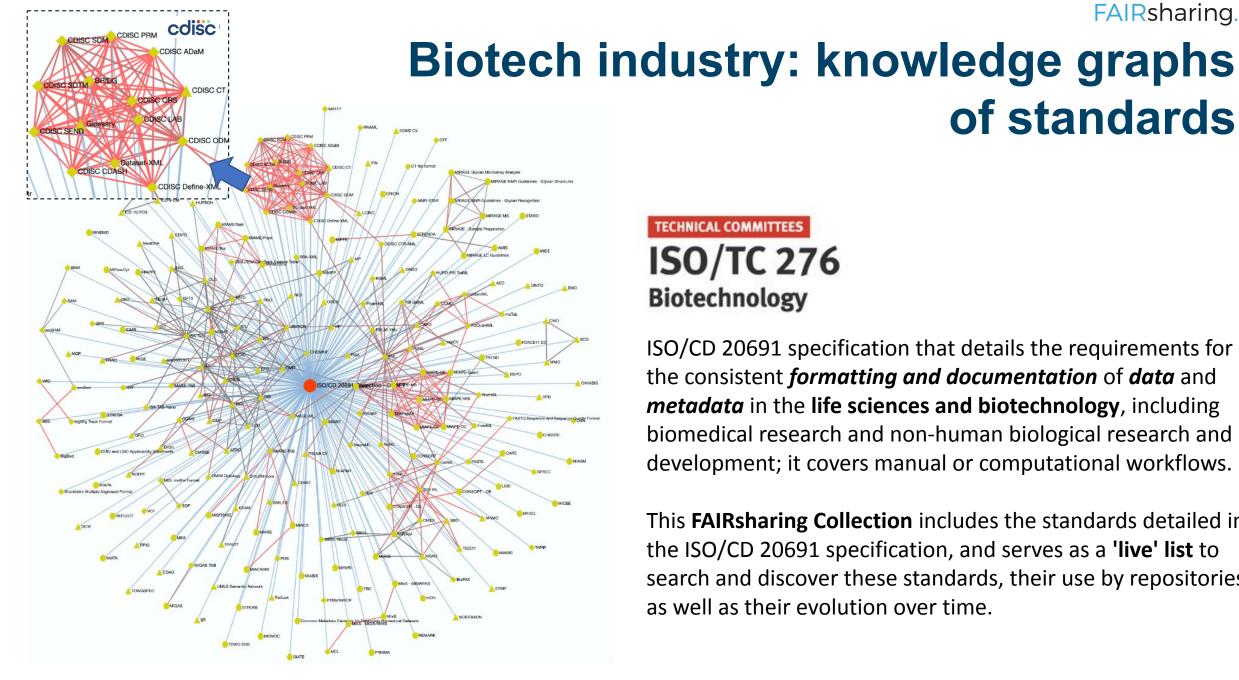








of standards



TECHNICAL COMMITTEES ISO/TC 276 Biotechnology

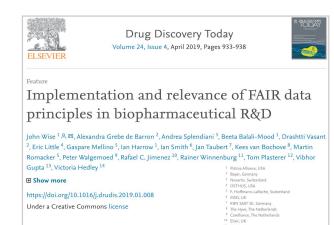
ISO/CD 20691 specification that details the requirements for the consistent *formatting and documentation* of *data* and metadata in the life sciences and biotechnology, including biomedical research and non-human biological research and development; it covers manual or computational workflows.

This **FAIRsharing Collection** includes the standards detailed in the ISO/CD 20691 specification, and serves as a 'live' list to search and discover these standards, their use by repositories, as well as their evolution over time.

Life Sciences R&D companies: semantic and syntactic standards



- Pistoia Alliance is a not-for-profit organisation of over 100
 Life Science R&D companies, including major pharmas and service providers
 - Working on pre-competitive projects on best practices and technology challenges, including data FAIRness
- FAIRsharing and the Pistoia Alliance's FAIR Implementation
 WG are working to create Collections of companies' profiles,
 with respect to the standards they use
- The FAIRsharing "Pistoia Alliance Collections" will help with comparing and discussing standards practices within industry







Services: curated content to power FAIR-enabling other tools and services

A growing number of **services** for:

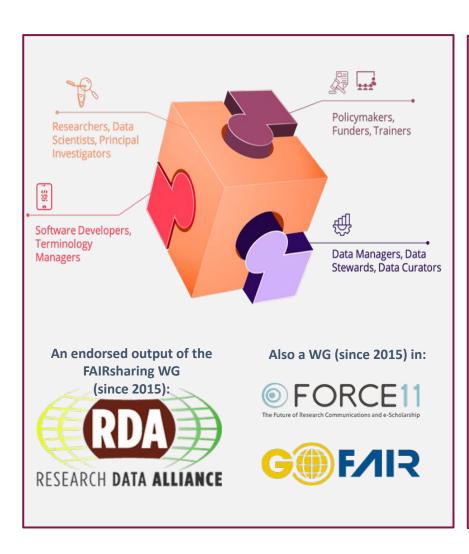
- data management plans
- data stewardship
- metadata aggregation
- FAIR assessment

access FAIRsharing, via its API, and use it as

look-up and select service for (metadata and information on) standards and repositories



Users, adopters, communities and working groups













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https://w3id.org/faircookbook





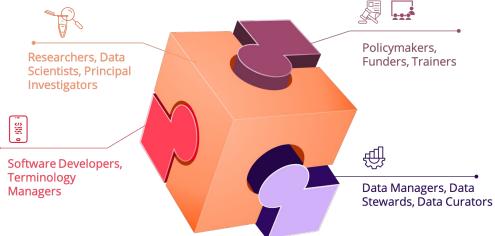
FAIR Cookbook: turning knowledge into recipes

What is it?

An online, 'live' resource for the life sciences

A collection of recipes that cover the operation steps of FAIR data management

Who is it for?



Who developed it?

Researchers and data managers professionals in the life sciences, from academia and industry Including ELIXIR members

https://fairplus.github.io/the-fair-cookbook

FAIRcookbook









FAIR Cookbook: creators and contributors

+50 life sciences professionals, researchers and data managers

























































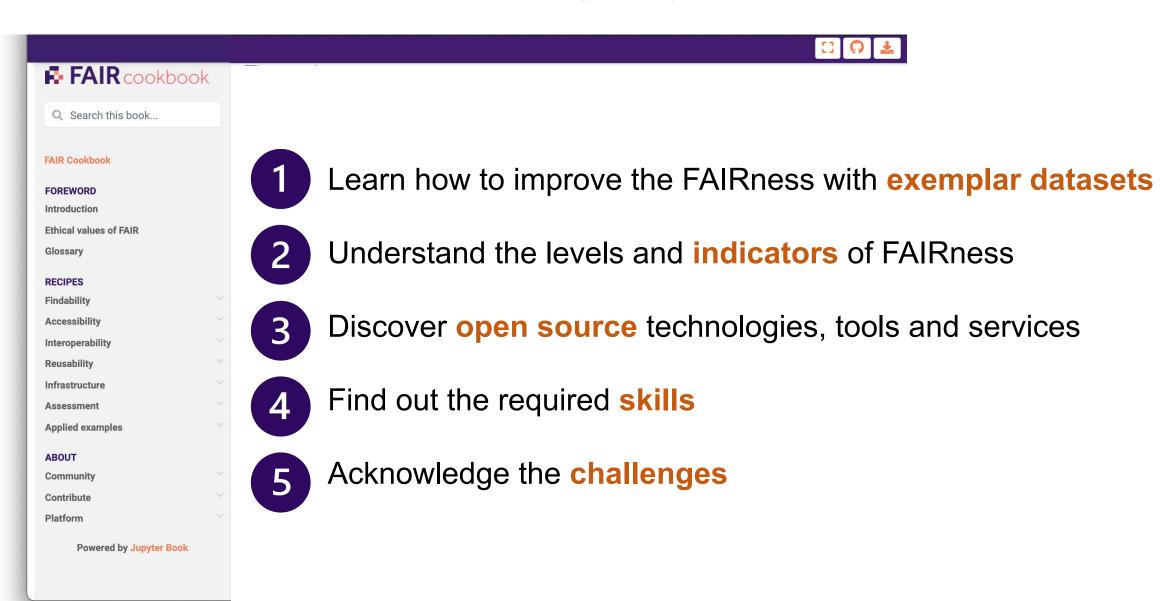






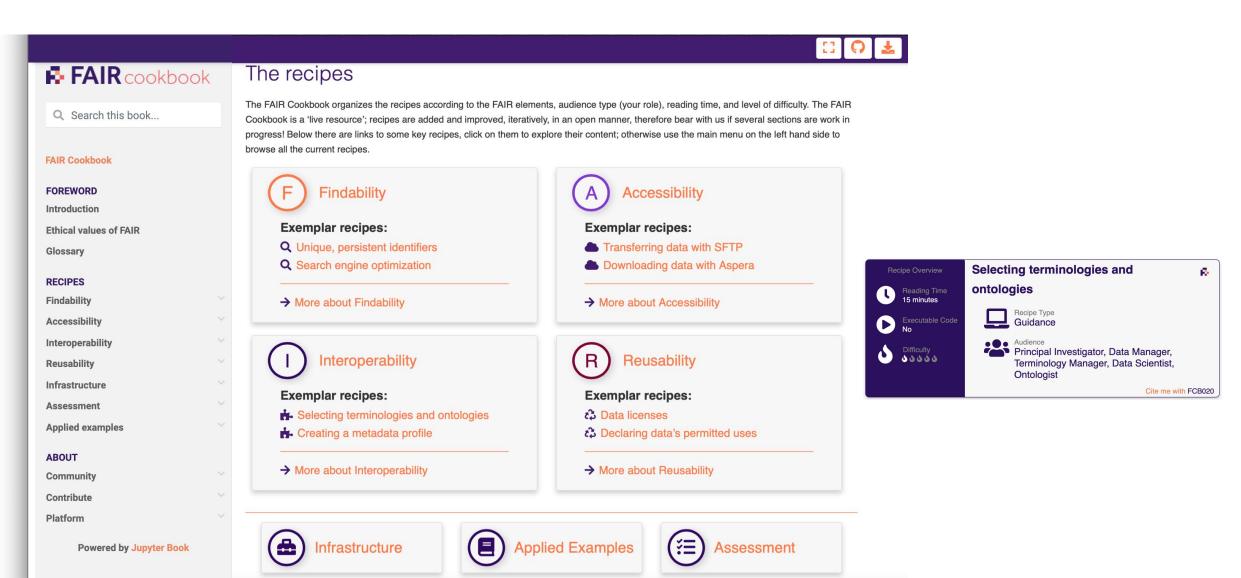


FAIR Cookbook: learning objectives



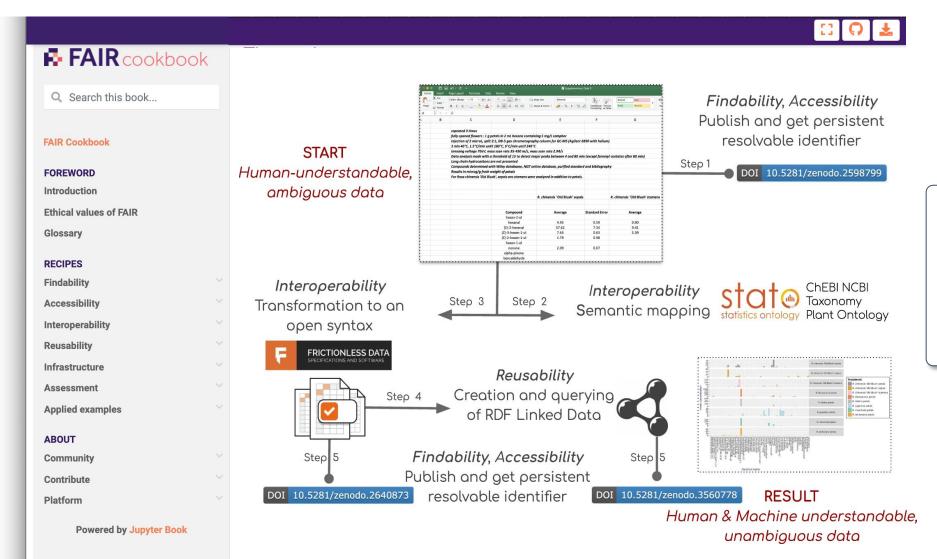


Recipes that cover all aspects of FAIRness





Applied examples: these are key!



Comment Open Access Published: 12 December 2019

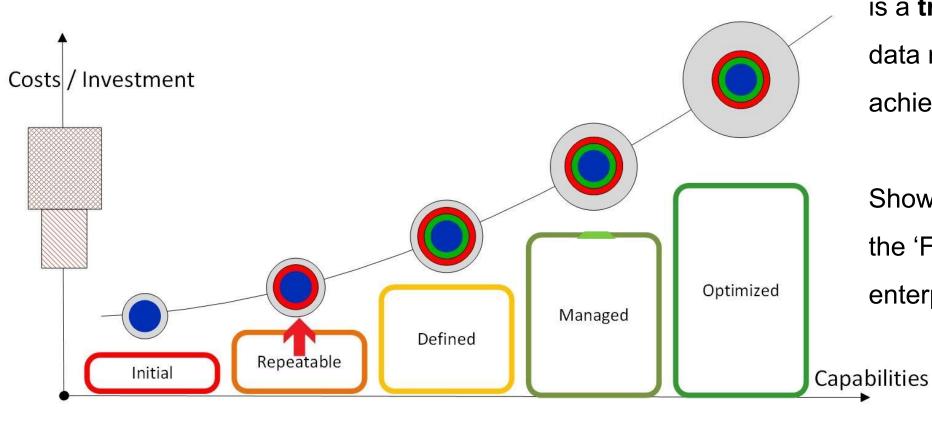
Experiment design driven FAIRification of omics data matrices, an exemplar

Scientific Data 6, Article number: 271 (2019) | Cite this article

https://doi.org/10.1038/s41597-019-0286-0



The capability maturity model

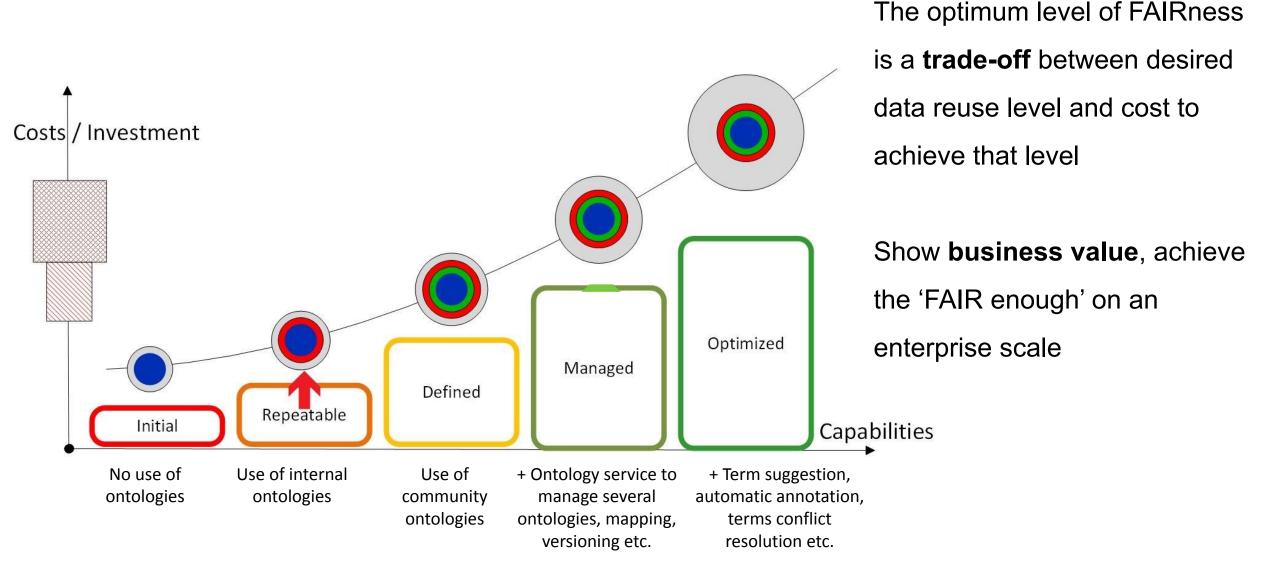


The optimum level of FAIRness is a **trade-off** between desired data reuse level and cost to achieve that level

Show **business value**, achieve the 'FAIR enough' on an enterprise scale



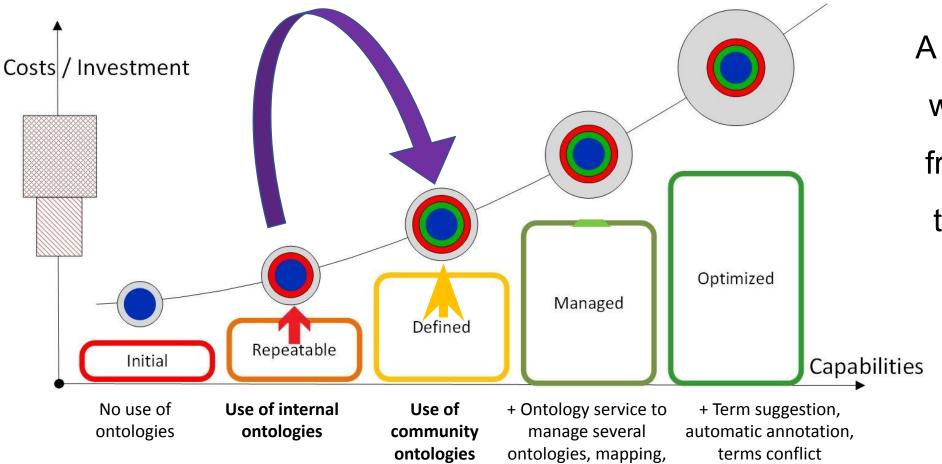
The capability maturity model - the ontology example



The capability maturity model - the ontology example

FAIR cookbook

How to build application ontology



versioning etc.

resolution etc.

A dedicated recipe
will help to move
from Repeatable
to Defined level

Included in the next version =>







adopt it

IMI2 project guidelines for open access to publications and research data

IMI reference: IMI2/OUT/2018-07040

Start using the FAIR Cookbook

Help us to help you, this is a user-oriented 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

A live ever-growing resource: become part of a community of FAIR experts!

| Identify a chapter and a topic |
| Findability | Accessibility | Interoperability | Reusability |
| Infrastructure | Applied examples | Assessment |

Submit an outline You can discuss it with the **Editorial Board**

Choose a way of contributing and see our guidelines

Google Docs

HackMD

HackMD

Markdown cheat sheet

Git ogit GitHub

Tips and tricks





EVENTS

BioHackathon Europe

ELIXIR Hub Code of Conduct for events

ELIXIR online events guidelines

FAIR Cookbook

Wed 26 May 2021, 14:00 CEST



» View the slides

FAIR Cookbook webinar
The audience

67% attendance rate 420 registrants

Data stewards, data managers and data curators
Researchers, data scientists and principal investig.
Software developers and terminology managers
Industry—other field
I

elixir-europe.org/events/fairplus-webinar-discovering-fair-cookbook