WG Exposing Data Management Plans - RDA 13th Plenary meeting

https://rd-alliance.org/wg-exposing-data-management-plans-rda-13th-plenary-meeting-0

Collaborative session notes: https://docs.google.com/document/d/1bRQyKTKBTTyc8HxbZRjvtcvif3S6Nc_IHW892ijiiR8/edit

The FAIR Funder Pilot

Erik Schultes, PhD
International Science Coordinator
GO FAIR International Support and Coordination Office
erik.schultes@go-fair.org
go-fair.org

References for The FAIR Funder Pilot

- **On Arxiv** https://arxiv.org/abs/1902.11162
- **On the OSF** https://osf.io/hyvfs/
- **M4M Workshops** https://www.go-fair.org/resources/go-fair-workshop-series/metadata-for-machines-workshops/
- **The DS Wizard** https://ds-wizard.org

From the WG webpage:
https://rd-alliance.org/wg-exposing-data-management-plans-rda-13th-plenary-meeting-0

Implementation and adoption is currently hampered by two problems:

- A lack of **standards** for expression and interchange of DMPs
- **Insufficient understanding** of the needs of users and the benefits and risks of different modes of action

Plenary 11 established a focus for the WG efforts to catalogue … use cases in two areas;

- Integration: connecting DMP processes into the **research workflows** involved in implementing the plan
- Evaluation: use cases for researchers, institutions and funders to **review** DMPs and their outcomes

The FAIR Funder

Funders widely endorse:
(1) DM and DS planing
(2) FAIR research outputs

However, both objectives require advanced skills, usually lacking for both *Funder* and *Grantee*.

Hence, it is typically difficult for the funder to require FAIR data stewardship planing, and likewise difficult for the grantee to comply.

The FAIR Funder

Participation:

- **Open**
- **Voluntary (GO FAIR Rules of Engagement)**
  - **Commitment to FAIR Principles** Sci. Data 3:160018 doi: 10.1038/sdata.2016.18 (2016)
  - **Commitment to “no vendor lockin”**

Cornell University

We gratefully acknowledge support from
the Simons Foundation and member institutions.

arXiv.org > cs > arXiv:1902.11162

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Computer Science > Digital Libraries

The FAIR Funder pilot programme to make it easy for funders to require and for grantees to produce FAIR Data

P. Wittenburg, H. Pergl Sustkova, A. Montesanti, S. M. Bloemers, S. H. de Waard, M. A. Musen, J. B. Graybeal, K. M. Hettne, A. Jacobsen, R. Pergl, R. W. W. Hooft, C. Staiger, C. W. G. van Gelder, S. L. Knijnenburg, A.C. van Arkel, B. Meerman, M. D. Wilkinson, S-A Sansone, P. Rocca-Serra, P. McQuilton, A. N. Gonzalez-Beltran, G. J. C. Aben, P. Henning, S. Alencar, C. Ribeiro, C. R. L. Silva, L. Sayao, L. Sales, V. Veiga, J. Lima, S. Dib, P. Xavier, R. Murtinho, J. Tendel, B. F. Schaap, P. M. Brouwer, A. K. Gavai, Y. Bouzembrak, H. J. P. Marvin, A. Mons, T. Kuhn, A. A. Gambardella, R. de Miranda Azevedo, V. Muhonen, M. van der Naald, N. W. Smit, M. J. Buys, T. F. de Bruin, F. Schoots, H. J. E. Goodson, H. S. Rzepa, K. G. Jeffery, H. P. Shanahan, M. Axton, V. Tkachenko, A. D. Maya, N. K. Meyers, M. Conlon, L. L. Haak, E. A. Schultes

(Submitted on 26 Feb 2019 (v1), last revised 6 Mar 2019 (this version, v2))

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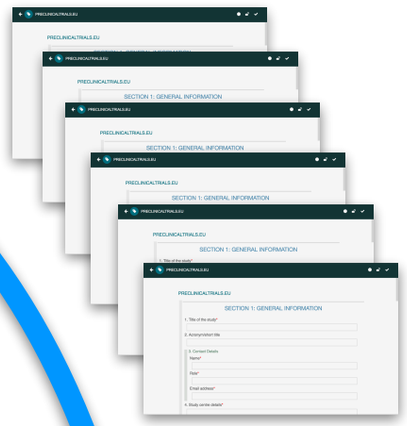
Metadata Experts

CEDAR

FAIRsharing.org
standards, databases, policies

(1)



FAIR Funders

HRB Health Research Board

ZonMw

DS Plan

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(3)

DSW
DATA STEWARDSHIP WIZARD

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FDP

(6)

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Purple Polar Bear

GO FAIR Foundation

Funders *receive* FAIR Matu evaluation certificates.

Funders *receive* approval of FAIR DS Plan from research institution data stewards.

The FAIR Funder Components: https://www.hrb.ie
The FAIR Funder Components: https://www.zonmw.nl/nl/

- Long history of DMP/ DSP
- Moving toward FAIR maturity indicators

- History of Open Science
- FAIR DS Training
- Moving toward 5% project funding, eligable for FAIR DS

The FAIR Funder Components: https://www.hrb.ie
The FAIR Funder Components: https://www.zonmw.nl/nl/

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JUN
25

Data FAIRification for Data Stewards

by Phortos Consultants

€1,875.50

TICKETS

DESCRIPTION

Data FAIRification for Data Stewards

Co-funded by the Irish Health Research Board and in collaboration with the GO FAIR Foundation

Provided by Phortos Consultants

IMPORTANT NOTE: this course will have a maximum of 18 participants; 14 seats have already been taken so there are only 4 tickets left.

Introduction

FAIR Data is data that is Findable, Accessible, Interoperable and Reusable by computers. This

DATE AND TIME

Mon, Jun 25, 2018, 9:30 AM –
Fri, Jun 29, 2018, 4:00 PM CEST
Add to Calendar

LOCATION

Poortgebouw
10 Rijnsburgerweg
2333 AA Leiden
View Map

The FAIR Funder Components: https://www.go-fair.org/resources/go-fair-workshop-series/metadata-for-machines-workshops/

Metadata for Machines Workshops

There is no FAIR Data without machine-actionable metadata

Resources

- RDM Starter Kit
- GO FAIR Materials
- GO FAIR Workshop Series
  - Metadata for Machines Workshops
  - Germany goes FAIR Workshops
- Papers & Publications
- Videos
- Certification
- Glossary
- FAQ

Making it easy for humans to make metadata for machines

Machine-actionable metadata are core to the FAIR Principles. GO FAIR and RDA members have launched the "Metadata for Machines" workshop series (M4M) to assess the state of metadata practices in data-related communities and stimulate the creation and re-use of FAIR metadata standards and machine-ready metadata templates (definitions of metadata categories).

The M4M workshops are agile, hackathon-style events that bring together domain experts with metadata and technical specialists to accomplish 5 objectives:

1. Assess the state of metadata practices in the various scientific communities, look for improvements of the current fragmentation and promote good FAIR compliant practices.
2. Using the FAIR principles as a guide, define essential metadata elements and standards to support F, A, I, and R by machines, drawing on the deep domain knowledge of existing communities.
3. Formulate these decisions as machine-actionable templates in a unified way;

Metadata for Machines Workshops

The FAIR Funder Components: https://preclinicaltrials.eu

PRECLINICALTRIALS.EU

International register of preclinical trial protocols

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Join

to create a user account

Preclinicaltrials aims to provide a comprehensive listing of preclinical animal study protocols.

Preferably registered at inception in order to **increase transparency**, help **avoid duplication**, and **reduce the risk of reporting bias** by enabling comparison of the completed study with what was planned in the protocol.

Registration of your study requires you to create an account that is

- Anonymous
- Free of charge
- Has an optional embargo period

This register is web-based, open to all types of animal studies and freely accessible and searchable to all with a preclinicaltrials.eu account.

The **registration form** is designed by experts on preclinical animal studies and preclinical evidence synthesis.

Please **join** us and create an user account, this will provide access to the database and enables you to register your preclinical trial.

Contact us
at info@preclinicaltrials.eu.

Metadata for Machines Workshops

The FAIR Funder Components: https://preclinicaltrials.eu

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Please join us and create an user account, this will provide access to the database and enables you to register your preclinical trial.

Contact us
at info@preclinicaltrials.eu.

PRECLINICALTRIALS.EU

Section 1. General information

1. * Title of the study
Enter the full title of the study

2. Acronym/short title
Enter optional acronym/short title for the study

3. * Contact details
Give the name of the main administrative contact for the study

Name

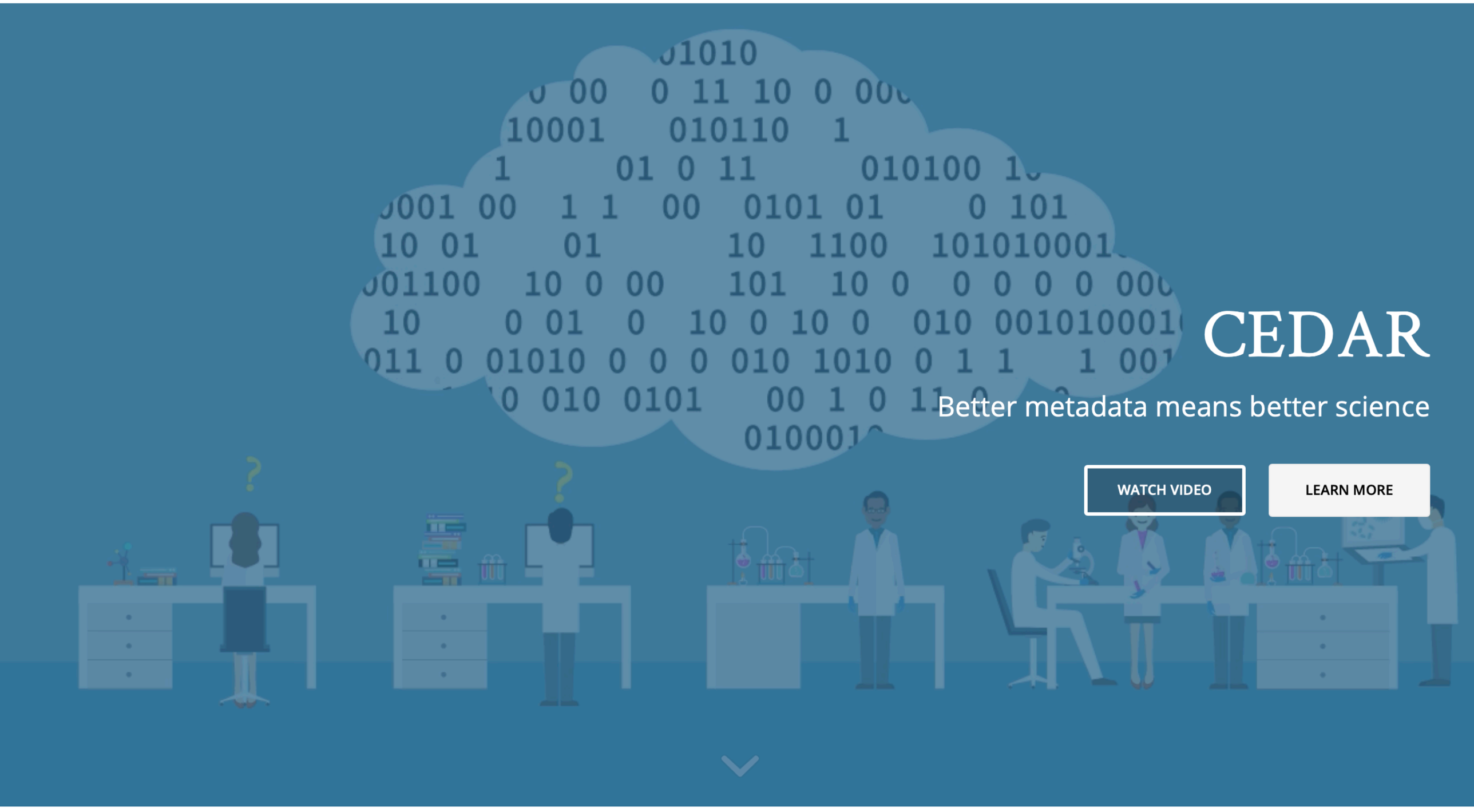
Role
What is the role the main contact in the study (e.g. executive researcher, research group supervisor)?

Email address
Provide the email address of the main contact

4. * Study centre details
Give the details of the institutions where the experiments will be undertaken. Add additional lines if there is more

Metadata for Machines Workshops

The FAIR Funder Components: https://metadatacenter.org/#about



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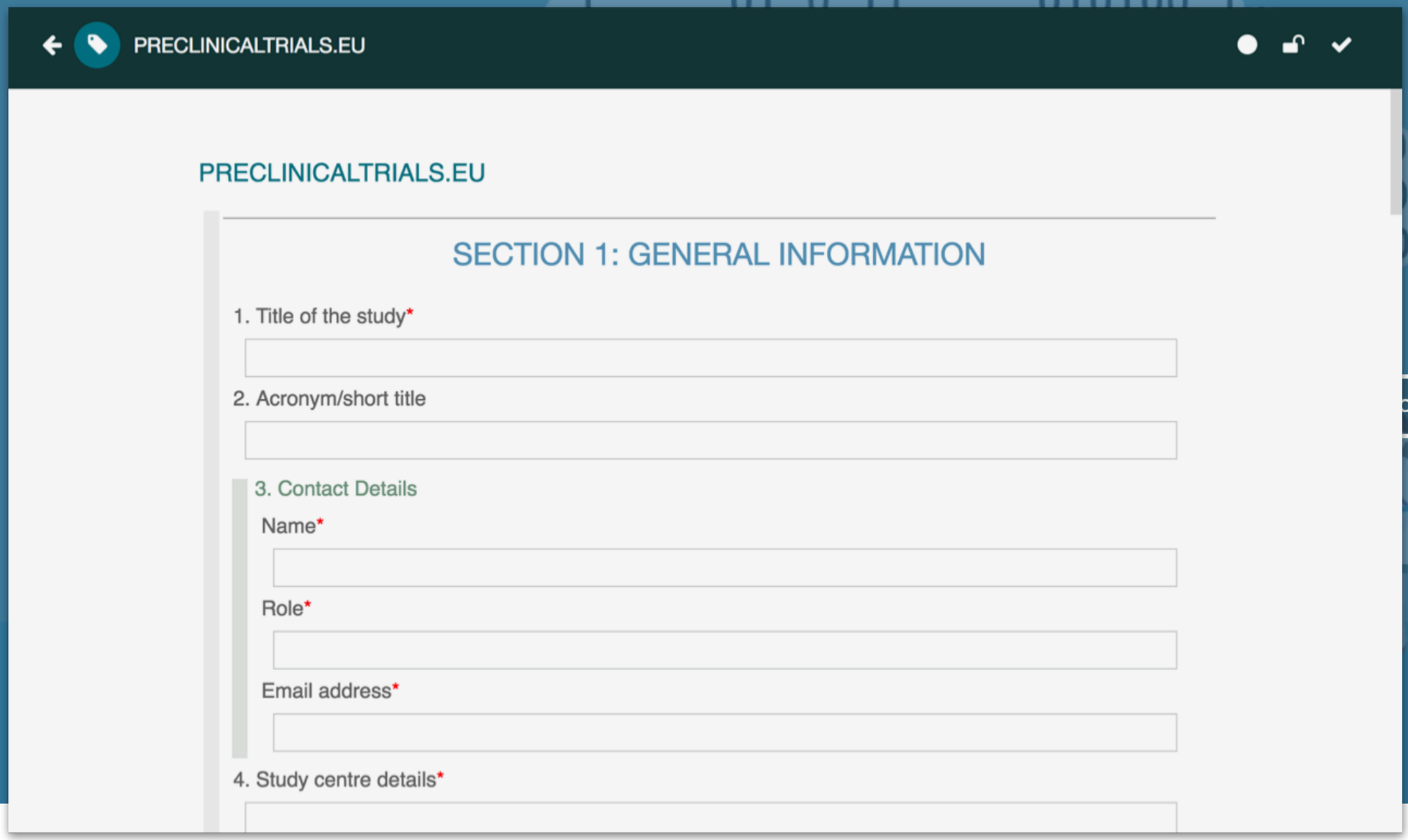

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means better science

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LEARN MORE

Metadata for Machines Workshops

The FAIR Funder Components: https://fairsharing.org

FAIRsharing.org
standards, databases, policies

Search all of FAIRsharing | Standards | Databases | Policies | Collections | Add/Claim Content | Stats | Log in or Register

A curated, informative and educational resource on data and metadata *standards*, inter-related to *databases* and data *policies*.

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The FAIR Funder Components: https://www.go-fair.org/resources/go-fair-workshop-series/metadata-for-machines-workshops/

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Metadata templates

- **community standards**
- **machine-actionable**
- **registered/reusable**

The FAIR Funder Components: https://ds-wizard.org

Go to App

DSW

DATA STEWARDSHIP WIZARD

Smart Data Management Plans for FAIR Open Science
For Serious Researchers and Data Stewards

Robert Pergl

The FAIR Funder Components: https://ds-wizard.org

ELIXIR Data Stewardship Knowledge Model

https://github.com/DataStewardshipWizard/ds-km

4 m

Rob Hooft

DTL | DUTCH TECHCENTRE FOR LIFE SCIENCES

- Data cycle step 1: Design of experiments
  - existing data
  - 1/81. Will you use any data that needs to be made computer readable first?
    - Any such data needs to be made available to others too.
  - 20. (1.11) What/how/who will integrate existing data
    - 21. (1.11.1) Will you need to add data from literature?
      - 22. (1.11.2) Text mining?
    - 23. (1.11.2) Do you need integrate or to link to a different type of data?
      - 24. (del) Does that need a project plan?
      - 25. What will you do if the coupled data is updated?
      - 26. What will you do if the format is changed?
      - 27. Are conversions needed?
      - 28. Link or Join?
        - Allowed?
  - LS1/42. Will you couple existing (biobanks) data sets?
    - LS1/43. Will you use deterministic couplings?
    - LS1/49 Will you use probabilistic couplings?
    - LS1/44. Will you be using a ttp? What is the procedure followed? Where will what data be sent? Did a legal advisor look at these?
    - LS1/45. Is consent available for the coupling?
    - LS1/46. How will you check whether coupled data are representative of your goal population?
    - LS1/47. What is the goal of the coupling: more data about the same subjects (intersection, enrichment) or getting more subjects (Union)?
    - LS1/48. What variable(s) will you use for coupling?
    - Will the coupling potentially create new privacy issues (e.g. Potential for re-identification or making personal information more sensitive, such as adding location data)?
      - Verify that you have permission for such coupling.
  - Reference data
    - 1/29. (1.12) Will reference data be created?
      - 1/30. (1.12.1) What will the IP be like?
      - 1/31. (1.12.2) How will you maintain it?
      - 1/32. (1.12.3) How will the release schedule be?
    - For use of reference data, see branch in existing data
  - 1/33. (1.13) Will you be storing samples?
    - 34. (1.13.1) Where will information about samples be stored? Biobank information system.
      - A34-1. (del) Will you start a new collection?
        - 35. (del) How will you make sure your biobank will be properly represented in relevant Catalogues
      - A34-2. (1.13.2) Will your data and samples be added to an existing collection?
        - 36. (del) Do you consult the owners of the biobank?
        - 37. (del) Does the biobank adhere to the FAIR principles?
    - For questionnaires see “experimental data”
  - (del) Will you be using questionnaires?
    - Use building blocks?
    - Are you collecting nutrition data?
      - Will you be using a food frequency questionnaire?

The FAIR Funder Components: https://ds-wizard.org

DSW | Erik Schultes (Common ELIXIR Knowledge Model, 1.0.0) | Save

Current Phase

Before Submitting the Proposal

- Design of experiment ✓
- Data design and planning ✓
- Data Capture/Measurement ✓
- Data processing and curation ✓
- Data integration ✓
- Data interpretation ✓
- Information and insight ✓

Summary Report

ES

Design of experiment

Before you decide to embark on any new study, it is nowadays good practice to consider all options to keep the data generation part of your study as limited as possible. It is not because we can generate massive amounts of data that we always need to do so. Creating data with public money is bringing with it the responsibility to treat those data well and (if potentially useful) make them available for re-use by others.

Is there any pre-existing data?

Are there any data sets available in the world that are relevant to your planned research?

☑ Desirable: *Before Submitting the DMP*

Data Stewardship for Open Science: *atq*

- ○ No
- ○ Yes

Will reference data be created?

Will any of the data that you will be creating form a reference data set for future research (by others)?

☑ Desirable: *Before Submitting the DMP*

Data Stewardship for Open Science: *rbz*

- ○ No
- ○ Yes

Will you be storing samples?

☑ Desirable: *Before Submitting the DMP*

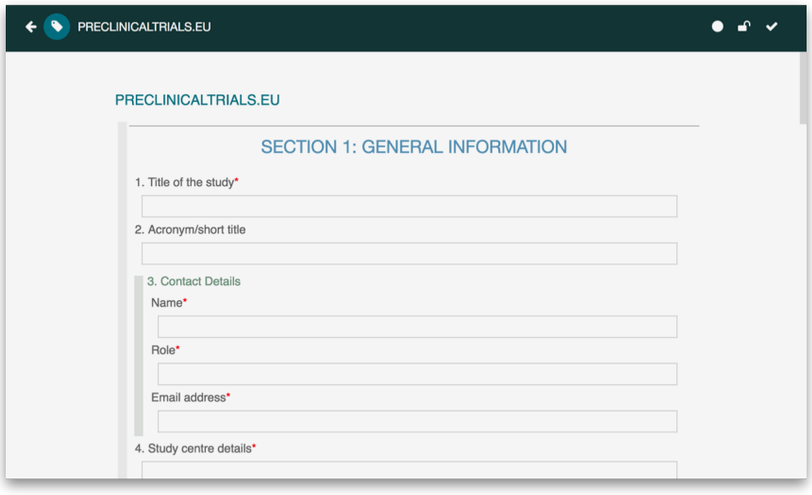
Data Stewardship for Open Science: *kuz*

The FAIR Funder Components: https://ds-wizard.org

Can be localized by:
- Research Community
- Organization
- Policy / Legal Requirements
- Funding Requirements

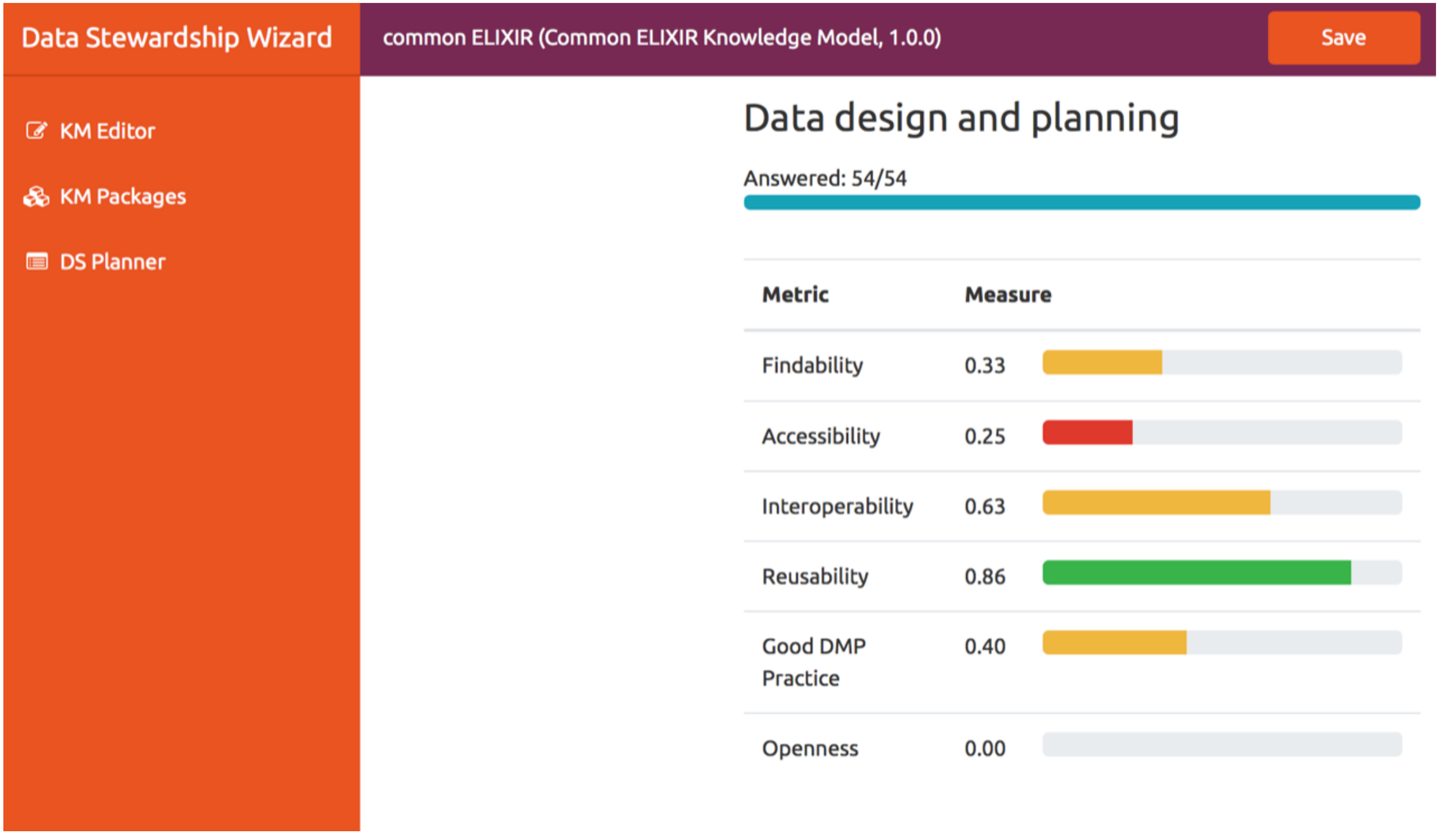
DSW
DATA STEWARDSHIP WIZARD

- **Open Source**
- **Machine-readable**
- **Customizable knowledge model & DM templates**
- **Customizable output formats for humans**
- **Links & tooling can be embedded**



The FAIR Funder Components: https://ds-wizard.org

DS Wizard + FAIR Metrics Hackathon July 2-4 2018



The FAIR Funder Components: https://ds-wizard.org

DS Wizard + FAIR Me

Data Stewardship Wizard

common EL

- KM Editor
- KM Packages
- DS Planner

GO FAIR

Events

The FAIR Wizard of Science Europe

Jan 17 2019

The Data Stewardship Plan – those manifold decisions required to achieve FAIR data – has been identified as a fulcrum enabling the adaption of FAIR best practices among data producers. It is this “Data Stewardship Moment” where technology and standards, the researcher, the publisher, and the funder come together, driving infrastructure developments leading to an Internet of FAIR Data and Services. In this workshop / hackathon, the development team of the Data Stewardship Wizard (**https://ds-wizard.org**)and representatives of the Science Europe **Initiative for the Alignment of Research Data Management Policies** will work together to help align the DS Wizard knowledge model with the Science Europe template. The goal for the workshop is an Open Source, machine-actionable data stewardship planning tool exploiting the consensus recommendations of Science Europe.

The FAIR Funder Components: https://www.castoredc.com

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The FAIR Funder Components: https://github.com/DTL-FAIRData/FAIRDataPoint/wiki/FAIR-Data-Point-Specification

FAIR Data Point Specification

kburger edited this page on Oct 22, 2018 · 22 revisions

The specification moved to a separate repository at https://github.com/DTL-FAIRData/FAIRDataPoint-Spec/. This page is considered an archived version.

Introduction

Purpose

The purpose of this document is to specify the FAIR Data Point (FDP) software. This document includes requirements, architecture and design of the FDP software. This specification is primarily intended to be a reference for developing the first version of the FDP software by the DTL FAIR engineering team.

Pages 4

Find a Page...

Home

Active FAIRDataPoints

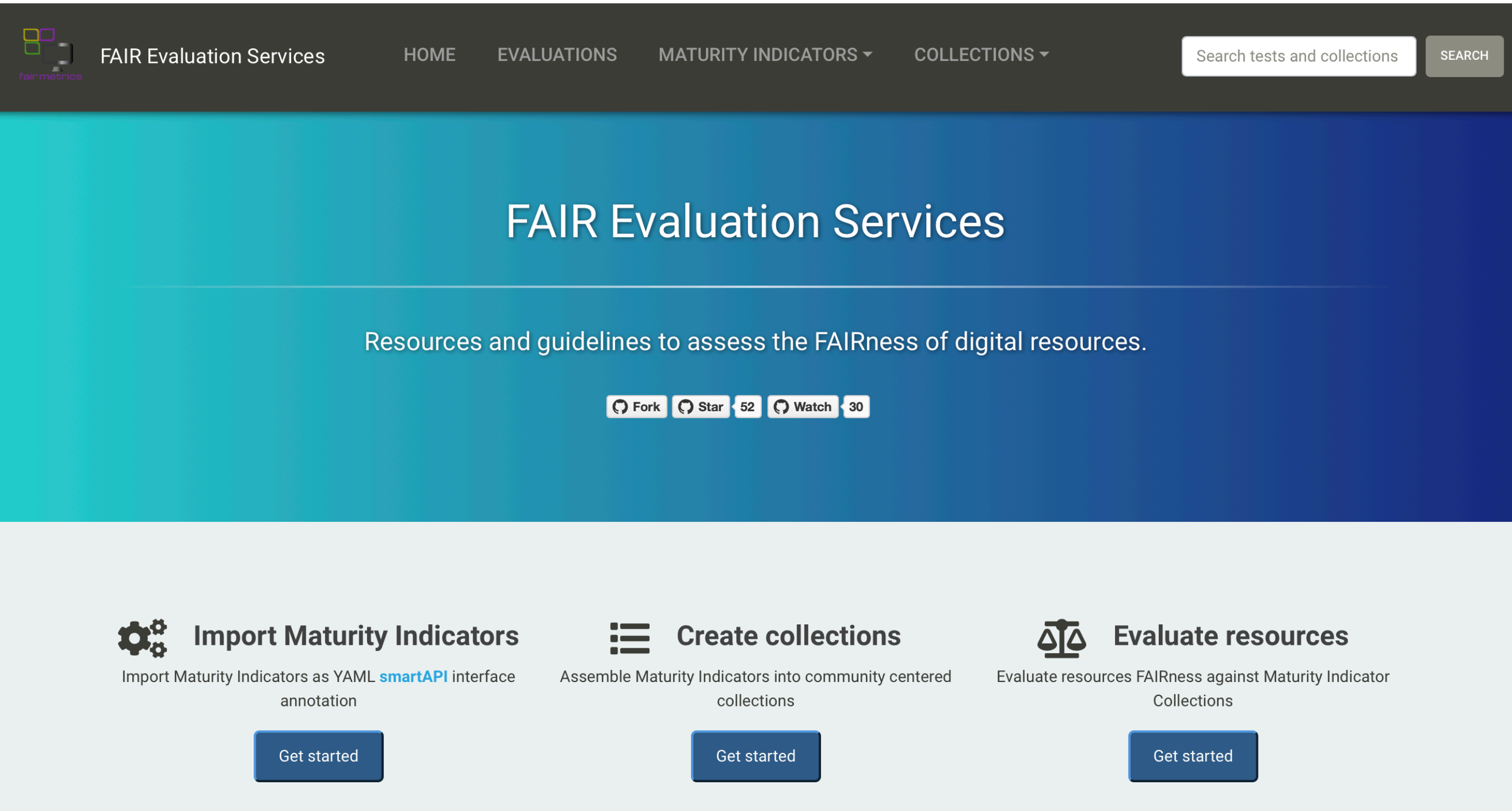
Configuration

FAIR Data Point Specification

Clone this wiki locally

https://github.com/DTL-FA

The FAIR Funder Components: https://terazus.github.io/FAIR-Maturity-FrontEnd/#!/



RDA / GEDE Webinar on Maturity Indicators for FAIRness and Certification of Repositories
22 March 2019
https://www.rd-alliance.org/gede-webinar-maturity-indicators-fairness-and-certification-repositories

The FAIR Funder Components: https://gofairfoundation.org

The FAIR Funder Components: https://fairbearservices.com

GO FAIR FOUNDATION supports
Internet of FAIR Data & Services

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Purple Polar Bears

The Software partner for the FAIR Community.

- Empowered by Purple Polar Bear

Looking to be FAIR? Fair Bear Services can help you with custom, open source and off the shelf data management solutions.

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Personal Health Train

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CEDAR

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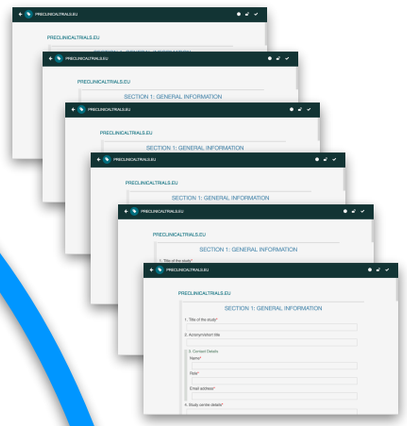

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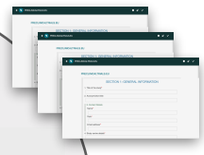

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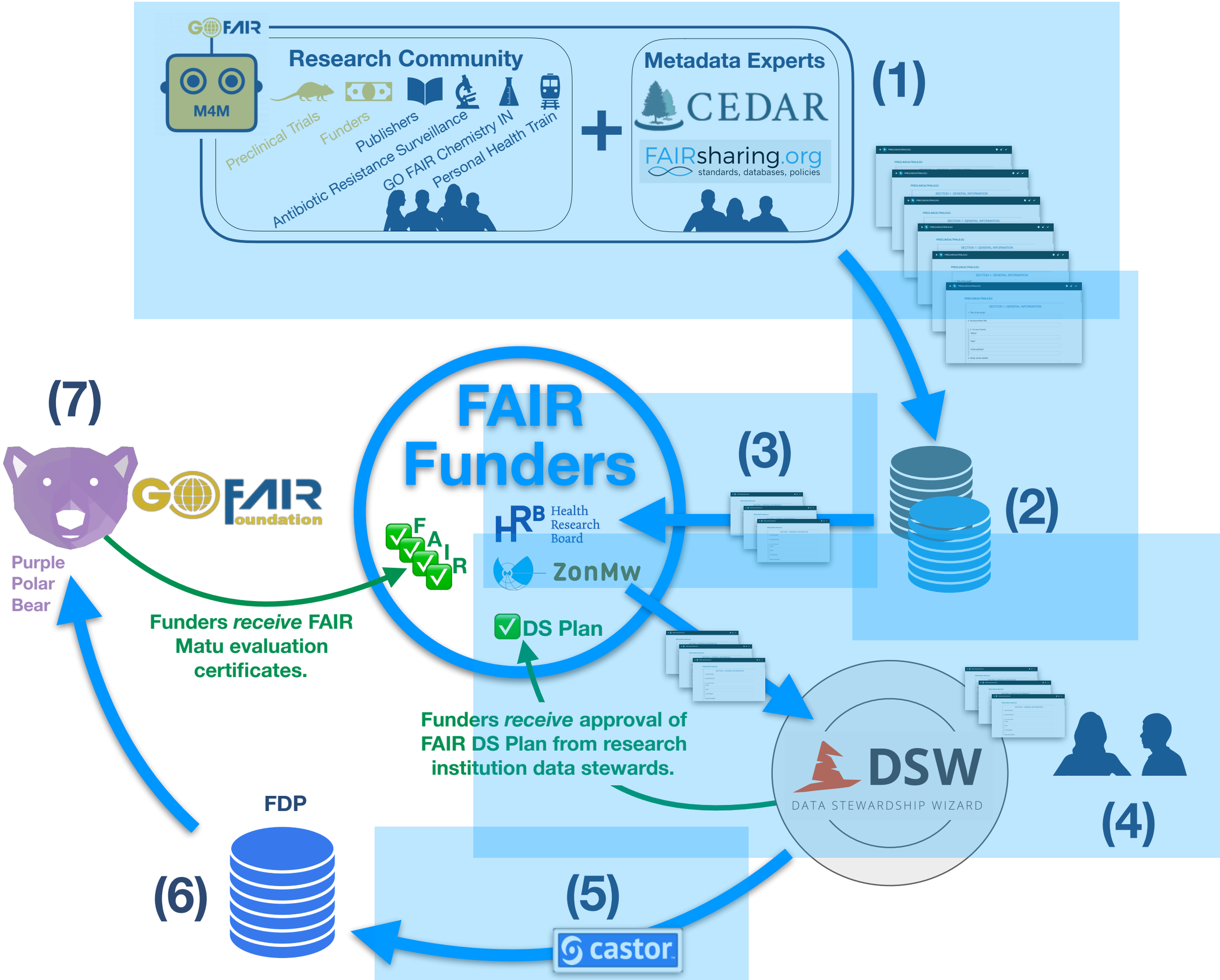

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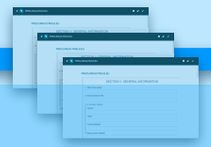


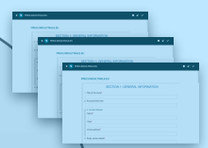
HRB Health Research Board

ZonMw

DS Plan

Funders *receive* approval of FAIR DS Plan from research institution data stewards.

DSW
DATA STEWARDSHIP WIZARD



(4)

(5)

castor

FDP

(6)

(7)

GO FAIR foundation

Purple Polar Bear

Funders *receive* FAIR Matu evaluation certificates.

Next Steps…

FAIR Funder Conference

September 2019
Leiden

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