

FAIR Data Week: F for Findable

DR Renat Shigapov
Data Science Consultant in FDZ
30.05.2023

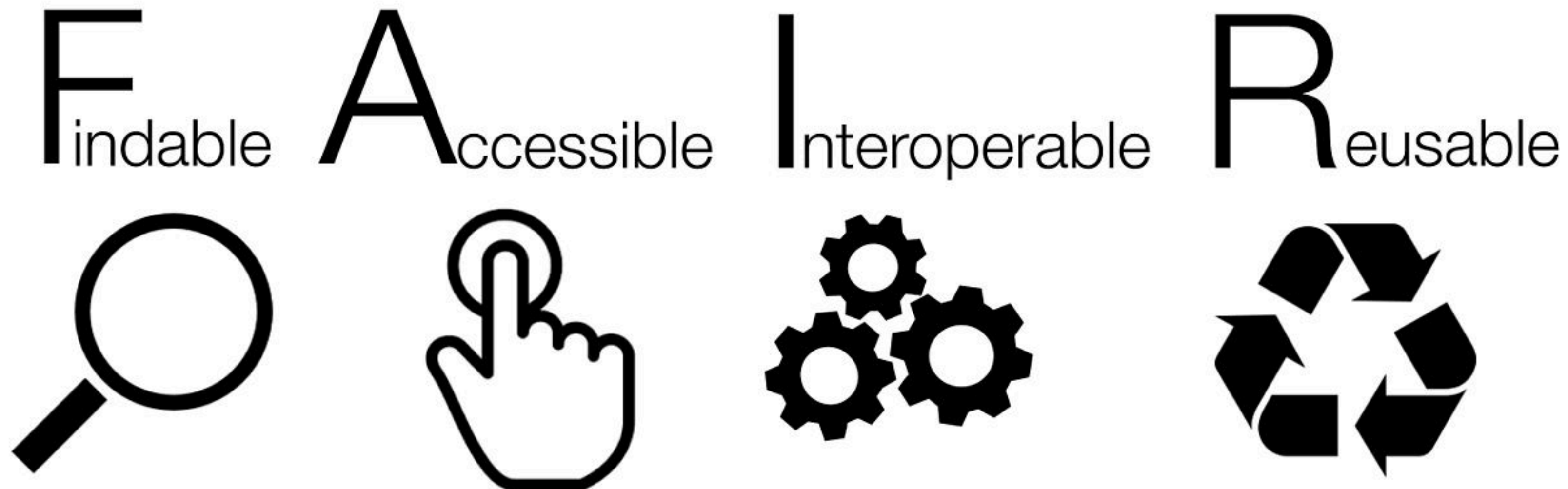


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A BIT OF METADATA FOR FAIR DATA WEEK

- Course goal: Understanding the FAIR guiding principles for scientific data management (see <https://doi.org/10.1038/sdata.2016.18>), and why & how to follow them
- Target group: Everyone working with data & willing to share (meta)data FAIRly
- Structure: four 15 min. talks for F, A, I & R + 5 min. Q&A



THE FAIR PRINCIPLES EMPHASISE MACHINE-ACTIONABILITY

Both humans and machines should be able to find, access,
interoperate (with) and reuse both data and metadata

Data is any digital object

Metadata is information about that digital object

< > ↺ ☰ 🔒 madata.bib.uni-mannheim.de/410/1/AFC%20Ad

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DataFile.Basename;Experiment;Subject;Gender;OUT;Participant;Prti  
ialList4;Marke2;Clipsmarke;TrialList3;Stimreihe;Stimulus;Sector;  
brandgut1.RESP;brandpial.RESP;brandpib1.RESP;bekannt2.RESP;brand  
ESP;brandpib2.RESP;bekannt_video;Val_video;Aro_video;gefällt_vid  
ideo;surprise_video;BrandLikePre;BrandPIPre;AdLike;BrandLikePost  
n_Quality_B;Mean_Quality_C;Mean_Quality_D;Mean_Quality_E;Mean_Qu  
ean_Happy_B;Mean_Happy_C;Mean_Happy_D;Mean_Happy_E;Mean_Happy_F;  
gry_E;Max_Angry_F;Mean_Sad_A;Mean_Sad_B;Mean_Sad_C;Mean_Sad_D;Me  
D;Mean_Angry_E;Mean_Angry_F;Max_Boredom_A;Max_Boredom_D;Max_Bore  
Boredom_D;Mean_Boredom_E;Mean_Boredom_F;Max_Confusion_A;Max_Conf  
Max_Contempt_E;Max_Contempt_F;Mean_Confusion_A;Mean_Confusion_B;  
an_Contempt_A;Mean_Contempt_B;Mean_Contempt_C;Mean_Contempt_D;Me  
tRate_E;Max_HeartRate_F;Max_Disgusted_A;Max_Disgusted_D;Max_Disg  
te_C;Mean_HeartRate_D;Mean_HeartRate_E;Mean_HeartRate_F;Mean_Dis  
sted_E;Mean_Disgusted_F;Max_Interest_A;Max_Interest_D;Max_Intere  
F;Mean_Interest_A;Mean_Interest_B;Mean_Interest_C;Mean_Interest_  
red_C;Mean_Scared_D;Mean_Scared_E;Mean_Scared_F;Max_Valence_A;Ma  
D;Max_Surprised_E;Max_Surprised_F;Mean_Valence_A;Mean_Valence_B;
```

madata.bib.uni-mannheim.de/410/

🔖 📷 🔒 ➤ ↺

[DATA] Automatic Facial Coding Predicts Emotional Response, Advertisement, and Branding Effects of Video Commercials

Item Type:	Dataset
Title:	[DATA] Automatic Facial Coding Predicts Emotional Response, Advertisement, and Branding Effects of Video Commercials
Date:	30 January 2023
Creator :	Höfling, Tim
Divisions:	Außerfakultäre Einrichtungen > Otto-Selz-Institut für Angewandte Psychologie (OSI)
DDC Classification:	500 Science
Abstract:	[DATA] Automatic Facial Coding Predicts Emotional Response, Advertisement, and Branding Effects of Video Commercials
URI:	https://madata.bib.uni-mannheim.de/id/eprint/410
DOI:	https://doi.org/10.7801/410
Availability (Controlled):	Delivery

Infrastructure: data repo, metadata portal, search engine

TODAY: F FOR FINDABLE

F
indable



Learning Objectives:

Understanding

- What is F?
- Why F?
- How to F?

WHAT IS F?

Metadata and data shall be findable by both humans and machines

zenodo.org/search

zenodo fair data Upload Communities

All versions Found 117825 results.

Access Right

- ☒ Open (406554)
- ☐ Closed (13860)
- ☐ Restricted (6696)
- ☐ Embargoed (468)

File Type

- ☐ Pdf (159561)
- ☐ Html (74272)
- ☐ Zip (57612)
- ☐ Xlsx (27316)
- ☐ Txt (23487)
-

June 1, 2022 (2.0.0) Dataset Open Access

Dataset: FAIR Biomedical Research Software (FAIR-BioRS) manuscript

Patel, Bhavesh; Soundarajan, Sanjay; Hu, Zicheng;

Data related to our FAIR-BioRS manuscript

Uploaded on June 2, 2022

1 more version(s) exist for this record

October 30, 2021 (v2) Presentation Open Access

FarmConnors Workshop: How To Make Machine-Actionable Metadata

Nikola Vasiljevic; Kristina Tomicic;

The published PDF contains presentations from the following program: No Title Time 1. Welcome of wind energy controlled vocabularies 09:40 - 09:55 3. Review of metadata model 09:55 - 10:10

Uploaded on January 25, 2022

1 more version(s) exist for this record

zenodo.org/oai2d

OAI 2.0 Request Results

[Identify](#) | [ListRecords](#) | [ListSets](#) | [ListMetadataFormats](#) | [ListIdentifiers](#)

You are viewing an HTML version of the XML OAI response. To see the underlying XML use your web browsers view source option. More information about this XSLT is at the [bottom of the page](#).

Datestamp of response 2023-05-25T08:48:56Z

Request URL https://zenodo.org/oai2d

Request was of type ListRecords.

OAI Record: oai:zenodo.org:3777492

OAI Record Header

OAI Identifier	oai:zenodo.org:3777492	oai_dc	formats
Datestamp	2020-05-06T14:47:58Z		
setSpec	user-biosyslit	Identifiers	Records

Dublin Core Metadata (oai_dc)

Author or Creator	Darby, Michael
Date	2020-04-02
Description	Fig. 104. Cissidium simulatum sp. nov. A. Habitus. B. Pronotum, × 400. C. Mesoventrite showing median process of collar, lateral n
Description	Published as part of Darby, Michael, 2020, A revision of Cissidium Motschulsky (Coleoptera: Ptiliidae) with seventy seven new spe 622 on page 166, DOI: 10.5852/ejt.2020.622, http://zenodo.org/record/3777282
Resource Identifier	https://zenodo.org/record/3777492
Resource Identifier	10.5281/zenodo.3777492
Resource Identifier	oai:zenodo.org:3777492
Relation	doi:10.5852/ejt.2020.622

WHY F?

- To prevent data loss
- To (re)use it
- To acknowledge the owner(s) by citing it
- To enable reproducibility of research
- To increase the visibility of research



File not found

It may have been moved, edited, or deleted.

ERR_FILE_NOT_FOUND

HOW TO F?

- Deposit your data to a data repository. Check your institutional repo and domain-specific repos. Registries of data repositories are:
 - <https://www.re3data.org>
 - <https://fairsharing.org>
- Publish a data paper in a data journal. A list of data journals:
 - https://www.forschungsdaten.org/index.php/Data_Journals
- Advertise your data via conferences, social media and collaborations

re3data.org

Filter
Reset all

Subjects ⊕
Content Types ⊕
Countries ⊖

- Australia (4)
- Austria (4)
- Belgium (10)
- Benin (1)
- Brazil (1)
- Burkina Faso (3)
- Canada (10)
- China (4)
- Czech Republic (4)
- Denmark (8)
- Estonia (1)
- European Union (64)
- Finland (1)
- France (21)
- French Polynesia (1)
- Germany (498)**
- Greece (5)
- Hungary (2)
- Iceland (1)
- India (1)
- International (41)
- Israel (4)
- Italy (6)

Search...

← Previous 1 2 3 4 5 6 7 ... 20 Next →

Found 498 result(s)

ZACAT
GESIS Online Study Catalogue

Subject(s) Social and Behavioural Sciences Huma

Content type(s) Scientific and statistical data formats P

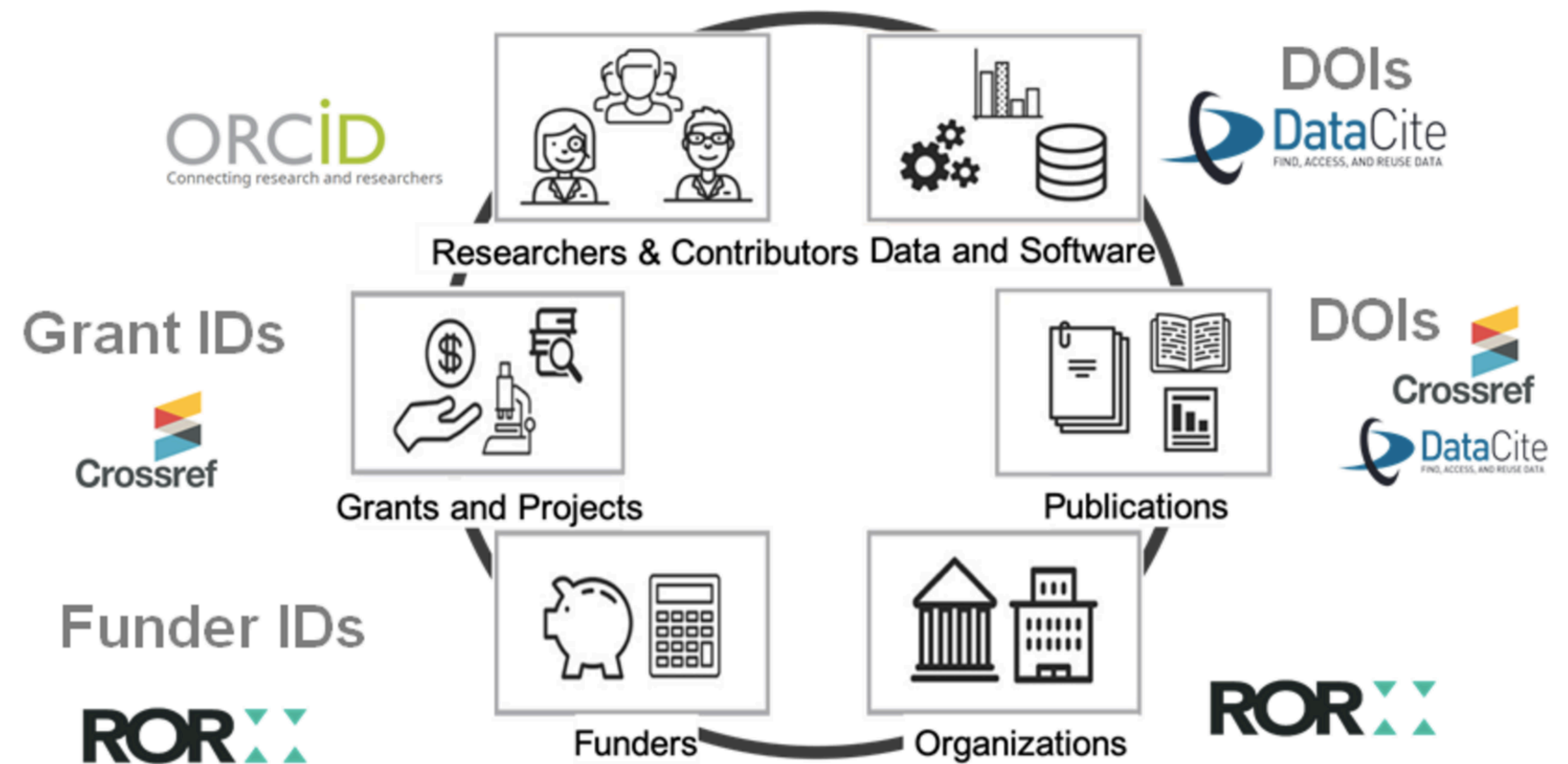
Country Germany

<<<!!!<<< The ZACAT server is end-of-life The ZACAT server is EOL and has several years and could no longer be reasonably sustained. We have expanded where available, which is a superset of the studies in ZACAT. Please use the >>>!!!>>>

ARS
Antibiotika-Resistenz-Surveillance

HOW TO F?

- (Meta)data are assigned a globally unique and persistent identifier
- Digital Object Identifier: <http://www.doi.org>
- Open Researcher and Contributor ID (ORCID): <https://orcid.org>
- Research Organization Registry: <https://ror.org>



https://projects.tib.eu/fileadmin/_processed_/d/5/csm_open_science_circle_694780705f.png

<https://www.go-fair.org/fair-principles/f1-meta-data-assigned-globally-unique-persistent-identifiers>

HOW TO F?

■ Data are described with rich metadata

<https://www.go-fair.org/fair-principles/f2-data-described-rich-metadata>

April 16, 2019 Working paper Closed Access

dataset

dataset
dataset

Files

🔒 Closed Access
Files are not publicly accessible.

Citations 0

Show only: ☐ Literature (0) ☐ Dataset (0) ☐ Software (0) ☐ Unknown (0) ☐ Citations to this version

No citations.

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1,033 downloads
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Publication date:
April 16, 2019
DOI:
DOI [10.5281/zenodo.2642958](https://doi.org/10.5281/zenodo.2642958)

Versions

Version 1 April 16, 2019
[10.5281/zenodo.2642958](https://doi.org/10.5281/zenodo.2642958)

Cite all versions? You can cite all versions by using the DOI [10.5281/zenodo.2642957](https://doi.org/10.5281/zenodo.2642957). This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)

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dataset. (2019). dataset. Zenodo. <https://doi.org/10.5281/zenodo.2642958>

zenodo.org/record/5078082

September 27, 2021 Dataset Open Access

Dataset for review on innovative contracts for the promotion of biodiversity and ecosystem services in agricultural management: contract design and governance characteristics

[Bredemeier, Birte](#); [Rex, Julia](#); [Sattler, Claudia](#)

Project member(s)
[van Bussel, Lenny](#); [Herrmann, Sylvia](#); [Prager, Katrin](#); [Dutilly, Céline](#); [Dodsworth, Jennifer](#); [Zagorska, Katarzyna](#); [Deijl, Lisa](#); [Barghusen, Rena](#); [Espinosa Diaz, Salomon](#); [Defrijn, Sven](#)

Dataset for H2020 project Contracts2.0 (GA No 818190), WP2, Task 2.1, Deliverable 2.1.

This dataset contains the information needed to reproduce the results in:
Bredemeier, Birte; Herrmann, Sylvia; Sattler, Claudia; Prager, Katrin; van Bussel, Lenny, Rex, Julia (submitted): Can the greater integration of biodiversity and ecosystem services into agricultural management be achieved through innovative contract design? Submitted to Ecosystem Services.

The Contracts2.0 project aims to develop novel contract-based approaches to incentivise farmers for the increased provision of environmental public goods alongside private goods. Based on a literature review and integration of expert knowledge, we identified a comprehensive set of approaches to innovative contracts deviating from mainstream AECM contracts, and provide an overview of the variety of contracts currently being tested and experimented with. This includes different contract types like innovative Payments for Ecosystem Services (PES) approaches, value chain approaches and land tenure contracts, as well as their hybrids.

We analysed 62 cases providing insights into characteristics of contract design and contract governance and the wider policy framework.

The present dataset contains information on the criteria and specifications used to describe the cases studied, as well as the publication of each case.

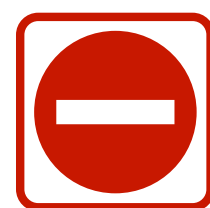
147 views
17 downloads
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Publication date:
September 27, 2021
DOI:
DOI [10.5281/zenodo.5078082](https://doi.org/10.5281/zenodo.5078082)

Keyword(s):
[dataset](#) [contracts](#) [AECM](#)
[Payments for Ecosystem Services](#) [land tenure contracts](#)
[value chain contracts](#) [review](#) [Horizon 2020](#)
[European Union](#)

Grants:
[European Commission:](#)
• Contracts2.0 - Co-design of novel contract models for innovative agri-environmental-climate measures and for valorisation of environmental public goods (818190)



HOW TO F?

■ Metadata clearly and explicitly include the identifier of the data they describe

<https://www.go-fair.org/fair-principles/f3-metadata-clearly-explicitly-include-identifier-data-describe>

zenodo.org/record/5078082

September 27, 2021

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Indexed in

OpenAIRE

Publication date:

DOI:
DOI 10.5281/zenodo.5078082

dataset contracts AECM
Payments for Ecosystem Services land tenure contracts
value chain contracts review Horizon 2020
European Union

Grants:
European Commission:

- Contracts2.0 - Co-design of novel contract models for innovative agri-environmental-climate measures and for valorisation of environmental public goods (818190)

zenodo.org/record/5078082/export/xd

For further information on the project Contracts2.0, please visit our website www.project-contracts20.eu. </dc:description>

<dc:description>This publication is part of a project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 818190

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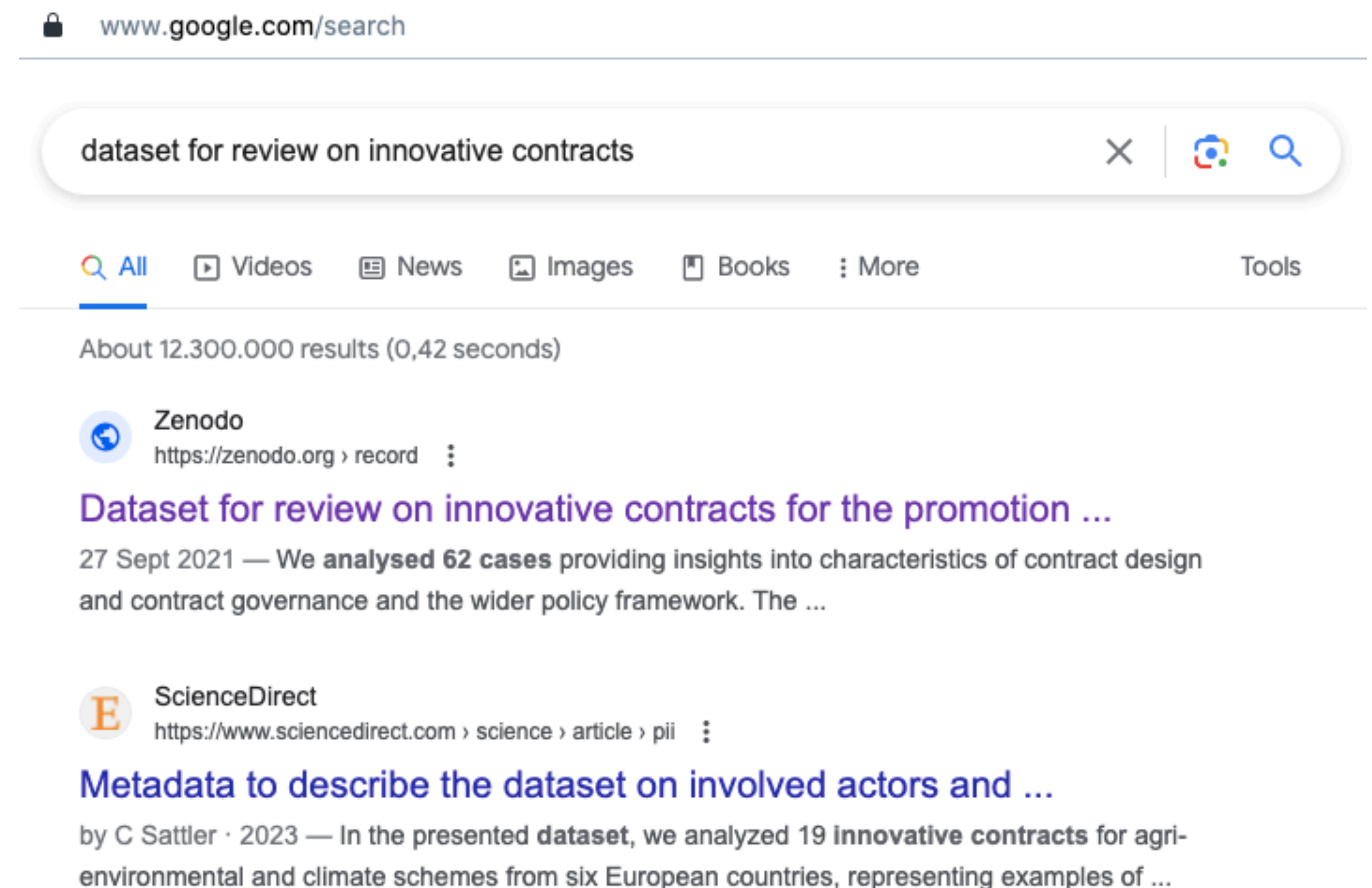
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<dc:type>dataset</dc:type>
</oai_dc:dc>

HOW TO F?

- (Meta)data are registered or indexed in a searchable resource

<https://www.go-fair.org/fair-principles/f4-metadata-registered-indexed-searchable-resource>

- Identifiers and rich metadata are great, but they don't guarantee that your data will be findable.
- Awesome data resources may be lost, because nobody knows that they exist.
- Your deposited (meta)data should be indexed by search engines and metadata aggregators: Google search, Google-Dataset-Search, OpenAIRE search, EOSC search, etc.



HOW TO F?

<https://faircookbook.elixir-europe.org/content/recipes/findability/registeringDatasets>



Let’s make (meta)data even more findable via the Wikidata knowledge graph

WIKIDATA

Main page

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Recent changes

Random Item

Query Service

Nearby

Help

Donate

Lexicographical data

Create a new Lexeme

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Random Lexeme

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Concept URI

Cite this page

Item

Discussion

Dataset of a Study of Computational reproducibility of Jupyter notebooks

No description defined

In more languages

Statements

instance of

data set

0 references

add reference

add value

title

Dataset of a Study of Computational reproducibility of Jupyter notebooks from biomedical publications (English)

0 references

add reference

add value

author

Daniel Mietchen

series ordinal2

object named asDaniel Mietchen

0 references

add reference

add value

author name string

Sheeba Samuel

series ordinal1

edit

[https://scholia.toolforge.org/doi/\\$DOI](https://scholia.toolforge.org/doi/$DOI)

SCHOLIA

Author

Work

Organization

Location

Event

Project

Award

Topic

Tools

Help

We found no work in Wikidata with the DOI 10.7801/408. If you would like to create the item for this work, you can click the "Submit to QuickStatements" button (this requires authentication via OAuth 2.0). Thank you for help!

QuickStatements

CREATE

LASTP31Q1172284

LASTLen"Code: Training machine learning algorithms for automatic facial coding

LASTP348"1"

LASTP356"10.7801/408"

LASTP577+2023-01-01T00:00:00Z/9

LASTP856"https://madata.bib.uni-mannheim.de/408"

LASTP1476en:"Code: Training machine learning algorithms for automatic facial coding"

LASTP2093"Björn Buedenbender@Uni-Mannheim.De Buedenbender" P1545"1"

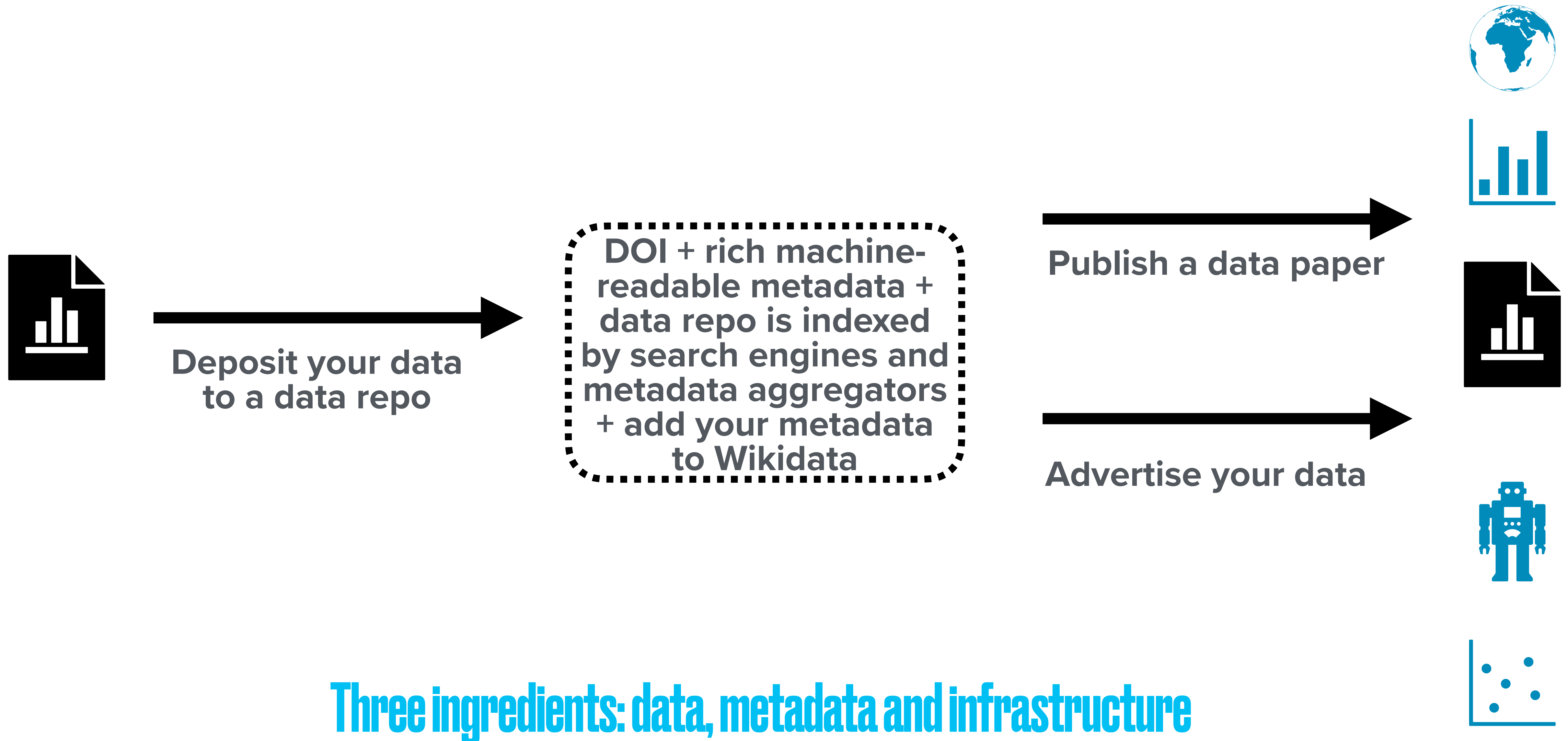
LASTP2093"Tim Tim.Hoefling@Uni-Mannheim.De Höf ling" P1545"2"

LASTP2093"Antje B. M. Gerdes@Uni-Mannheim.De Gerdes" P1545"3"

LASTP2093"Georg W. Alpers@Uni-Mannheim.De Alpers" P1545"4"

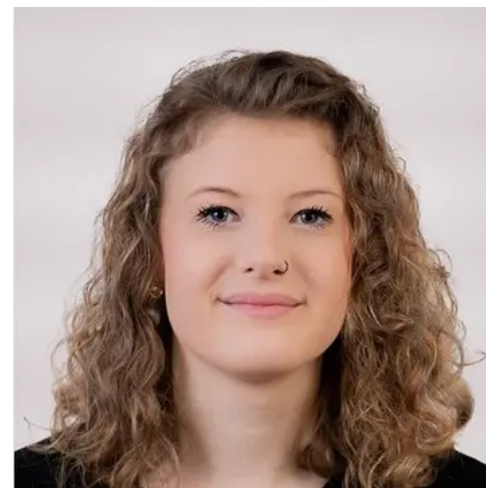
Submit to QuickStatements

MAKING DATA FINDABLE IS NOT ROCKET SCIENCE





Dr. Irene Schumm



Larissa Will



Dr. Renat Shigapov



Dr. David Philip Morgan

<https://fdz.bib.uni-mannheim.de>
forschungsdaten@uni-mannheim.de

www.bib.uni-mannheim.de/en/teaching-and-research/research-data-center/   

Research Data Center

The available data comprise specialized data sets in the field of economics and social sciences.

Services and advice

In many stages of the research process, the generation, use and management of data plays an important role. Further information can be found below.

- + Guidelines for research data management
- + Create a Data Management Plan
- + Finding research data
- + Forschungsdaten lizenzieren
- + Data collection via digitisation and automated text recognition (OCR)
- + Organizing data
- + Archiving and publishing research data
- + MASHare – Digitale Sammlungen erstellen mit OMEKA

data repo

madata.bib.uni-mannheim.de

Welcome to MADATA

digital collections



knowledge graphs



These slides are findable at
<https://www.doi.org/10.5281/zenodo.7984881>



USEFUL RESOURCES

- FAIR Data Week at GitHub: <https://github.com/UB-Mannheim/FAIR-Data-Week>
- FAIR principles at GO FAIR: <https://www.go-fair.org/fair-principles>
- FAIR Cookbook from ELIXIR Europe: <https://faircookbook.elixir-europe.org>
- German National Research Data Infrastructure: <https://www.nfdi.de>
- Guidelines on FAIR Data Management in Horizon 2020: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf
- OpenAIRE Guide for Researchers "How to make your data FAIR": <https://www.openaire.eu/how-to-make-your-data-fair>
- How to FAIR: <https://www.howtofair.dk>
- Open and FAIR research data: <https://www.fosteropenscience.eu/node/2820>
- Assessing the FAIRness of data: <https://www.fosteropenscience.eu/node/2644>
- FAIRdata Forum: <https://fairdataforum.org>