Metadata for Machines Workshop: VODAN Africa

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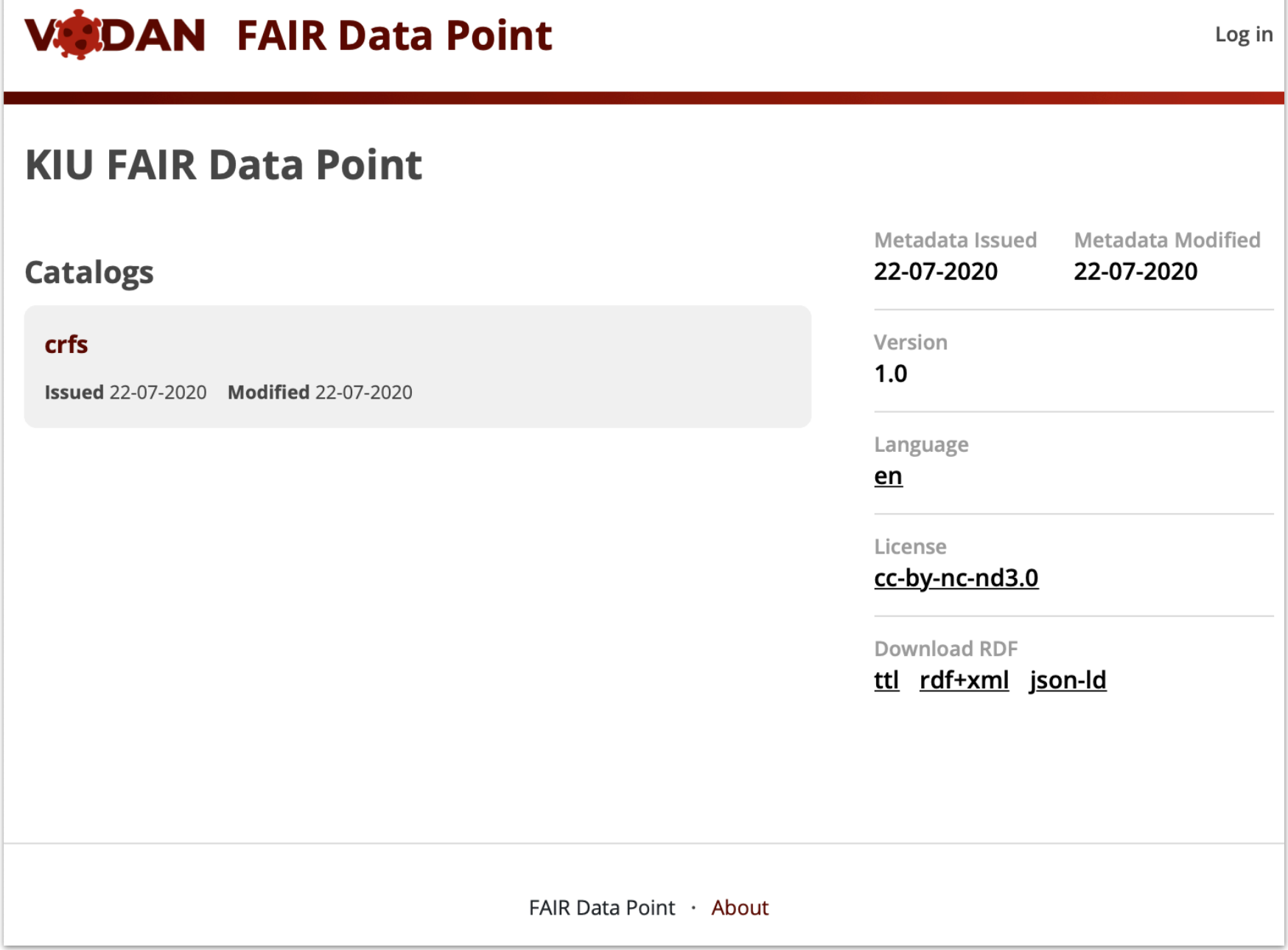
https://bit.ly/M4Mhandbook

M4M.4.14, July 28, 2020

VODAN in a Box

20 July - Technical introduction to VIB from Kees
21 July - Introduction to the CRF data entry wizard
22 July (3:14) - VIB instalation webinar with KIU +

https://fdps.kiu.ac.ug/



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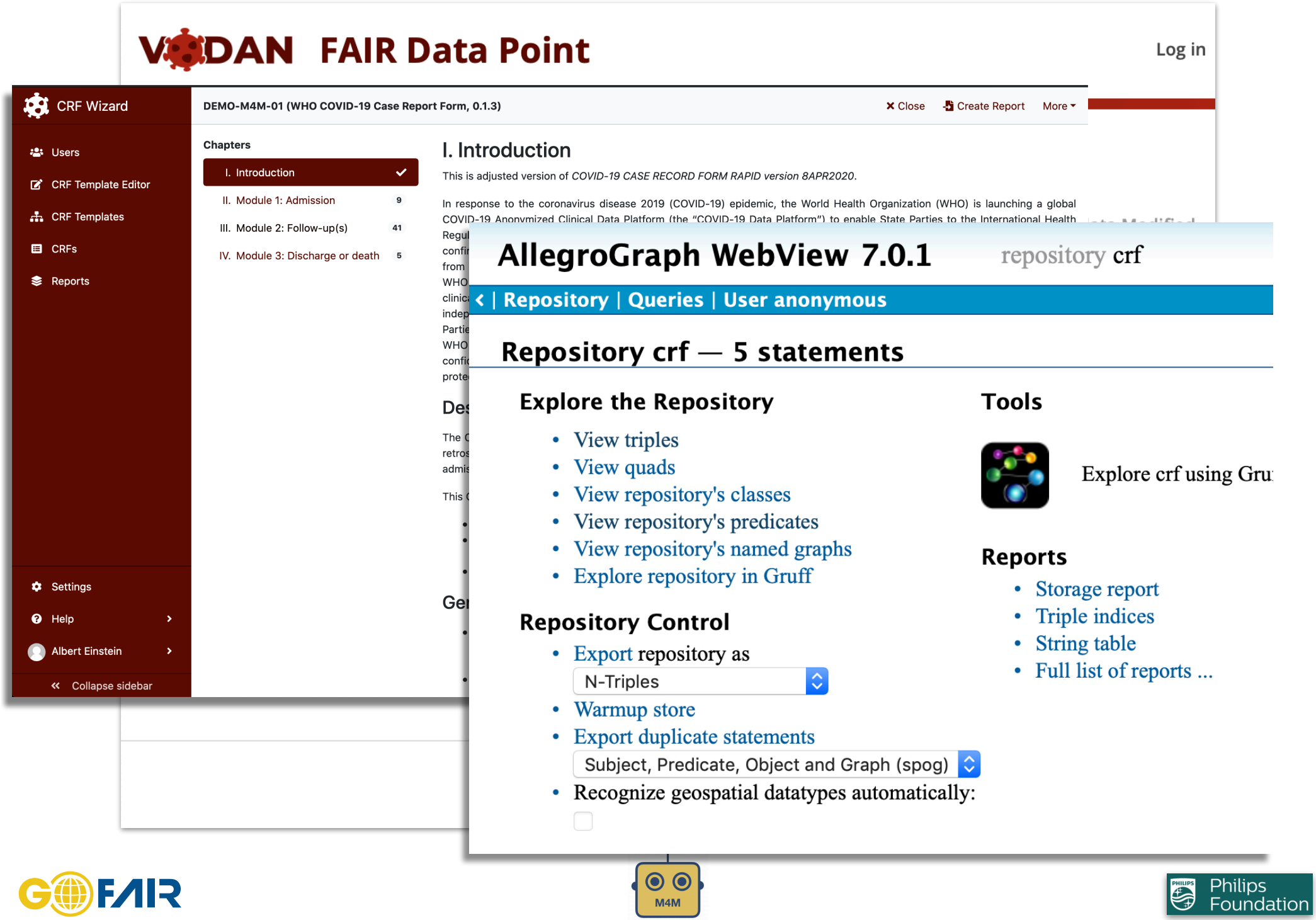

News

First FAIR Data Point for COVID-19 Data Installed in Africa

POSTED ON 22 JULY 2020

COVID-19 Computer-Readable Observational Data Installed at Kampala International University

Following the **press release** from the Kampala International University, history was made today at 14:14 CET on 22 July 2020 as the first COVID-19 Computer-Readable FAIR Data point of Observational Data was installed in Uganda, Africa. The installation was carried out by the Virus Outbreak Data Network (**VODAN-Africa**). It is the first of its kind to be installed worldwide and will be followed by installation in other partner universities and hospitals in Ethiopia, Nigeria, Kenya, Tunisia and Zimbabwe, which will then present a worldwide internet of data that can be queried. This will provide a new layer of data that will help in the fight against COVID-19. This comes at a moment in time that the WHO has expressed its concern on the spread of the virus on the African continent and the impact this will have, in Africa as well as for the global containment of the virus.

Read the press release **here**.

PRESS RELEASE: COVID-19 Computer-Readable Observational Data Installed at Kampala International University

Administrator July 22, 2020, 6:37 pm

VODAN Africa
Virus Outbreak Data Africa Network

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The installation is on the basis of data held in residence. The format of the data-point is that distributed data are Findable, Accessible (under conditions), Interoperable and Re-usable (FAIR). It responds to concerns that data are of the highest quality when these are stewarded by the data producer. The data are curated in accordance with local compliance and regulatory framework and adherence to GDPR-based protection of personal data. The Virus Outbreak Data Network is a collaboration between Kampala International University, Leiden University and other universities, Addis Ababa University and Mekelle University in Ethiopia, Université de Sousse in Tunisia, Tangaza University in Kenya, Ibrahim Babamosi Babangida University, Lapai, Olabisi Onabanjo University and Data Science in Nigeria and Great Zimbabwe University in Zimbabwe.

The Installation was carried out by Mariam Basajja who is a PhD student from Leiden University and Kampala International University and witnessed by Vice-Chancellor of Kampala International University, and Chair of the VODAN-Africa Implementation Network, Dr. Mouhammed Mpezamihigo, as well as the technical team from the GO FAIR Foundation: Dr. Erik Schultes, Luiz Bonino, Marek Suchanek, Kees Burger and Data Stewards from Nigeria, Ethiopia, and Kenya.

"This is historical", said VC of KIU Dr. Mouhamed Mpezamihigo, "I have witnessed the installation of the COVID-19 FAIR Data point. We are proud as an academic institution to be able to support the first installation in Africa and worldwide. I congratulate the international team of GO FAIR, Leiden University and Leiden Institute for Advanced Computer Science (LIACS), Leiden University Medical Centre (LUMC) and Philips Foundation who have collaborated with us. This will offer a new layer of data

LATEST
NEWS & EVENTS

IU Trivia: June 27 in the Present and the Past
July 27, 2020, 11:39 am

- View all news

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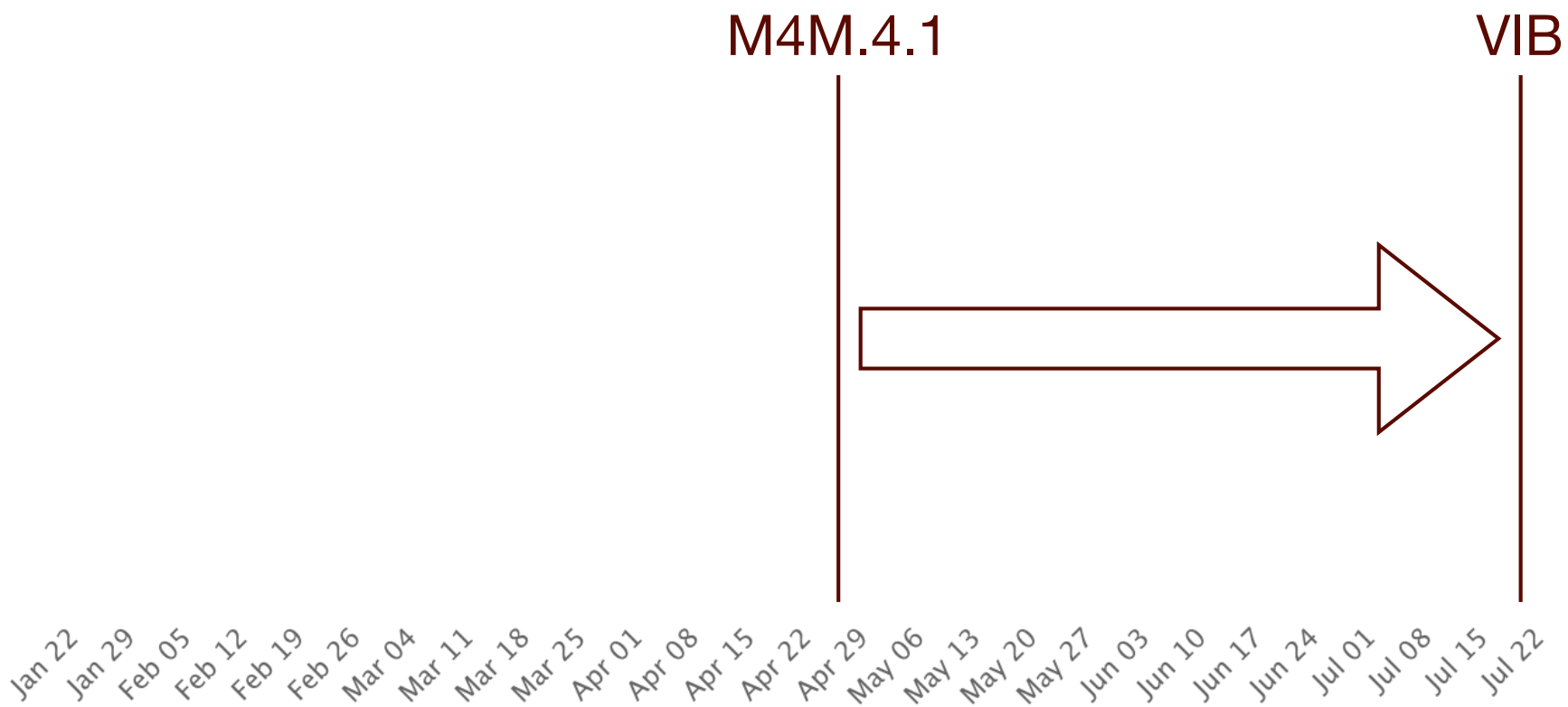
M4M.4.1
VIB
Jan 22
Jan 29
Feb 05
Feb 12
Feb 19
Feb 26
Mar 04
Mar 11
Mar 18
Mar 25
Apr 01
Apr 08
Apr 15
Apr 22
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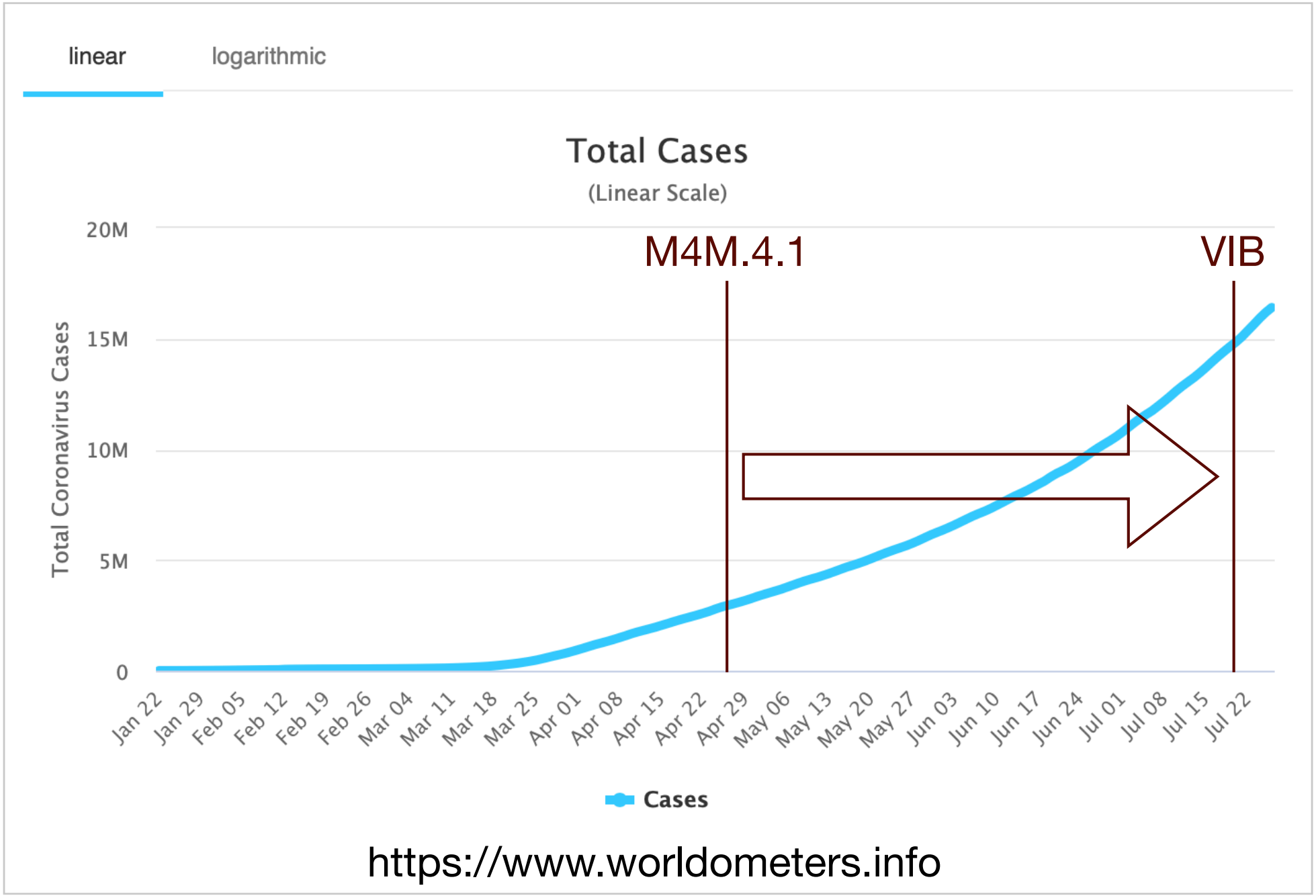
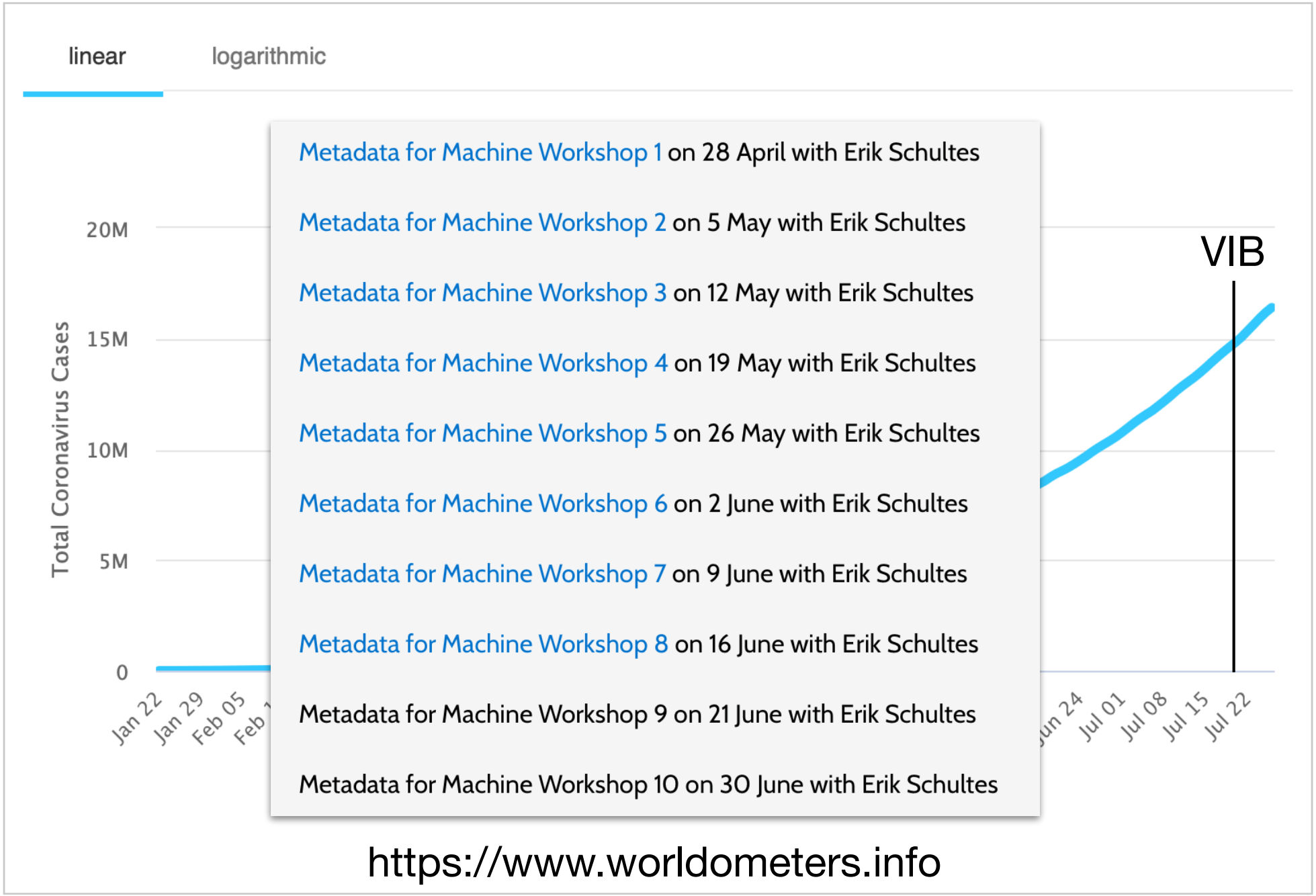
Jul 08
Jul 15
Jul 22



https://www.worldometers.info



https://www.worldometers.info

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Repositories

Metadata for Machine Workshop (M4M) Workshop Series

All the presentation slides and recordings for the Metadata for Machine Workshop are available here

Read More ›

Presentation Slides

All the ToT Presentation slides are available here

Read More ›

Webinar Videos

The recordings of all VODAN-Africa Webinars are available here

Read More ›

Training Documents

All training Documents are available here

Read More ›

Training Videos

All training videos are available here

Read More ›

Technical Instructions

All technical instructions can be accessed through here

Read More ›

Communications

All Communications Documents on the VODAN Africa Project are available here

Read More ›

VODAN Africa Webinar at San Diego Super Computer Center

All the presentation slides and recordings from the VODAN Africa webinar hosted by the San Diego Supercomputer Center (SDSC) are available her

Read More ›

https://www.vodan-totafrica.info/repositories

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M4M: 4.1, April 28, 2020

VODAN Africa

Particiaption from

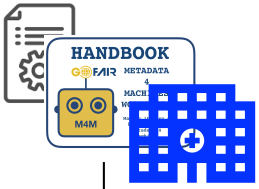
- Uganda
- Zimbabwe
- Nigeria
- Ethiopia
- Kenya
- (Tunisia)

Contact as MoH

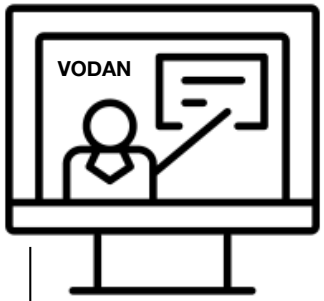
Questionnaires

Review

Version 1.0 Documentation



Publish Training and Documentation

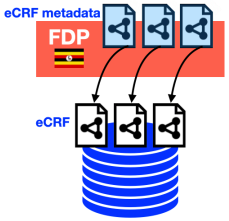


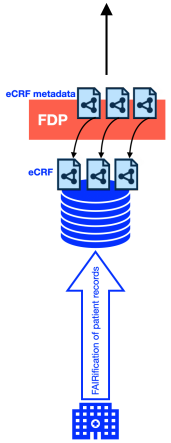
Project A

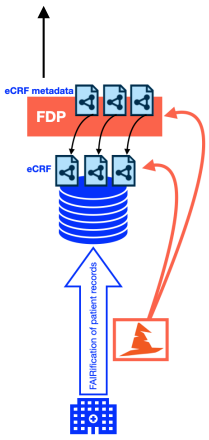
Deployment & Scaling

April | May | June/EOPA | July | August | September

1. eCRF







Query

Co-development

Building an airplane while flying it

https://www.youtube.com/watch?v=L2zqTYgcpfg

Automating F, A, I and R

Box 2 | The FAIR Guiding Principles https://www.nature.com/articles/sdata201618

To be Findable:
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, where necessary
A2. metadata are accessible, even when the data are no longer available

To be Interoperable:
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data

To be Reusable:
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards

GO FAIR M4M Philips Foundation

There is no FAIR data without machine-actionable metadata

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Technical infrastructure (generic operations)
Data/metadata (domain-specific content)

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Technical infrastructure: FAIR Data Point
Data/metadata: VODAN, Uganda, KIU, local hospitals, medical staff, patients…

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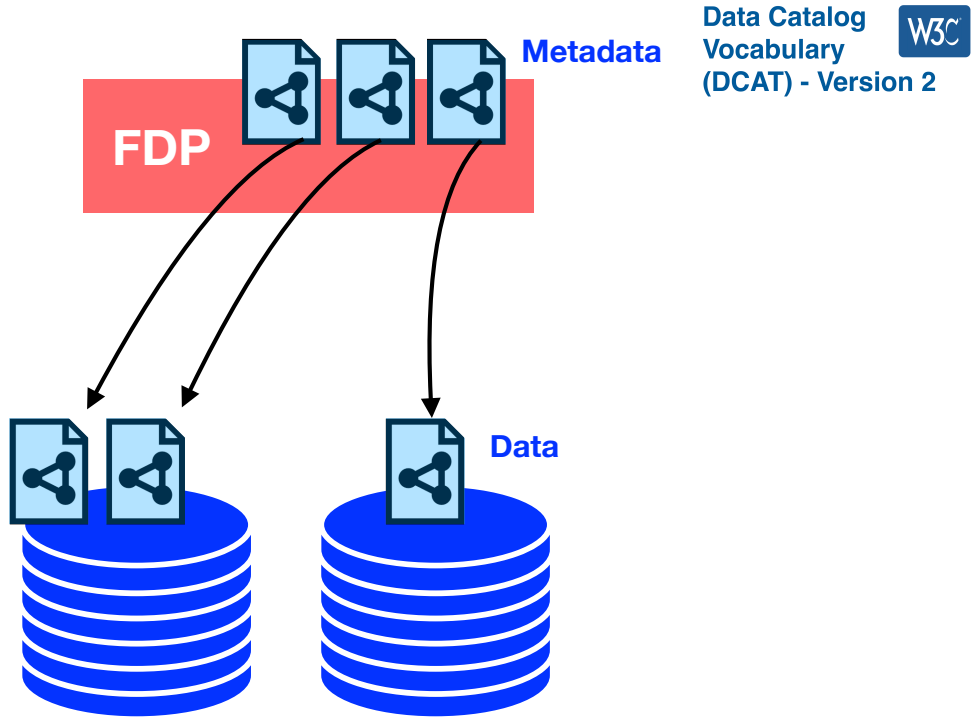
The FAIR Data Point

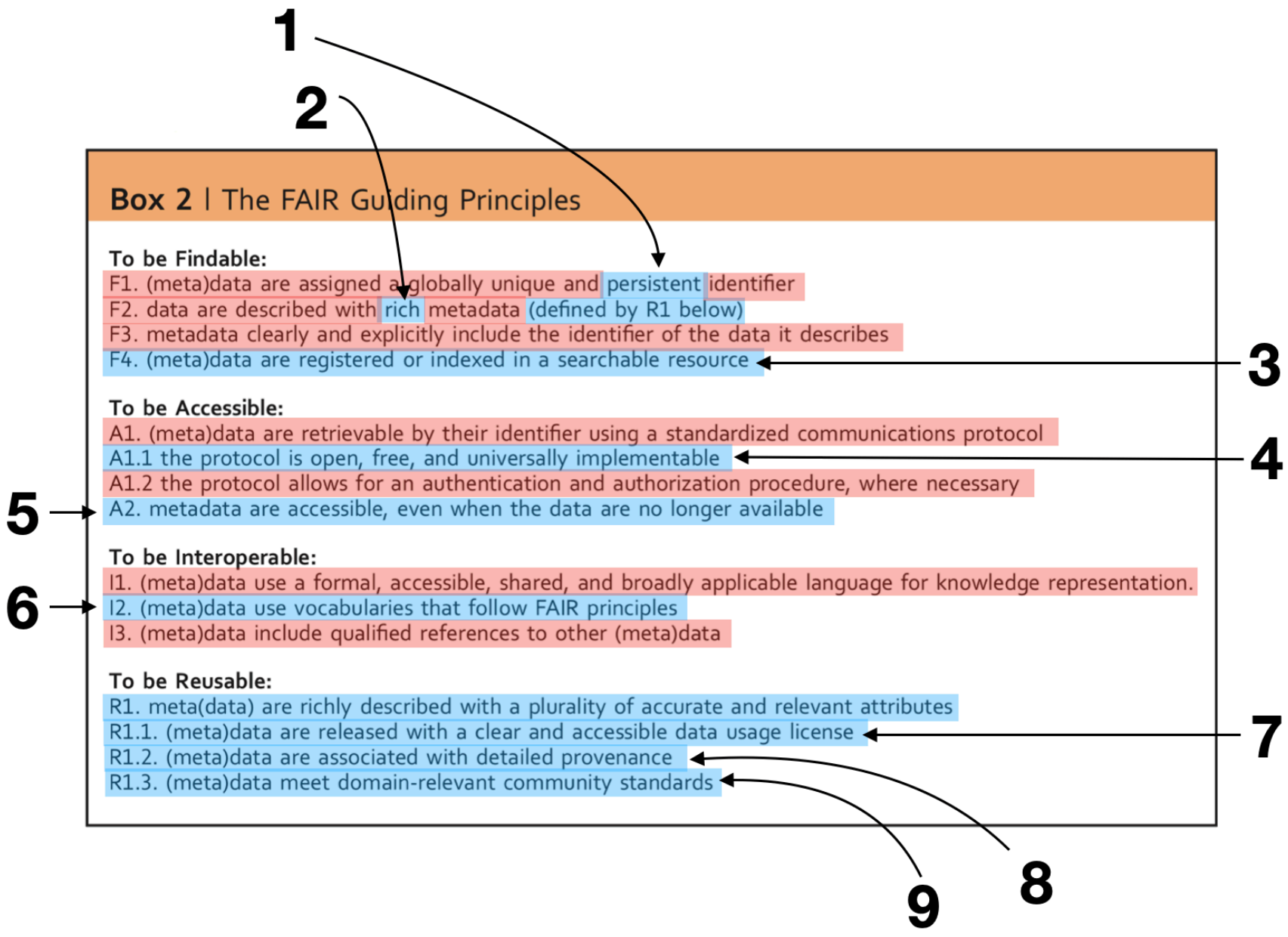
(Enables data visiting)



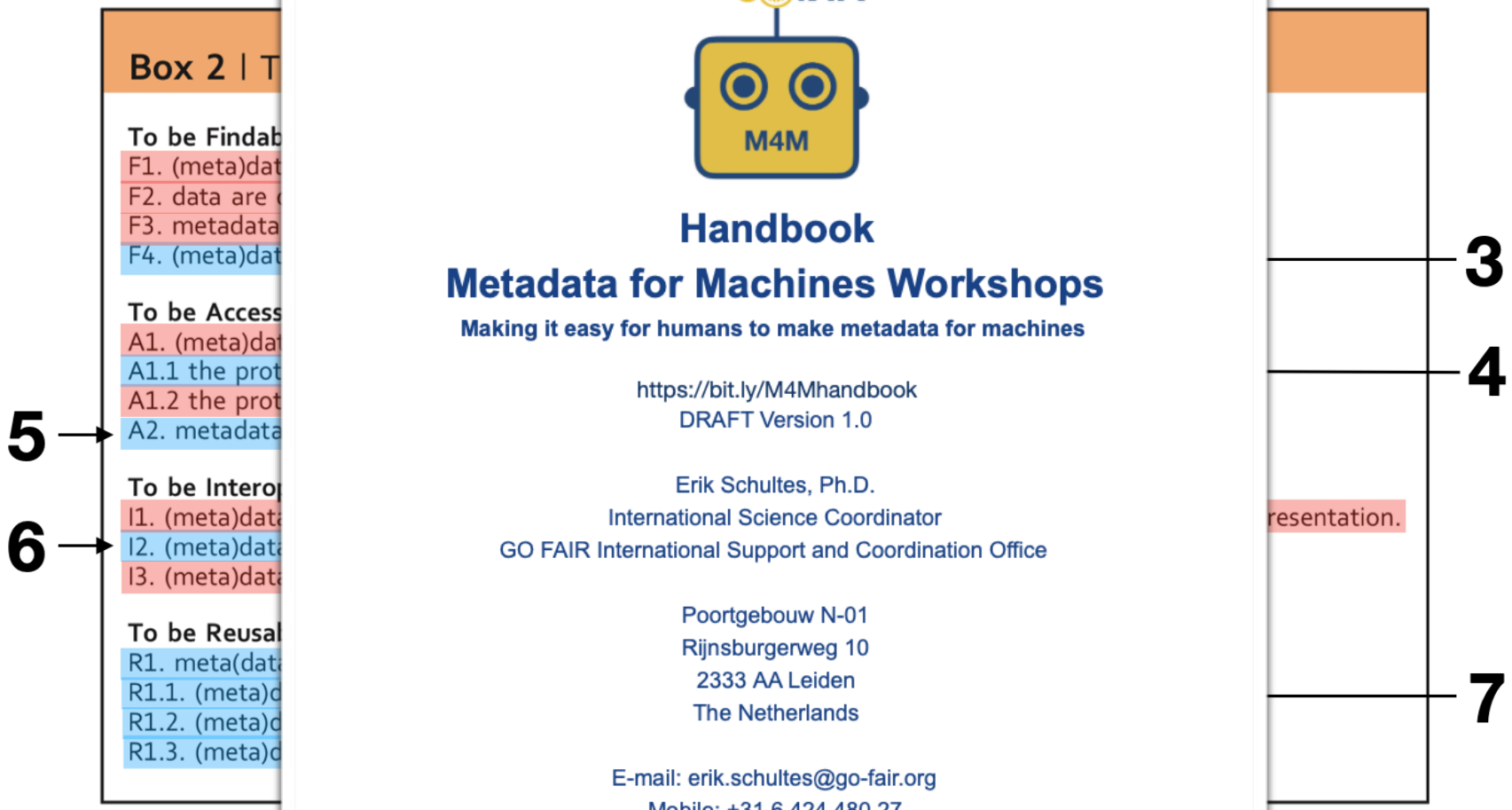
Technical infrastructure (generic operations)

Data/metadata (domain-specific content)

M4M Metadata Components



M4M Metadata Components



GO FAIR

M4M

Handbook

Metadata for Machines Workshops

Making it easy for humans to make metadata for machines

https://bit.ly/M4Mhandbook
DRAFT Version 1.0

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ORCID: https://orcid.org/0000-0001-8888-635X
www.go-fair.org

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FDP

Core FDP Metadata

	FDP
1	Title
2	Description
3	Publisher
4	Version
5	Language
6	License
7	Start date
8	Last update
9	Institution
	Catalog metadata
1	Title
2	Description
3	Publisher
4	Version
5	Language
	Dataset metadata
1	Title
2	Description
3	Publisher
4	Version
5	Language
6	License
7	Issued
8	Modified
9	Keywords
10	Theme
11	Contact point
12	Landing page
	Distribution Metada
1	Title
2	Description
3	License
4	Issued
5	Modified
6	Download URL
7	Access URL
8	Media Type
9	Format
10	Byte Size

The FAIR Data Point as infrastructure addresses the red FAIR Principles

Technical infrastructure (generic operations)
Data/metadata (domain-specific content)

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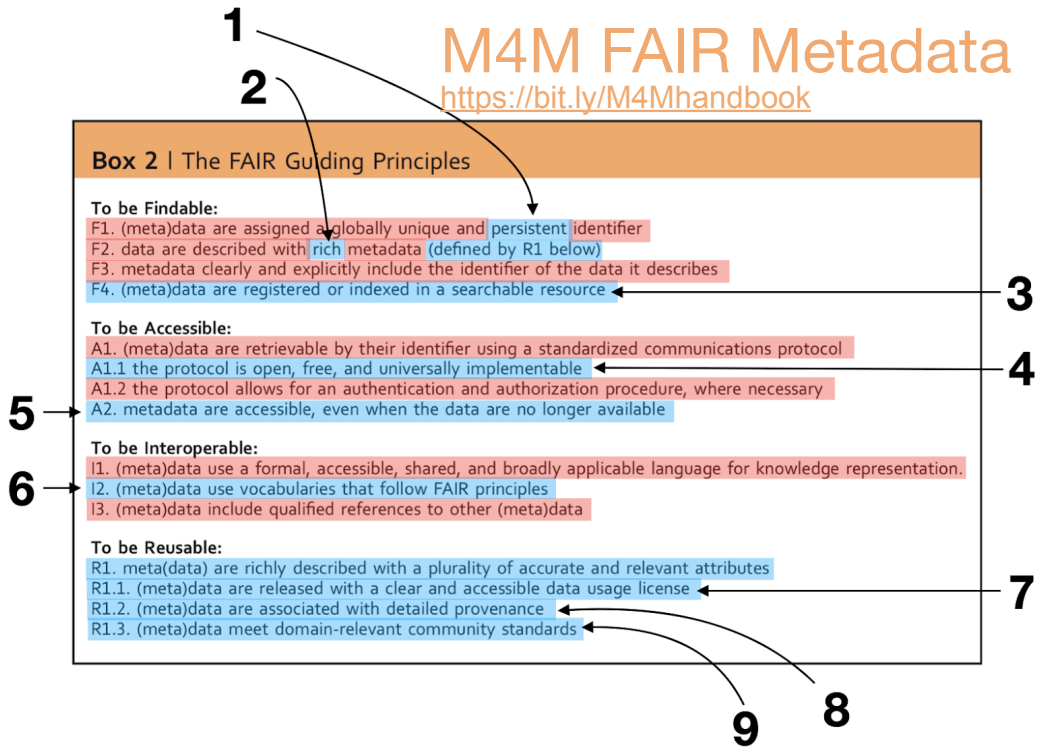
M4M FAIR Metadata

https://bit.ly/M4Mhandbook



The blue FAIR Principles address the domain-relevant community standards

The FAIR Data Point as infrastructure addresses the red FAIR Principles

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4	Version	
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10	Theme	F2
11	Contact point	
12	Landing page	
	Distribution Metada	
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4	Issued	
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domain-relevant metadata extension

M4M FAIR Metadata

https://bit.ly/M4Mhandbook

FAIR Guiding Principles

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1 2 3 4 5 6 7 8 9

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R1.1 Many license options

Content:
- CC0 1.0 Universal
- ✓ CC-By Attribution 4.0 International

Code - Permissive:
- MIT License
- Apache License 2.0
- BSD 2-Clause "Simplified" License
- BSD 3-Clause "New"/"Revised" License

Code - Copyleft:
- GNU General Public License (GPL) 3.0
- GNU General Public License (GPL) 2.0

Code - Other:
- Artistic License 2.0
- Eclipse Public License 1.0
- GNU Lesser General Public License (LGPL) 3.0
- GNU Lesser General Public License (LGPL) 2.1
- Mozilla Public License 2.0

R1.1

R1.1

M4M FAIR Metadata

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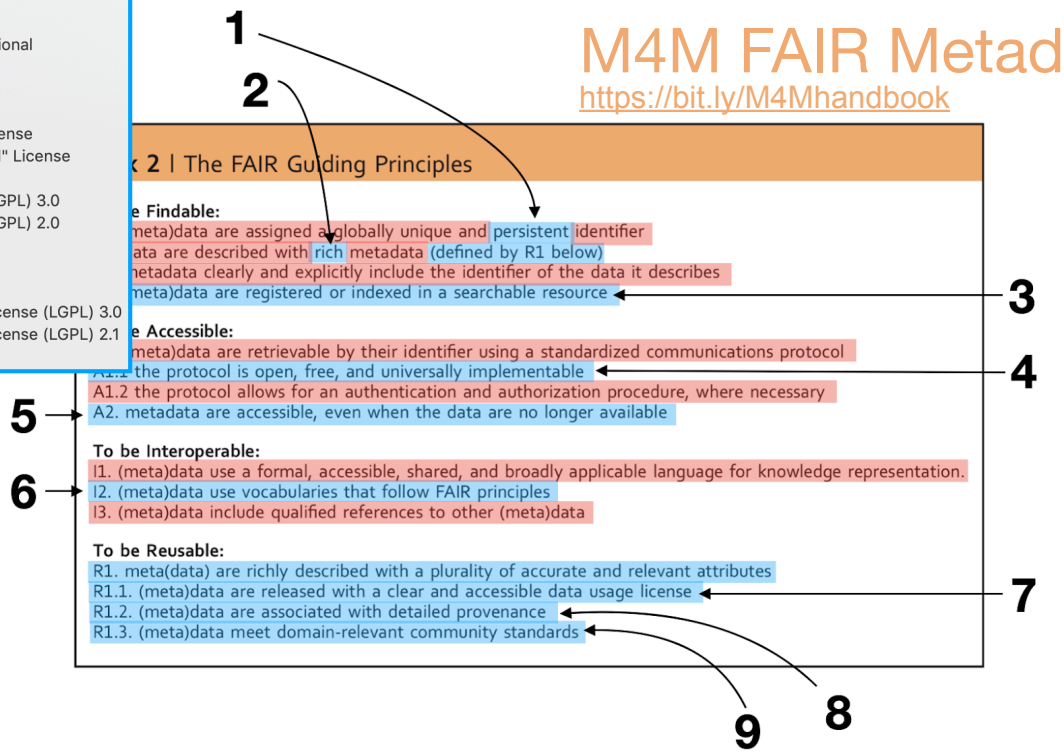

The blue FAIR Principles address the domain-relevant community standards

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8	Last update	R1.2
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2	Description	
3	Publisher	
4	Version	R1.2
5	Language	R1.2
	Dataset metadata	
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2	Description	
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6	License	R1.2
7	Issued	R1.2
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	Distribution Metada	
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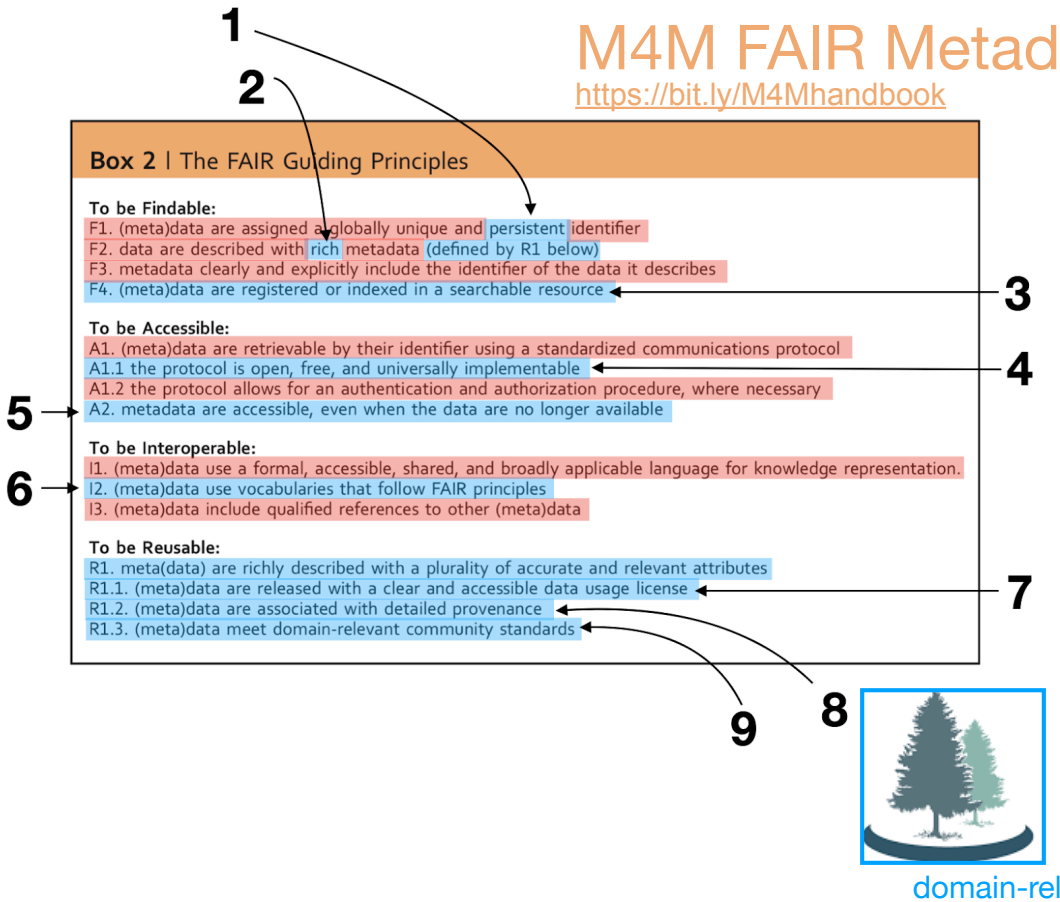

domain-relevant metadata extension

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9	Format
10	Byte Size

The FAIR Data Point as infrastructure addresses the red FAIR Principles

Nanopublication options for policy links

Box 2 | The FAIR Guiding Principles

To be Findable:
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, where necessary
A2. metadata are accessible, even when the data are no longer available

To be Interoperable:
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data

To be Reusable:
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards

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M4M FAIR Metadata
https://bit.ly/M4Mhandbook

3rd party indexing and search

databiology

FIP

Link to the VODAN FIP

Link to the VODAN Community nanopub

The blue FAIR Principles address the domain-relevant community standards

Comments & Questions