

# Metadata Standards & Digital Object Types

*FAIR Digital Objects are self-describing  
Digital Objects*



Dr. Erik Schultes, PhD  
FAIR Implementation Strategies  
GO FAIR Foundation  
<http://orcid.org/0000-0001-8888-635X>  
[erik.schultes@go-fair.org](mailto:erik.schultes@go-fair.org)  
[go-fair.org](http://go-fair.org)



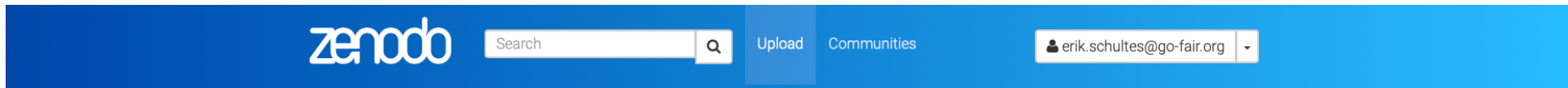
April 29, 2021  
Slides: <https://osf.io/tp25n/>

## Inclusion of METADATA in general ...











We noticed that many repositories do not provide enough metadata to describe the data and we also see that the **object types** are not properly indicated - **is it a graph, excel, publication, report or something else.**

## Inclusion of METADATA in general ...

We noticed that many repositories do not provide enough metadata to describe the data and we also see that the **object types** are not properly indicated - **is it a graph, excel, publication, report or something else.**



Upload type required ▾

|  |  |  |   |   |   |  |  |   |
|--|--|--|---|---|---|--|--|---|
| <br>Publication<br><input checked="" type="radio"/> | <br>Poster<br><input type="radio"/> | <br>Presentation<br><input type="radio"/> | <br>Dataset<br><input type="radio"/> | <br>Image<br><input type="radio"/>  | <br>Video/Audio<br><input type="radio"/> | <br>Software<br><input type="radio"/> | <br>Lesson<br><input type="radio"/> | <br>Physical object<br><input type="radio"/> |
|  |  |  |   | <br>Other<br><input type="radio"/> |   |  |  |   |

**Publication type**  ▾  
Publication type.

## 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

# FAIR Data Point

FAIR Data Point

https://www.fairdatapoint.org

About FAIR Data Point

## FAIR Data Point

### What is a FAIR Data Point

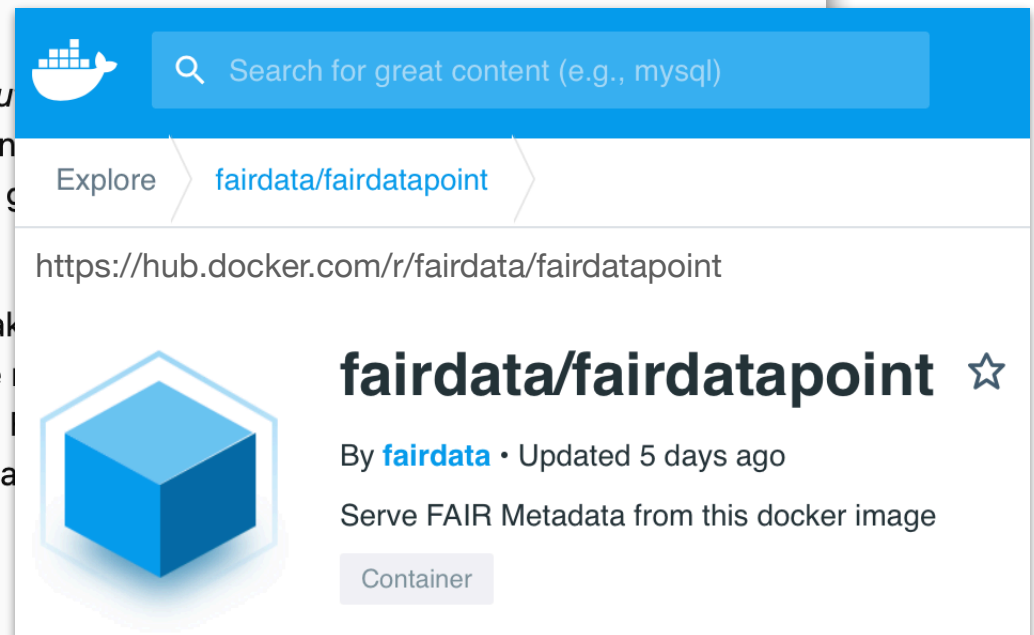
A FAIR Data Point (sometimes abbreviated to FDP) is the realisation of the vision of a group of authors of the [original paper on FAIR](#) on how (meta)data could be presented on the web using existing standards, and without the need of APIs.

A FAIR Data Point ultimately stores *information about*...  
And just like the *webserver* in the WWW in the beginning of publishing text to anyone, a FAIR data point aims to do the same on the web.

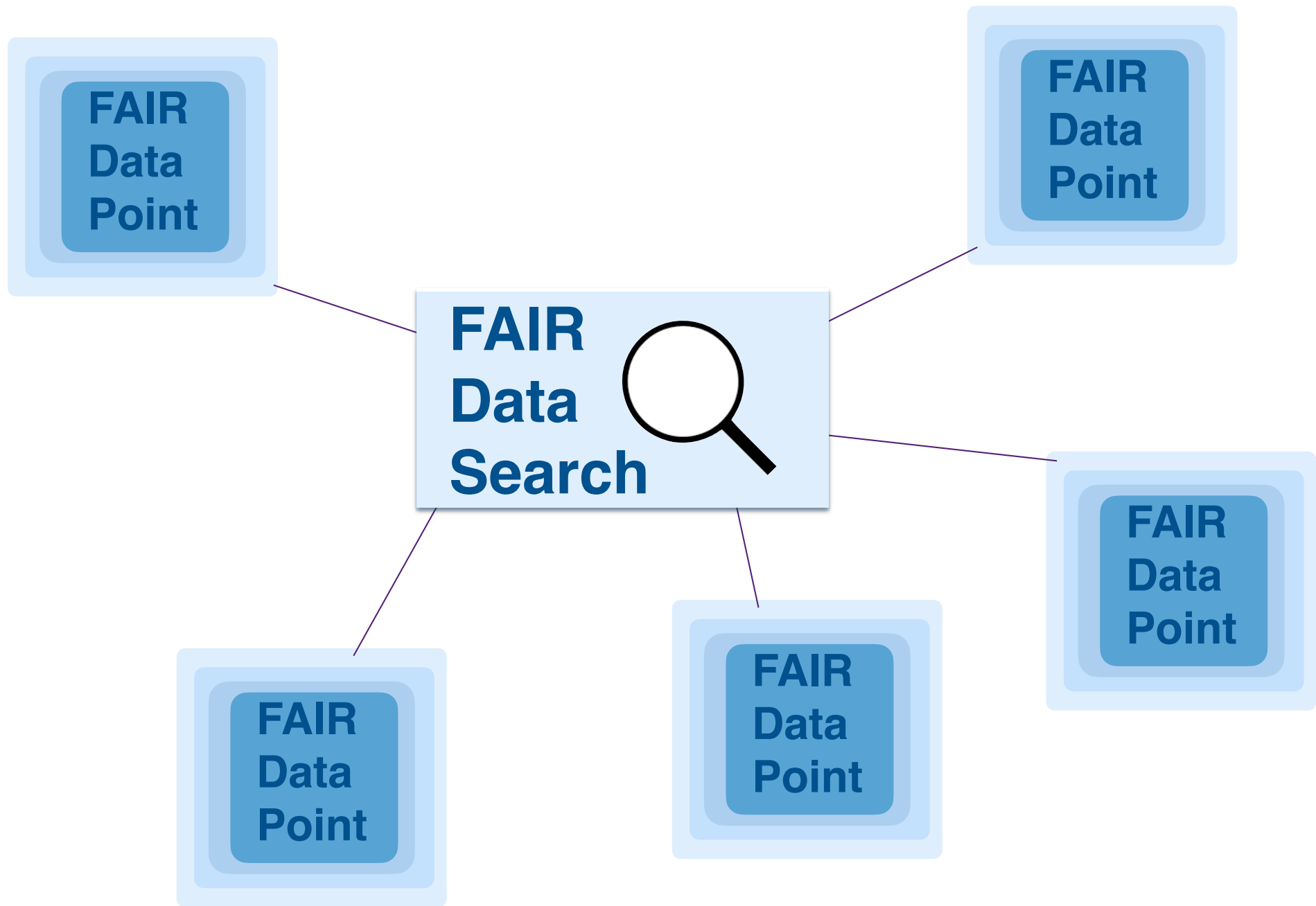
The system is called a **FAIR** data point because it takes care of to make data FAIR; especially with the... and a uniform open way of **Accessing** the data. The... of the metadata it stores, but it leaves the Interoperability provider.

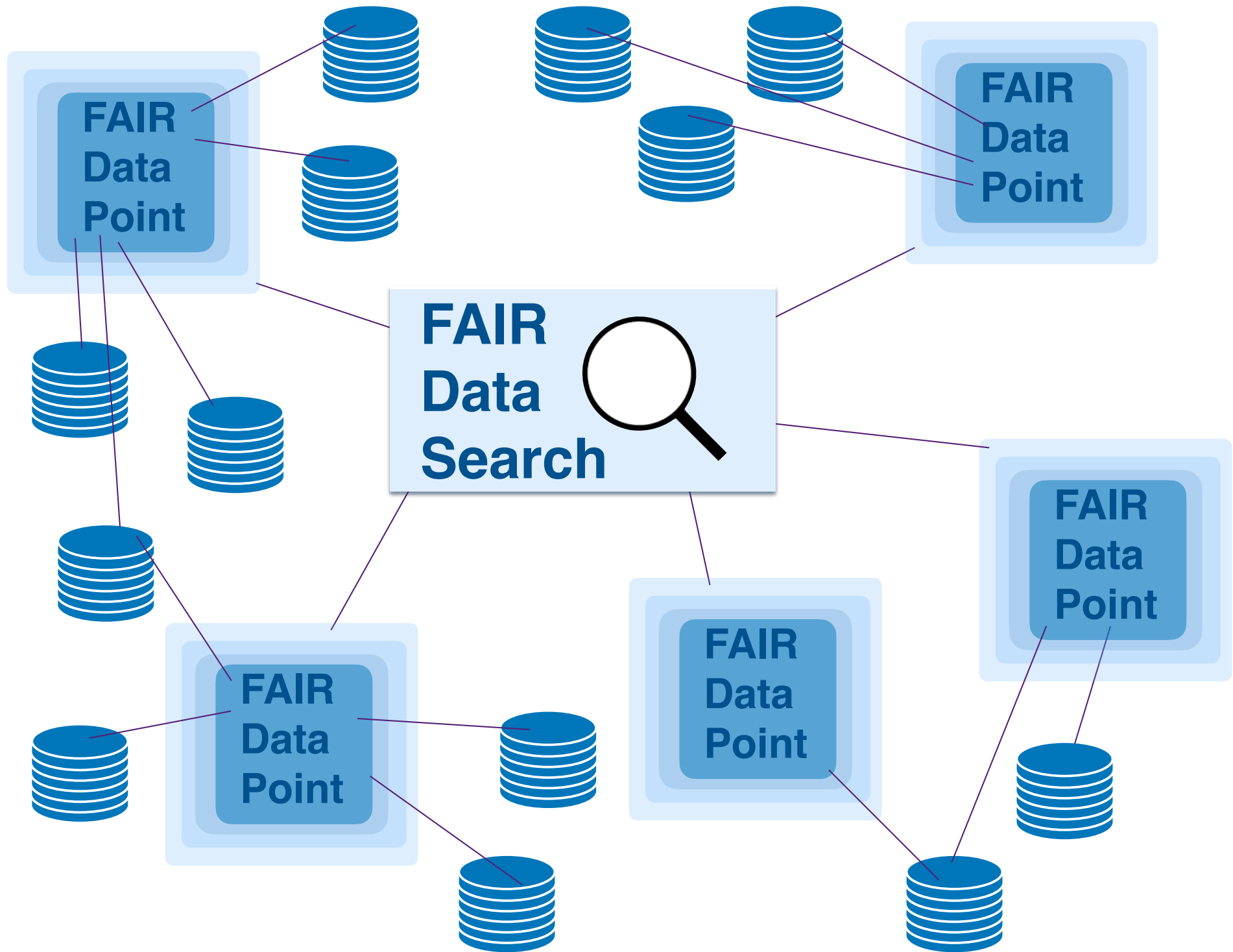
### Components

The FAIR Data Point as we have implemented it has three components.



The screenshot shows a Docker Hub interface. At the top, there is a search bar with the text "Search for great content (e.g., mysql)". Below the search bar, there is a breadcrumb trail: "Explore > fairdata/fairdatapoint". The main content area displays the URL "https://hub.docker.com/r/fairdata/fairdatapoint". On the left, there is a blue 3D cube icon representing the Docker image. To the right of the icon, the text reads "fairdata/fairdatapoint" with a star icon. Below this, it says "By fairdata • Updated 5 days ago" and "Serve FAIR Metadata from this docker image". At the bottom right, there is a button labeled "Container".





# FAIR Data Point

GET <URL>

## Catalog 1

### Dataset 1

Distribution 1

Distribution 2



### Dataset 2

Distribution 3



## Catalog 2

### Dataset 3

Distribution 4

Distribution 5





# FAIR Data Point

Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country



## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point

Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country



## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

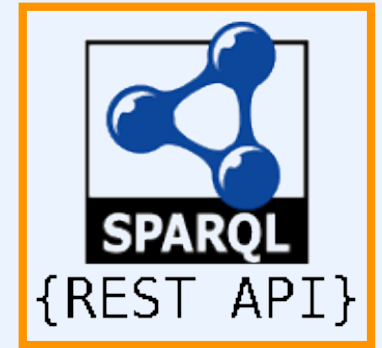
Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point **A1.1, A1.2**

Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country



## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / **Contact point** / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point

R1.1



Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country

## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point

R1.2



Title / Description / **Publisher** / Version / Language / License /  
**Start date** / **Last update** / **Institution** / **Country**

## Data Catalog layer

Title / Description / **Publisher** / **Version** / Language

## Dataset layer

Title / Description / **Publisher** / **Version** / Language / License / **Issued** /  
**Modified** / Keywords / Theme / Contact point / **Landing page**

## Distribution layer

Title / Description / License / **Issued** / **Modified** / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point

Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country



## Data Catalog layer

Title / Description / Publisher / Version / Language

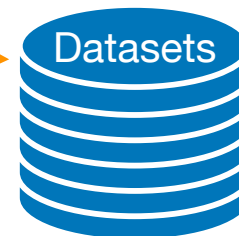
## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
**Download URL / Access URL**

**I3, F3**



# FAIR Data Point

F2



Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country

## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL

# FAIR Data Point

F2



Title / Description / Publisher / Version / Language / License /  
Start date / Last update / Institution / Country

## Data Catalog layer

Title / Description / Publisher / Version / Language

## Dataset layer

Title / Description / Publisher / Version / Language / License / Issued /  
Modified / Keywords / Theme / Contact point / Landing page

## Distribution layer

Title / Description / License / Issued / Modified / Media Type / Format / Byte Size /  
Download URL / Access URL



graph, excel, publication, report



https://fdp.kiu.ac.ug

## KIU FAIR Data Point

This FAIR Data Point contains the metadata of datasets and other artefacts related to the COVID-19 pandemic and other health data in Kampala International University and the rest of Uganda.

### Catalogs

#### **Covid-19 Case Report Form**

Covid-19 case report forms following WHO standard

**Issued** 13-07-2020 **Modified** 13-07-2020

#### **Migrant Media Reports**

These are national and international media reports published during the covid-19 crisis.

**Issued** 13-07-2020 **Modified** 13-07-2020

Metadata Issued  
**01-07-2020**

Metadata Modified  
**13-07-2020**

Version  
**1.0**

Language  
**en**

License  
**cc-by-nc-nd3.0**

Institution  
**kiu.ac.ug**

Start date  
**03-06-2020**

Last update  
**13-07-2020**

Institution country  
**Q1036**

https://fdp.kiu.ac.ug

FDP

**FAIR** FAIR Data Point

Log in

## KIU FAIR Data Point

This FAIR Data Point contains the metadata of datasets and other artefacts related to the COVID-19 pandemic and other health data in Kampala International University and the rest of Uganda.

### Catalogs

#### Covid-19 Case Report Form

Covid-19 case report forms following WHO standard

Issued 13-07-2020 Modified 13-07-2020

#### Migrant Media Reports

These are national and international media reports published during the covid-19 crisis.

Issued 13-07-2020 Modified 13-07-2020

Metadata Issued  
**01-07-2020**

Metadata Modified  
**13-07-2020**

Version  
**1.0**

Language  
**en**

License  
**cc-by-nc-nd3.0**

Institution  
**kiu.ac.ug**

Start date  
**03-06-2020**

Last update  
**13-07-2020**

Institution country  
**Q1036**

https://fdp.kiu.ac.ug

Catalog

[KIU FAIR Data Point](#) / [Migrant Media Reports](#)

## Migrant Media Reports

These are national and international media reports published during the covid-19 crisis.

### Datasets

#### Media Report Dataset

These datasets are media reports concerning events related to the impact of covid-19 crisis on immigrants in Tunisia.

Q38926

Q57979909

Issued 13-07-2020 Modified 13-07-2020

Metadata Issued  
13-07-2020

Metadata Modified  
13-07-2020

Version  
1.0

Language  
en

License

Issued  
13-07-2020

Modified  
13-07-2020

Theme taxonomy

- Q38926
- Q57979909

https://fdp.kiu.ac.ug

**Dataset**

## Media Report Dataset

These datasets are media reports concerning events related to the impact of covid-19 crisis on immigrants in Tunisia.

### Distributions

#### Media Reports listed in a google document

These are internet links to media reports listed in a google document.

**Issued** 13-07-2020 **Modified** 13-07-2020 **Media Type** <https://w3id.org/mediatype/text/html>

Metadata Issued  
**13-07-2020**

Metadata Modified  
**13-07-2020**

Version  
**1.0**

Language  
**en**

License

Issued  
**13-07-2020**

Modified  
**13-07-2020**

Theme  

- [Q38926](#)
- [Q57979909](#)

https://fdp.kiu.ac.ug

**Dataset**

## Media Report Dataset

These datasets are media reports concerning events related to the impact of covid-19 crisis on immigrants in Tunisia.

### Distributions

#### Media Reports listed in a [google document](#)

These are internet links to media reports listed in a google document.

Issued 13-07-2020 Modified 13-07-2020 [Media Type https://w3id.org/mediatype/text/html](https://w3id.org/mediatype/text/html)

Metadata Issued  
**13-07-2020**

Metadata Modified  
**13-07-2020**

Version  
**1.0**

Language  
**en**

License

Issued  
**13-07-2020**

Modified  
**13-07-2020**

Theme

- [Q38926](#)
- [Q57979909](#)

https://fdp.kiu.ac.ug

## Media Reports listed in a google document

These are internet links to media reports listed in a google document.

 Access online

**Access  
to the  
dataset**



Metadata Issued  
**13-07-2020**

Metadata Modified  
**13-07-2020**

Version  
**1.0**

Language  
**en**

License

Issued  
**13-07-2020**

Modified  
**13-07-2020**

Media type  
**https://w3id.org/mediatype/text/html**

https://fdp.kiu.ac.ug



Corona - Migration - press artic...



Bewerkingsrechten vragen



Delen

Bestand Bewerken Weergeven Extra Help



## The Dataset

### Tunisie

- Facts

Reportages sur la situation des migrants

<https://www.theguardian.com/global-development/2020/apr/16/we-have-nothing-as-lockdown-bites-migrants-in-tunisia-feel-the-pinch>

Yossra Kallali: Réflexion sur l'impact de Covid-19 sur les migrants, et la migration

<https://www.leaders.com.tn/article/30036-yossra-kallali-reflexion-sur-l-impact-de-covid-19-sur-les-migrants-et-la-migration>

<https://nawaat.org/portail/2020/04/23/confinement-la-detresse-des-migrants-subsahariens-en-tunisie/>

Les étudiants Tchadiens quittent le pays

<https://www.afrikyes.com/actualite/vie-associative/depart-des-etudiants-tchadiens-de-la-tunisie/>

Les subsahariens prient pour la Tunisie

<https://www.youtube.com/watch?v=Pu3V-gZ0Cy8&feature=youtu.be>

En Tunisie, les migrants subsahariens démunis face à la pandémie de coronavirus

<https://www.jeuneafrique.com/915161/societe/en-tunisie-les-migrants-subsahariens-demunis-face-a-la-pandemie-de-coronavirus/>

53% of migrants lost jobs in Tunisia in COVID-19 lockdown

## 6.7 Class: Distribution

The following properties are specific to this class: [access rights](#), [access URL](#), [access service](#), [byte size](#), [compression format](#), [conforms to](#), [description](#), [download URL](#), [format](#), [has policy](#), [license](#), [media type](#), [packaging format](#), [release date](#), [rights](#), [spatial resolution](#), [temporal resolution](#), [title](#), [update/modification date](#).

|                   |  |
|-------------------|--|
| <b>RDF class:</b> | <b><a href="#">dcat:Distribution</a></b>   |
| Definition:       | A specific representation of a dataset. A dataset might be available in multiple serializations that may differ in various ways, including natural language, media-type or format, schematic organization, temporal and spatial resolution, level of detail or profiles (which might specify any or all of the above). |
| Usage note:       | This represents a general availability of a dataset. It implies no information about the actual access method of the data, i.e. whether by direct download, API, or through a Web page. The use of <a href="#">dcat:downloadURL</a> property indicates directly downloadable distributions.                            |
| See also:         | <a href="#">§ 6.8 Class: Data Service</a>  |

### NOTE

Examples of distributions include a CSV file, a [netCDF] file, a JSON document, or a data-cube, files made accessible according to different profiles, such as XML or JSON schemas or [ShEx] or [SHACL] expressions.



## 6.7 Class: Distribution

The following properties are specific to this class: [access rights](#), [access URL](#), [access service](#), [byte size](#), [compression format](#), [conforms to](#), [description](#), [download URL](#), [format](#), [has policy](#), [license](#), [media type](#), [packaging format](#), [release date](#), [rights](#), [spatial resolution](#), [temporal resolution](#), [title](#), [update/modification date](#).

|                    |  |
|--------------------|--|
| <b>RDF class:</b>  | <b><a href="#">dcat:Distribution</a></b>   |
| <b>Definition:</b> | A specific representation of a dataset. A dataset might be available in multiple serializations that may differ in various ways, including natural language, media-type or format, schematic organization, temporal and spatial resolution, level of detail or profiles (which might specify any or all of the above). |
| <b>Usage note:</b> | This represents a general availability of a dataset. It implies no information about the actual access method of the data, i.e. whether by direct download, API, or through a Web page. The use of <a href="#">dcat:downloadURL</a> property indicates directly downloadable distributions.                            |
| <b>See also:</b>   | <a href="#">§ 6.8 Class: Data Service</a>  |

### NOTE

Examples of distributions include a CSV file, a [netCDF] file, a JSON document, or a data-cube, files made accessible according to different profiles, such as XML or JSON schemas or [ShEx] or [SHACL] expressions.

# Dublin Core™ Metadata Initiative

<https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms/format>

|  |   |
|--|---|
| <b>Term Name: format</b><br><a href="#">More details</a> |   |
| <b>URI</b>   | <a href="http://purl.org/dc/terms/format">http://purl.org/dc/terms/format</a>   |
| <b>Label</b>   | Format  |
| <b>Definition</b>  | The file format, physical medium, or dimensions of the resource.  |
| <b>Comment</b>   | Recommended practice is to use a controlled vocabulary where available. For example, for file formats one could use the list of Internet Media Types <a href="#">[MIME]</a> . Examples of dimensions include size and duration. |

# Media Types

Last Updated

2021-04-28

Registration Procedure(s)

Expert Review for Vendor and Personal Trees.

Expert(s)

Ned Freed, Alexey Melnikov, Murray Kucherawy (backup)

Reference

[\[RFC6838\]](#)[\[RFC4855\]](#)

Note

Per Section 3.1 of [\[RFC6838\]](#), Standards Tree requests made through IETF documents will be reviewed and approved by the IESG, while requests made by other recognized standards organizations will be reviewed by the Designated Expert in accordance with the Specification Required policy. IANA will verify that this organization is recognized as a standards organization by the IESG.

Note

[\[RFC2046\]](#) specifies that Media Types (formerly known as MIME types) and Media Subtypes will be assigned and listed by the IANA.

Procedures for registering Media Types can be found in [\[RFC6838\]](#), [\[RFC4289\]](#), and [\[RFC6657\]](#). Additional procedures for registering media types for transfer via Real-time Transport Protocol (RTP) can be found in [\[RFC4855\]](#).

The following is the list of Directories of Content Types and Subtypes. If you wish to register a Media Type with the IANA, please see the following for the online application:

[\[Application for registration of Media Types\]](#)

Other Media Type Parameters: [\[IANA registry media-types-parameters\]](#)

Media Type Sub-Parameters: [\[IANA registry media-type-sub-parameters\]](#)

Provisional Standard Media Type Registry: [\[IANA registry provisional-standard-media-types\]](#)

| Name                          | Template  | Reference                |
|-------------------------------|---|--------------------------|
| 1d-interleaved-parityfec      | <a href="#">application/1d-interleaved-parityfec</a>      | [RFC6015]                |
| 3gpdash-qoe-report+xml        | <a href="#">application/3gpdash-qoe-report+xml</a>        | [_3GPP][Ozgur_Oyman]     |
| 3gppHal+json                  | <a href="#">application/3gppHal+json</a>                  | [_3GPP][Ulrich_Wiehe]    |
| 3gppHalForms+json             | <a href="#">application/3gppHalForms+json</a>             | [_3GPP][Ulrich_Wiehe]    |
| 3gpp-ims+xml                  | <a href="#">application/3gpp-ims+xml</a>                  | [_3GPP][John_M_Meredith] |
| A2L                           | <a href="#">application/A2L</a>                           | [ASAM][Thomas_Thomsen]   |
| activemessage                 | <a href="#">application/activemessage</a>                 | [Ehud_Shapiro]           |
| activity+json                 | <a href="#">application/activity+json</a>                 | [W3C][Benjamin_Goering]  |
| alto-costmap+json             | <a href="#">application/alto-costmap+json</a>             | [RFC7285]                |
| alto-costmapfilter+json       | <a href="#">application/alto-costmapfilter+json</a>       | [RFC7285]                |
| alto-directory+json           | <a href="#">application/alto-directory+json</a>           | [RFC7285]                |
| alto-endpointprop+json        | <a href="#">application/alto-endpointprop+json</a>        | [RFC7285]                |
| alto-endpointpropparams+json  | <a href="#">application/alto-endpointpropparams+json</a>  | [RFC7285]                |
| alto-endpointcost+json        | <a href="#">application/alto-endpointcost+json</a>        | [RFC7285]                |
| alto-endpointcostparams+json  | <a href="#">application/alto-endpointcostparams+json</a>  | [RFC7285]                |
| alto-error+json               | <a href="#">application/alto-error+json</a>               | [RFC7285]                |
| alto-networkmapfilter+json    | <a href="#">application/alto-networkmapfilter+json</a>    | [RFC7285]                |
| alto-networkmap+json          | <a href="#">application/alto-networkmap+json</a>          | [RFC7285]                |
| alto-updatestreamcontrol+json | <a href="#">application/alto-updatestreamcontrol+json</a> | [RFC8895]                |
| alto-updatestreamparams+json  | <a href="#">application/alto-updatestreamparams+json</a>  | [RFC8895]                |
| AML                           | <a href="#">application/AML</a>                           | [ASAM][Thomas_Thomsen]   |
| andrew-inset                  | <a href="#">application/andrew-inset</a>                  | [Nathaniel_Borenstein]   |
| applefile                     | <a href="#">application/applefile</a>                     | [Patrik_Faltstrom]       |
| ATF                           | <a href="#">application/ATF</a>                           | [ASAM][Thomas_Thomsen]   |
| ATFX                          | <a href="#">application/ATFX</a>                          | [ASAM][Thomas_Thomsen]   |
| atom+xml                      | <a href="#">application/atom+xml</a>                      | [RFC4287][RFC5023]       |
| atomcat+xml                   | <a href="#">application/atomcat+xml</a>                   | [RFC5023]                |
| atomdeleted+xml               | <a href="#">application/atomdeleted+xml</a>               | [RFC6721]                |
| atomicmail                    | <a href="#">application/atomicmail</a>                    | [Nathaniel_Borenstein]   |
| atomsvc+xml                   | <a href="#">application/atomsvc+xml</a>                   | [RFC5023]                |



# Metadata for Machines Workshops

<https://www.go-fair.org/today/making-fair-metadata/>





# Metadata for Machines Workshops

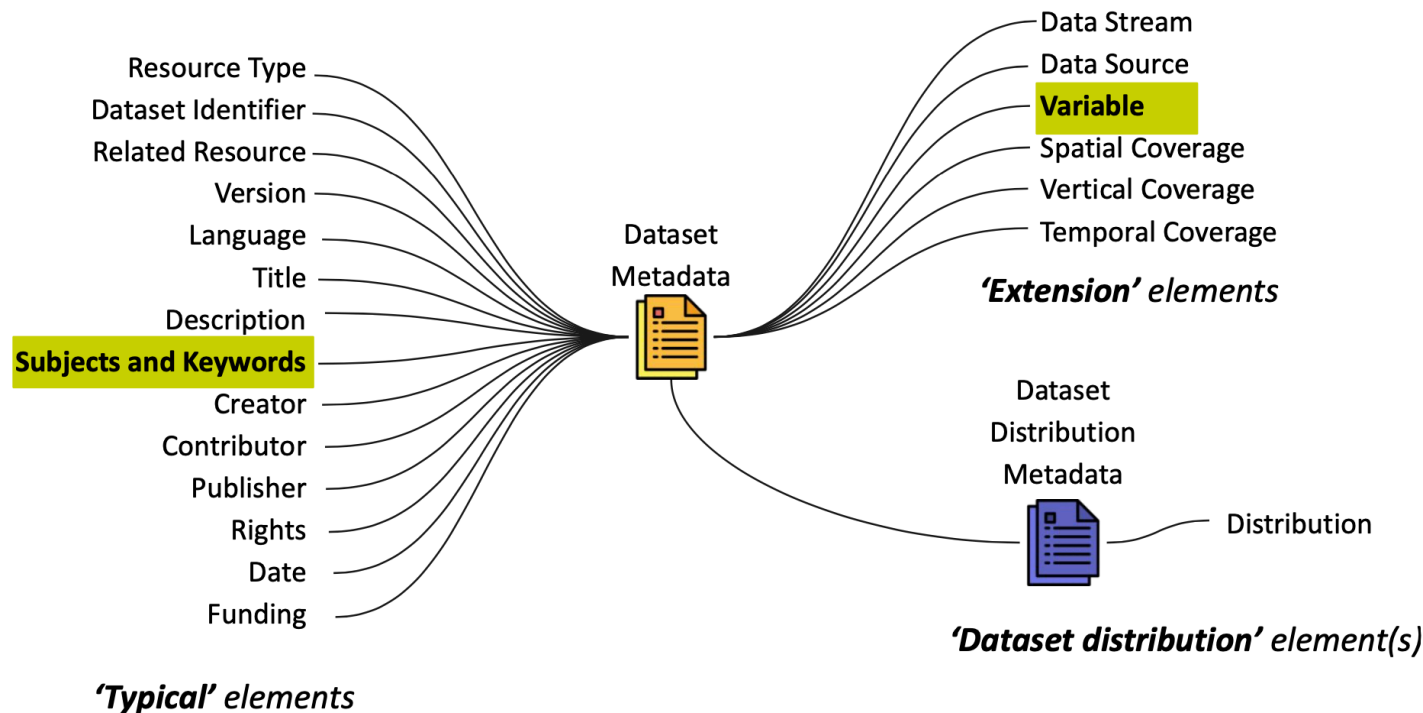
<https://www.go-fair.org/today/making-fair-metadata/>





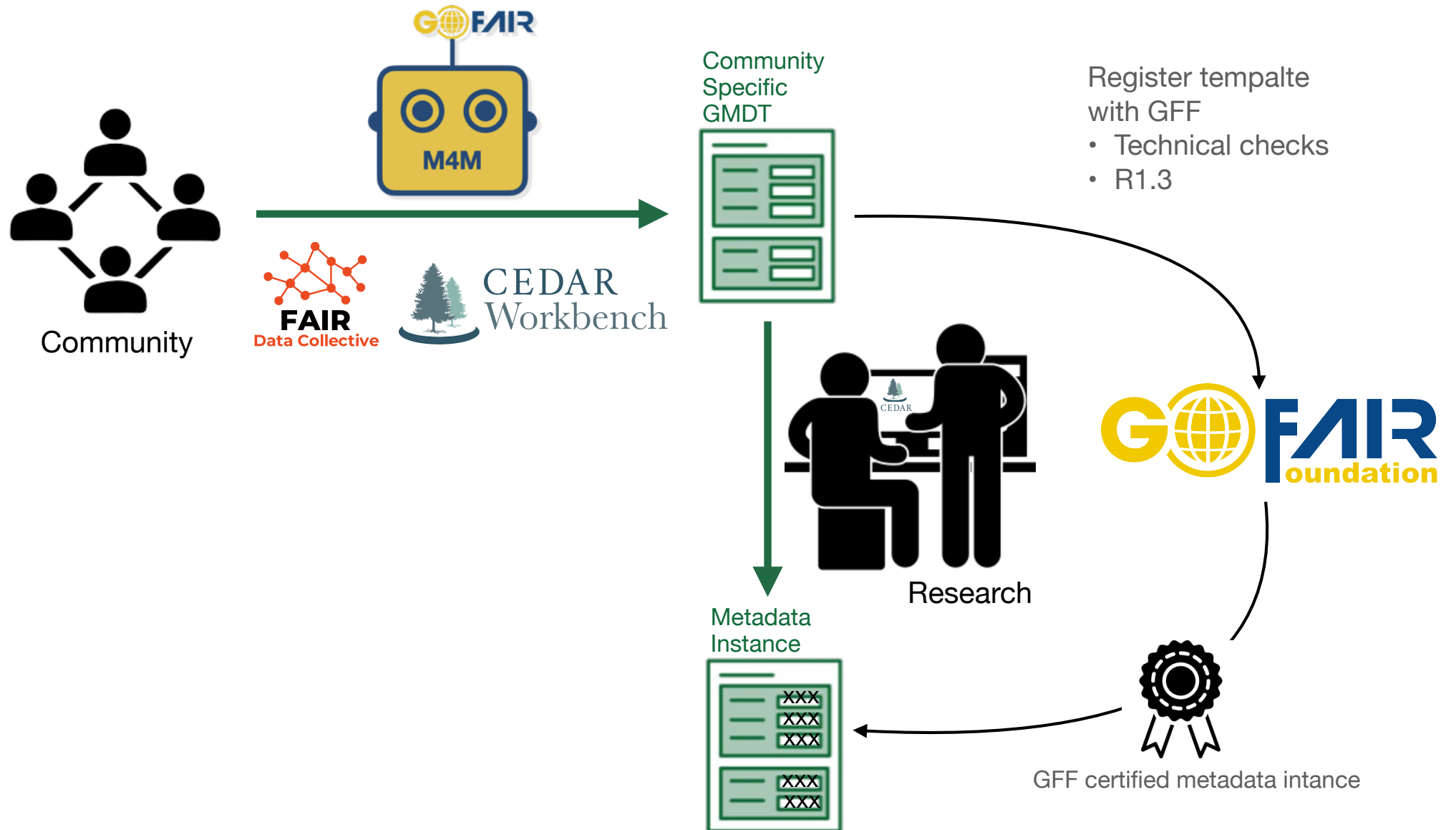
# Metadata for Machines Workshops

<https://www.go-fair.org/today/making-fair-metadata/>



 Elements that we will re-create to turn GDMT into a domain specific template

# R1.3 & Certification





**M4M.7**  
 13 projects  
 21 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**M4M.8**  
 10 projects  
 17 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**M4M.9**  
 6 projects  
 12 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**M4M.10**  
 7 projects  
 13 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**M4M.11**  
 9 projects  
 16 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**M4M.12**  
 14 projects  
 21 participants

↓

1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**Brainstorm  
 controlled  
 lists**

**November**

**COVID-19 Program  
 controlled list**

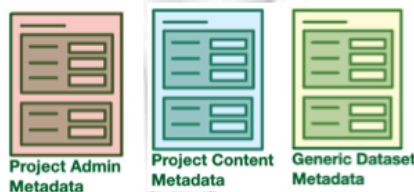
1. Data
2. Images
3. Biomaterials
4. Services
5. Standards

**February**

**Feb 9: Consolidation of lists and terms describing the project assets**  
**Feb 17: Building the COVID-19 Program Vocabulary**



**March**



**COVID  
 Program  
 Duration**

**COVID-19 Program  
 metadata input forms**

|  |                      |
|--|----------------------|
| observable property                        | <input type="text"/> |
| observable property                        | <input type="text"/> |
| average physical exercise duration per day | <input type="text"/> |
| duration                                   | <input type="text"/> |
| observed object                            | <input type="text"/> |
| physical exercise                          | <input type="text"/> |
| matrix                                     | <input type="text"/> |
| human                                      | <input type="text"/> |
| constraint                                 | <input type="text"/> |
| per day                                    | <input type="text"/> |
| modifier                                   | <input type="text"/> |
| average                                    | <input type="text"/> |
| unit                                       | <input type="text"/> |
| is   | <input type="text"/> |



**FAIR  
 Data  
 Points**

# FAIR well !

## Acknowledgements



Barbara Magagna  
Environment Agency Austria  
(PhD student Univ. Twente)



Nikola Vasiljevic  
FAIR Data Collective

Jeroen Belien, AUMC  
John Graybeal, Stanford University  
Kristina Hettne, Leiden University  
Tobias Kuhn, Assistant Professor at Vrije Universiteit Amsterdam  
Robert Pergl, Czech Technical University in Prague  
Jan Slifka, Czech Technical University in Prague  
Wouter van Stralen, Low Code Solutions  
Tieneke Schaaij-Visser, Lygature, Health-RI  
Sofie Hansen, Lygature, Health-RI  
Rita Azevedo, Lygature, Health-RI  
Mijke Jetten, DTL, Health-RI International Science Coordinator



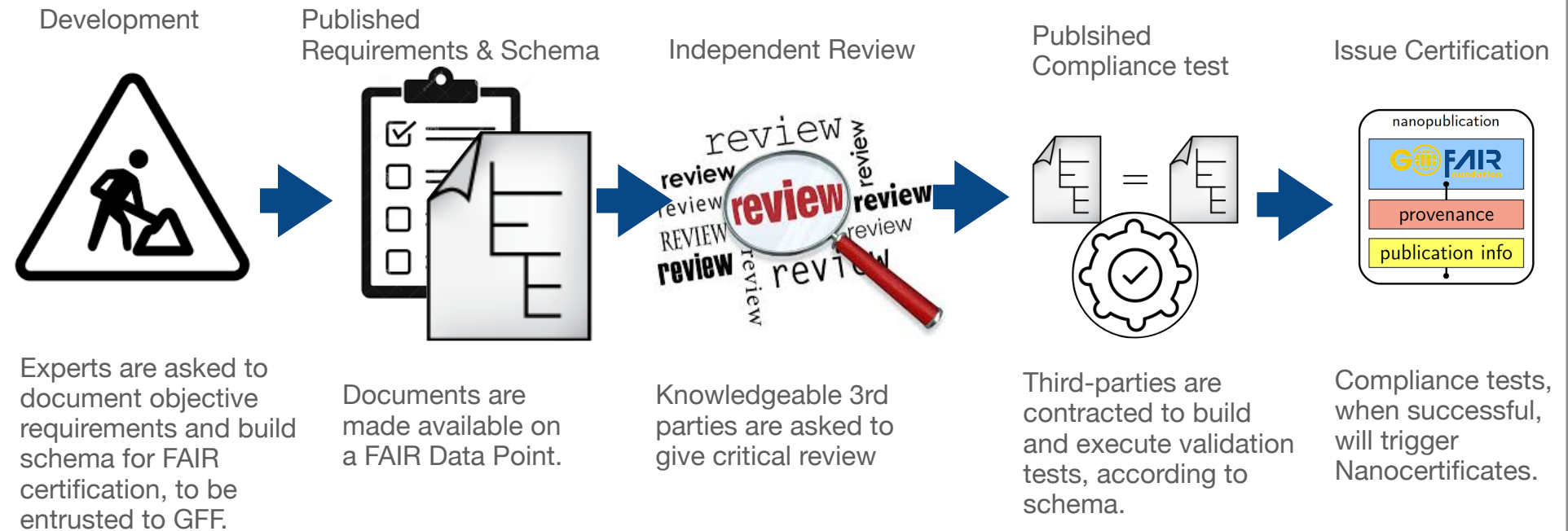


## Certification Process



Expert groups are convened and tasked to define achievable levels of FAIRness for Events, People, Technology

Open, transparent process having regular iterations and versioning



## Publish a new Nanopublication

**Assertion:** Certifying a nanopublication ↗ ([change](#))

<https://w3id.org/fair/gofair/terms/G0-FAIR-Foundation>

certifies

<http://purl.org/np/RAAEKgxLdgvZ3q9bsg0-Fcf8s86jH92YGWY0tNjn6nyKU>

**Provenance:** [Attributed to myself](#) ↗

The assertion above is attributed to me .

**Publication info** [add element...](#)

Creator: ↗

This nanopublication is created by me .

I understand that publishing cannot be undone and that the provided information will be publicly visible and openly connected to my ORCID identifier.

**Publish**

- Approves-of
  - Certifies (conforms to GFF requirements)