

How to Manage Metadata The MetaRepo: Introduction

Thomas Jejkal

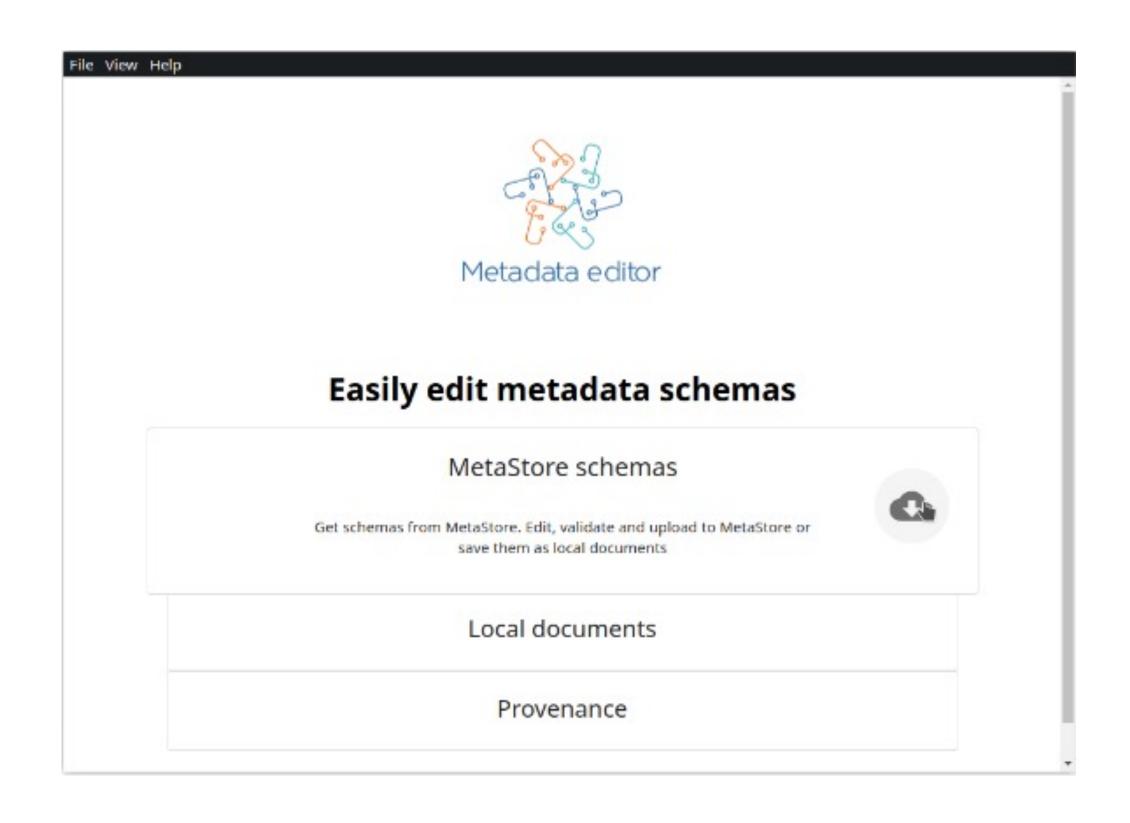
KARLSRUHE INSTITUTE OF TECHNOLOGY







STATUS QUO







- Learned about FAIR principles
- Plan, organize, and publish FAIR data
- Metadata schemas and Metadata editor







AGENDA

Why Metadata Management?

What's MetaStore?





This initiative has received funding from the EU's H2020 framework program for research and innovation under grant agreement n. 101007417, NFFA-Europe Pilot Project

Hands-on

Introducing MetaRepo





nffa.eu PILOT 2021 2026

Why Metadata Management?





Data vs. Metadata – Differences

Metadata	Data	
Information providing context and attributes	Raw facts, measurements, observations	Nature and content
Data management, discovery, interpretation	Analysis, decision-making, research	Usage
Structured	Mostly unstructured	Representation
Linked to data/other metadata	Independent and stand-alone	Relationship
Supporting framework for organization, management, interpretation	Primary source of information	Purpose and function









Proposal

- techniques, sample information, etc.



2021 2026

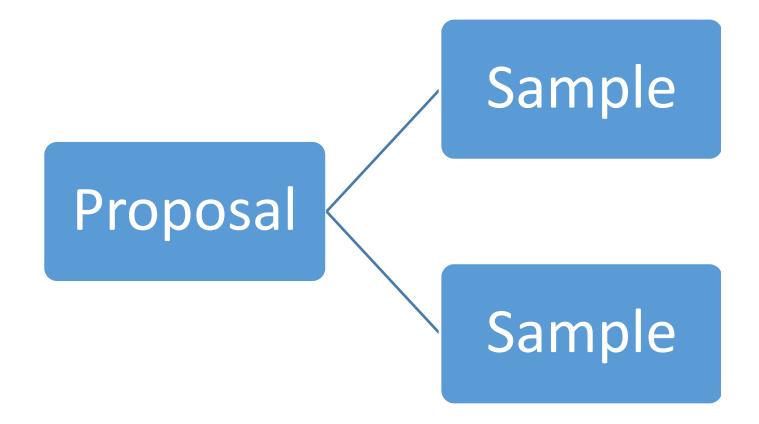
nffa.eu

• Proposal information, e.g., unique identifier, title, abstract, used

• Permission information, e.g., team members, principal investigator Provides overall context, may be basis for publication information







- May support **findability** of particular measurement
- Allows interpretation of results

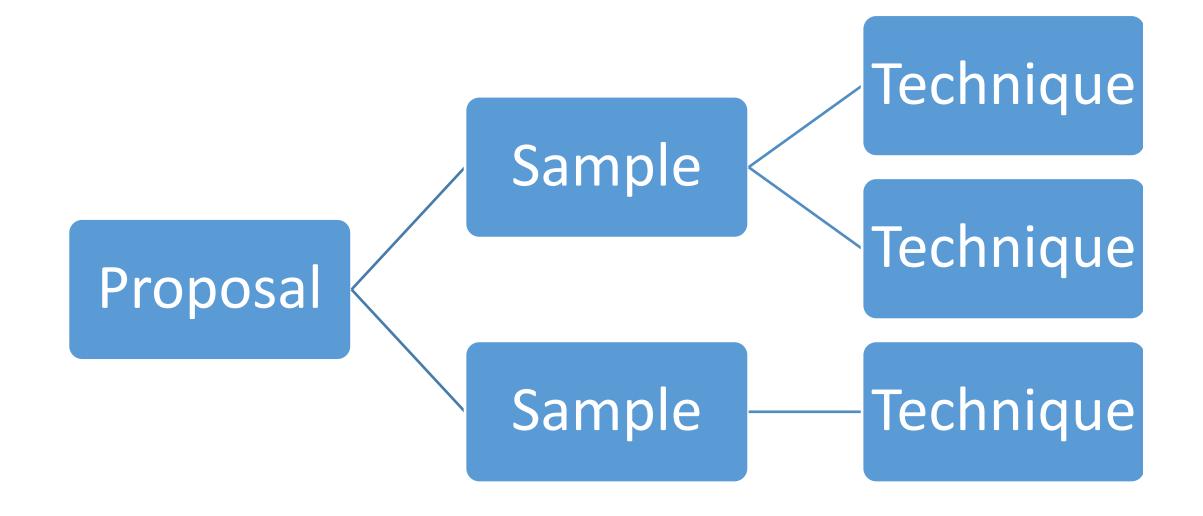


nffa.eu

Information on performed steps and parameters during sample preparation







- Specific information on used technique and parameters
- Raw data capturing (and storage)
- Basis for further analysis

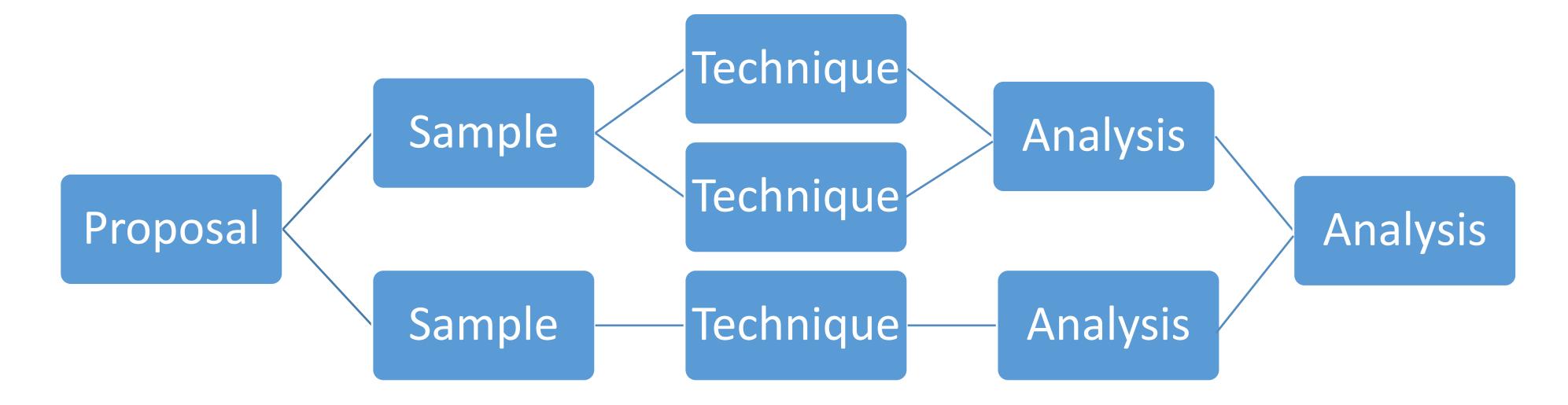


nffa.eu

PILOT 2021 2026







- Information on used software and parameters
- Should facilitate reproducibility



2021 2026

nffa.eu

May result in derived data or additional analysis result metadata





Conclusions – Building the Framework

Modular metadata eases colled

Metadata editor helps

Local work avoids accidential publis







Contra	Pro
Requires disciplined recording	ection
Metadata stored locally	s user
Local metadata hinders collaboration	shing







Published February 16, 2022 | Version 2.0.0

Magnetic Resonance Imaging Copper Sulfate Dataset

Nicolas Blumenröhr¹ 🕞

Show affiliations

🔒 Open

Dataset

 \equiv

Data collectors: Neil MacKinnon¹; Rossella Aversa²

Show affiliations

The data has been produced by the Institut für Mikrostrukturtechnik (IMT) at Karlsruher Institut für Technologie (KIT). This dataset represents the DICOM (Digital Imaging and Communications in Medicine) files, which belong to one MRI (Magnetic Resonance Imaging) study and contain a series of images that have been measured with different protocols. The samples shown by the images are tubes, which contain different concentrations of CuSO4. The DICOM file headers have metadata tags, which embody additional information about the study and the particular series.





• (Proposal) title







Published February 16, 2022 | Version 2.0.0

Magnetic Resonance Imaging Copper Sulfate Dataset

Nicolas Blumenröhr¹ 🝺

Data collectors: Neil MacKinnon¹; Rossella Aversa²

Show affiliations

 \equiv

🔒 Open

Dataset

Show affiliations

The data has been produced by the Institut für Mikrostrukturtechnik (IMT) at Karlsruher Institut für Technologie (KIT). This dataset represents the DICOM (Digital Imaging and Communications in Medicine) files, which belong to one MRI (Magnetic Resonance Imaging) study and contain a series of images that have been measured with different protocols. The samples shown by the images are tubes, which contain different concentrations of CuSO4. The DICOM file headers have metadata tags, which embody additional information about the study and the particular series.





• (Proposal) title

• Team members







Published February 16, 2022 | Version 2.0.0

Magnetic Resonance Imaging Copper Sulfate Dataset

Nicolas Blumenröhr¹

Show affiliations

🔒 Open

Dataset

 \equiv

Data collectors: Neil MacKinnon¹; Rossella Aversa²

Show affiliations

The data has been produced by the Institut für Mikrostrukturtechnik (IMT) at Karlsruher Institut für Technologie (KIT). This dataset represents the DICOM (Digital Imaging and Communications in Medicine) files, which belong to one MRI (Magnetic Resonance Imaging) study and contain a series of images that have been measured with different protocols. The samples shown by the images are tubes, which contain different concentrations of CuSO4. The DICOM file headers have metadata tags, which embody additional information about the study and the particular series.





- (Proposal) title
- Team members
- (Proposal) abstract





Zenodo	
Published February 16, 2022 Version Files	2.0.0 Dataset Open
Files (34.3 MB)	~
series0.dcm md5:bb672509c35b4b7d94019b9065271ab6 @	
1.8 MB	
	🛓 Download
series1.dcm md5:1deb52c14c4ebd7d33da4144d80e554a 🕜	
1.8 MB	
	🛓 Download





- (Proposal) title
- Team members
- (Proposal) abstract
- Upload files from datashare
- Additional metadata exported from Metadata editor and uploaded





Conclusions - Publication

Publication makes (meta)data find

Additional metadata can be upload

Data and metadata accessible and reus

Published data is



nffa.eu

Pro	Contra
dable	Findability limited to publication metadata
ded	but is handled as opaque files
sable	Both must be downloaded for insights
fixed	Updates require re-publishing





How to Improve

Zenodo		•(Prop
Published February 16, 2022 Version 2.0.0 Files	Dataset Open	 (Prop Team
Files (34.3 MB)	~	•(Prop
series0.dcm md5:bb672509c35b4b7d94019b9065271ab6 @		 Uploa Additi
1.8 MB		public
	🛓 Download	_
Additional details		
References • https://metare d81c59dbbe3	epo.nffa.eu/api/v1/metadata/5bc69277-711c-4e 36?version=1	b0-937d-





osal) title

- members
- osal) abstract
- ad files from datashare
- ional metadata linked to cation





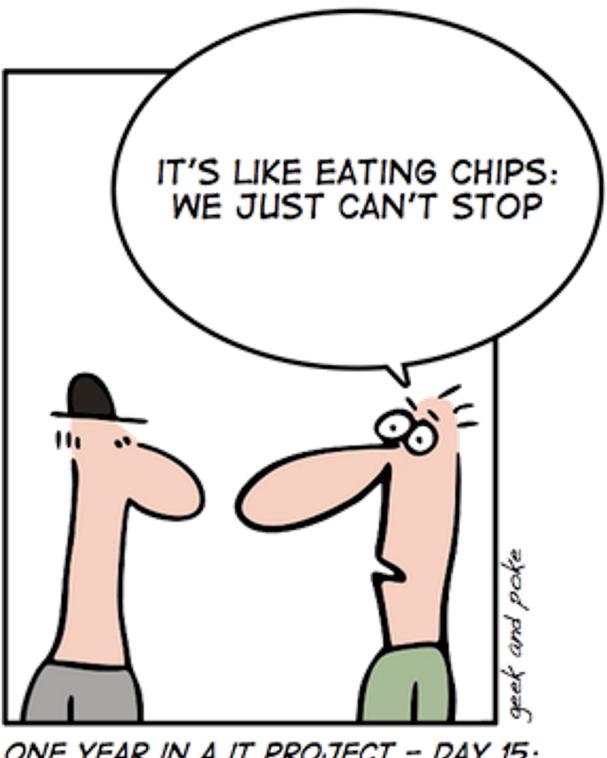
Additional Requirements

- Metadata must be accessible online
- •**Possible integration** into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state





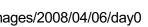
secretariat@nffa.eu



ONE YEAR IN A IT PROJECT - DAY 15: REQUIREMENTS INFLATION

https://geekandpoke.typepad.com/geekandpoke/images/2008/04/06/day0 15.jpg







nffa.eu PILOT 2021 2026

What's MetaStore?





MetaStore – Motivation and Goals

Motivation

- Different stakeholders from different domains
- Integration/support of domain-specific, single-purpose systems expensive and hard to maintain
- Need for customizable user experience depending on use case









MetaStore – Motivation and Goals

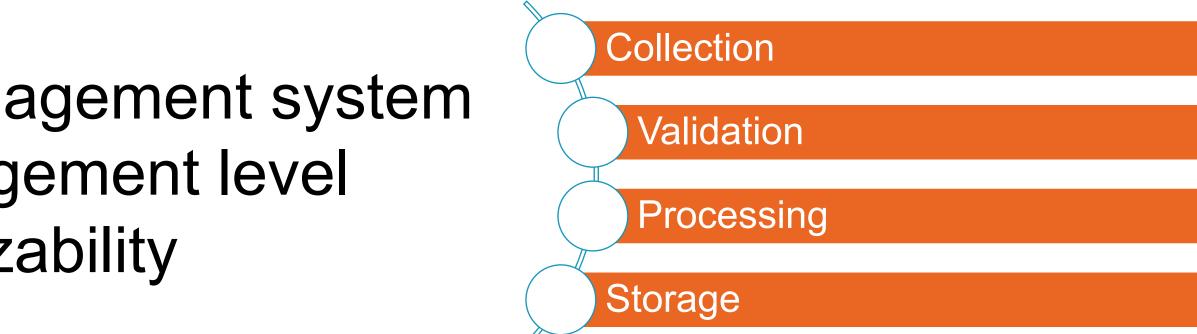
Motivation

- Different stakeholders from different domains
- Integration/support of domain-specific, single-purpose systems expensive and hard to maintain
- Need for customizable user experience depending on use case

Goals

- Offer general purpose metadata management system
- Domain-agnostic on metadata management level
- Support for extensibility and customizability











MetaStore – A short History

MetaStore v1

- Started around 2016
- Focus on schema-compliant XML metadata
- METS standard as core metadata model
- Machine-readable API to read/write METS documents
- Fine-grained permissions and indexing







Metadata Encoding & Transmission Standard

- <mets>
- <metsHdr/>
- <dmdSec/> 3
- <amdSec/> 4
- <fileSec/> 5
- <structMap/> 6
- <structLink/> 7
- <behaviorSec/>
- </mets> 9









MetaStore – A short History

MetaStore v1

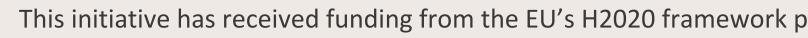
- Started around 2016
- Focus on schema-compliant XML metadata
- METS standard as core metadata model
- Machine-readable API to read/write METS documents
- Fine-grained permissions and indexing



- Technically outdated software stack
- XML too strict and hard to handle
- Increasing importance of JSON



nffa.eu





Metadata Encoding & Transmission Standard

- <mets>
- <metsHdr/>
- <dmdSec/>
- <amdSec/> 4
- <fileSec/> 5
- <structMap/> 6
- <structLink/> 7
- <behaviorSec/>
- </mets> 9









MetaStore – A short History

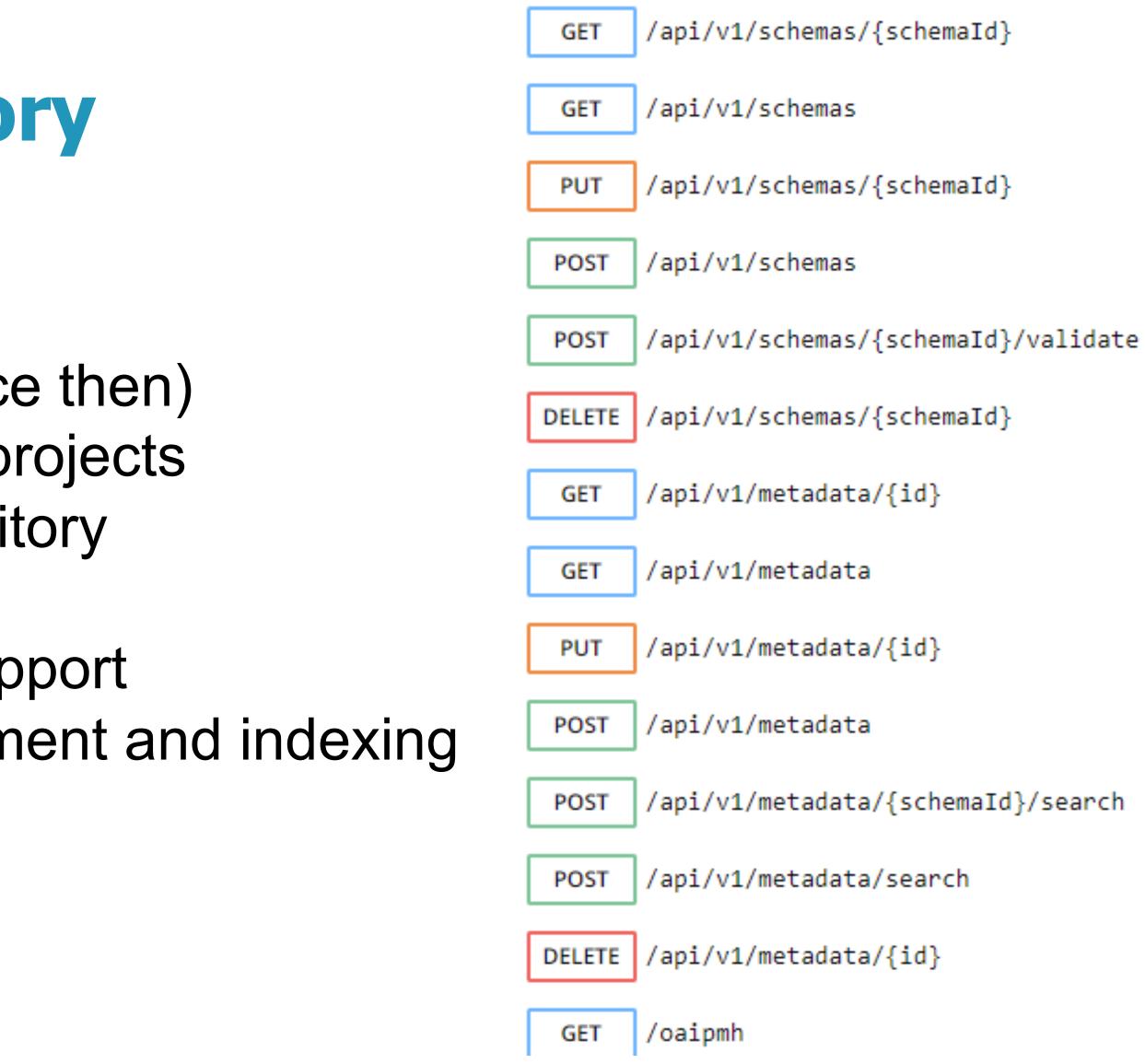
MetaStore2

- Public release 2020 (20 releases since then)
- Applied in national and international projects
- Schema registry and metadata repository
- Support for XML and JSON
- Build-in versioning and harvesting support
- Support for external access management and indexing
- Clear and intuitive API structure





secretariat@nffa.eu







MetaStore – Register a Metadata Schema

Metadata Schema

schema.json:

```
"$schema": "http://json-schema.org/draft/2019-09/schema#",
"$id": "http://www.example.org/schema/json",
"type": "object",
"title": "Json schema for tests",
"default": {},
"required": [
  "title"
"properties": {
"title": {
  "$id": "#/properties/string",
  "type": "string",
  "title": "Title",
  "description": "Title of object."
"additionalProperties": false
```





secretariat@nffa.eu

Administrative Metadata

schema-record4json.json:

"schemald" : "my_first_json", "type" : "JSON"

API-Call

\$ curl 'http://localhost:8040/api/v1/schemas' -i -X POST

-H 'Content-Type: multipart/form-data'

-F 'schema=@schema.json;type=application/json'

-F 'record=@schema-record4json.json;type=application/json'





MetaStore – Register a Metadata Document

Metadata Document

metadata.json:

"title": "My first JSON document"

API-Call

\$ curl 'http://localhost:8040/api/v1/metadata' -i -X POST

-H 'Content-Type: multipart/form-data'

-F 'record=@metadata-record4json.json;type=application/json'

-F 'document=@metadata.json;type=application/json'





secretariat@nffa.eu

Administrative Metadata

```
metadata-record4json.json:
  "relatedResource": {
     "identifier": "anyResourceId",
     "identifierType": "INTERNAL"
  ۶,
  "schema": {
     "identifier": "my_first_json",
     "identifierType": "INTERNAL"
  "schemaVersion": 1
```





- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu

stuff!

It's an component.







- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu



stuff!

It's an component.







- Metadata must be accessible online
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu



stuff!

It's an component.





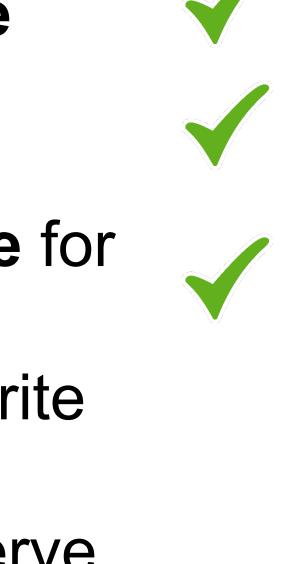


- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu



stuff!

It's an component.







- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu







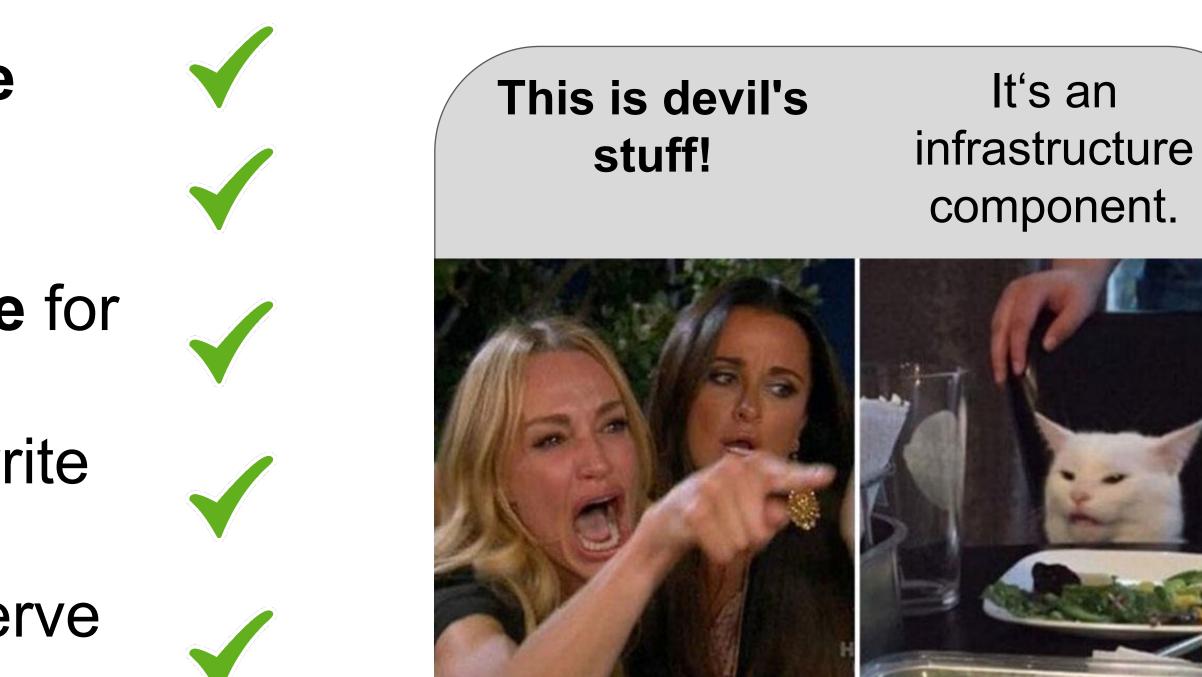


- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations
- Metadata validation required to preserve consistent state



nffa.eu

secretariat@nffa.eu









- Metadata must be **accessible online**
- Possible integration into existing infrastructure(s)
- Metadata must be traceably editable for corrections/additions
- Access management required for write operations Additional details
- Metadata validatior consistent state

References	 https://r d81c59



nffa.eu

secretariat@nffa.eu









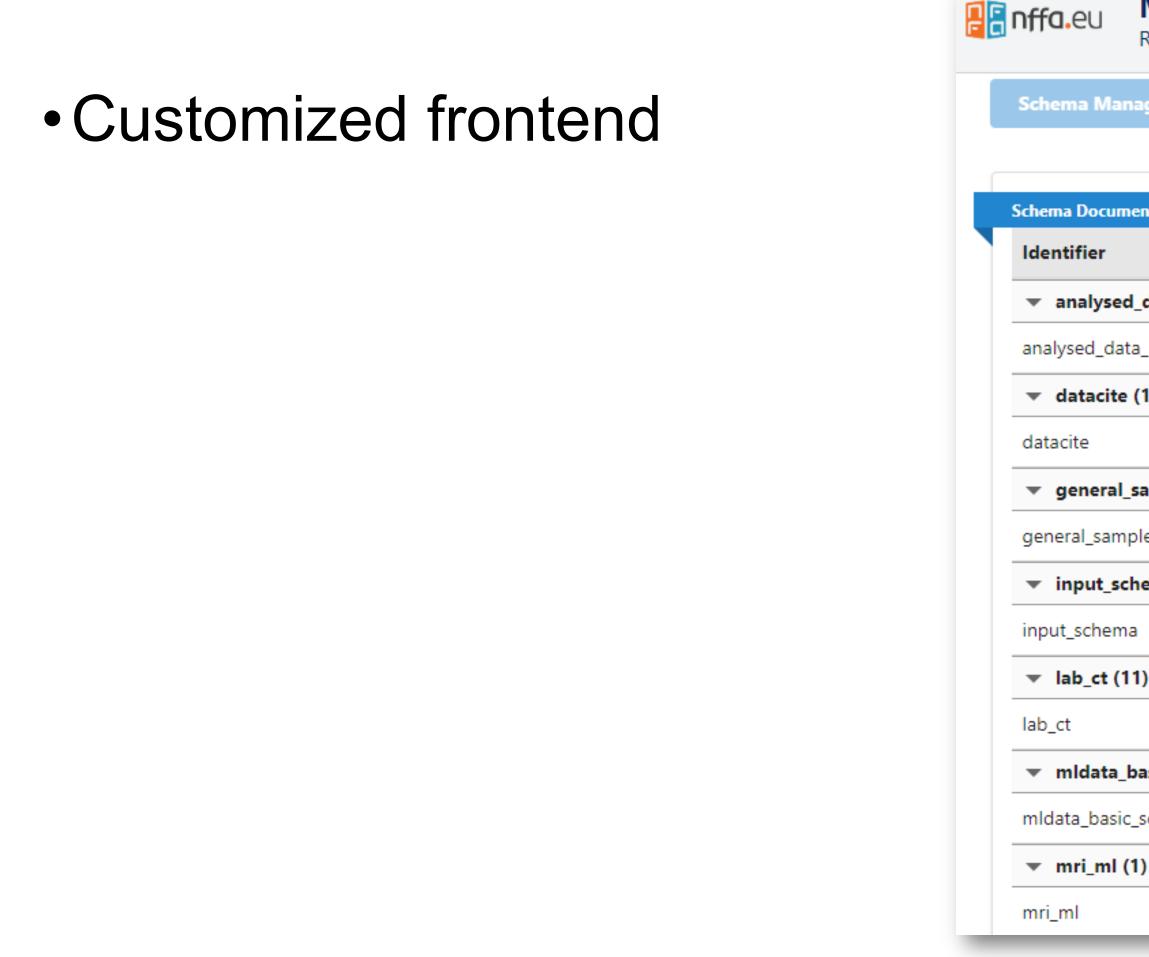
nffa.eu PILOT 2021 2026

Introducing MetaRepo





MetaRepo – An Instance of MetaStore







MetaRepo

Repository for Management of Metadata Schemas and Metadata Documents

Repository	ior managem	ent of metadata	a Schemas and Metad		
Management	Metad	ata Managemen	Search	Show/Hide Filters	Not logged in
ocuments					
er	 Version 	🔺 Туре	Label	Date Updated	
lysed_data_schema	a (1) (1 item)				
d_data_schema	1	JSON	analysed data	2023-09-12 10:21	0 C
acite (1) (1 item)					
	1	JSON		2022-05-03 12:46	0 C
eral_sample (7) (1	l item)				
sample	7	JSON	sample	2024-04-26 09:37	0 C
ut_schema (1) (1 i	tem)				
hema	1	JSON	input	2023-09-12 10:20	0 C
ct (11) (1 item)					
	11	JSON	raw data	2024-02-27 10:54	0 C
ata_basic_schema	(2) (1 item)				
basic_schema	2	JSON		2023-02-10 16:03	0 C
_ml (1) (1 item)					
	1	JSON		2022-05-03 12:46	0 C







MetaRepo – An Instance of MetaStore

- Customized frontend
- Single sign-on integration







MetaRepo

Repository for Management of Metadata Schemas and Metadata Documents

Repository	ormanageme	in or metadate	i Senemas and for		
anagement	Metadata Management				
uments	 Version 	🔺 Туре	Label		
ysed_data_schema	1 (1) (1 item)				
d_data_schema	1	JSON	analys	KEYCLOA	١K
icite (1) (1 item)					
	1	JSON			
eral_sample (7) (1	item)				
sample	7	JSON	sample	2024-04-26 09:37	0 0
ıt_schema (1) (1 it	tem)				
hema	1	JSON	input	2023-09-12 10:20	0 0
ct (11) (1 item)					
	11	JSON	raw data	2024-02-27 10:54	0
ata_basic_schema	(2) (1 item)				
basic_schema	2	JSON		2023-02-10 16:03	0
_ml (1) (1 item)					
	1	JSON		2022-05-03 12:46	00

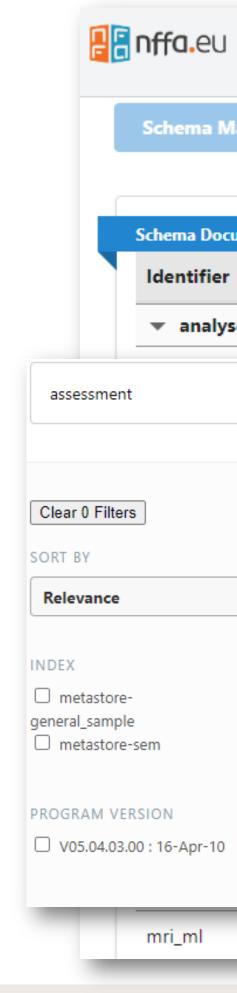






MetaRepo – An Instance of MetaStore

- Customized frontend
- Single sign-on integration
- Custom search







MetaRepo

Repository for Management of Metadata Schemas and Metadata Documents

1	er, i er management er metadata benemas		
Management	Metadata Management		gi
cuments r	▲ Version ▲ Type ▲ Label		
	hema (1) (1 item)		
		Search	K
	Showing 1 - 6 out of 6 for: assessment	Show 20 🗸	_
			0 C
~	SEM 🔗 1 KV	User	0 2
6	C04_200nm_A403.tif Zeiss ULTRA PLUS (ULTRA PLUS-40-44)	Sandeep	
1	assessment (to given categories or values)	Show in MetaRepo	0 C
) 1			• •
_	1 JSON	2022-05-03 12:46	0 C

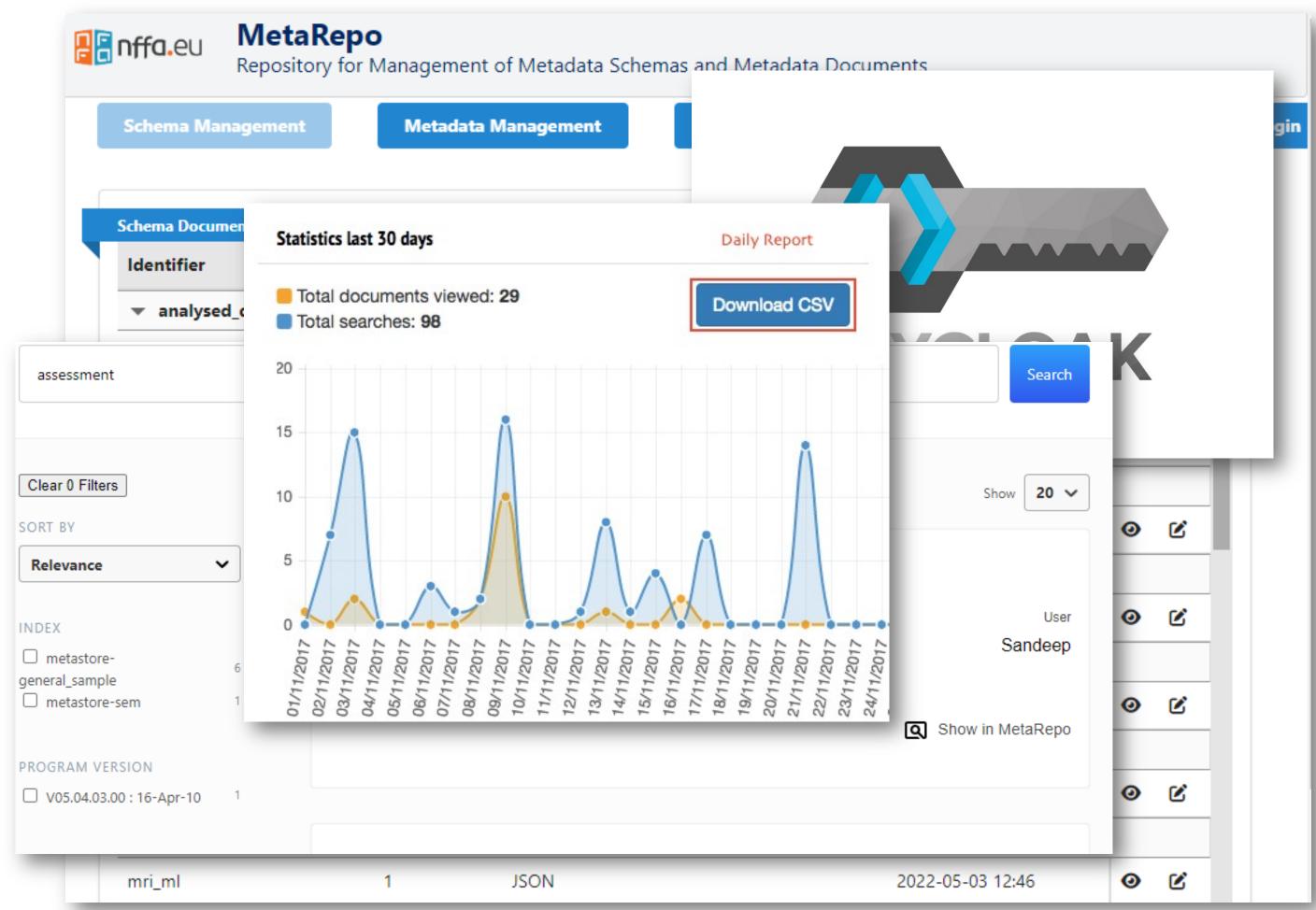






MetaRepo – An Instance of MetaStore

- Customized frontend
- Single sign-on integration
- Custom search
- Virtual access monitoring





nffa.eu









nffa.eu PILOT 2021 2026

Hands-on

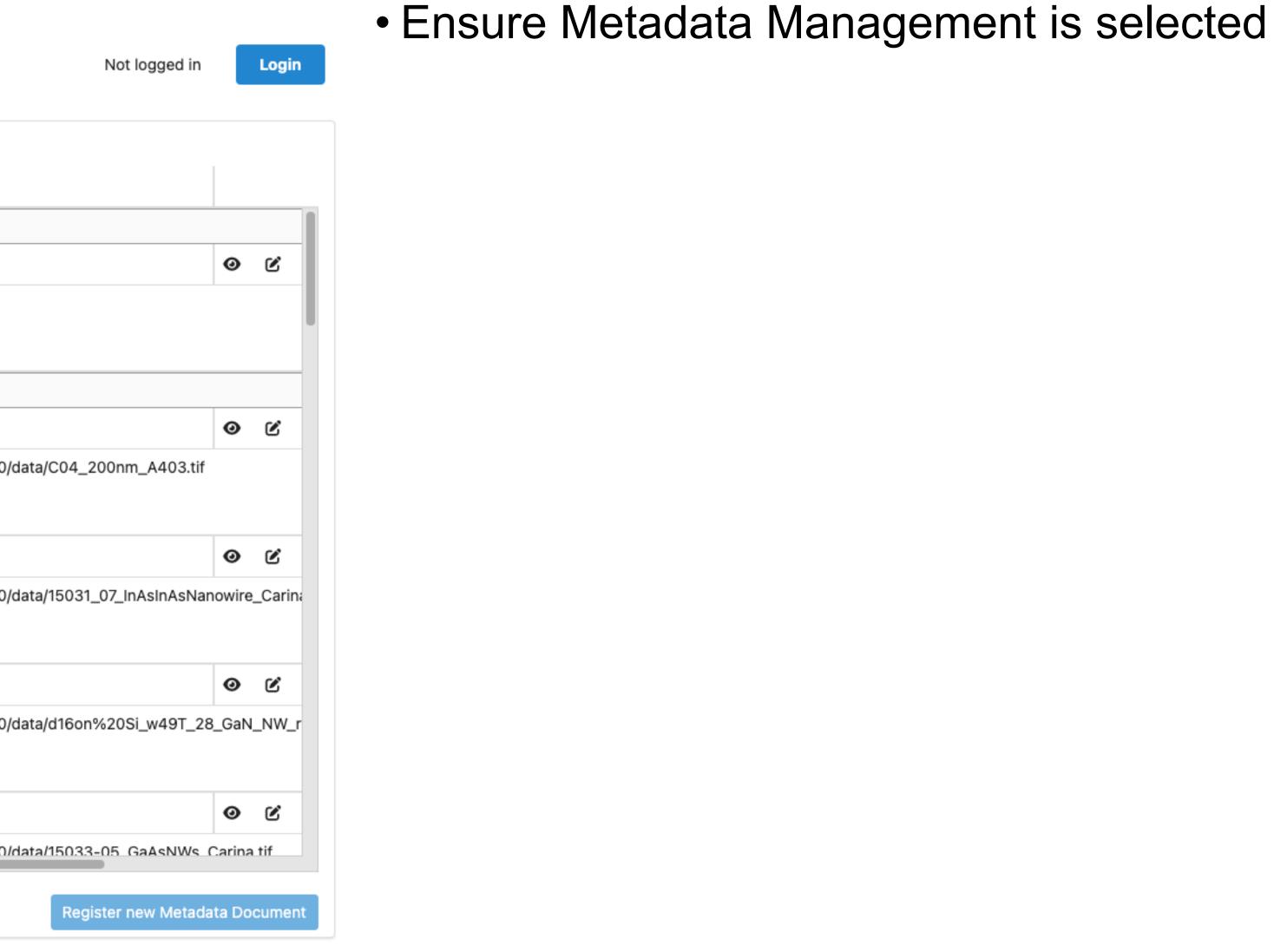




Schema Managem	ent Metadata Management Search Show/Hide Filters Not
Metadata Documents	
Identifier	
	e (version=8) (1 item)
Oab5c6c5-fffa	-4007-a649-aa18dabcd68d
Related Resource Schema Identifier Date Updated	test_r_r general_sample (version=8) 2024-06-03 08:43
	e (version=5) (5 items)
Obd9a58f-ae5	3-4bd1-8405-bb3b62b5617b
Related Resource Schema Identifier Date Updated	https://matwerk.datamanager.kit.edu/api/v1/dataresources/c1c8126f-f1f3-4486-a8c2-aa18736d87e0/data/C04_200nn general_sample (version=5) 2024-03-05 22:11
13db4e85-b31	d-409f-b9f3-a173d6604939
Related Resource Schema Identifier Date Updated	https://matwerk.datamanager.kit.edu/api/v1/dataresources/c1c8126f-f1f3-4486-a8c2-aa18736d87e0/data/15031_07_In general_sample (version=5) 2024-02-27 13:45
9015ab39-d5d	l6-4f8a-8cd9-9860cd76a46f
Related Resource Schema Identifier Date Updated	https://matwerk.datamanager.kit.edu/api/v1/dataresources/c1c8126f-f1f3-4486-a8c2-aa18736d87e0/data/d16on%205 general_sample (version=5) 2024-02-27 13:49
b62270fb-fc9f	-42ab-ad1f-428a5cfcc25c
Related Resource	https://matwerk.datamanager.kit.edu/api/v1/dataresources/c1c8126f-f1f3-4486-a8c2-aa18736d87e0/data/15033-05_(













Schema Managem	ent Metadata Management	Search	Show/Hide Filters	Not
Metadata Documents				
Identifier				
 general_sample 	e (version=8) (1 item)			
• 0ab5c6c5-fffa	-4007-a649-aa18dabcd68d			
Related Resource	test_r_r			
Schema Identifier	general_sample (version=8)			
Date Updated	2024-06-03 08:43			
👻 general_sampl	e (version=5) (5 items)			
Obd9a58f-ae5	3-4bd1-8405-bb3b62b5617b			
Related Resource	https://matwerk.datamanager.kit.edu/api/v1/da	ataresources/c1c81	26f-f1f3-4486-a8c2-aa18736	6d87e0/data/C04_200nr
Schema Identifier	general_sample (version=5)			
Date Updated	2024-03-05 22:11			
13db4e85-b31	d-409f-b9f3-a173d6604939			
Related Resource	https://matwerk.datamanager.kit.edu/api/v1/da	ataresources/c1c81	26f-f1f3-4486-a8c2-aa18736	6d87e0/data/15031_07_li
Schema Identifier	general_sample (version=5)			
Date Updated	2024-02-27 13:45			
9015ab39-d5d	l6-4f8a-8cd9-9860cd76a46f			
Related Resource	https://matwerk.datamanager.kit.edu/api/v1/da	ataresources/c1c81	26f-f1f3-4486-a8c2-aa18736	6d87e0/data/d16on%20
Schema Identifier	general_sample (version=5)			
Date Updated	2024-02-27 13:49			
b 62270fb-fc9f	-42ab-ad1f-428a5cfcc25c			
Related Resource	https://matwerk.datamanager.kit.edu/api/v1/da	ataresources/c1c81	26f-f1f3-4486-a8c2-aa1873f	6d87e0/data/15033-05

Registe





t logged in		Login	
	0	C	
	U		
m_A403.tif	0	C	
InAsInAsNan	owire		
	0	C	
Si_w49T_28	_GaN	_NW_r	
	0	C	
GaAsNWs_(Carina	tif	
new Metada	ta Do	cument	

- Ensure Metadata Management is selected
- Login with your NFFA credentials







Sche	ema Managemo	ent	Metadata Manag	gement	Search	Show/Hide Filters	s Not
Metad	ata Documents						
	Identifier						
▼ g	jeneral_sampl	e (version=	8) (1 item)				
0	0ab5c6c5-fffa	-4007-a649	-aa18dabcd68d				
Relat	ted Resource	test_r_r					
Sche	ema Identifier	general_sar	nple (version=8)				
Date	Updated	2024-06-03	3 08:43				
⊸ g	jeneral_sampl	e (version=	5) (5 items)				
0	0bd9a58f-ae5	3-4bd1-840	5-bb3b62b5617b				
Sche	ted Resource ema Identifier Updated		nple (version=5)	it.edu/api/v1/da	ataresources/c1c8	126f-f1f3-4486-a8c2-aa	18736d87e0/data/C04_200nn
0	13db4e85-b31	d-409f-b9f3	-a173d6604939				
Sche			nple (version=5)	it.edu/api/v1/da	ataresources/c1c8	126f-f1f3-4486-a8c2-aa	18736d87e0/data/15031_07_lr
0	9015ab39-d5d	6-4f8a-8cd	9-9860cd76a46f				
Sche	ted Resource ema Identifier Updated		nple (version=5)	it.edu/api/v1/da	ataresources/c1c8	126f-f1f3-4486-a8c2-aa	18736d87e0/data/d16on%205
0	b62270fb-fc9f	-42ab-ad1f-	428a5cfcc25c				
Relat	ted Resource	https://matv	verk datamanager k	it edu/ani/v1/da	ataresources/c1c8	126f-f1f3-4486-a8c2-aa	18736d87e0/data/15033-05_0





t logged in		Login
	0	Ľ
		_
m_A403.tif	0	Ľ
	0	C
InAsInAsNan	owire	_Carina
Si_w49T_28	⊙ _GaN	௴ _NW_r
	0	C
GaAsNWs (Carina	tif
new Metada	ta Do	cument

- Ensure Metadata Management is selected
- Login with your NFFA credentials
- Click Register new Metadata Document









Record Metadata

Metadata Document

Related Resource *

The identifier of the related resource, i.e., a URL or any internally handled kind of identifier.

thomas.jejkal@nep.summer.school

Related Resource Identifier Type *

The type of the identifier, i.e., URL or INTERNAL.

INTERNAL

Schema Identifier

The identifier of the validation schema for the provided metadata document.

Feedback

Schema Version

The version of the metadata schema to be used. If not provided, the most recent version will be used.

Close

ACL

+

Metadata Document File

A local file containing the metadata document. Datei auswählen Keine ausgewählt

Validate

nffa.eu 2021 2026 **PILO**



Submit 🗸 🗸

secretariat@nffa.eu

Select Record Metadata tab

×

Š

×

Check available attributes





Record Metadata

Metadata Document

Related Resource *

The identifier of the related resource, i.e., a URL or any internally handled kind of identifier.

thomas.jejkal@nep.summer.school

Related Resource Identifier Type *

The type of the identifier, i.e., URL or INTERNAL.

INTERNAL

Schema Identifier

The identifier of the validation schema for the provided metadata document.

Feedback

Schema Version

The version of the metadata schema to be used. If not provided, the most recent version will be used.

ACL

+

Metadata Document File

A local file containing the metadata document. Datei auswählen Keine ausgewählt

Validate

nffa.eu

2021 2026

✓

Submit

Close

- Select Record Metadata tab
- Check available attributes
- Assign related resource identifier
 - Must be unique

×

 \mathbf{v}

- firstname.lastname@nffa.summer.school
- Set identifier type to **INTERNAL**







Record Metadata

Metadata Document

Related Resource ¹

The identifier of the related resource, i.e., a URL or any internally handled kind of identifier.

thomas.jejkal@nep.summer.school

Related Resource Identifier Type *

The type of the identifier, i.e., URL or INTERNAL.

INTERNAL

Schema Identifier

The identifier of the validation schema for the provided metadata document.

Feedback

Schema Version

The version of the metadata schema to be used. If not provided, the most recent version will be used.

Submit

Close

ACL

+

Metadata Document File

A local file containing the metadata document. Datei auswählen Keine ausgewählt

Validate

2021 2026

nffa.eu

This initiative has received funding from the EU's H2020 framework program for research and innovation under grant agreement n. 101007417, NFFA-Europe Pilot Project

×

- Select Record Metadata tab
- Check available attributes
- Assign related resource identifier
 - Must be unique
 - firstname.lastname@nffa.summer.school
- Set identifier type to **INTERNAL**
- Select schema from dropdown
 - Choose Feedback







Record Metadata

Metadata Document

Related Resource '

The identifier of the related resource, i.e., a URL or any internally handled kind of identifier.

thomas.jejkal@nep.summer.school

Related Resource Identifier Type *

The type of the identifier, i.e., URL or INTERNAL.

INTERNAL

Schema Identifier

The identifier of the validation schema for the provided metadata document.

Feedback

Schema Version

The version of the metadata schema to be used. If not provided, the most recent version will be used.

ACL

+

Metadata Document File

A local file containing the metadata document. Datei auswählen Keine ausgewählt



nffa.eu

Close

Submit





- Select Record Metadata tab
- Check available attributes
- Assign related resource identifier
 - Must be unique

×

×

- firstname.lastname@nffa.summer.school
- Set identifier type to **INTERNAL**
- Select schema from dropdown
 - Choose Feedback
- Click Validate to proceed to next step







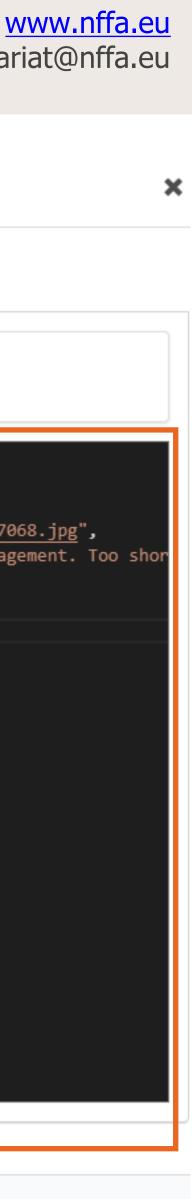
- Select Metadata Document tab
- Enter your feedback document
- Autocomplete attributes via Shift+Space (MacOS) or Strg/Ctrl+Space (Windows)
- Check proper types
 - Title: String (8 64 Characters)
 - Name: String
 - Orcid: String + URL
 - Image: String + URL
 - Feedback: String (<= 512 Characters)
 - Rating: Number (1-5)
- Double-check before submission!

nffa.eu

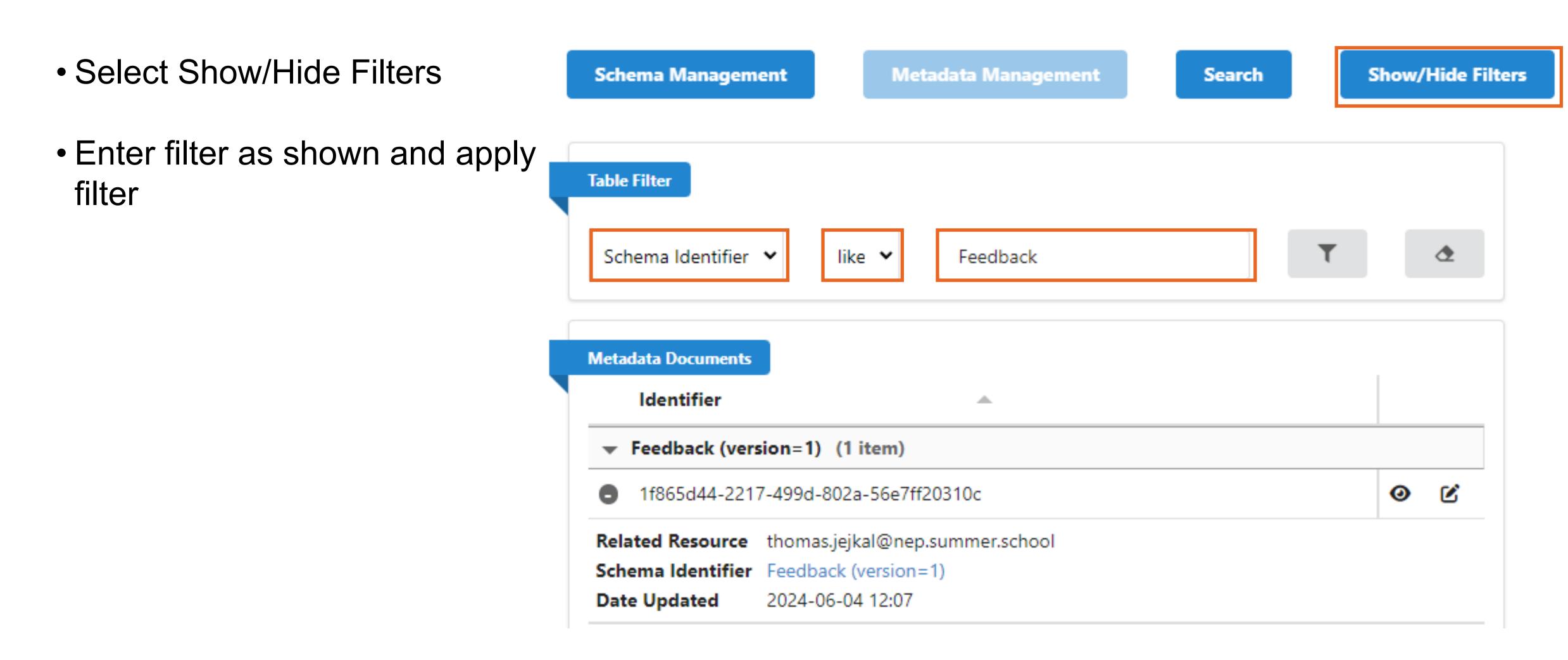


Create Metadata

Record I	Metadata	Metadata Document			
Docum	nent Version	♥ ⊘ ₺			
1 2 3 4 5 6 7	"nam "ima "fee "orc	<pre>le": "Good course", e": "Thomas", ge": "<u>https://thumbs.dre</u> dback": "Quite entertair id": "<u>http://orcid.org/@</u> ing": 4</pre>	ing, learned some	new stuff and got	
8	}				
			Close	Submit 🗸	





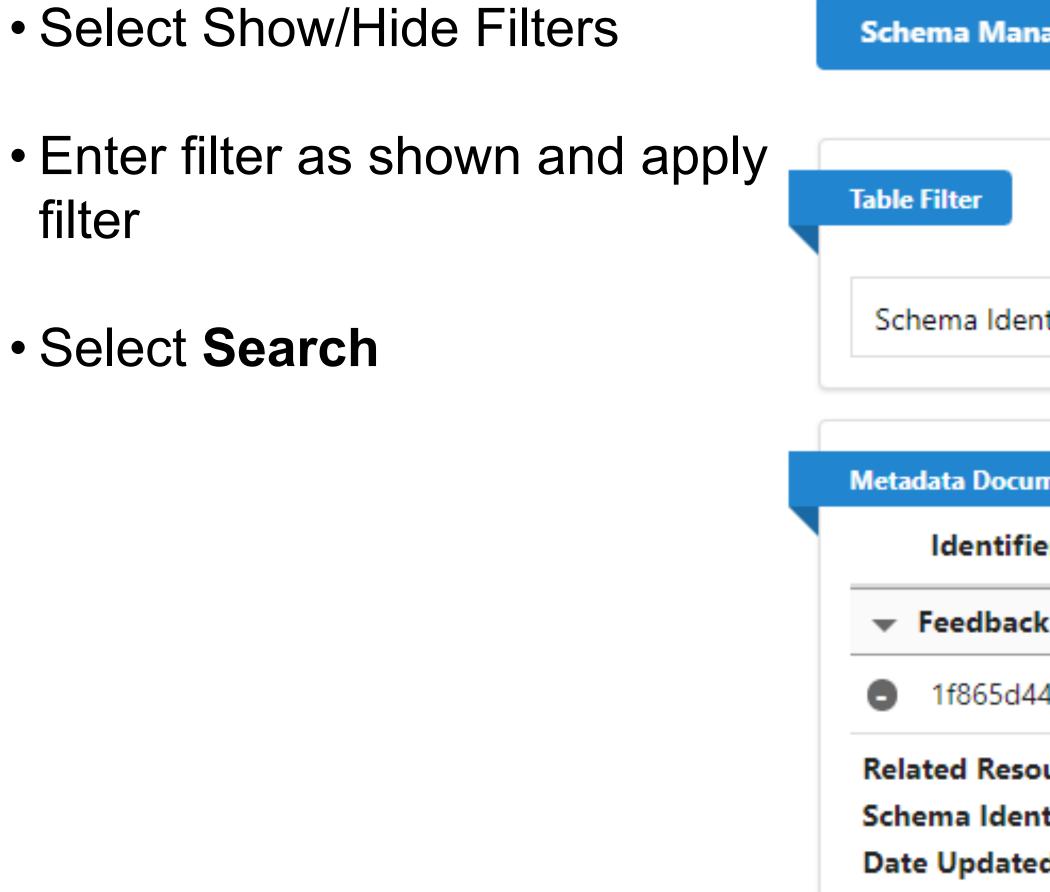
















nagem	ent	Meta	data Management	Search		Show/	/Hide
ntifier	∨ lik	e 🗸	Feedback		T		٢
iments							
ier							
k (ver:	sion=1) (1	item)					
44-221	7-499d-802a	a-56e7ff20)310c			0	ß
	thomas.jejl Feedback (2024-06-04	(version=1	ummer.school)				







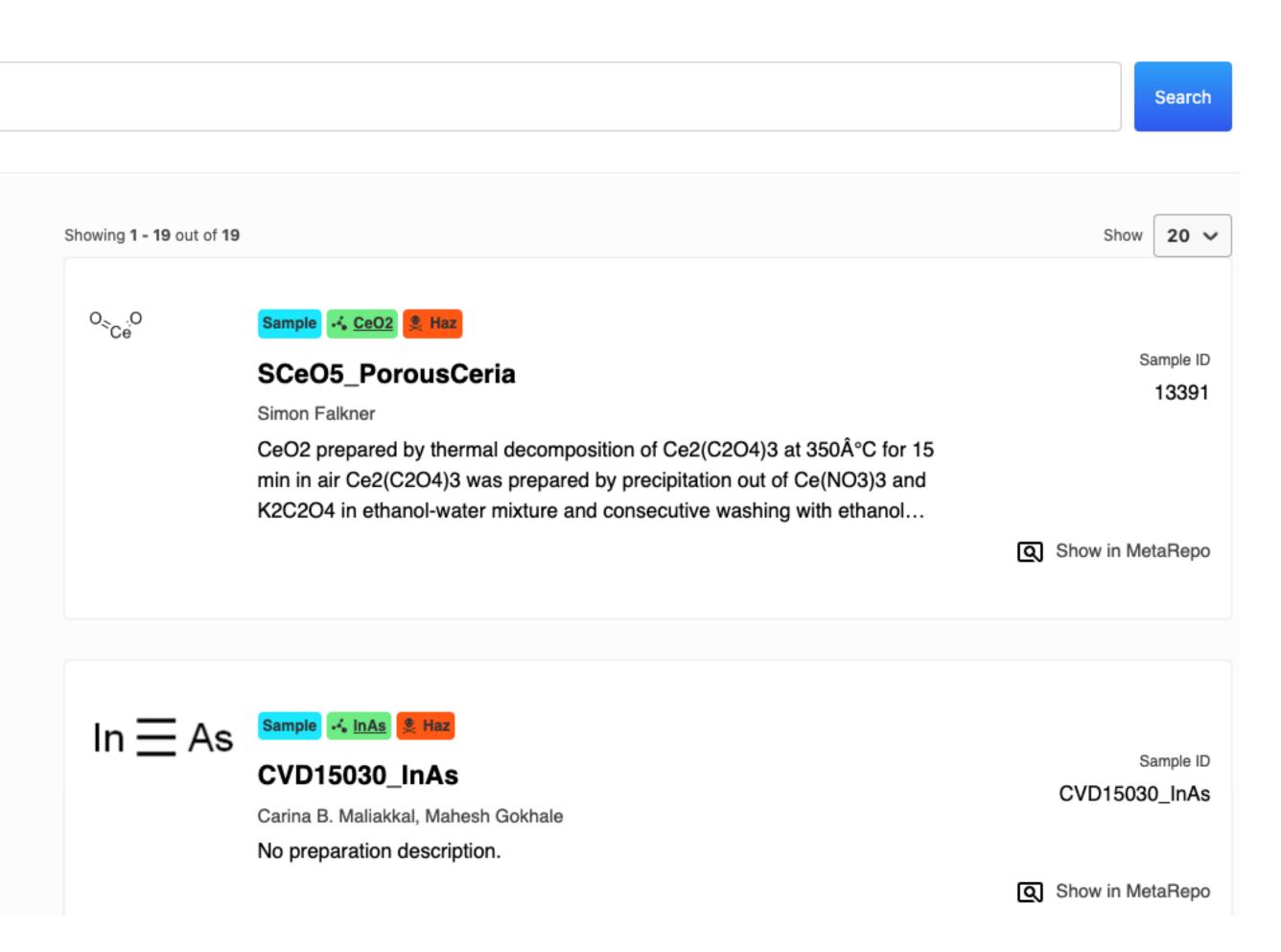


- You should see the result as on the screenshot
- Login
- You should also see your own feedback
- Play around, try out filters

SORT BY Relevance INDEX metastore-sem metastore-general_sample metastore-mri_schema metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR	Clear 0 Filters	
INDEX metastore-sem metastore-general_sample metastore-mri_schema metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR	SORT BY	
 metastore-sem metastore-general_sample metastore-mri_schema metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	Relevance	~
 metastore-general_sample metastore-mri_schema metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	INDEX	
 metastore-mri_schema metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	metastore-sem	
 metastore-feedback PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	metastore-general_sample	
PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 VSERNAME SABINE TIFR	_	
 V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR	metastore-feedback	
 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	PROGRAM VERSION	
 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 	V06.00.00.00 : 09-Jun-16	
 V05.04.03.00 : 16-Apr-10 USERNAME SABINE TIFR 		
USERNAME SABINE TIFR	_	
SABINE	V05.04.03.00 : 16-Apr-10	
	USERNAME	
-	SABINE	
supervisor	TIFR	
	supervisor	









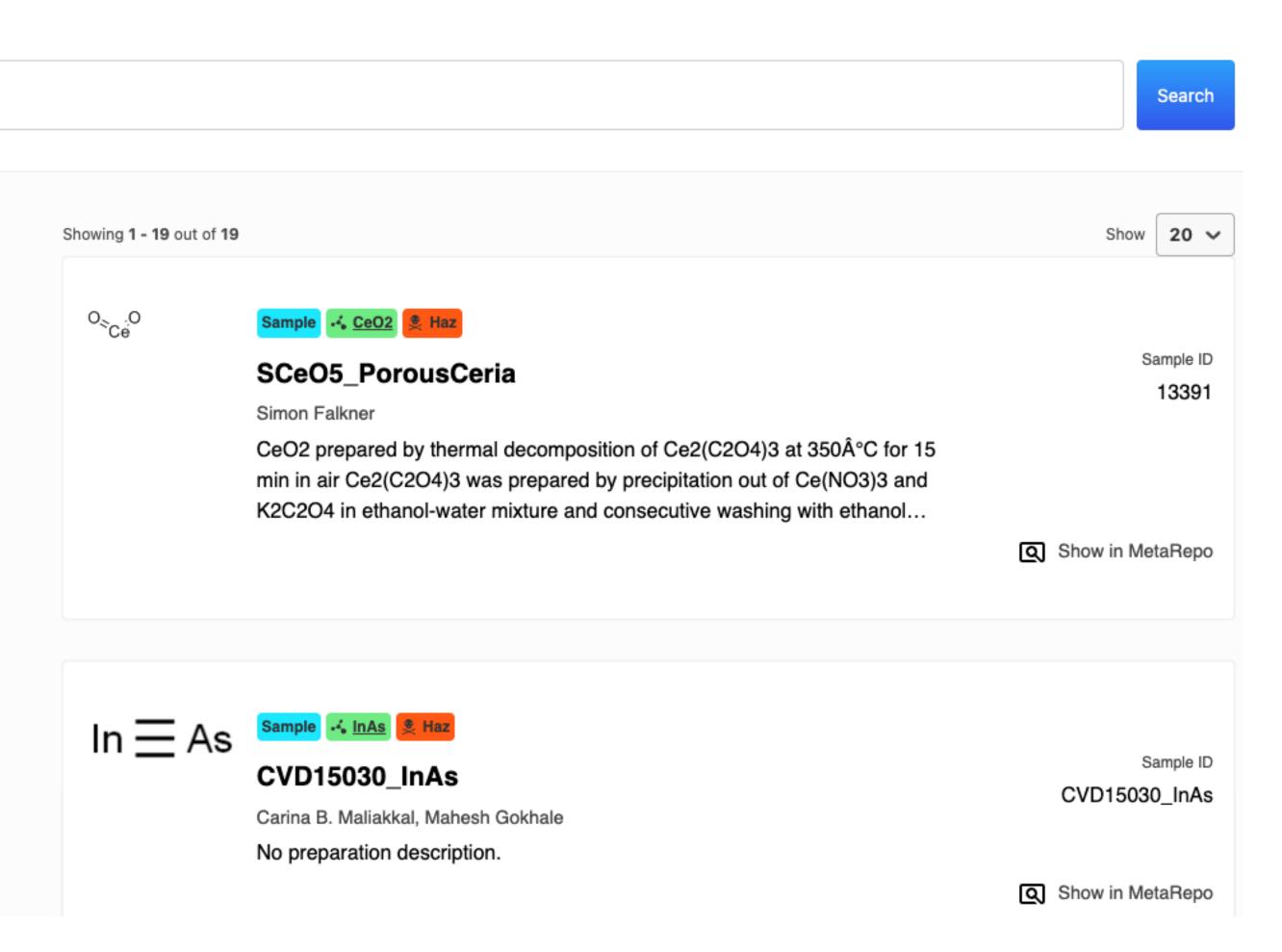


- You should see the result as on the screenshot
- Login
- You should also see your own feedback
- Play around, try out filters
- Click "Show in MetaRepo"

Clear 0 Filters	
SORT BY	
Relevance	~
INDEX	
metastore-sem	1
metastore-general_sample	
metastore-mri_schema	
metastore-feedback	
PROGRAM VERSION	
V06.00.00.00 : 09-Jun-16	
7.6.1.4139	
V05.04.00.00 : 08-May-09	
V05.04.03.00 : 16-Apr-10	
USERNAME	
SABINE	
supervisor	
Sandeen	

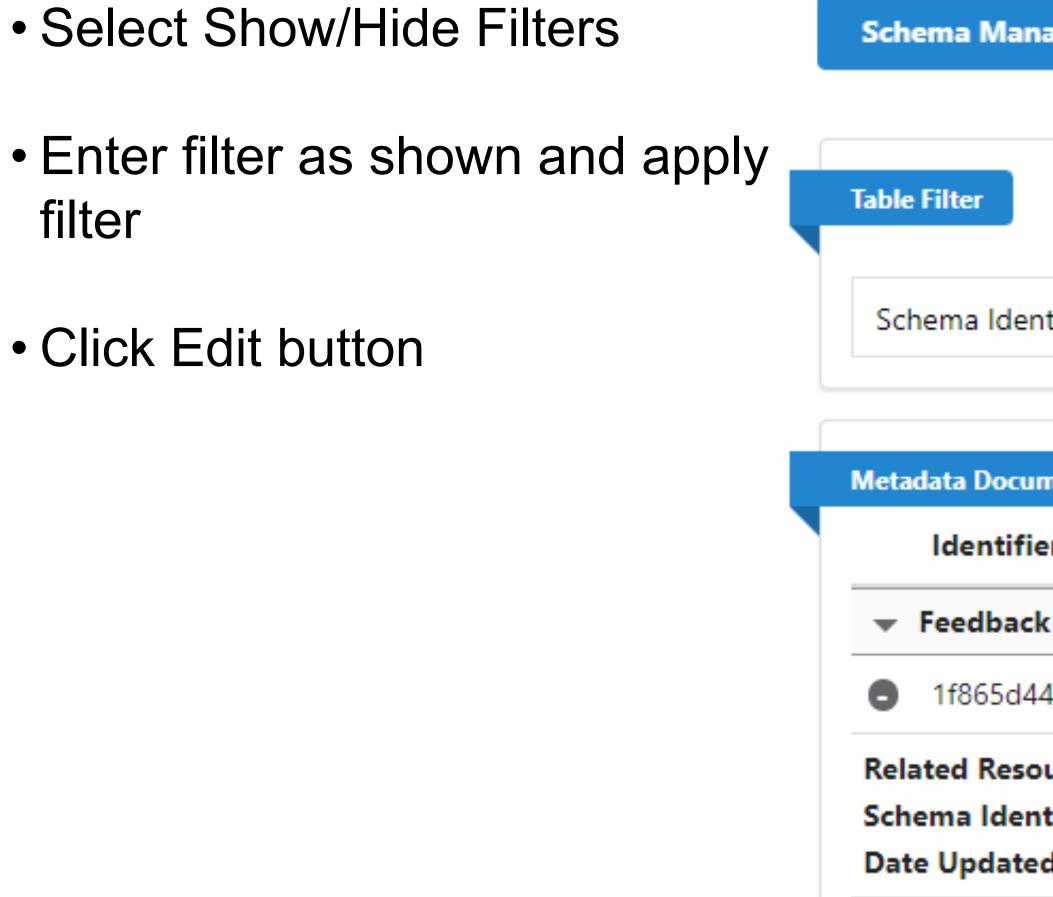


nffa.eu













nagem	ent	Meta	data Management	Search		Show/	/Hide	
					_			
ntifier	✓ like	• •	Feedback		T		2	
iments								
er			A					
k (vers	sion=1) (1 i	tem)						
4-2217	7-499d-802a	-56e7ff20)310c			0	ß	
		-	ummer.school					
ntifier ed	Feedback (v 2024-06-04)					









- Scroll to ACL section
- Add new access control entry





The permission granted to the subject with the given identifier.

ADMINISTRATE

Sid

A subject identifier defining to whom a certain kind of access is granted. Typically, this is an email address.

anonymousUser

Permission

The permission granted to the subject with the given identifier.

read



Metadata Document URI

Direct access URI where the associated metadata document is stored.

https://demo.datamanager.kit.edu:8443/metastore/api/v1/metadata/1f865d44-2217-499d-802a-56e7ff20310c?vers

Document Hash

The hashcode of the associated metadata document.

sha1:ee2705c50a8280b00273a0612efac50cf5467fbe

Metadata Document File

A local file containing the metadata document.

Datei auswählen Keine ausgewählt

Validate

Close Submit

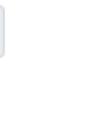




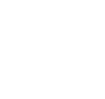
















- Scroll to ACL section
- Add new access control entry
 - Sid: anonymousUser
 - Permission: READ





The permission granted to the subject with the given identifier.



Metadata Document URI

Direct access URI where the associated metadata document is stored.

https://demo.datamanager.kit.edu:8443/metastore/api/v1/metadata/1f865d44-2217-499d-802a-56e7ff20310c?vers

Document Hash

The hashcode of the associated metadata document.

sha1:ee2705c50a8280b00273a0612efac50cf5467fbe

Metadata Document File

A local file containing the metadata document.

Datei auswählen Keine ausgewählt

Validate

Submit Close





- Scroll to ACL section
- Add new access control entry
 - Sid: anonymousUser
 - Permission: READ
- Validate and Submit changes





The permission granted to the subject with the given identifier.

ADMINISTRATE

Sid

A subject identifier defining to whom a certain kind of access is granted. Typically, this is an email address.

anonymousUser

Permission

The permission granted to the subject with the given identifier.

read

Metadata Document URI

Direct access URI where the associated metadata document is stored.

https://demo.datamanager.kit.edu:8443/metastore/api/v1/metadata/1f865d44-2217-499d-802a-56e7ff20310c?vers

Document Hash

The hashcode of the associated metadata document.

sha1:ee2705c50a8280b00273a0612efac50cf5467fbe

Metadata Document File

A local file containing the metadata document.

Datei auswählen Keine ausgewählt

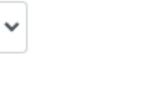


Submit Close

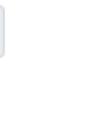




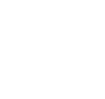
















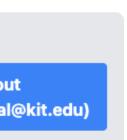
- You should see all feedbacks (with and without login)
- Try out "Show in MetaRepo"

a.eu MetaRepo S	Search		
Search			
Clear 0 Filters	Showing 1 - 20 out of 28		Show
SORT BY	_		
	14 9 4 1	Good course Thomas Quite informative, got some new insights. Too short to get all details.	Q Show in Me
PROGRAM VERSION V06.00.00.00 : 09-Jun-16 7.6.1.4139 V05.04.00.00 : 08-May-09 V05.04.03.00 : 16-Apr-10 VSERNAME SABINE SABINE TIFR	7 3 3 1 Unknown Chemical Formula 7 3	Sample E Haz nobis elit. repellendus accusantium odit elit. quas modi veniam veniam architecto esse quas esse No preparation description.	Q Show in Me
Sandeep	3		











Acknowledgements

- National Research Data Infrastructure NFDI 38/1 project number 460247524
- centre platform of the Helmholtz Association
- NFFA-Europe-Pilot (EU H2020 n. 101007417)
- **Research Centers**
- The Helmholtz Metadata Collaboration Platform





• The Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) under the • The Joint Laboratory Model and Data driven Materials Characterization (JL MDMC), a cross-

• The research program "Engineering Digital Futures" of the Helmholtz Association of German





Contact us

thomas.jejkal@kit.edu

www.nffa.eu secretariat@nffa.eu





This initiative has received funding from the EU's H2020 framework program for research and innovation under grant agreement n. 101007417, NFFA-Europe Pilot Project

#