

# From Knowledge Models to AI: Exploring Data Stewardship Wizard

[Hana Litavská](#) 

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[Jana Martínková](#) 



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of the Czech Republic



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# Outline

- **Data Stewardship Wizard**
- **DMP.eosc.cz**
- **Hands on: Customization of KM**
- **AI features**



# Before the Hands-On Session



- Register here: [bit.ly/dmp-eosc-cz-testers](https://bit.ly/dmp-eosc-cz-testers)
- Log in here: [test.dmp.eosc.cz](https://test.dmp.eosc.cz)
- Please complete these steps before the session so we can assign the correct role to your account

# Data Management Plan (DMP)

- General project information
- Description of data
- Metadata and ontologies, documentation
- Data storage, security, data preservation
- Data sharing
- Costs and human resources
- Ethical and legal issues, licenses



Operations Checklist

Parking Brake		
Fuel Flow	Set	
Battery Switch	Cutoff	
Hydraulic Pump	ON	
Landing Gear	On	✓
Flaps	On	✓
Spoiler	Check	✓
Fuel Amount	Up	✓
De-ice	Retracted	✓
Passenger Sign	Check	✓
Check Weather	Off	✓
	Off	✓
	Flight Services	✓
Transponder		
Anti Collision Ligths	Standby	
	On	
Engine Start Swiches		
Throttle Switch	Check	
Master Switch	On	

# Data Stewardship Wizard



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# What is Data Stewardship Wizard?

*A recommended tool in the Horizon Europe Program Guide, ELIXIR Recommended Interoperability Resources*

- Expert system for data management planning and creating DMPs
- Open-source tool
- Tool suitable for everyone (from beginners to data stewards)
- Serves as a check-list before starting the project
- Supports data management planning with respect to (current) best practices

*“Plans are  
worthless,  
but planning  
is everything”*

*“From  
burden to  
benefit”*

# DSW Main Ideas

- Minimum of writing = DMP is not an essay, as little writing as possible
- Guidance = DSW guides users through the smart Questionnaire
- Flexibility = easy to edit the content and integrate with other services
- Openness = anybody can use it and create own content
- User-oriented = DSW development is strongly user feedback driven

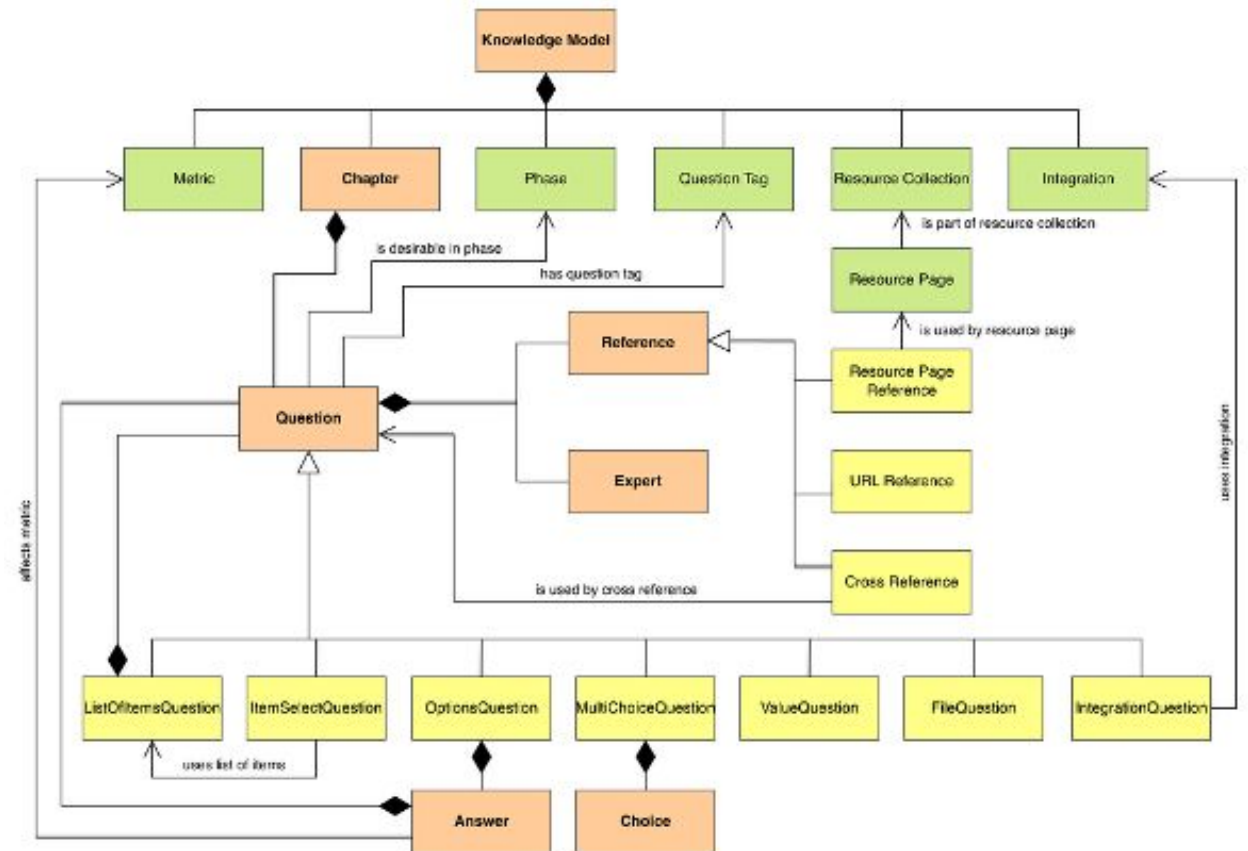
# Data Stewardship Wizard

Knowledge Model



# Knowledge Model (KM)

- Contains **knowledge** about what to ask for and how
- **Template** for structured questionnaire
- Tree structure build of **chapters, questions, answers, follow-up questions** and other resources



# Data Stewardship Wizard

Knowledge Model



uses



Questionnaire

# Questionnaire

- Can be filled in any order
- Only relevant questions are asked based on the previous answers
- Links to additional resources
- Metrics indications

**III.2 Will you be collecting physical samples?** + 🗨️ 🔗

Will you be collecting artefacts like specimens, minerals, biological samples?

Desirable: *Before Submitting the Proposal*

Data Stewardship for Open Science: [kuz](#)

a. No

b. Yes ⋮

[↶ Clear answer](#)

Answered less than a minute ago by Isaac Newton.

**III.2.b.1 Do your samples need to be submitted to a public repository?** + 🗨️ 🔗

In some fields, it is considered good practice to deposit samples to a public repository before deriving any digital data from them.

Desirable: *Before Submitting the Proposal*

a. No ⋮

b. Yes

**III.2.b.2 How will the samples be identified?** + 🗨️ 🔗

a. Samples will only get an internal code Reusability 0%

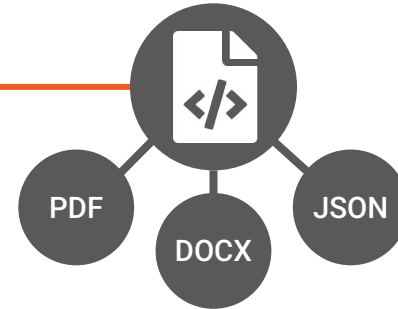
b. Samples will receive a universally unique persistent identifier (PID) Reusability 100%

# Data Stewardship Wizard

Knowledge Model



Document Template

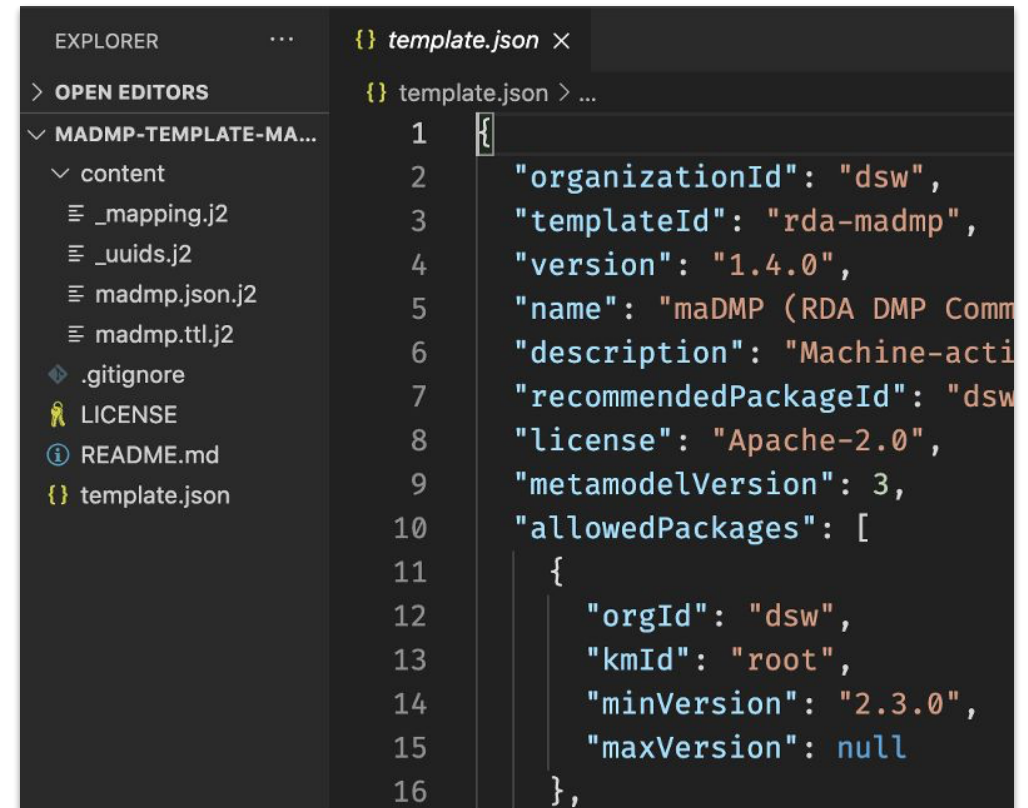


compatible with



# Document Template

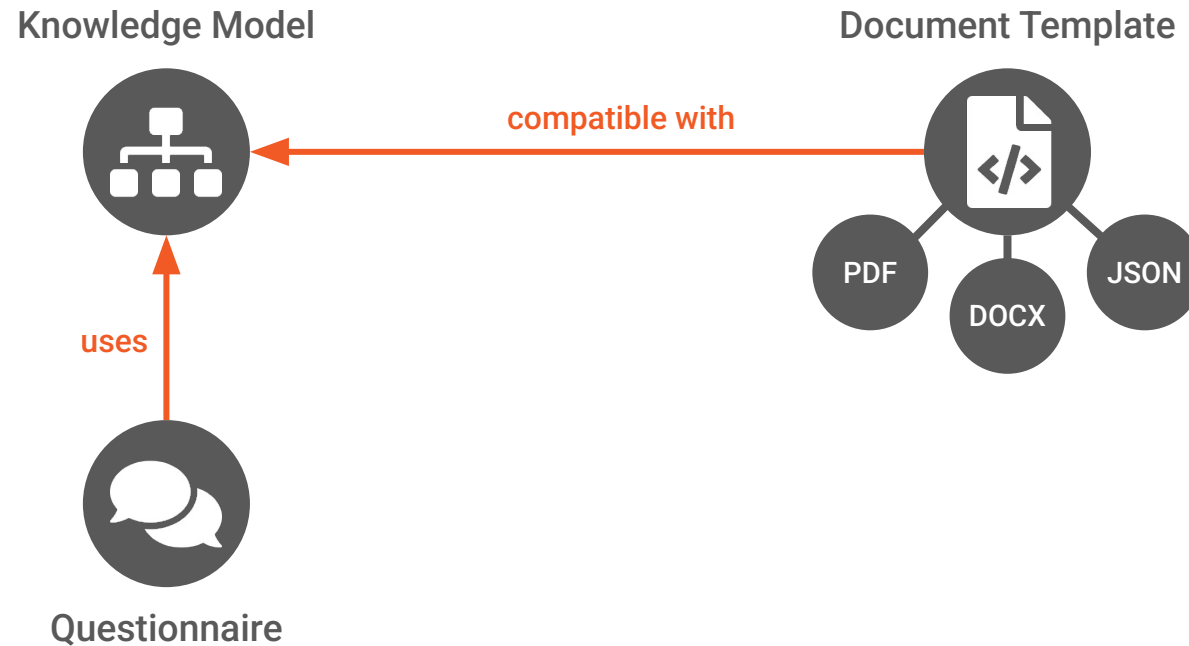
- Template development requires some **technical knowledge**
- Templates are composed of **JSON** metadata, **Jinja2** templates and other files
- **DSW Template Development Kit** (TDK)



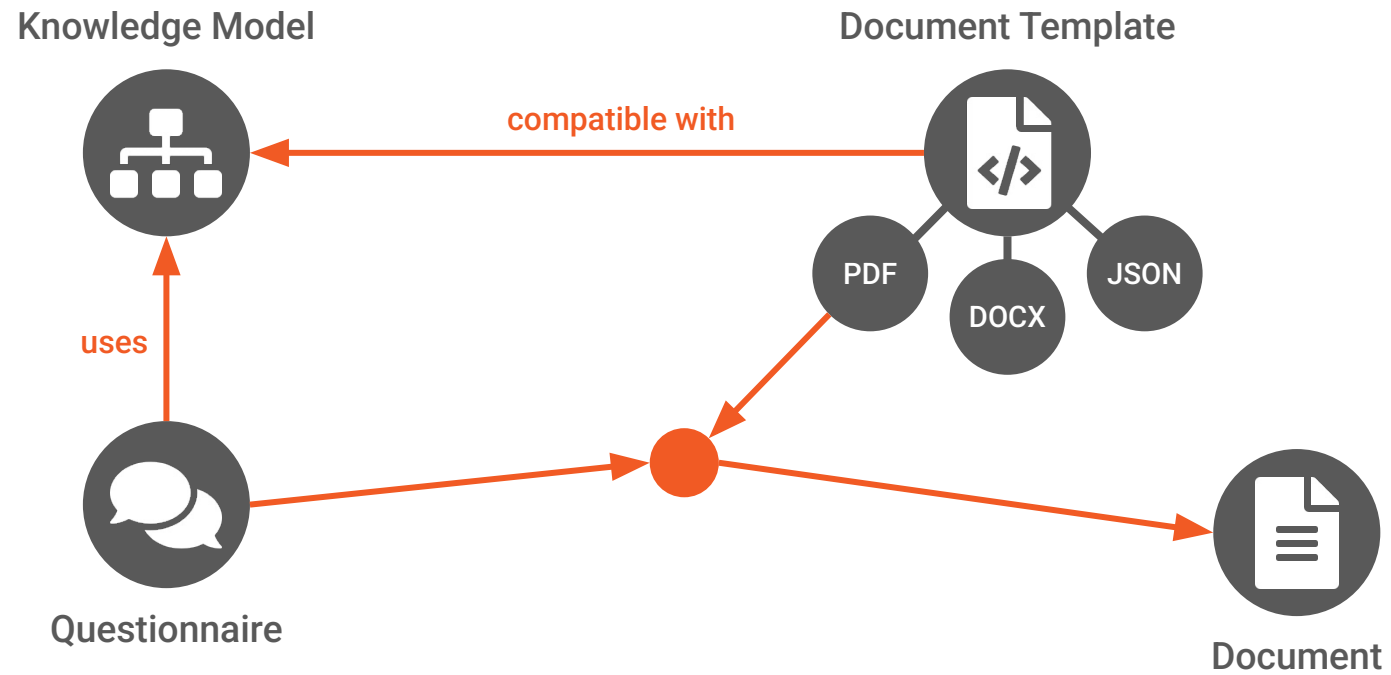
```
EXPLORER  ...  {} template.json x
> OPEN EDITORS
MADMP-TEMPLATE-MA...
  content
  _mapping.j2
  _uuids.j2
  madmp.json.j2
  madmp.ttl.j2
  .gitignore
  LICENSE
  README.md
  {} template.json

{} template.json > ...
1  {}
2
3  "organizationId": "dsw",
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5  "version": "1.4.0",
6  "name": "maDMP (RDA DMP Comm
7  "description": "Machine-acti
8  "recommendedPackageId": "dsw
9  "license": "Apache-2.0",
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15     "minVersion": "2.3.0",
16     "maxVersion": null
17   },
```

# Data Stewardship Wizard



# Data Stewardship Wizard



# Generated Documents

## Data Management Plan

## Science Europe Example

Contact person: **Jana Freeman** ([jana.freeman@ds-wiz.cz](mailto:jana.freeman@ds-wiz.cz))  
0000-0000-0000-0001

[Czech Technical University in Prague](#)

Based on: *Common DSW Knowledge Model, 2.3.0*

Created by: **Jana Freeman** ([jana.freeman@ds-wiz.cz](mailto:jana.freeman@ds-wiz.cz))  
DSW

Generated on: 24 Jun 2021

### Projects

We will be working on the following projects and for those described in this DMP.

#### Arsenic and Selenium Speciation Using Hyphenated

Start date: 1.1.2021

End date: 31.12.2021

Funding: [Grantová Agentura České Republiky: grant \(planned\)](#)

The main goal of this study is to determine whether it is produced from the meadows in the vicinity of old metal mines in Přebram, Kutná Hora, and Nalžovské Hory (Czech Republic) herbivorous herds. Total and speciation analysis of As and Se will be conducted using a hyphenated technique of HPLC and

### Section A: Data Collection

#### 1. What data will you collect or create?

##### Instrument datasets

The following instrument datasets will be acquired in the project:

- **HPLC**

This dataset will be collected by experts in the project. The equipment is very well described and known.

The equipment is very well described and known.

- **ICP-MS**

This dataset will be collected by experts in the project. The equipment is very well described and known.

The equipment is very well described and known.

##### Re-used datasets

We will use the following reference datasets:

- **Chemical Component Dictionary** (<http://dx.doi.org/10.26434/chem-cd>)

We will use the following already existing non-reference datasets:

- **Previous in-house Arsenic and Selenium analysis**

We already have a copy of this dataset.

##### Data formats and types

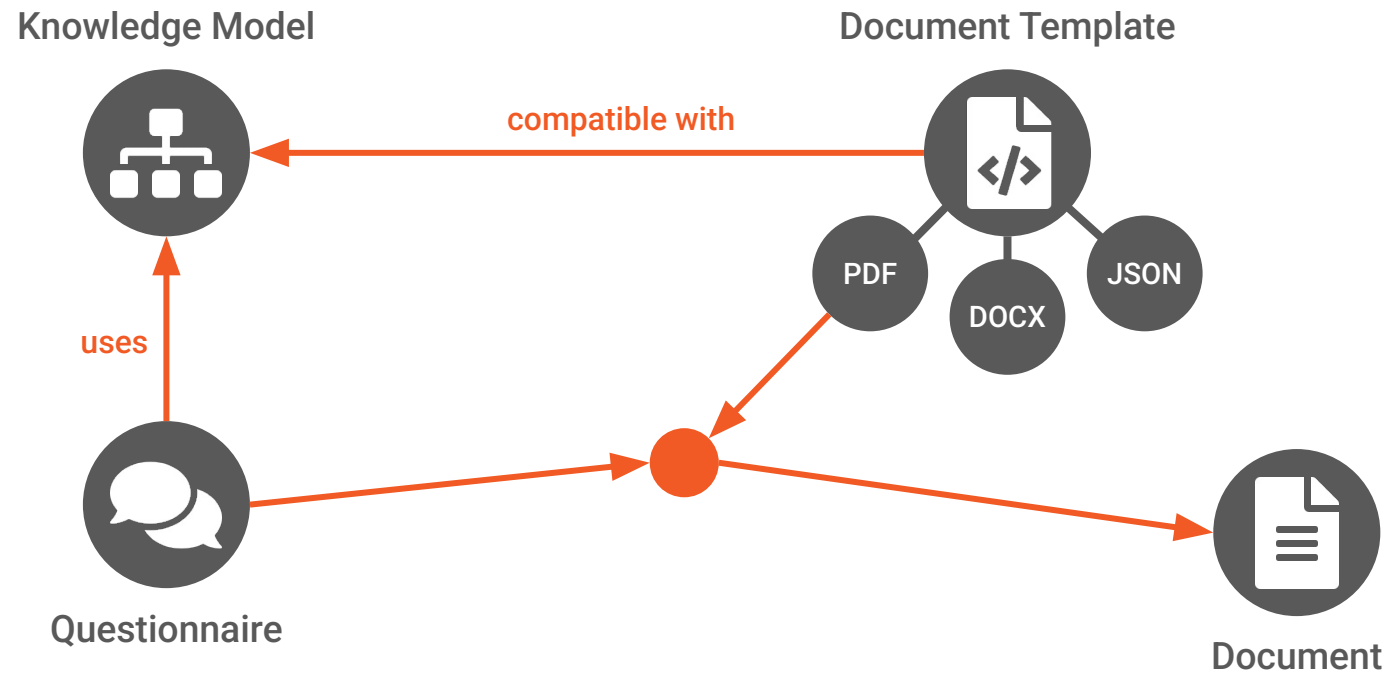
We will be using the following data formats and types:

- **Chemistry vocabulary**

It is a standardized format. This is a suitable format for data collection. We will have only a small amount of data stored in the project.

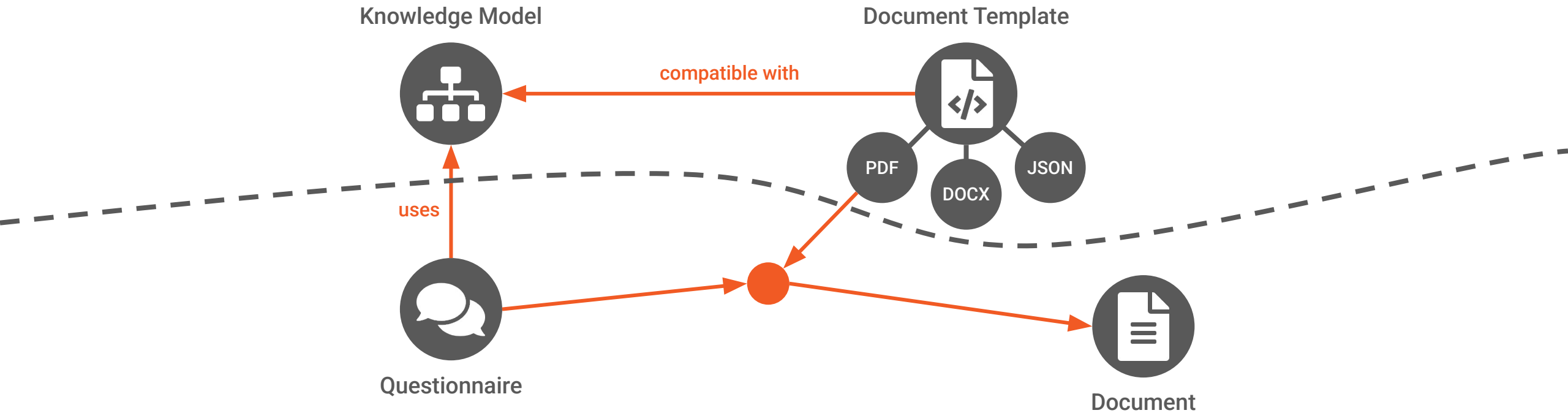
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    "description": "Example of a DMP describing a project in which source code will be created",
    "created": "2019-02-22T13:20:15.5",
    "modified": "2019-02-22T13:20:15.5",
    "project": [],
    "contact": {
      "mbox": "TMiksa@sba-research.org",
      "name": "Tomasz Miksa",
      "contact_id": {
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        "type": "orcid"
      }
    },
    "language": "eng",
    "ethical_issues_exist": "no",
    "dmp_id": {
      "identifier": "https://doi.org/10.0000/00.0.1234",
      "type": "doi"
    },
    "dataset": [
      {
        "title": "Source Code",
        "description": "Proof of concept implementation"
```

# Data Stewardship Wizard



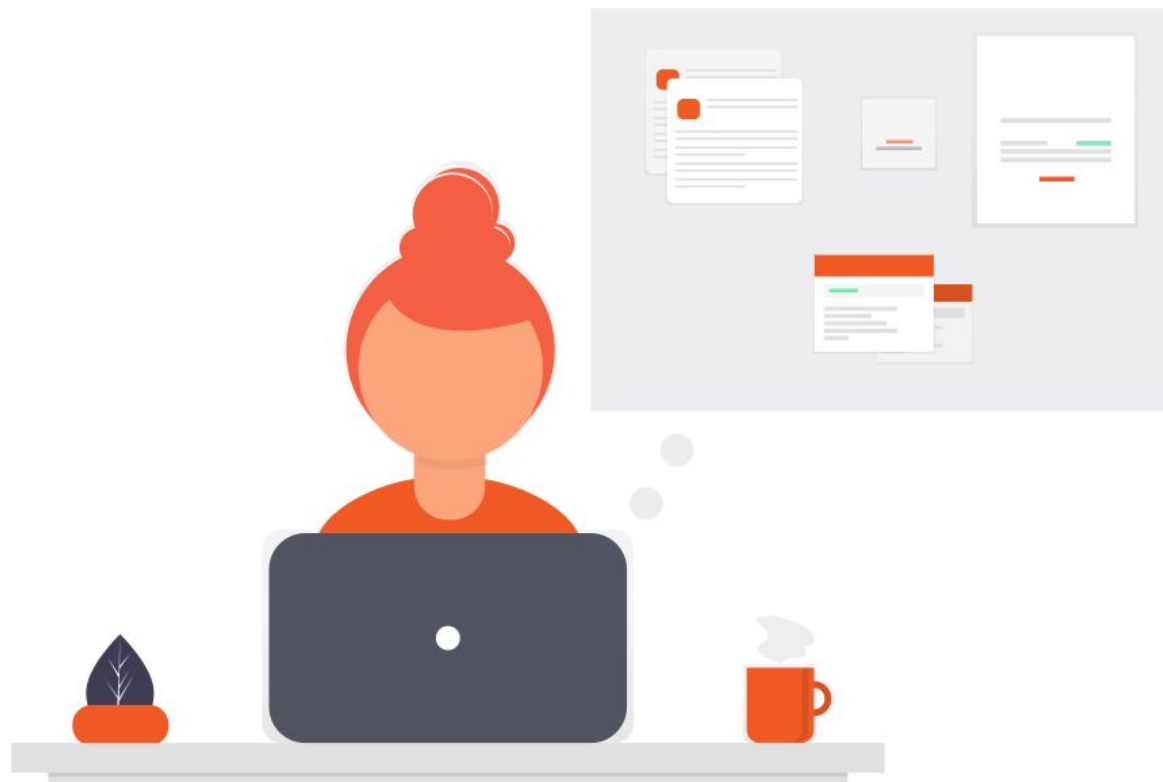
# Data Stewardship Wizard

## Data Steward

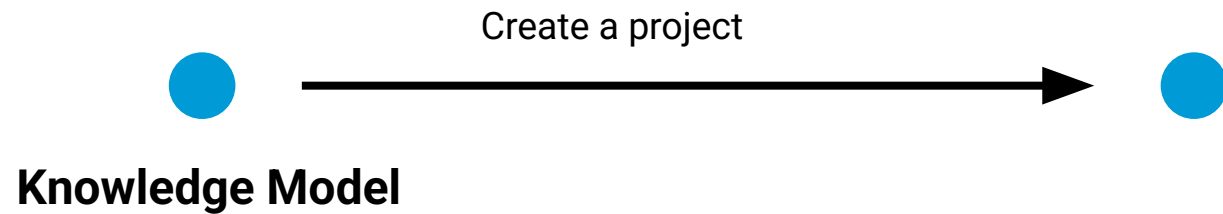


## Researcher

# Researchers

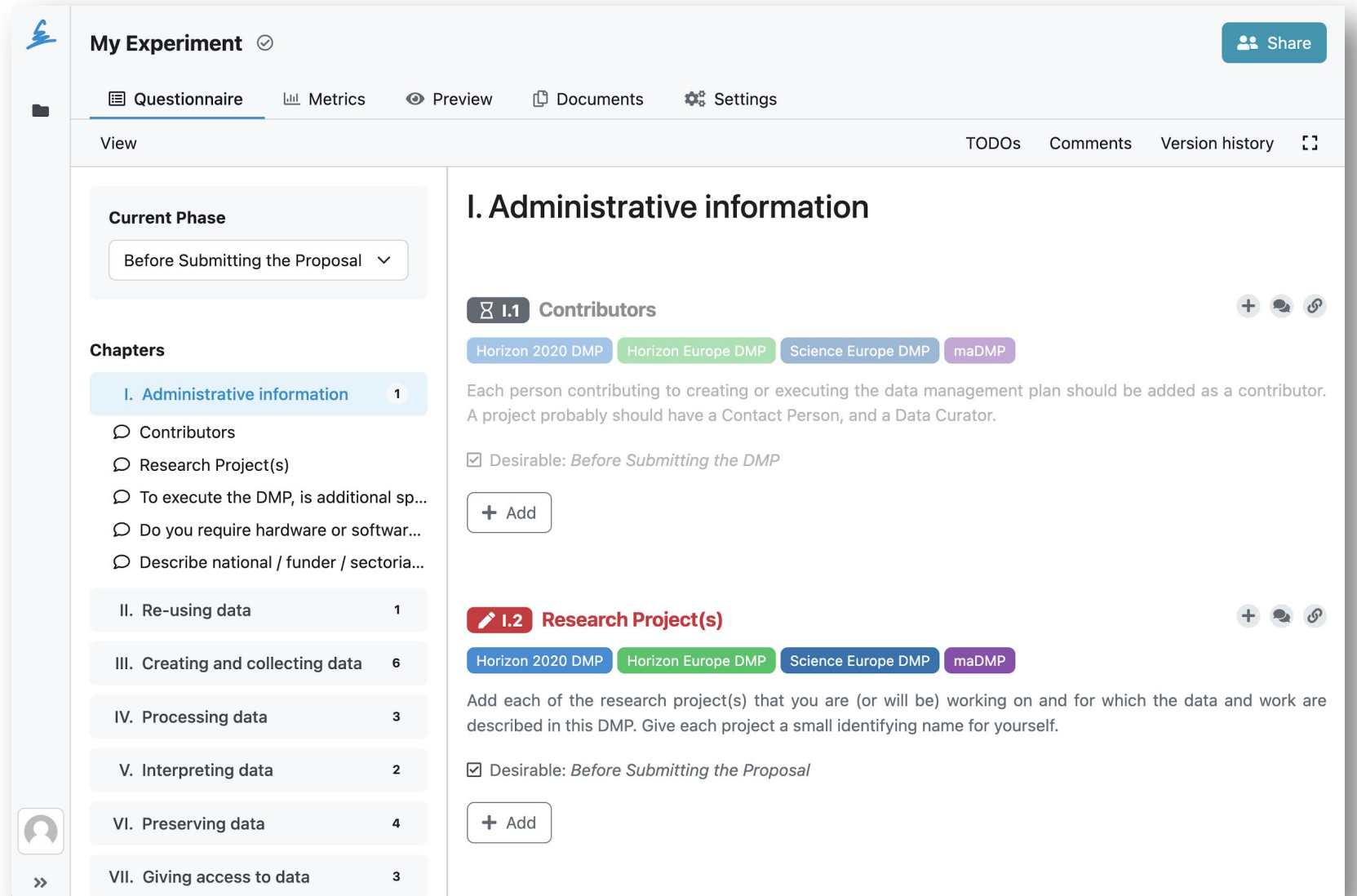



# Researchers Workflow




# Project


- Questionnaire
- Metrics
- Preview
- Documents
- (Files)
- Settings








**My Experiment** 

[Questionnaire](#) [Metrics](#) [Preview](#) [Documents](#) [Settings](#)




View [TODOs](#) [Comments](#) [Version history](#) 

**Current Phase**  
Before Submitting the Proposal 

**Chapters**

<b>I. Administrative information</b>	<b>1</b>
 Contributors	
 Research Project(s)	
 To execute the DMP, is additional sp...	
 Do you require hardware or softwar...	
 Describe national / funder / sectoria...	
II. Re-using data	1
III. Creating and collecting data	6
IV. Processing data	3
V. Interpreting data	2
VI. Preserving data	4
VII. Giving access to data	3

**I. Administrative information**




**I.1 Contributors**   

Horizon 2020 DMP Horizon Europe DMP Science Europe DMP maDMP

Each person contributing to creating or executing the data management plan should be added as a contributor. A project probably should have a Contact Person, and a Data Curator.

Desirable: *Before Submitting the DMP*

[+ Add](#)

**I.2 Research Project(s)**   

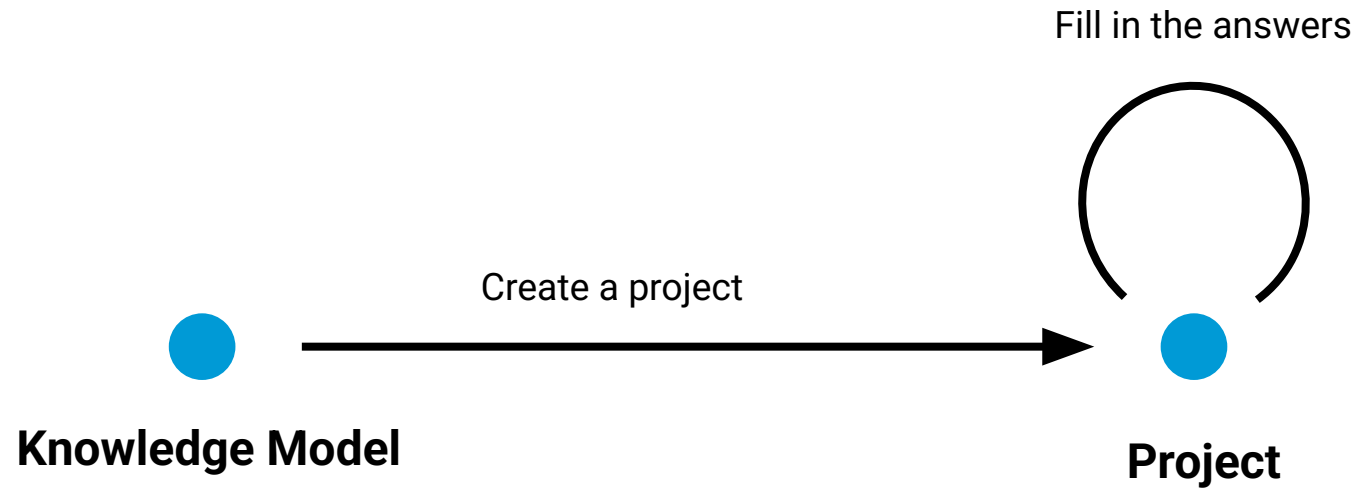
Horizon 2020 DMP Horizon Europe DMP Science Europe DMP maDMP

Add each of the research project(s) that you are (or will be) working on and for which the data and work are described in this DMP. Give each project a small identifying name for yourself.

Desirable: *Before Submitting the Proposal*

[+ Add](#)

# Researchers Workflow



# Question

Name

✓ VI.1.a.3.b.1.a.1 What repository will this data be stored in?



Question Tag

Horizon Europe DMP

Description

Domain repositories often have the best functionality to make the data findable and reusable: even though it may look like a database that could be reused in a completely different field would be better findable in a generic repository, the limited availability of domain-specific metadata make that less valuable.

Many repositories are listed in <https://fairsharing.org/>

If a repository offers to give your data set a DOI or alternative persistent identifier it is a good idea to use that option.

Desirable: *Before Finishing the Project*

External links: [FAIRSharing](#), [Registry of Research data Repositories](#), [FAIRCookbook on depositing to a generic repository like Zenodo](#)

Reference

Answers

a. A domain-specific repository Findability

b. Our national repository Findability

FAIR metrics

c. Our institutional repository Findability

d. A special-purpose repository for the project Findability

Who answered

Clear answer

Answered less than a minute ago by Albert Einstein.

Additional answer information

Disadvantage of a general purpose repository is the lack of data-specific features (e.g. 'play' instead of 'download' for an audio file) and limited findability

# Question types

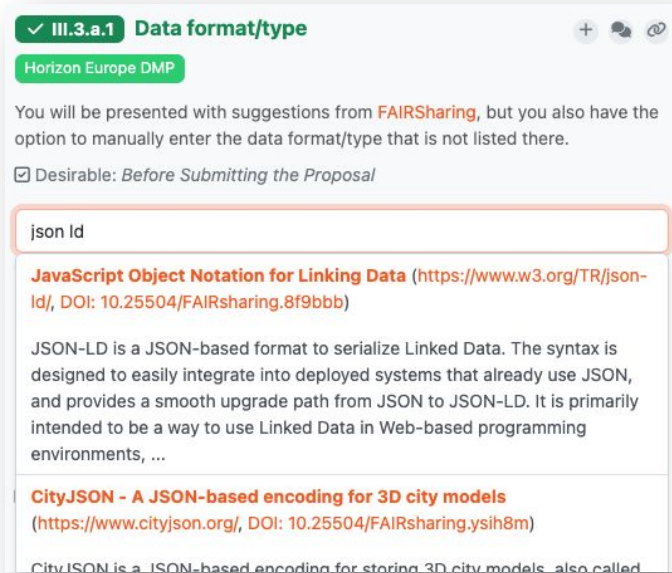
- Value
- Options
- Multi-Choice
- List of items
- Integration
- Item Select
- File

# Integration question

- Connection to **external database** or service on the Knowledge Model level
- Answer is not just a text but also a **link to selected item**



# Integration question



III.3.a.1 Data format/type

Horizon Europe DMP

You will be presented with suggestions from FAIRSharing, but you also have the option to manually enter the data format/type that is not listed there.

Desirable: Before Submitting the Proposal

json ld

**JavaScript Object Notation for Linking Data** (<https://www.w3.org/TR/json-ld/>, DOI: 10.25504/FAIRsharing.8f9bbb)

JSON-LD is a JSON-based format to serialize Linked Data. The syntax is designed to easily integrate into deployed systems that already use JSON, and provides a smooth upgrade path from JSON to JSON-LD. It is primarily intended to be a way to use Linked Data in Web-based programming environments, ...

**CityJSON - A JSON-based encoding for 3D city models** (<https://www.cityjson.org/>, DOI: 10.25504/FAIRsharing.ysh8m)

CityJSON is a JSON-based encoding for storing 3D city models, also called

# Integration question

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Search in external database



# Integration question

III.3.a.1 Data format/type

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Search in external database



Getting answer with a link

III.3.a.1 Data format/type

Horizon Europe DMP

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Desirable: Before Submitting the Proposal

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# Integration question



Search in external database

Getting answer with a link

Opened link with additional info

III.3.a.1 Data format/type

Horizon Europe DMP

You will be presented with suggestions from FAIRsharing, but you also have the option to manually enter the data format/type that is not listed there.

Desirable: Before Submitting the Proposal

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CityJSON is a JSON-based encoding for storing 3D city models, also called

III.3.a.1 Data format/type

Horizon Europe DMP

You will be presented with suggestions from FAIRsharing, but you also have the option to manually enter the data format/type that is not listed there.

Desirable: Before Submitting the Proposal

**JavaScript Object Notation for Linking Data** (<https://www.w3.org/TR/json-ld/>, DOI: 10.25504/FAIRsharing.8f9bbb)

JSON-LD is a JSON-based format to serialize Linked Data. The syntax is designed to easily integrate into deployed systems that already use JSON, and provides a smooth upgrade path from JSON to JSON-LD. It is primarily intended to be a way to use Linked Data in Web-based programming environments, ...

FAIRsharing.org

SEARCH ADVANCED SEARCH

GENERAL INFORMATION

**JavaScript Object Notation for Linking Data (JSON-LD)**

10.25504/FAIRsharing.8f9bbb

Type Model and format

Registry Standard

Description JSON-LD is a JSON-based format to serialize Linked Data. The syntax is designed to easily integrate into deployed systems that already use JSON, and provides a smooth upgrade path from JSON to JSON-LD. It is primarily intended to be a way to use Linked Data in Web-based programming environments, to build interoperable Web services, and to store Linked Data in JSON-based storage engines. JSON-LD is a concrete RDF syntax. A JSON-LD document is both an RDF document and a JSON document and correspondingly represents an instance of an RDF data model.

# (FAIR) Metrics

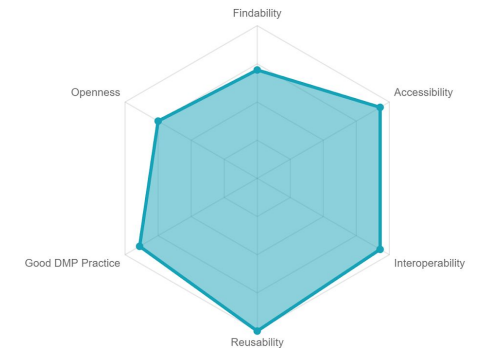
- Each answer can affect **metrics**
- The resulting value is calculated as a weighted average of all responses that affect the given metric

## Summary Report

Answered (current phase): 86/89

Answered: 233/254

Metrics	Measure
Findability	0.71
Accessibility	0.93
Interoperability	0.93
Reusability	1.00
Good DMP Practice	0.89
Openness	0.75



# Online cooperation

**Share Project**

**Users**

Add users

	Kryštof Komanec	Owner	▼	
	Jana Martínková	Editor	▼	✖
	Georgia Koutentaki	Viewer	▼	✖

**Visible by all other logged-in users**  
Other logged-in users can  the project.

**Public link**  
Anyone with the link can  the project.

[Copy link](#) Done

Metrics Preview Documents Settings

TODOs **Comments 1** Version history

**1.2 Research Project(s)**

Add each of the research project(s) that you are (or will be) working on and for which the data and work are described in this DMP. Give each project a small identifying name for yourself.

**1.2.a.1 Project name** 1 comment

**1.2.a.4 Project abstract**

**Comments 1** Editor notes

**Kryštof Komanec**  
16. 6. 2026, 9:50

What will the Project name be?

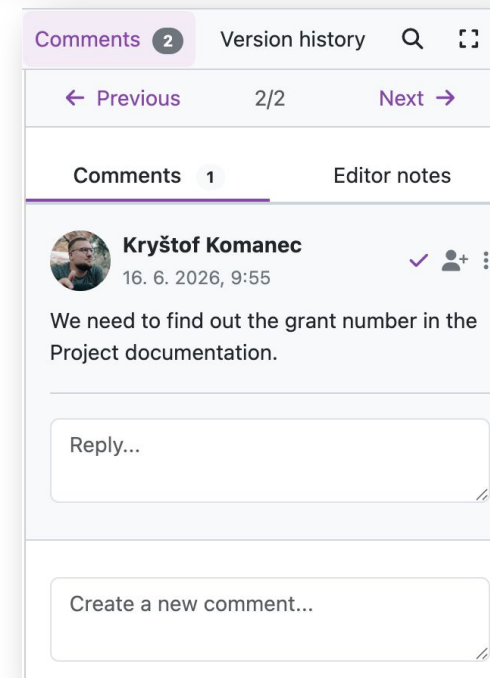
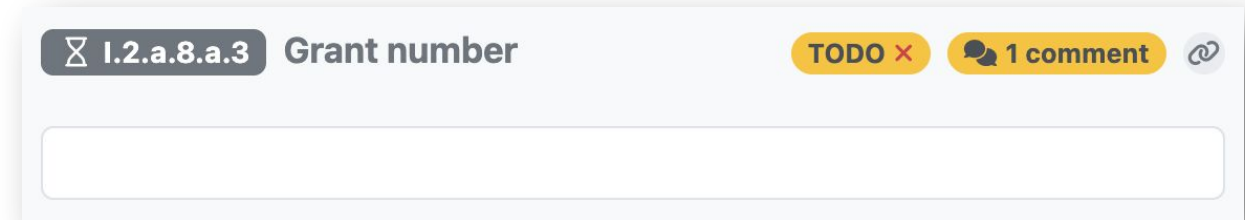
Reply...

Create a new comment...

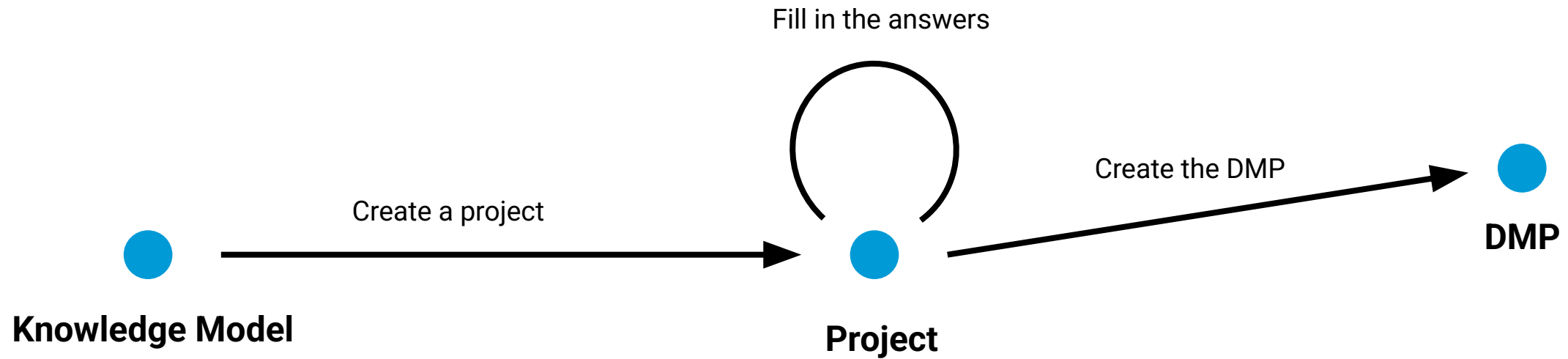
H2 H3 B I Rich Text Markdown

# TODOs & Comments

- **TODOs** – when you're unsure how to answer a question, you can add TODO
- **Comments** – for discussion about the questions
  - Comments vs Editor notes




# Researchers Workflow




# Creating Data Management Plan


- Created from a filled questionnaire using a document template
- Document formats based on template
- Saved in the DSW, can be downloaded


**Document Template**

 **Horizon Europe DMP** 1.21.1  
Data Management Plan according to the Horizon Europe template

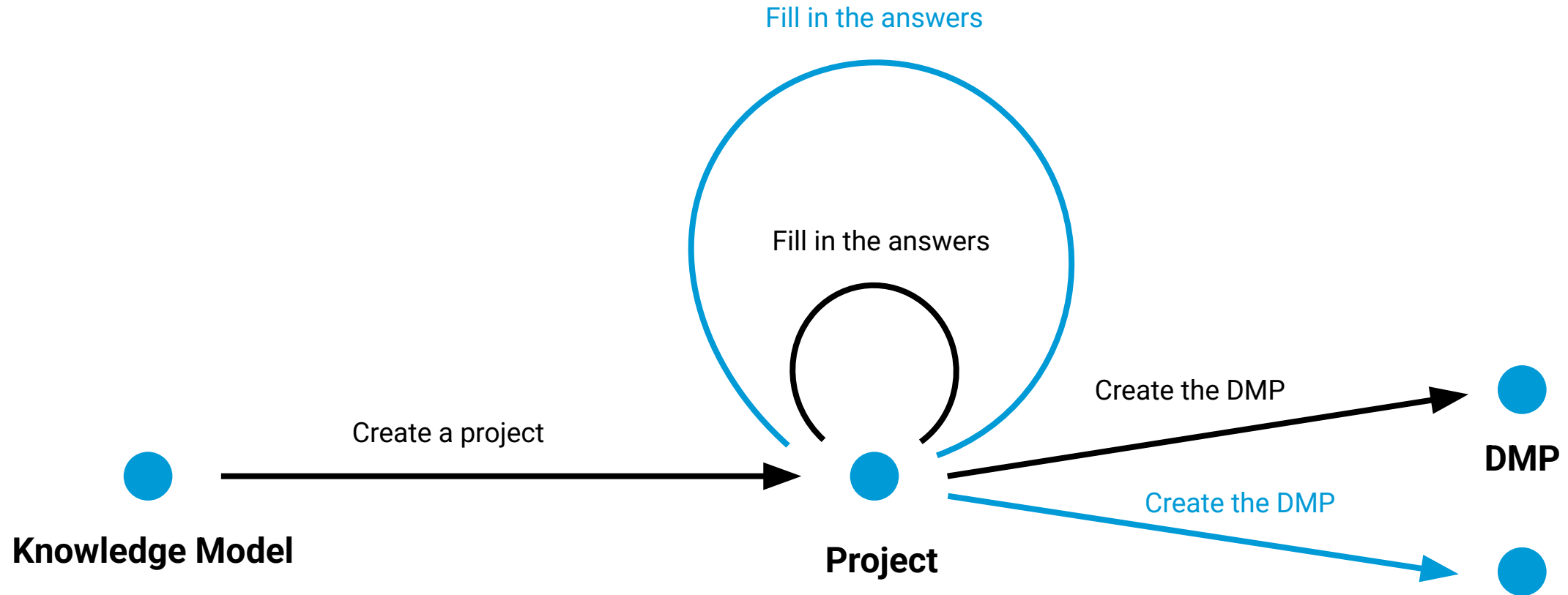
**Format**

 HTML Document

 MS Word Document

 PDF Document

# Researchers Workflow




# Version History

- List of all changes made while filling in the questionnaire
- Named versions
- Revert to version
- Create document from an older version

August 2022


▼ 16. 8.

9:56 


**Current**

*Will you be collecting physical samples?*

Yes

 Albert Einstein


---

9:56 


**Version 1.0**

*Are you running the project in a collaboration between different groups or institutes?*


Yes


 Albert Einstein

---


9:56 

*Affiliation*

 Czech Technical University in Prague

 Albert Einstein

---

9:54 

*Is there any pre-existing data?*

Yes

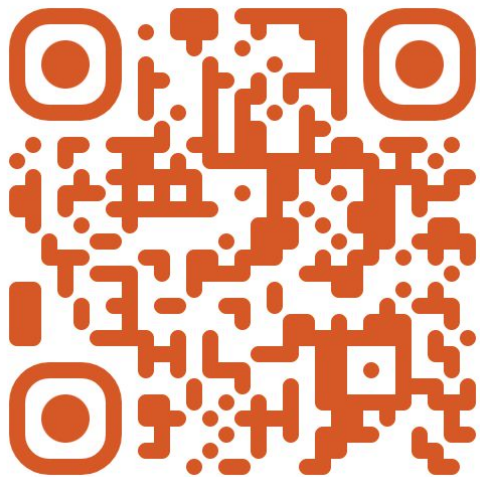
# Customizations and use of DSW



- **ELIXIR infrastructure** (provided by CESNET, managed by us):
  - ELIXIR is an intergovernmental organisation that brings together life science resources from across Europe.
  - [researchers.dsw.elixir-europe.org](https://researchers.dsw.elixir-europe.org) - can be simply used by researchers, not customized
  - Institutional instance – can be customized by institution (admins), they manage it
- **Self-hosted** (on-premise / own cloud solution)
  - DSW is open-source, documentation and Docker images available
  - Institution can host their own instance, manage it, update it, keep the data in-house
- **Commercial cloud** (<https://fair-wizard.com>)
  - Enterprise-ready with additional services for institutions and commercial subjects
- **DMP.eosc.cz**

# User-oriented

- **Share ideas:** <https://ideas.ds-wizard.org/>
- Join the **DSW Community Discord**



# DMP.eosc.cz



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Ministry of Education,  
Youth and Sports  
of the Czech Republic



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# How to get there?

✓ [DMP.eosc.cz](https://dmp.eosc.cz)

## Plánování správy dat v rámci Národní repozitářové platformy pro výzkumná data



Data Stewardship Wizard (DSW) je open-source nástroj pro efektivní plánování správy dat. V rámci NRP mohou vědci využít lokalizovanou instanci DSW pro své projekty.

Aktuálně probíhá **pilotní provoz nástroje**.

Začít plánovat



# How to get there?

## ✓ DMP.eosc.cz

The screenshot displays the DMP.eosc.cz website. At the top left, there is a logo for the National Czech Programme and eosc. The main content area features a 'Pilotní provoz služby' (Pilot service operation) section with text in Czech, and a 'Pilot Service Notice' section with text in English. On the right side, there is a 'Log In' form with fields for 'Email' and 'Password', a 'Log In' button, and a link for 'Forgot your password?'. Below the form, there is a section titled 'Or connect with' which contains a button for 'Login / Register via e-INFRA CZ'. This button is highlighted with a red rectangular box, and a black arrow points from the right side of the image towards it. At the bottom of the page, there are logos for the European Union and the Ministry of Education, Youth and Sports, along with text indicating that the service is co-funded by the European Union and supported by a grant from the National Repository Platform for research data.

DMP.eosc.cz Log In

National Czech Programme | eosc

### Pilotní provoz služby

Tato služba pro plánování správy dat je pilotní součástí Národní repozitářové platformy pro výzkumná data. Obsah i funkce průběžně vylepšujeme v rámci projektu a budeme rádi za vaši zpětnou vazbu.

### Pilot Service Notice

This data management planning service is a pilot within the National Repository Platform for research data in the Czech Republic. We are continuously improving its content and features over the course of the project and welcome your feedback.

**Log In**

Email

Password

[Forgot your password?](#) Log In

Or connect with

[Login / Register via e-INFRA CZ](#)

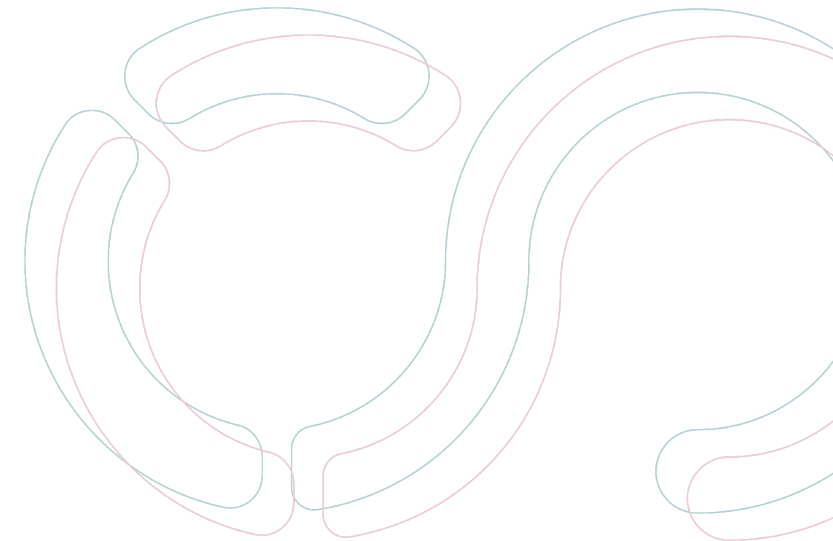
Co-funded by the European Union

MINISTRY OF EDUCATION, YOUTH AND SPORTS

Provoz této služby je podporován projektem Národní repozitářová platforma pro výzkumná data (grant číslo CZ.02.01.01/00/23\_014/0008787).

# Who can use **DMP.eosc.cz**?

- Anyone with **e-INFRA CZ** login
- <https://profile.e-infra.cz/login>



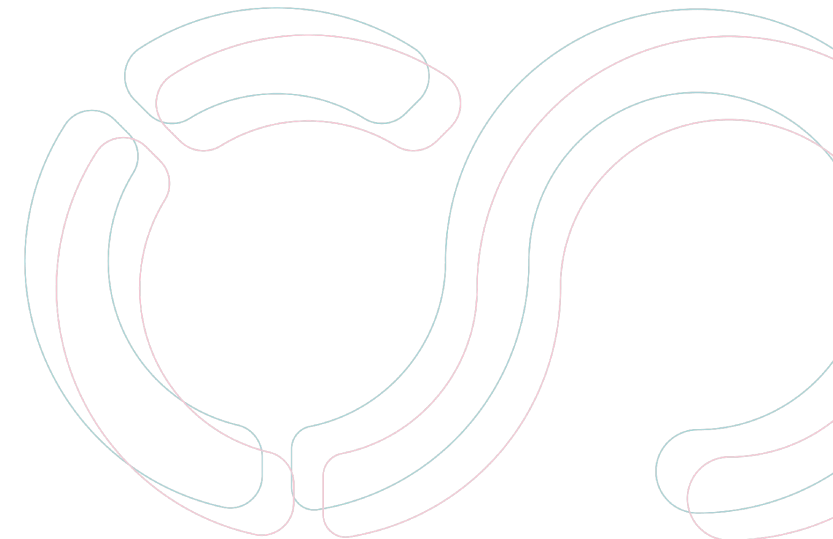
# Production and Test Environment

## DMP.eosc.cz

- Production

## test.DMP.eosc.cz

- Test
- For testing new content and functionalities
- Newest version of DSW



# Production and Test environment

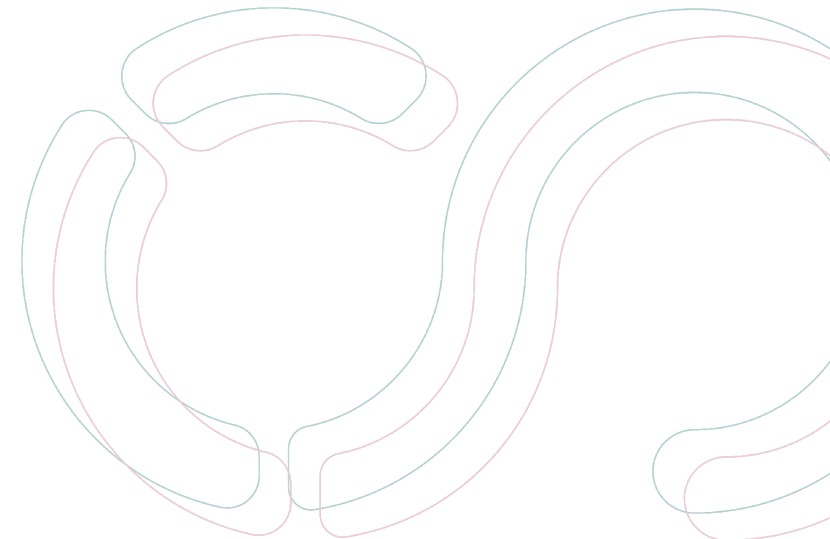
**DMP.eosc.cz**

- Production

<https://bit.ly/dmp-eosc-cz-testers>

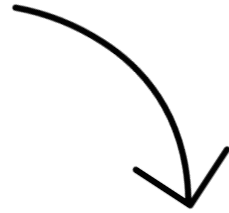
**test.DMP.eosc.cz**

- Test
- For testing new content and functionalities
- Newest version of DSW



# What roles and permissions?

DMP.eosc.cz



	<b>Researcher</b>	<b>Data Steward</b>	<b>Admin</b>
Projects	✓	✓	✓ (all)
Knowledge Models	✓ (read-only)	✓	✓
Knowledge Models Editors		✓	✓
Document Templates		✓	✓
Settings			✓
Locales			✓
Users			✓

# What roles and permissions?

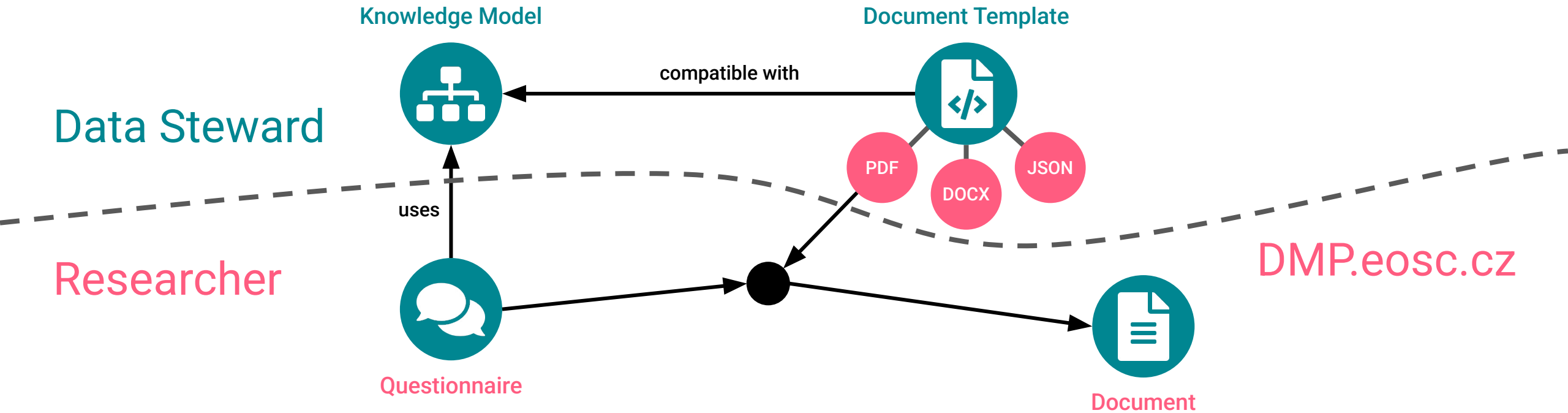
test.DMP.eosc.cz



	<b>Researcher</b>	<b>Data Steward</b>	<b>Admin</b>
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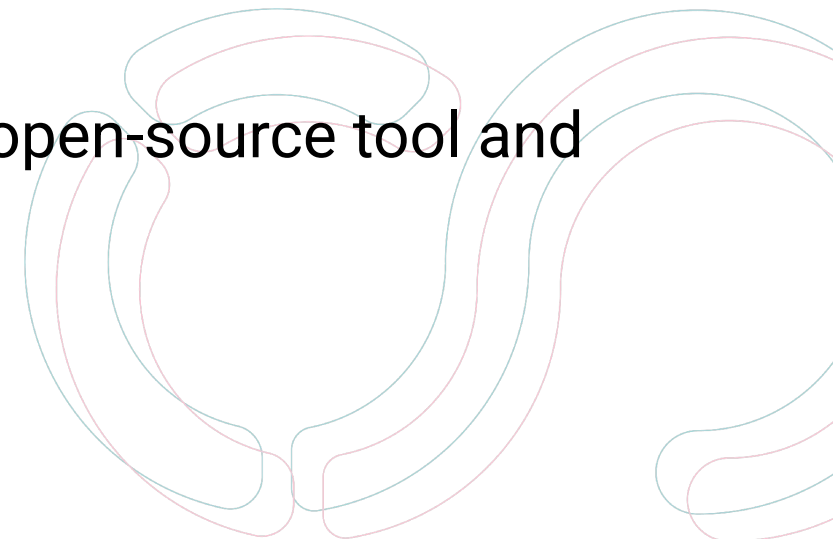
# How does it work?

test.DMP.eosc.cz



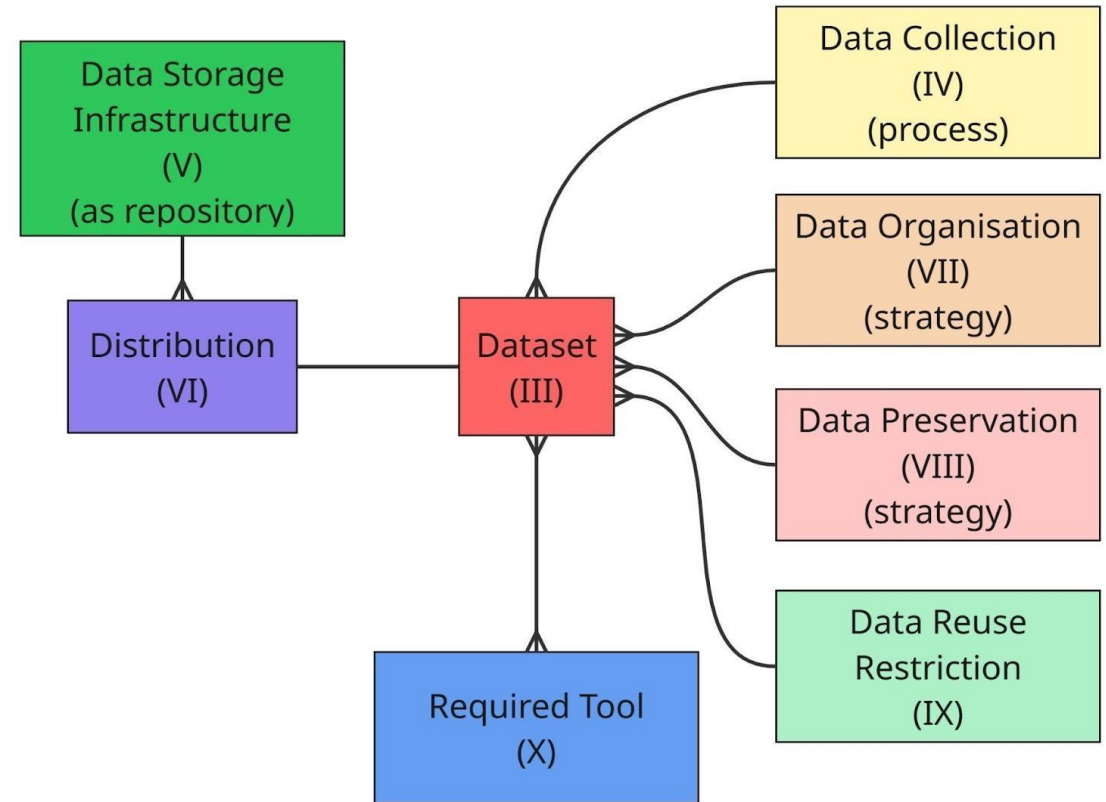
# What level of support?

- [support@dmp.eosc.cz](mailto:support@dmp.eosc.cz)
- Centrally managed and customized for the NRP environment
- A single unified instance for all users
- Individual institutions can independently use both the open-source tool and its content



# Content: Knowledge Model for NRP

- Covers requirements from DMP guidelines of funding agencies
- Ensures **non**-redundancy
- Ability to define and track planned actions



Plan or Action?



Dataset(s)  
definition



✓ IV.1.a.2 Is this collection and processing approach in planning stage with no associated datasets, or are there already datasets that can be linked to it?

CCMM

Horizon Europe DMP

Science Europe DMP

maDMP

This choice indicates whether the restriction is just **planned for now or already applies to certain datasets**. If it's still only planned, it will be recorded in the DMP as a future approach. **As the project moves forward, you'll need to specify which datasets it relates to as they are created and managed.**

- a. This approach is still in the planning stage, and no datasets are associated with it
- b. There are already existing datasets that can be linked to this approach ☰

↻ Clear answer

^ Collapse

✓ IV.1.a.2.b.1 Is this data collection and processing approach consistent across all datasets you've produced?

CCMM

Horizon Europe DMP

Science Europe DMP

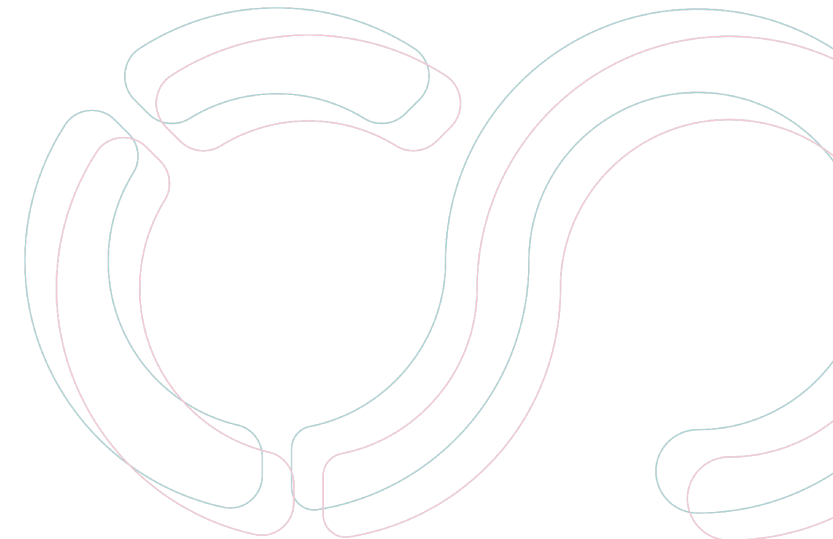
maDMP

Desirable: *Before Finishing the Project*

- a. No, different datasets were collected and processed using different approach ☰
- b. Yes, the same data collection and processing approach applies to all datasets

# Content: Templates

- Horizon Europe DMP
- Science Europe DMP
- RDA DMP Common Standard for maDMP
- Czech Core Metadata Model (CCMM)



My project 🕒

📄 Questionnaire

📊 Metrics

👁️ Preview

📁 Documents

⚙️ Settings

**⚠️ Some datasets have unprovided parts ⚠️**

*my dataset* has the following parts not provided:

- Collection
- Processing Environment
- Distributions
- Organisation Strategy
- Metadata
- Documentation
- Preservation Strategy
- Reuse Restrictions
- Tools



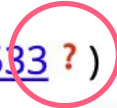
**My project**



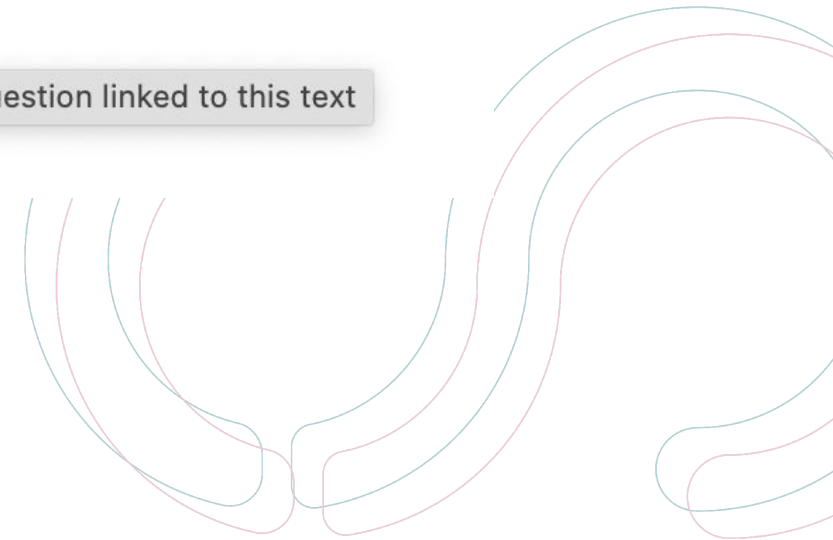
## Contributors

The following contributor are related to this DMP:

- **Jana Martínková ?** ([jana.martinkova@cvut.cz](mailto:jana.martinkova@cvut.cz) ? , ORCID: [0000-0001-8575-6533](https://orcid.org/0000-0001-8575-6533) ? )  
Affiliation: [Czech Technical University in Prague](#) ?  
Roles: *Producer, Data Protection Officer, Contact Person*



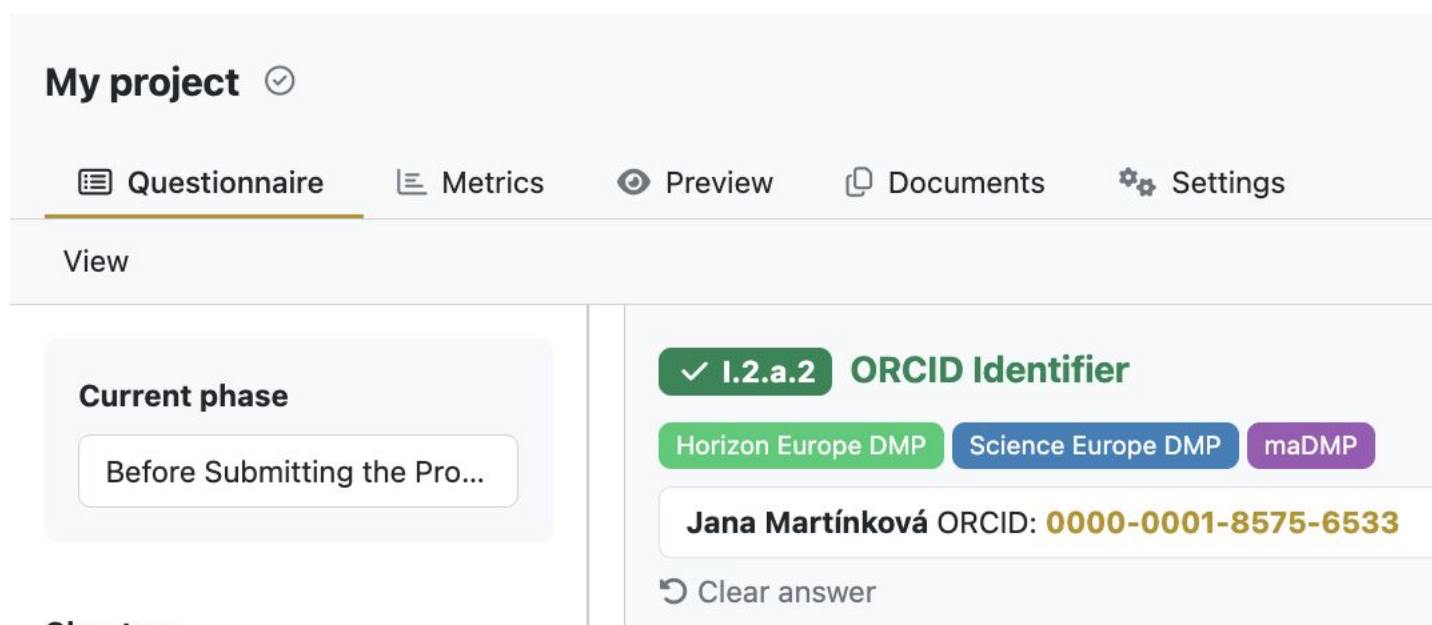
Question linked to this text



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The following contributor are related to this DMP:

- **Jana Martínková** ? ([jana.martinkova@cvut.cz](mailto:jana.martinkova@cvut.cz) ?, ORCID: [0000-0001-8575-6533](https://orcid.org/0000-0001-8575-6533) ?)  
Affiliation: [Czech Technical University in Prague](#) ?  
Roles: *Producer, Data Protection Officer, Contact Person*



**My project** ✓

Questionnaire Metrics Preview Documents Settings

View

**Current phase**

Before Submitting the Pro...

✓ **I.2.a.2 ORCID Identifier**

Horizon Europe DMP Science Europe DMP maDMP

**Jana Martínková** ORCID: **0000-0001-8575-6533**

Clear answer

# Content: Integrations

## NRP:

- FAIR Implementation Plan
- Czech Core Metadata Model
- Národní Katalog Repozitářů
- License Selector

## External:

- ORCID
- ROR
- FAIRsharing
- Crossref

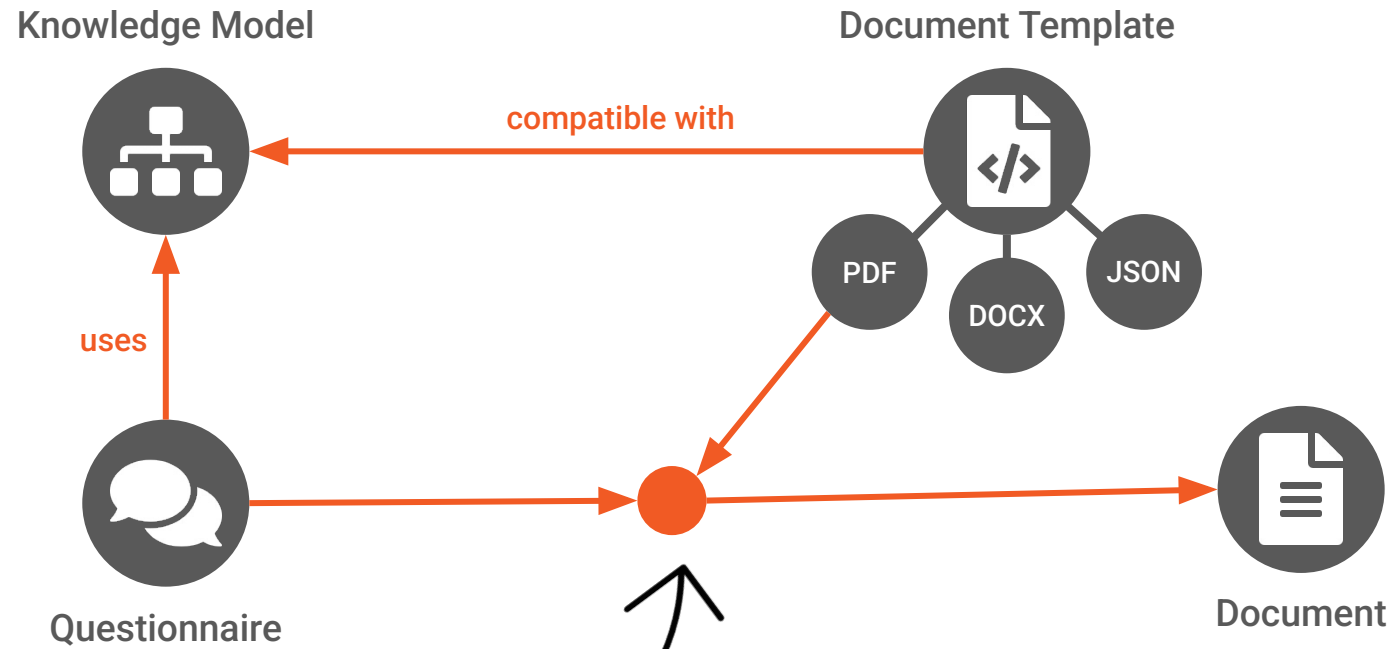
# Customization of KM



# How to customize KM?

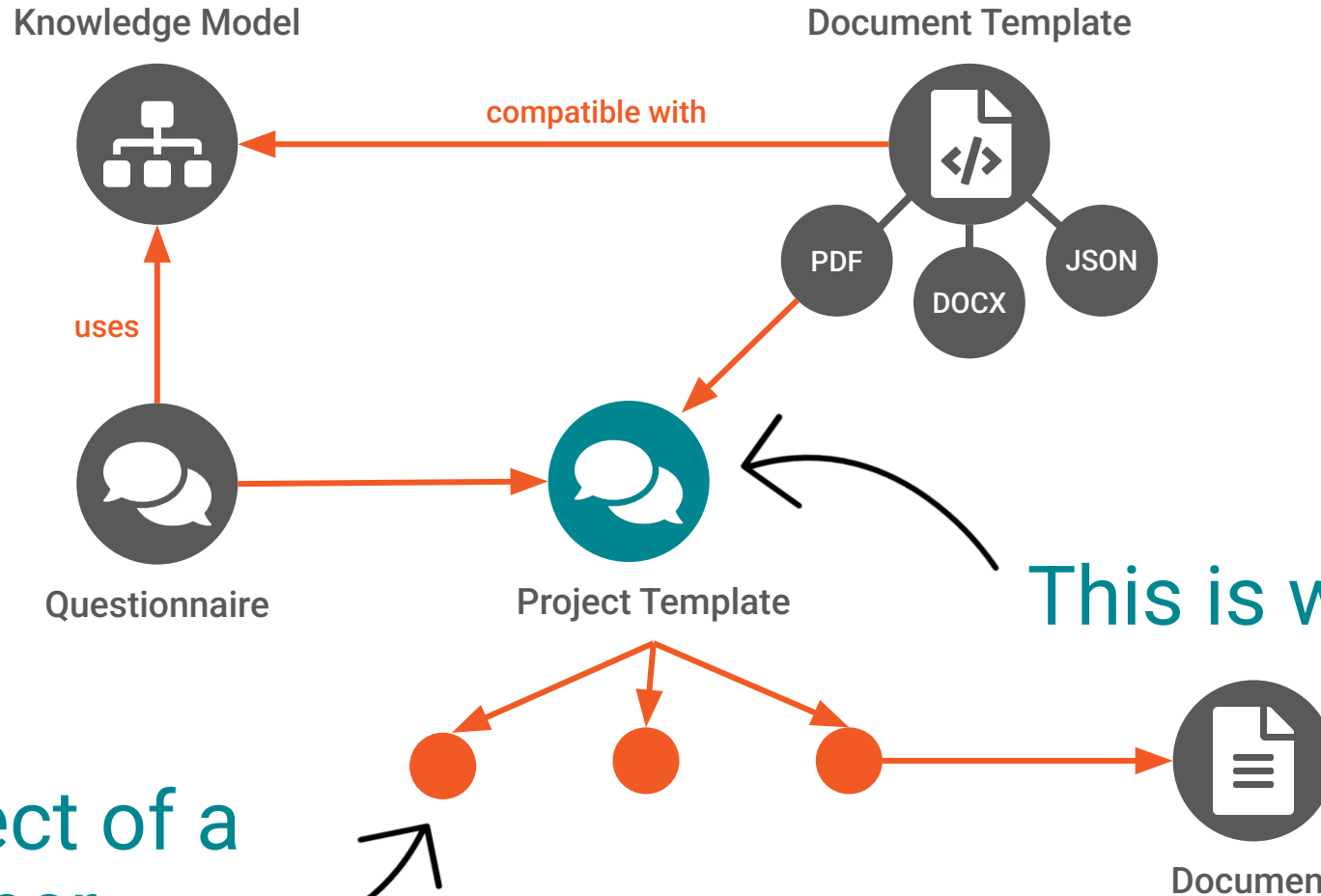
1. Project templates
2. Customization of KM itself

# Creation of Project Templates



This is project of a researcher

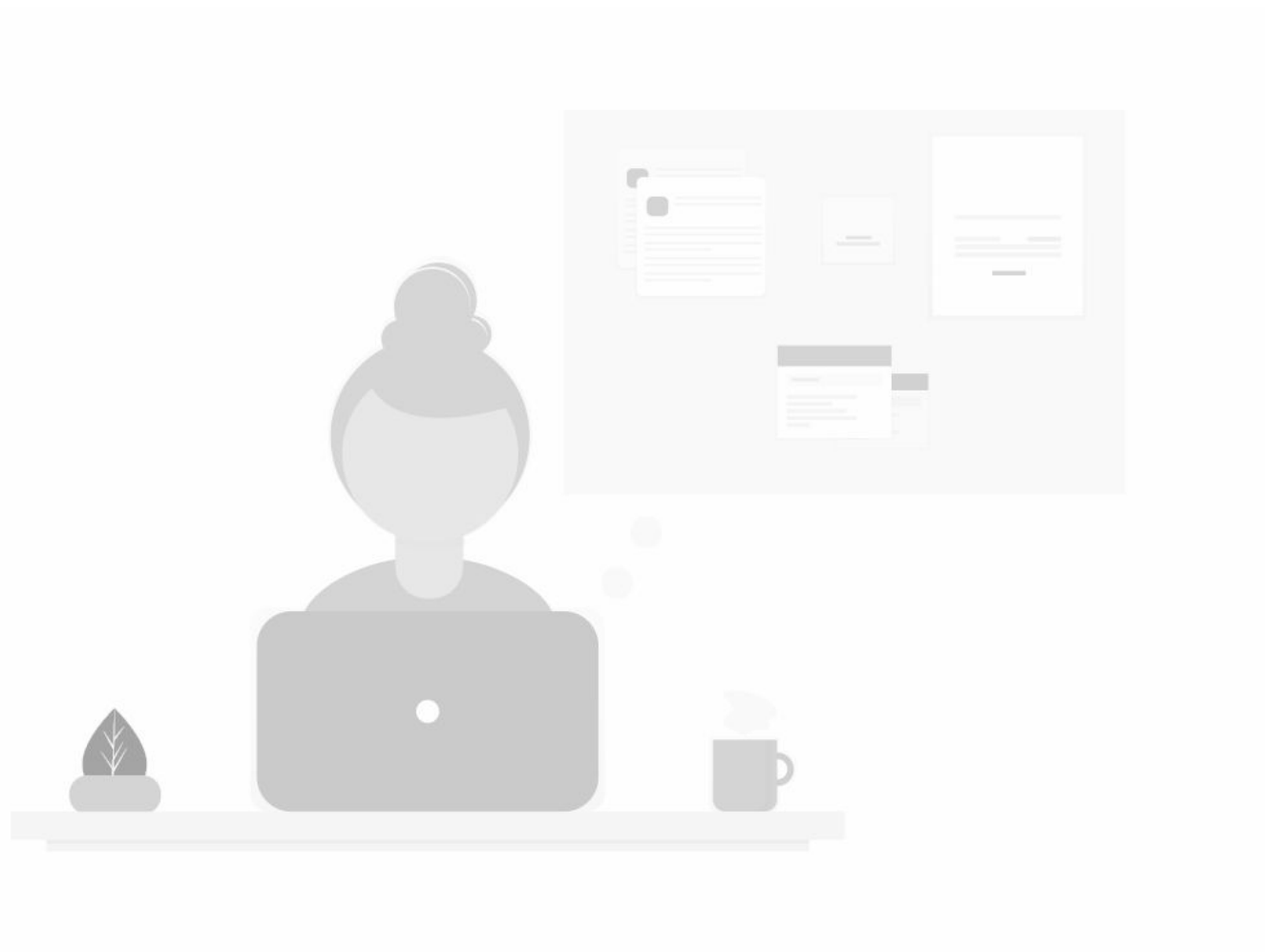
# Creation of Project Templates



This is what you create!

This is project of a researcher

# Show time!



# Creation of Project Templates

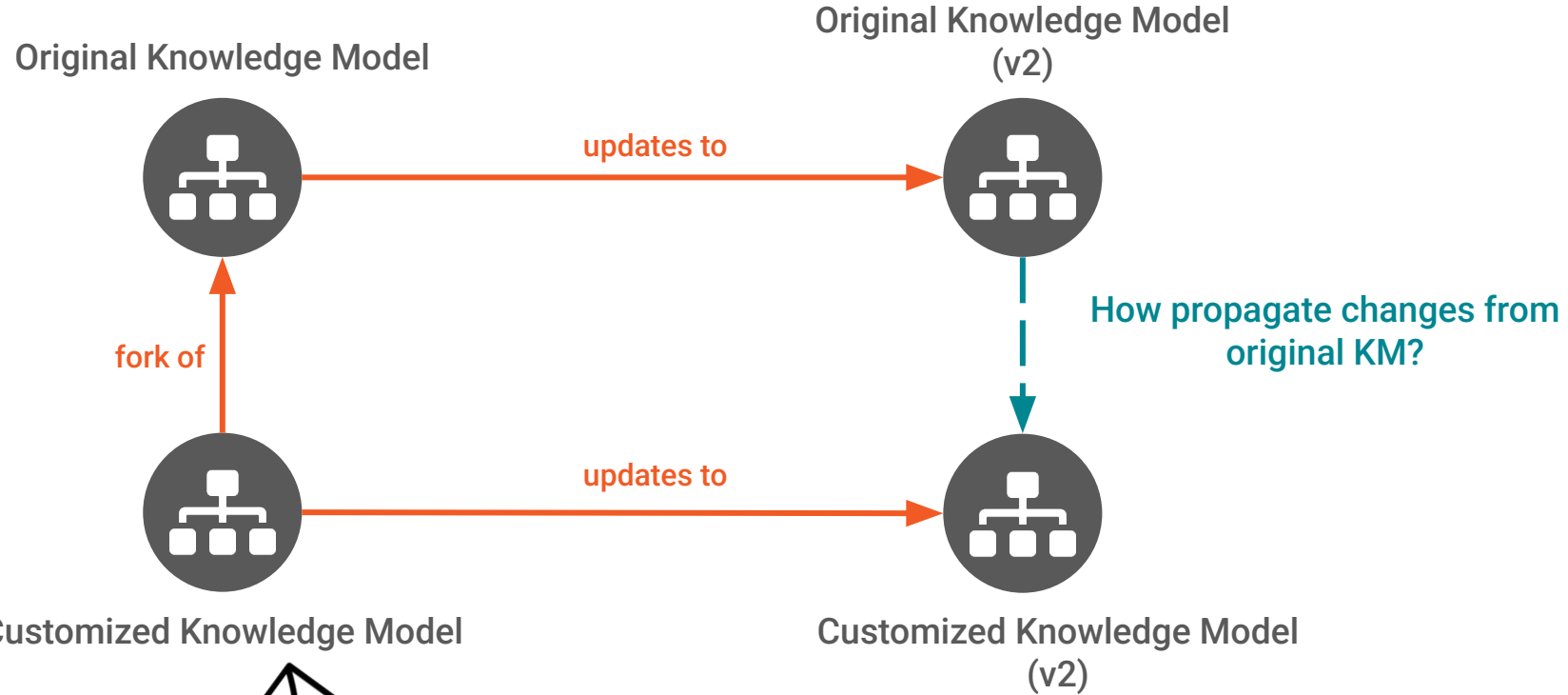
## Pros

- Simple setup and low maintenance effort
- Pre-populated answers, TODOs, and comments
- Consistent starting point across projects

## Cons

- Updates to templates are not propagated to existing projects
- Limited flexibility for modifying the project structure

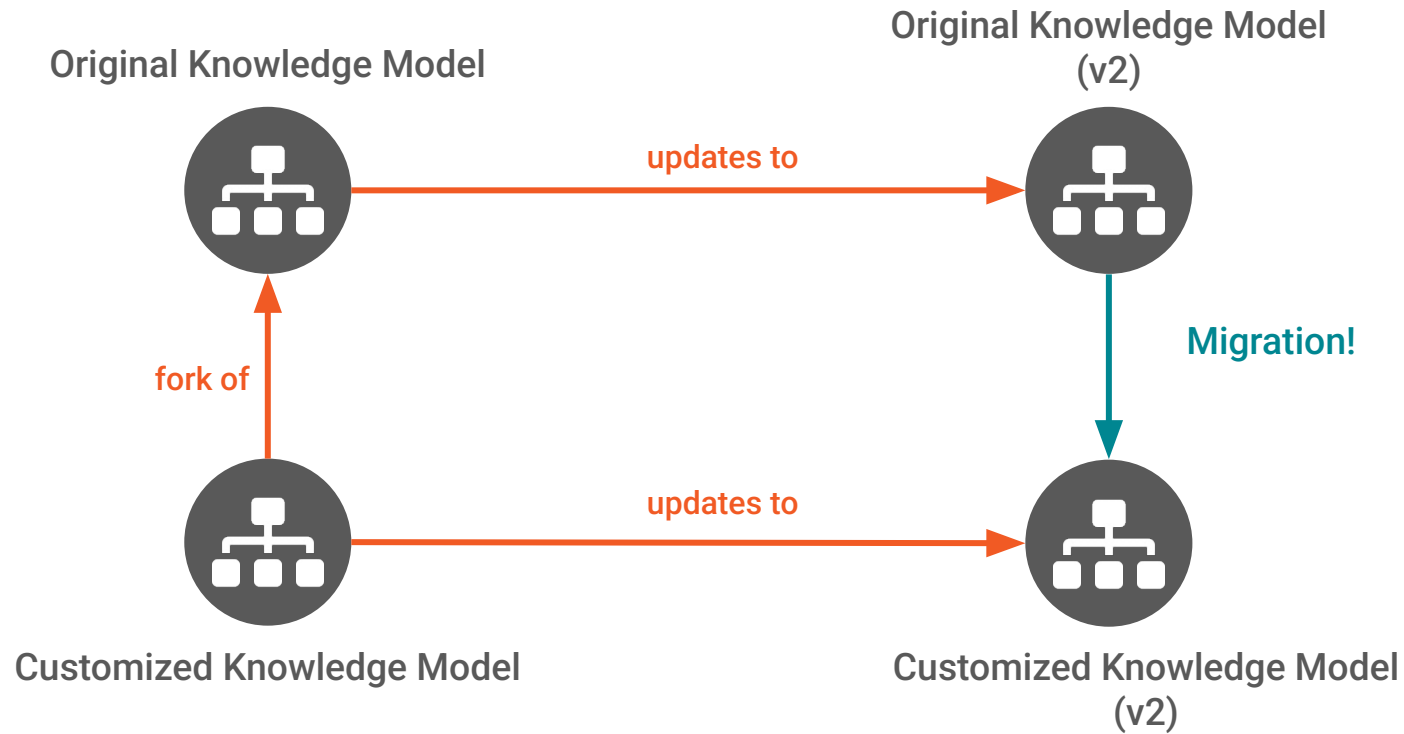
# Customization of KM



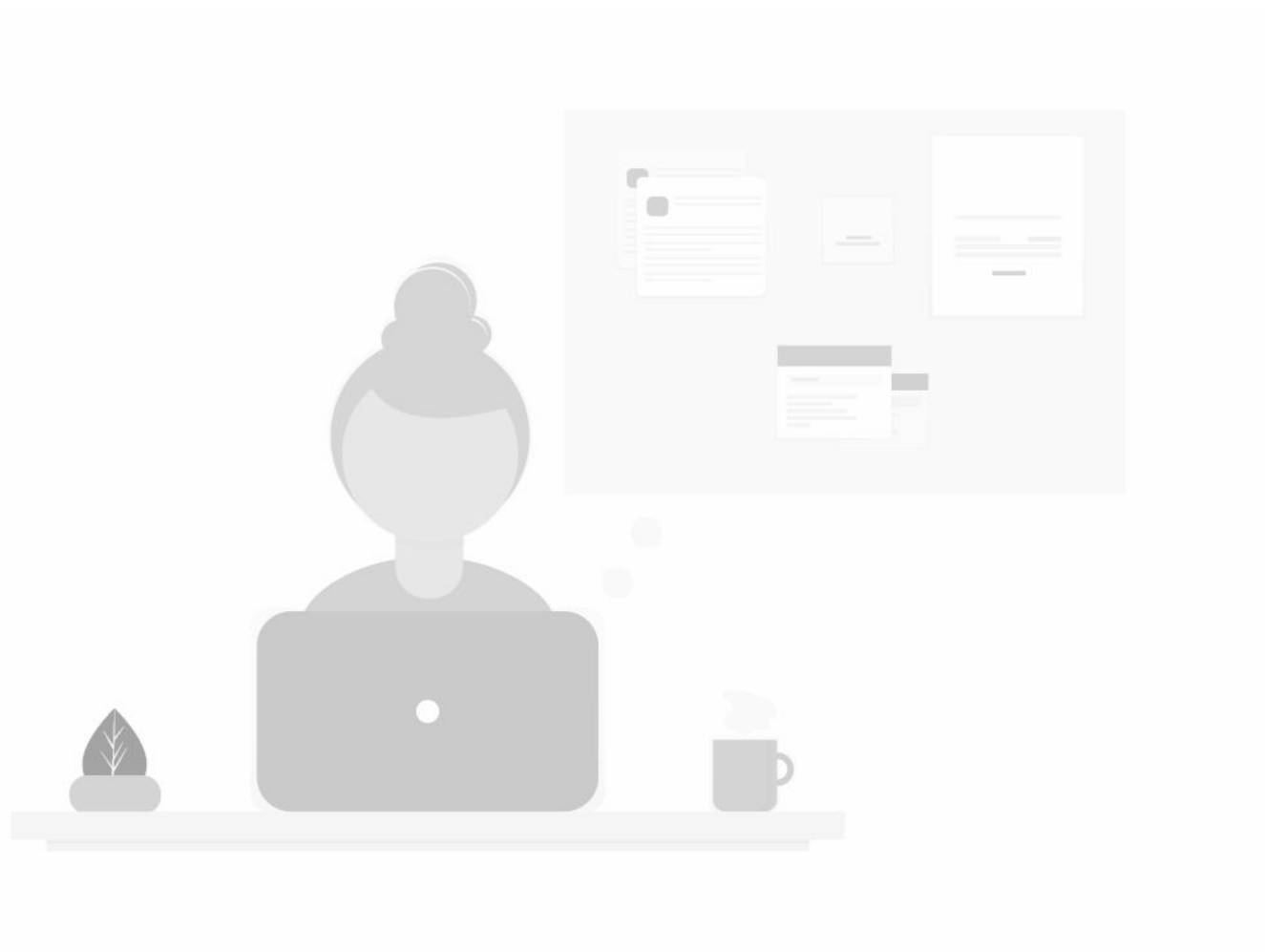
This is what you create



# Customization of KM



# Show time!



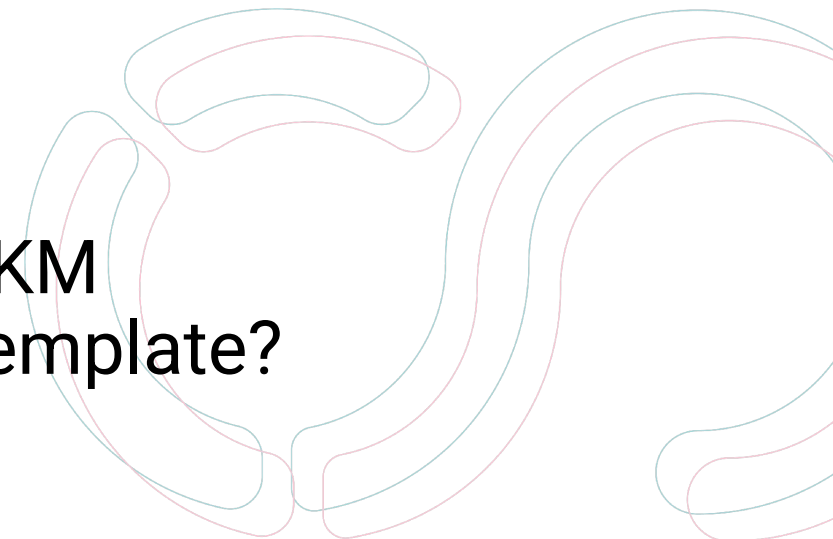
# Customization of KM

## Pros

- Updates are propagated to existing projects
- Modification of any part of KM

## Cons

- Needs to be updated according to the original KM
- Bigger changes → what about the document template?



# AI Document Generation



Co-funded by  
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Ministry of Education,  
Youth and Sports  
of the Czech Republic



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# AI Document Generation

- Designed to simplify DMP creation based on a completed questionnaire
- No template development or technical knowledge required
- Describe the document structure (section titles and descriptions) → Generate a document draft
- Creates a structured starting point that can be reviewed and customized
- Built as a prototype to explore the concept and gather feedback

# Let's Explore AI Document Generation: Guided Tour

Your opinion matters!  
Try it out and let us know how it could  
make your work easier.

# Thank you for your attention



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