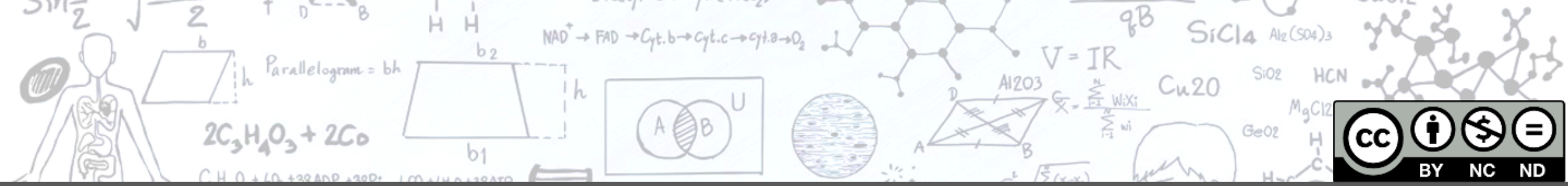

DSW
DATA STEWARDSHIP WIZARD

Jak na tvorbu Data management plánu

elixir CZECH REPUBLIC

FACULTY OF INFORMATION TECHNOLOGY CTU IN PRAGUE

Tereza Machačová
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Jan Slifka
jan.slifka@ds-wizard.org

Úvod do DMP

- Data Management Planning (DMP)
- Formát dat, jejich množství, účel vzniku, doba a místo uložení…
- Použité licence, sdílení dat, platnost přístupu…
- Plány jsou důležité pro (výzkumné) projekty
- Vyžadován funderem
- Pomáhá proti nejasnostem
- Pomáhá proti ztrátě dat

Úvod do DMP

- Data Stewardship je komplikovaná problematika pokrývající různá témata
  - úložiště, licence, sdílení, FAIR
- Plán nemá být jednorázovým statickým dokumentem
- Plán má být aktuální a pravdivý

Šablony

... a mnoho dalších

Cíl výzkumníků

- Vytvořit DMP pro projekt
- Získat potřebné znalosti pro DMP
- Spolupracovat s kolegy
- Být produktivní

Předletová příprava

Adobe Stock | RioPatuca Images

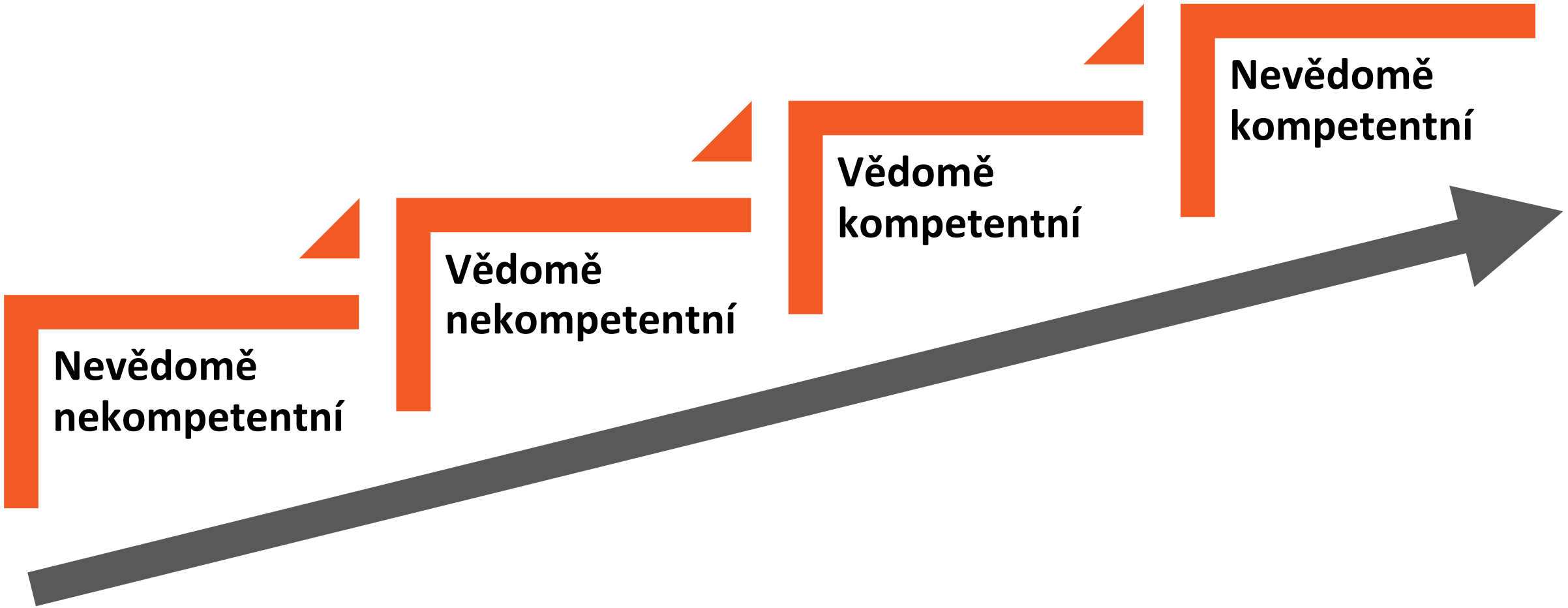
Co je Data Stewardship Wizard?

- Open-source nástroj vyvíjený v rámci ELIXIR
- Nástroj vhodný pro každého (od začátečníků po data stewardy)
- Slouží jako check-list před startem projektu
- Podporuje správu dat s ohledem na současné best practice (FAIR, machine-actionability)

Hlavní myšlenky DSW

- Minimum psaní = plán není esej, psaní jen tam, kde je to nezbytné
- Vedení = DSW vede uživatele skrz smart Questionnaire
- Flexibilita = lze upravovat obsah a integrovat s jinými službami
- Otevřenost = kdokoliv jej může využít a vytvářet vlastní obsah
- Orientace na uživatele = vývoj se výrazně řídí na základě zpětné vazby

Vzdělávací aspekt DSW



Vytváření projektu (dotazníku)

Create Project

Name

My first project

Knowledge Model

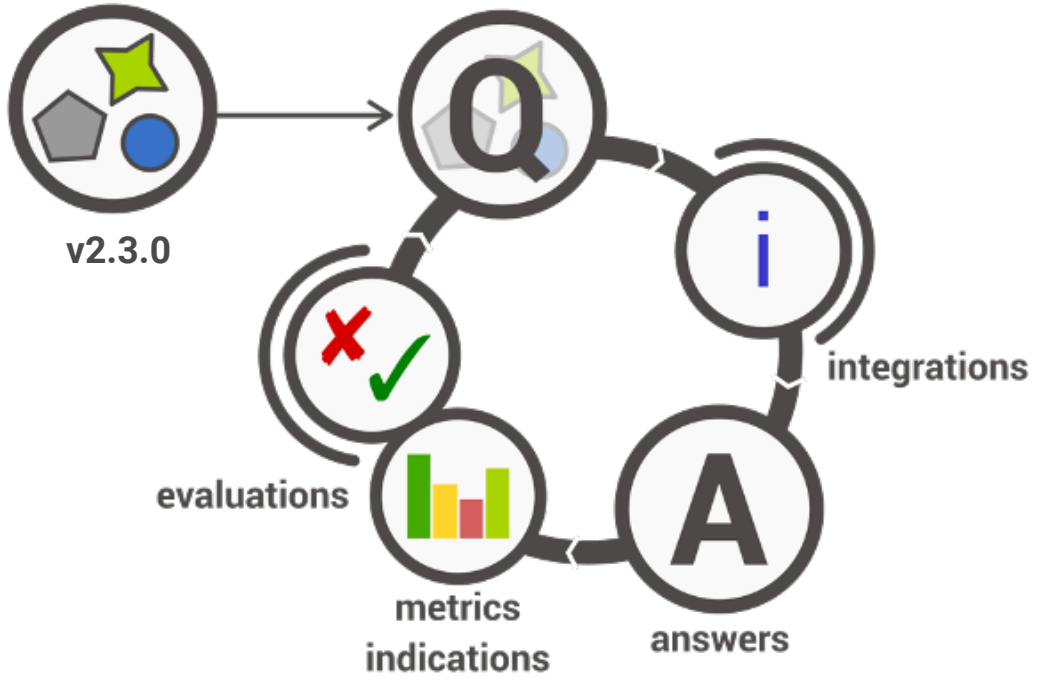
C **Common DSW Knowledge Model** 2.3.0
DSW Knowledge Model originated from mindmap made by Rob Hooft ×

Tags

☐ Horizon 2020 DMP ☐ Science Europe DMP ☐ maDMP

You can filter questions in the Questionnaire by tags. If no tags are selected, all questions will be used.

Cancel Save



DMP jako chytrý dotazník

DSW

1 **Is there any pre-existing data?**

Are there any data sets available in the world that are relevant to your planned research?

Desirable: *Before Submitting the Proposal*
Data Stewardship for Open Science: *atq*
External links: *Google dataset search*, *Datacite Search*

- ○ **a. No**
- ◉ **b. Yes**

Clear answer

1.b.1 **Will you be using any pre-existing data (including other people's data)?**

Will you be referring to any earlier measured data, reference data, or data that should be mined from existing literature? Your own data as well as data from others?

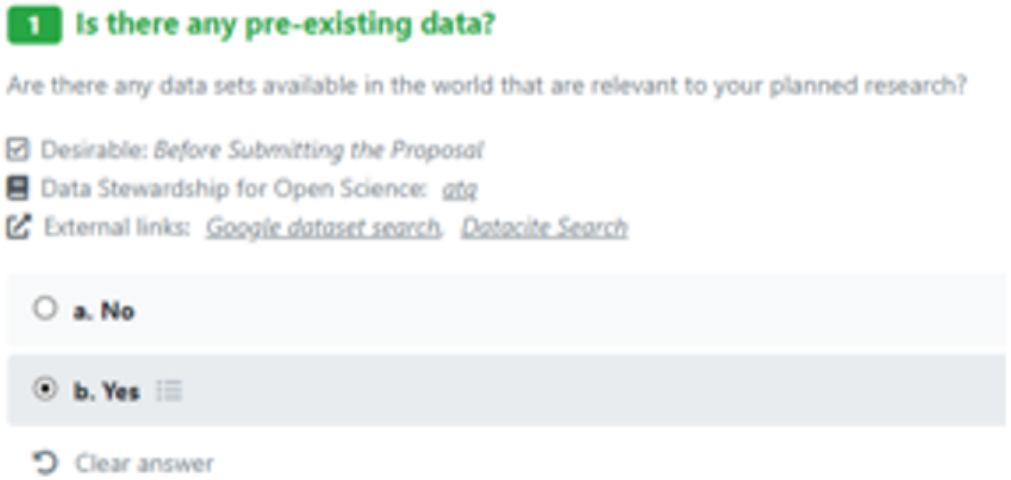
Desirable: *Before Submitting the Proposal*
Data Stewardship for Open Science: *ezi*

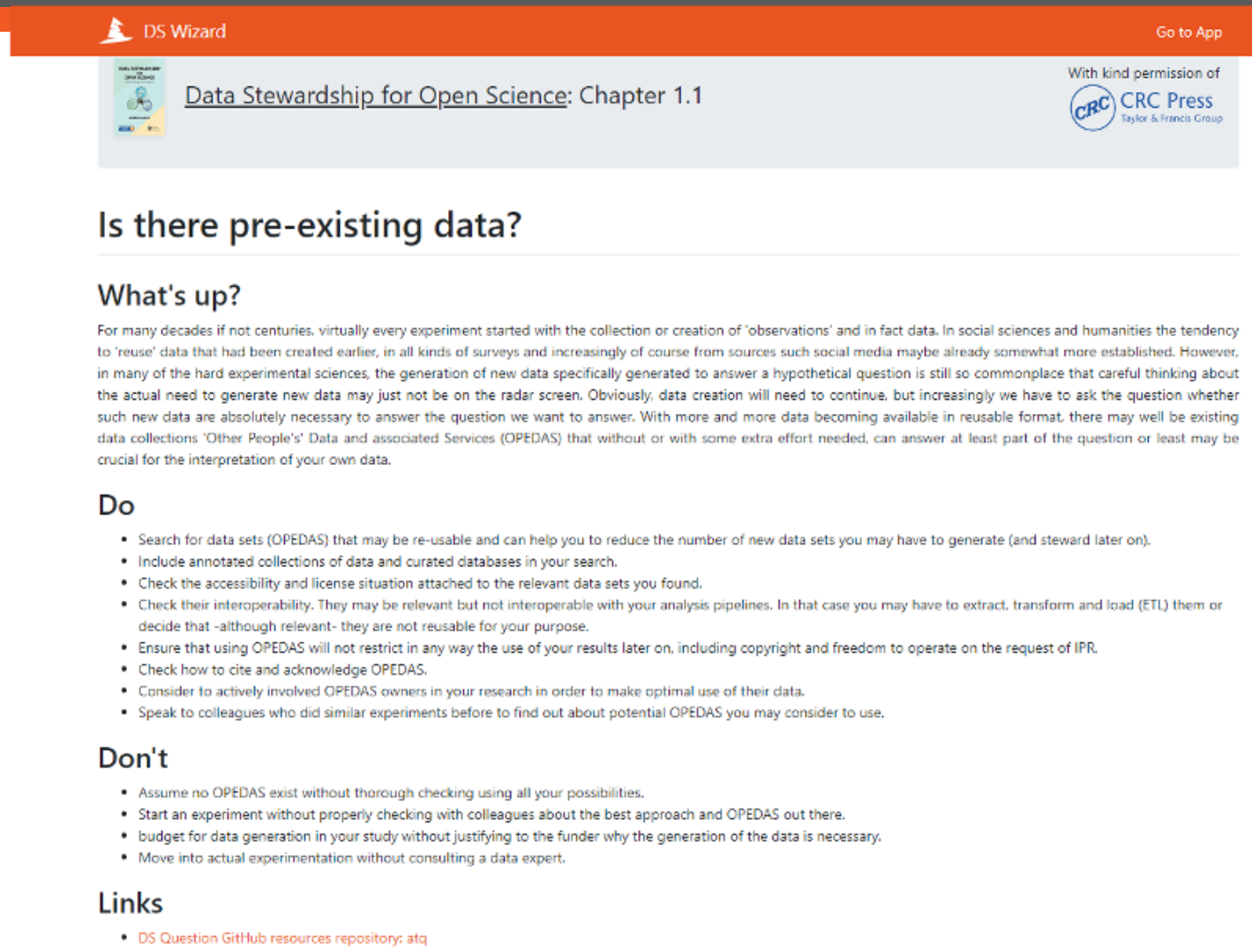
- ○ **a. No**
- ◉ **b. Yes**

Clear answer

Data Stewardship for Open Science

DSW





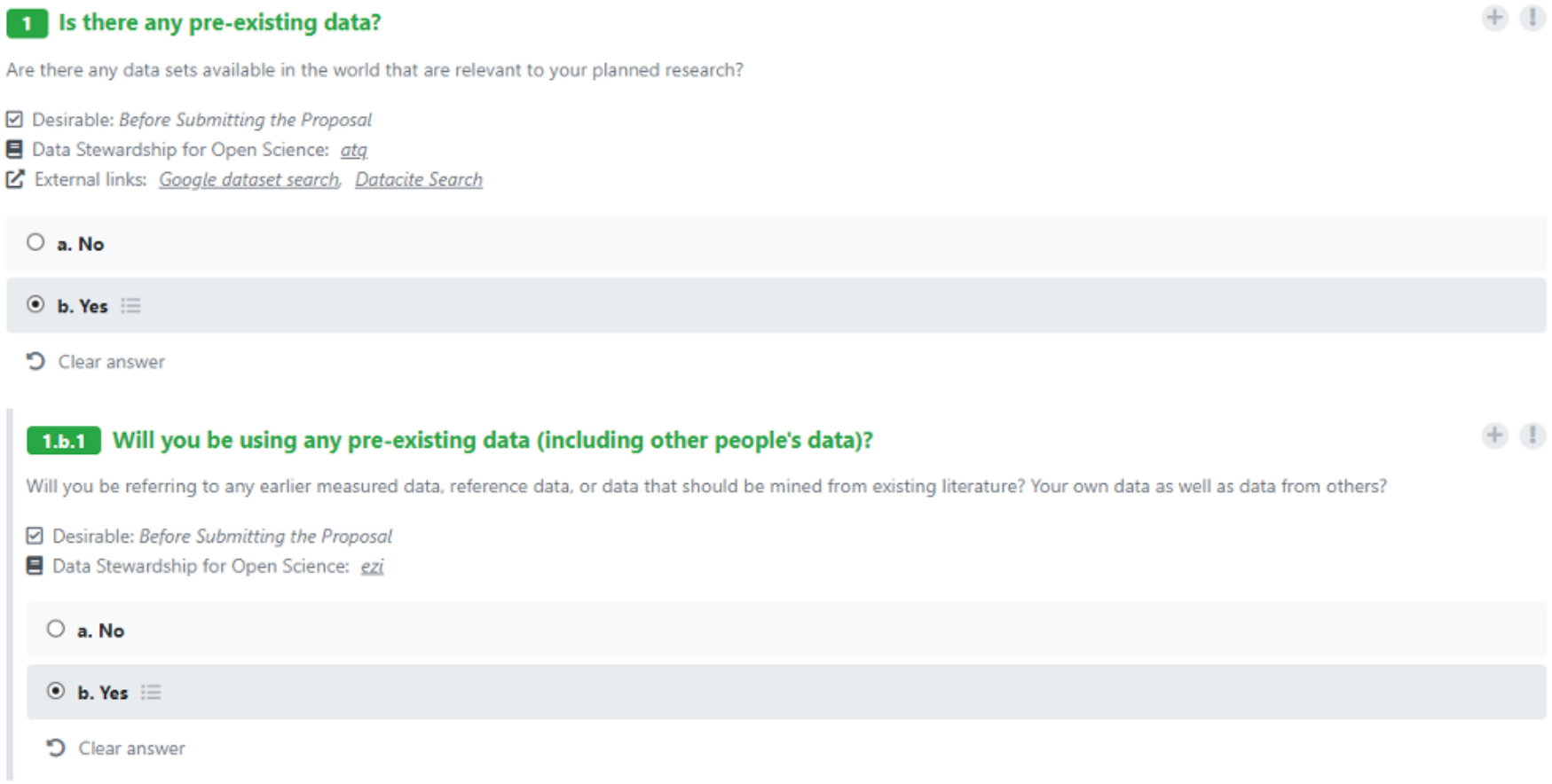
Data Stewardship for Open Science:

Implementing FAIR Principles

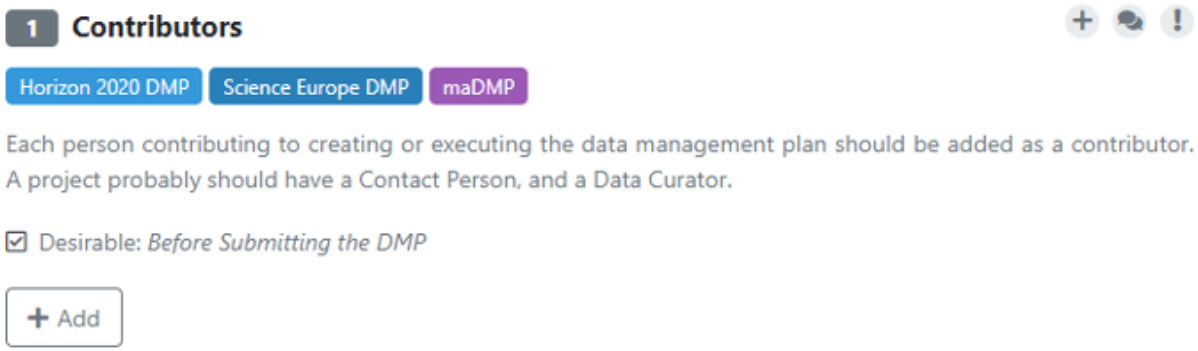
By Barend Mons

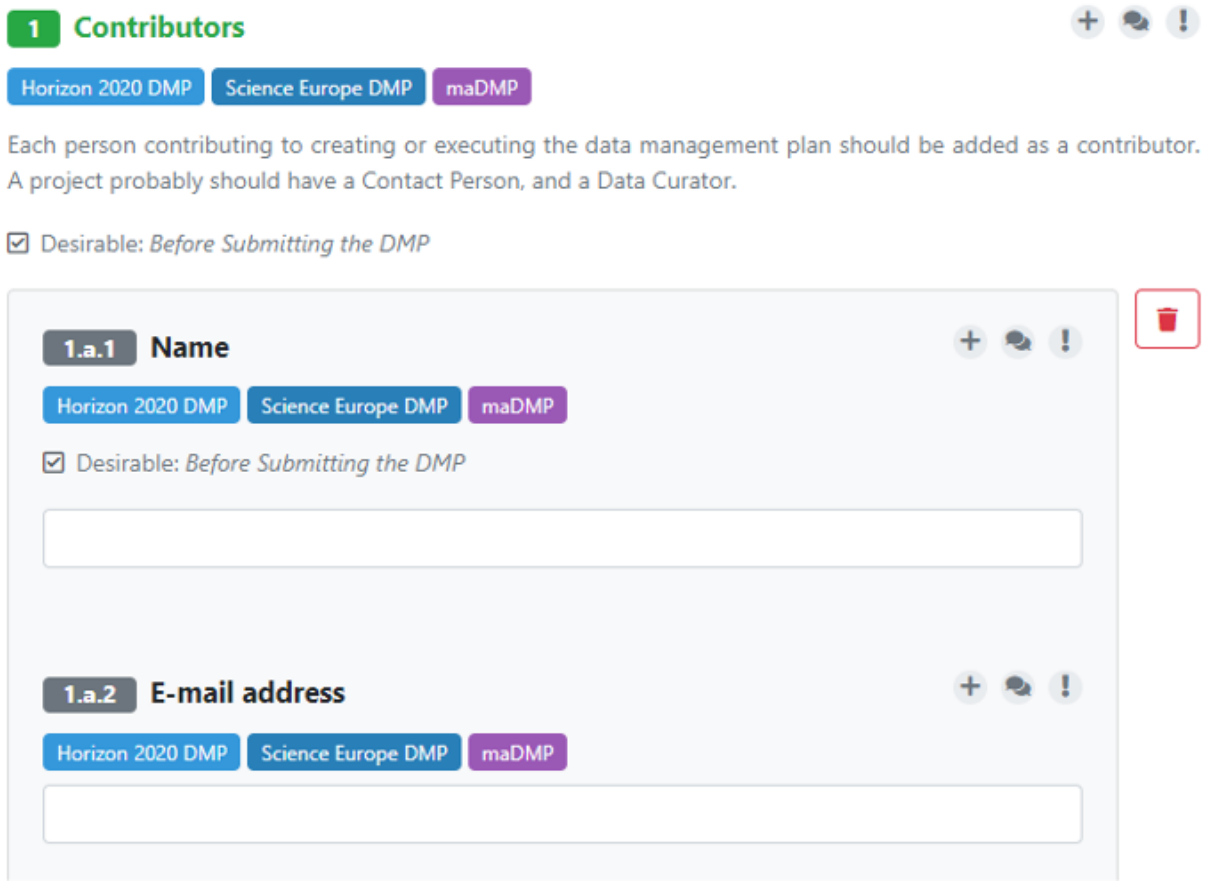
Typy otázek

- Výběr
- Multichoice
- List
- Hodnota
- Integrace



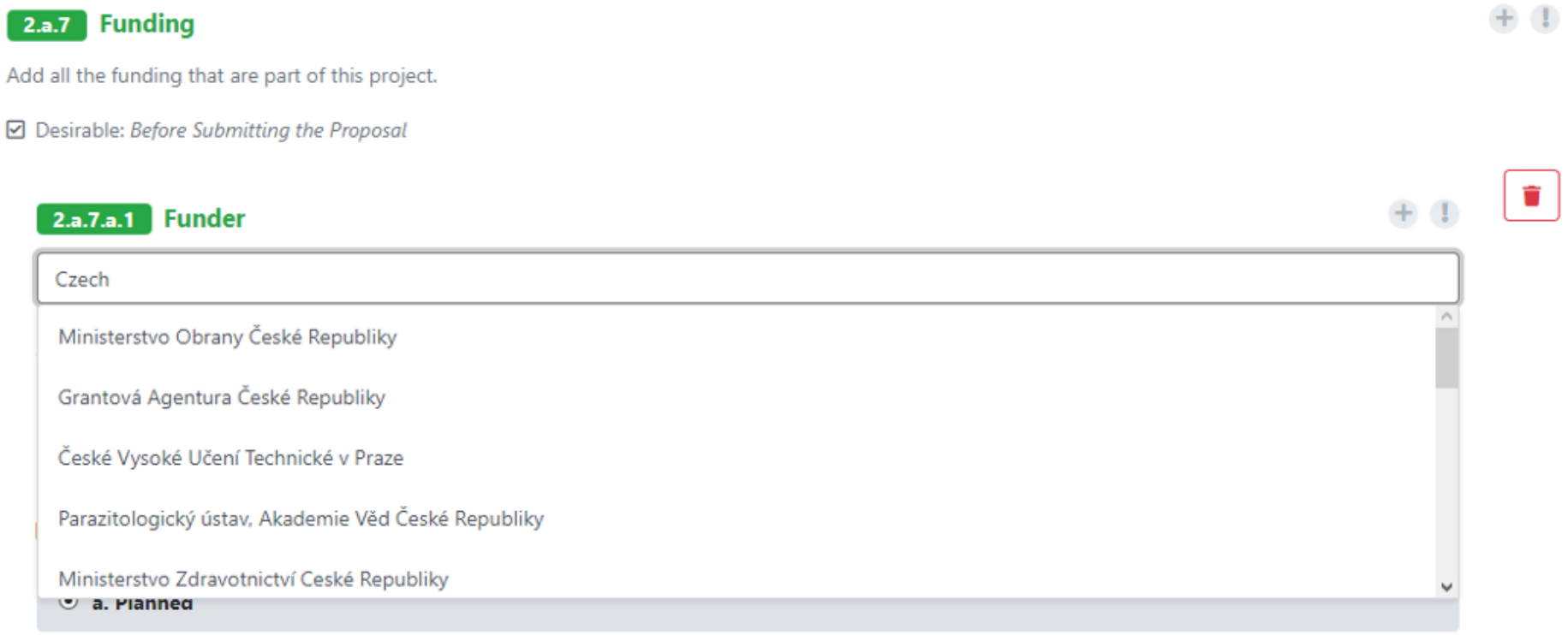
List a hodnota





Integrace

- Součástí odkaz - kvalitní metadata a usnadnění práce



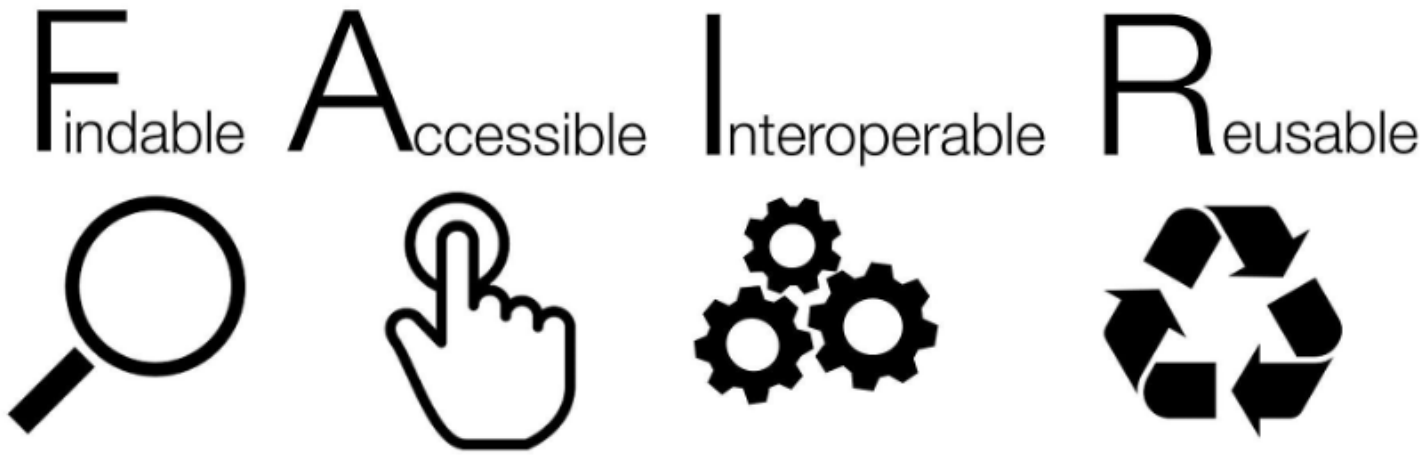
Crossref

ROR

WIKIDATA

FAIR Data

- Co je FAIR?
- Principy aplikované na data



Machine-actionability

- „Informace strukturovaná konzistentním způsobem tak, že stroje a počítače mohou být naprogramované pro snadné zpracování a vyhodnocování této struktury a jejího obsahu“
- Usnadnění práce
- Kvalitnější data a metadata

Základem je kvalitní „guidance“

Krátké vysvětlení

Výběr odpovědi

FAIR metriky

Reference

Doporučení

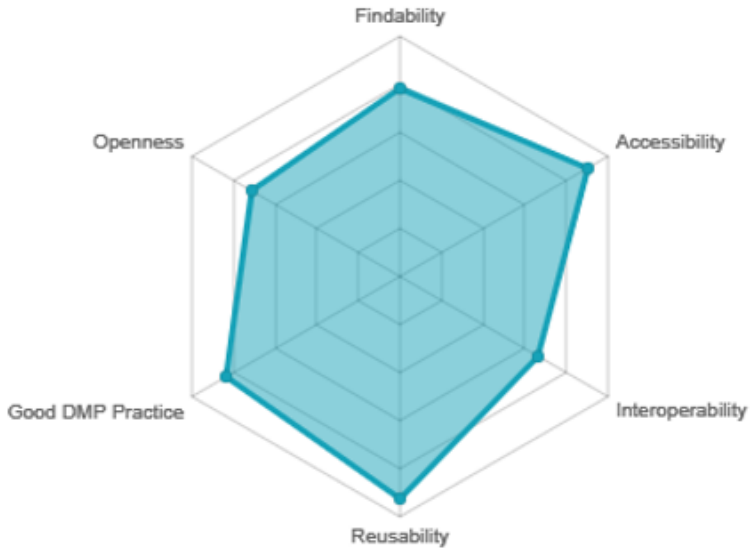
Indikace a metriky

Summary Report

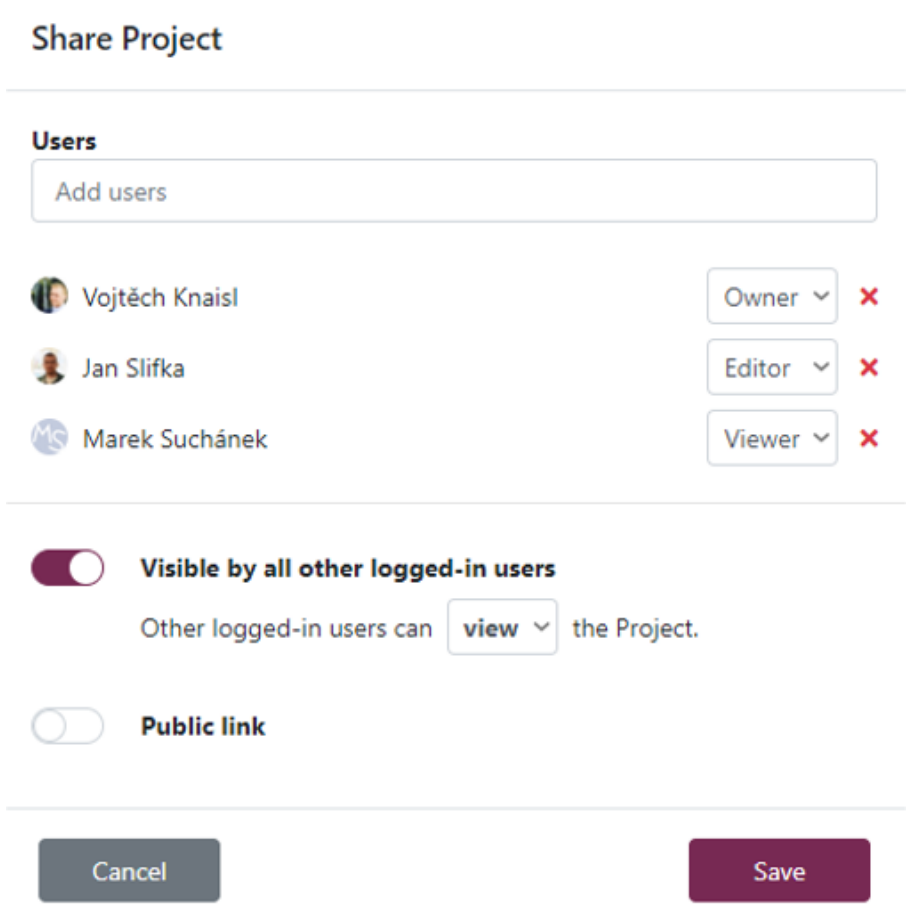
Answered (current phase): 100/100

Answered: 293/305

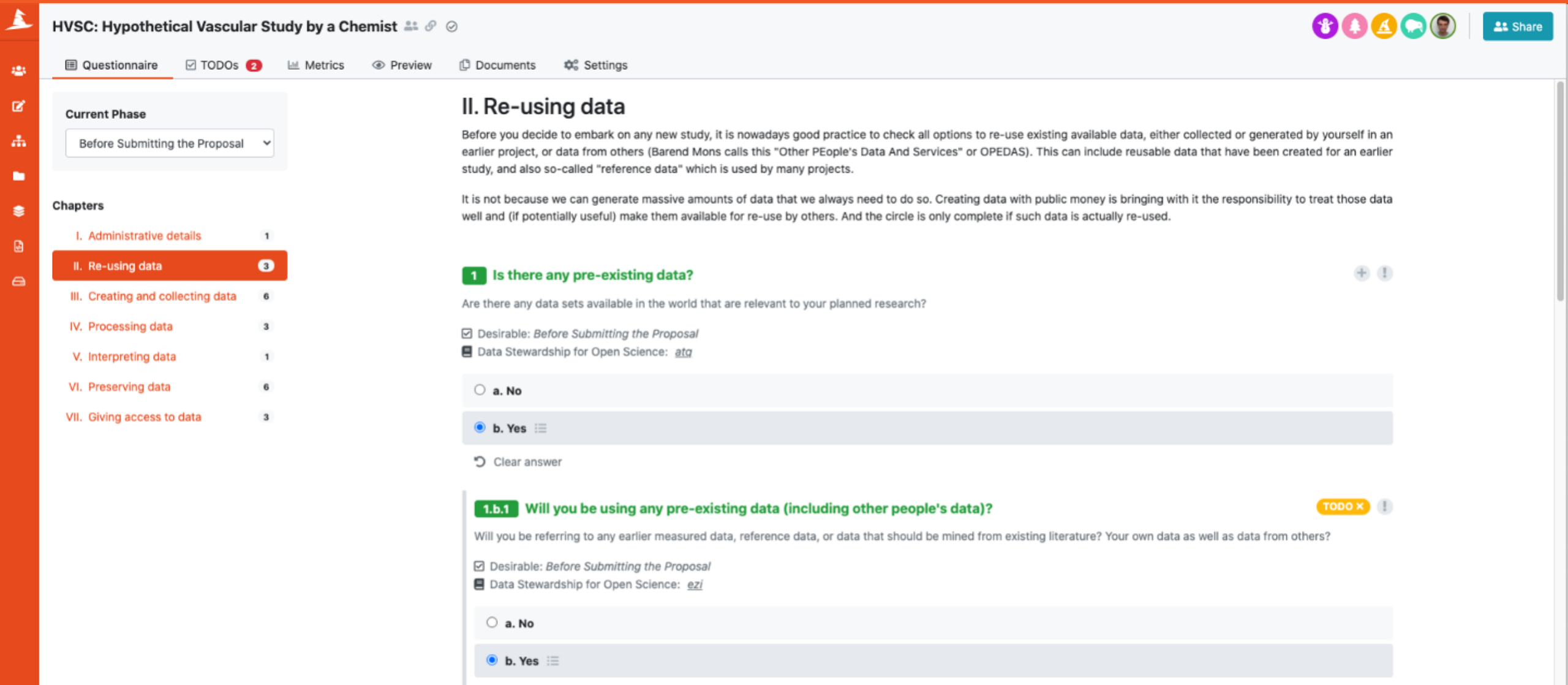
Metric	Measure
Findability	0.78
Accessibility	0.90
Interoperability	0.67
Reusability	0.92
Good DMP Practice	0.84
Openness	0.72



Spolupráce při plánování



Spolupráce při plánování



TODOs

DSW

TODOs 3 | Version history

V. Interpreting data

The interpretation of the data consists of the last steps of processing (often with manual interventions), visualisation, and data integration. In this chapter many questions about data interoperability will come up.

1 List the data formats you will be using and their structure

TODO

Give each type of data a name that you recognise.

If you have data in many different structures, integrating the data may be more challenging.

Desirable: *Before Submitting the Proposal*

+ Add

2 Will you be doing integration of different data types?

If you are getting different types of data from different sources and want to use them together it is likely that you will need to match items and glue everything together. This can be done with traditional table database technology, but it is also possible to use Linked Data and RDF.

This is an advanced subject that you may want to skip if this is not an issue for you. On the other hand, if this is your expertise we would like your help in improving the questions in this section.

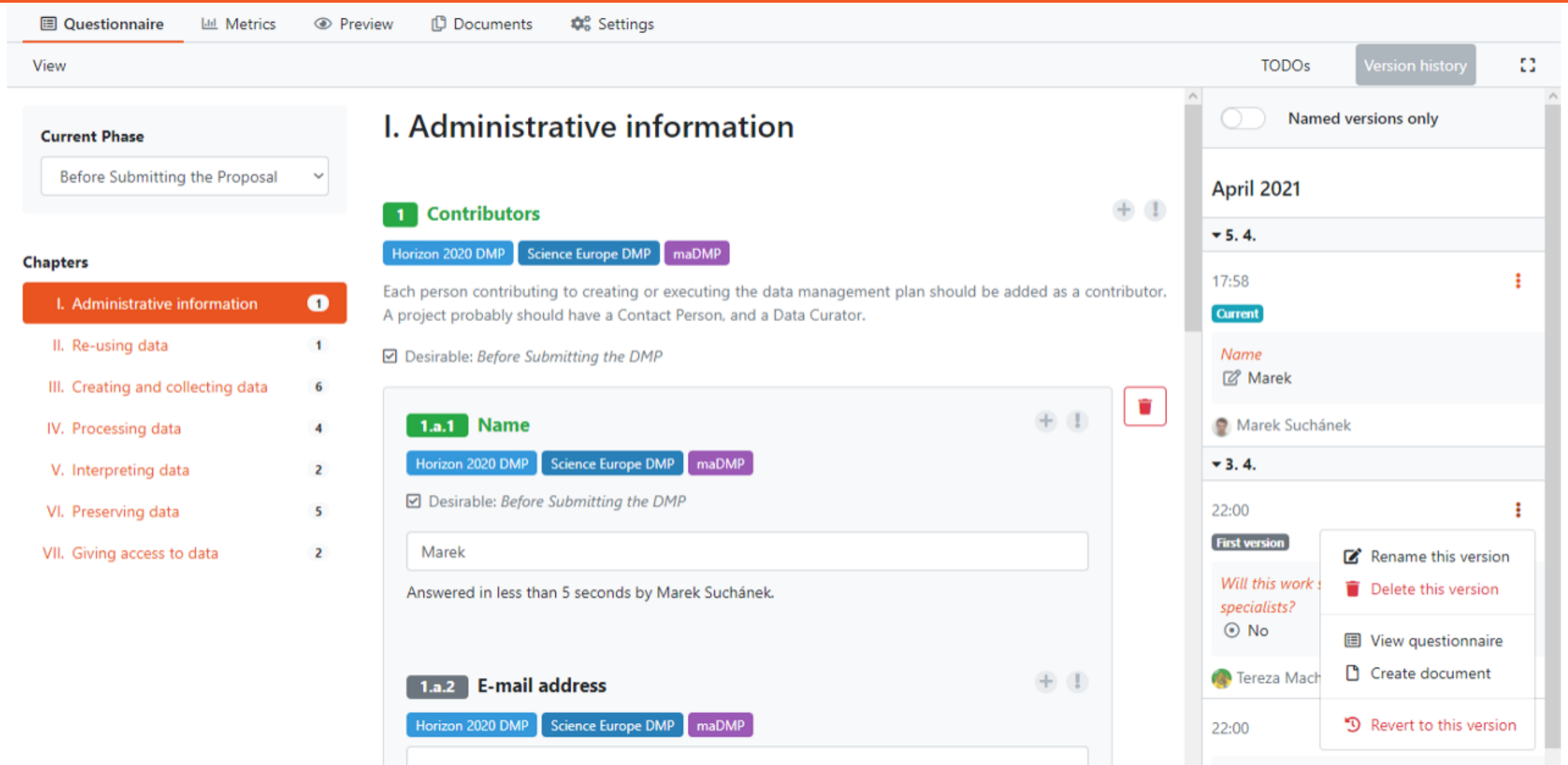
Processing data

- Will you be using a shared working space to work with your data?
- How will you validate the integrity of the results?

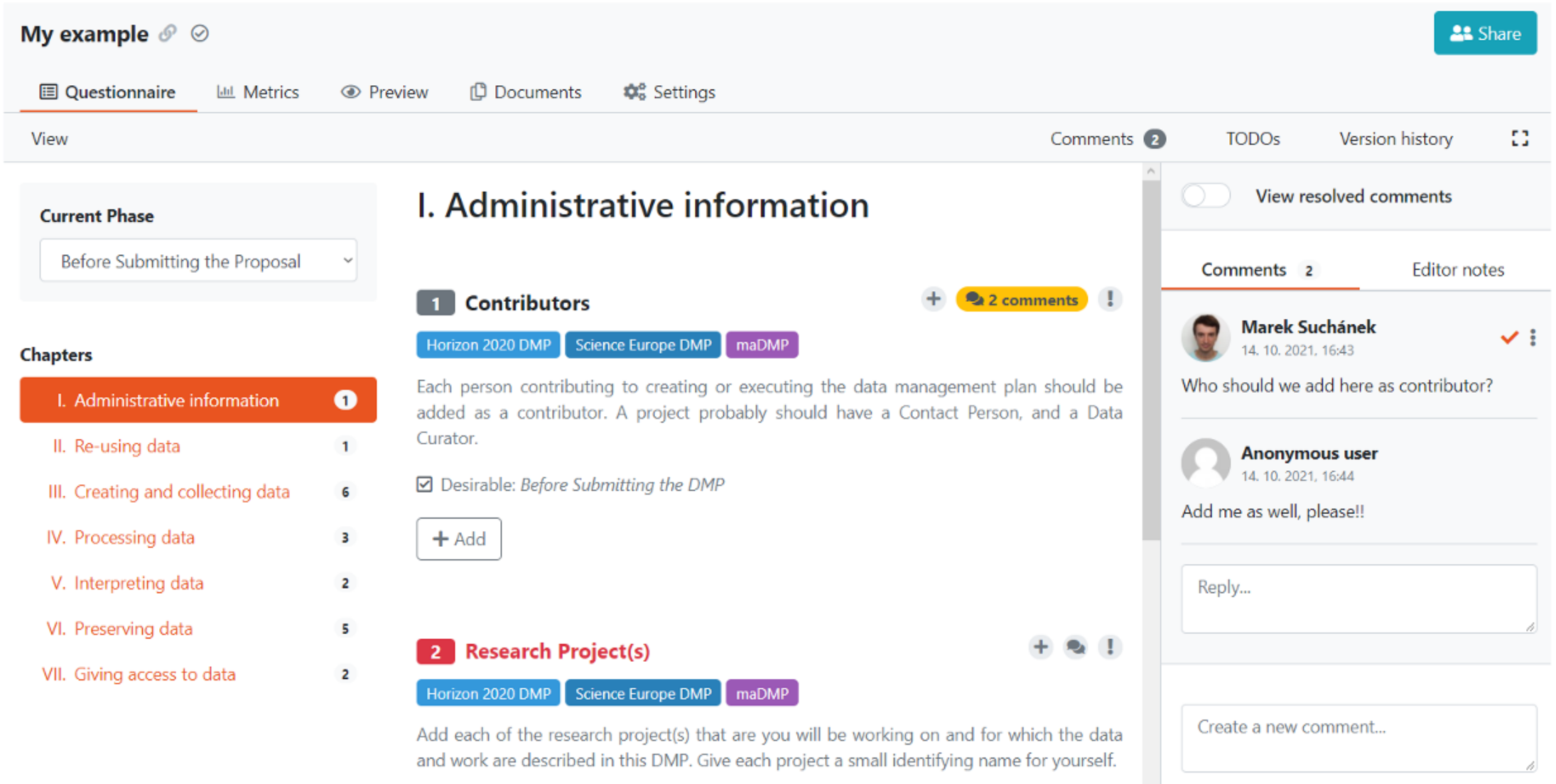
Interpreting data

- List the data formats you will be using and their structure

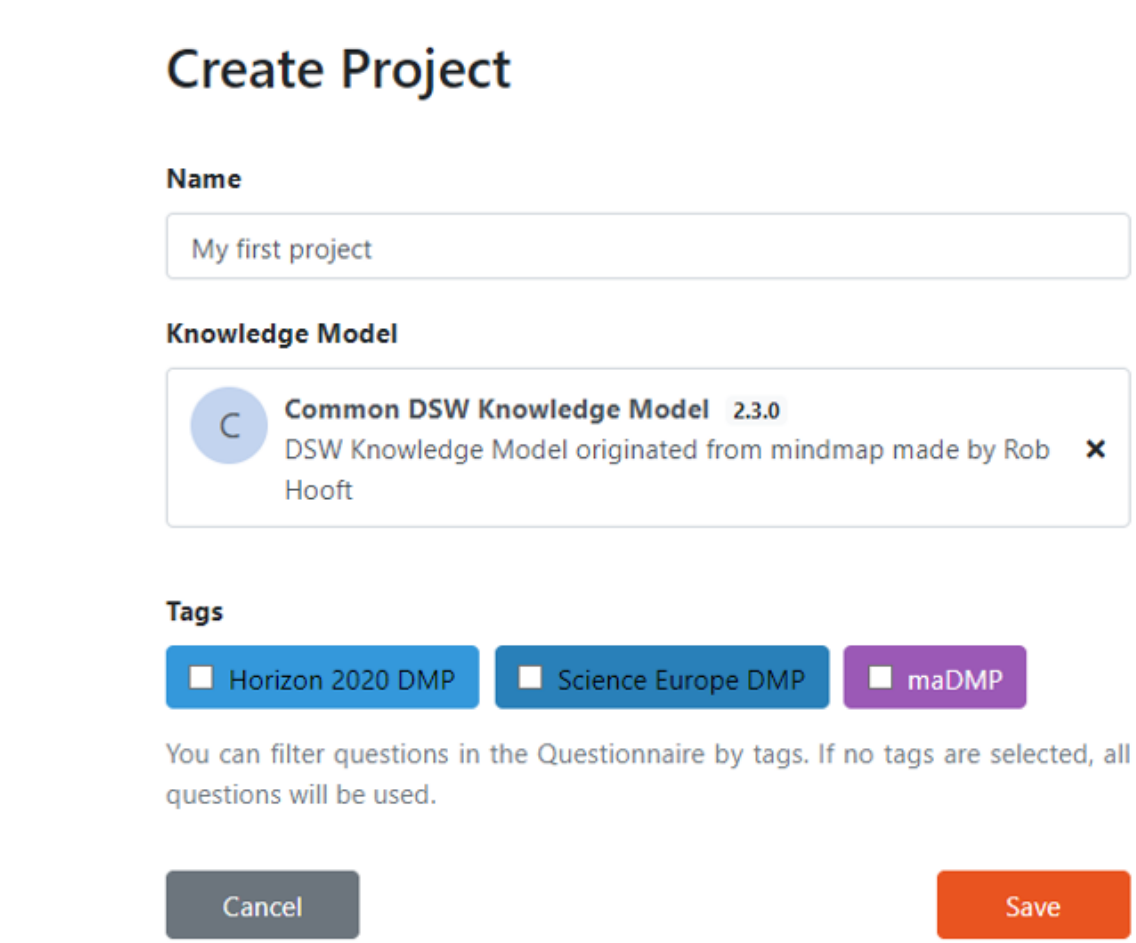
Historie verzí

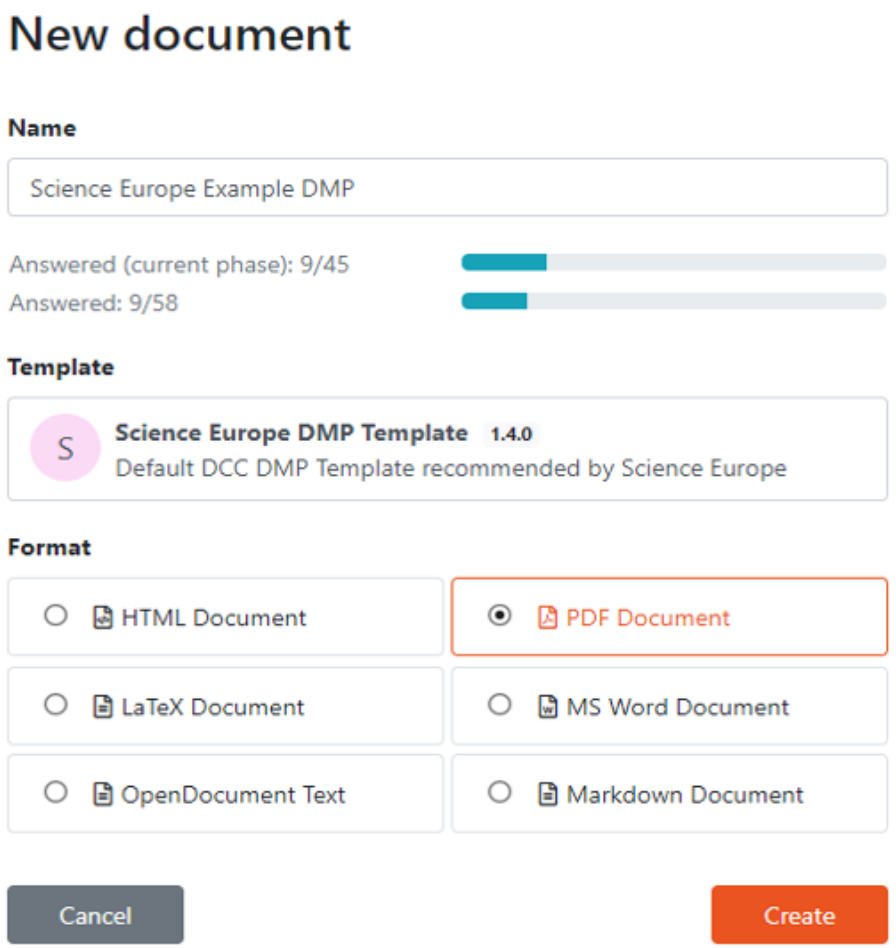


Komentáře a editorské poznámky

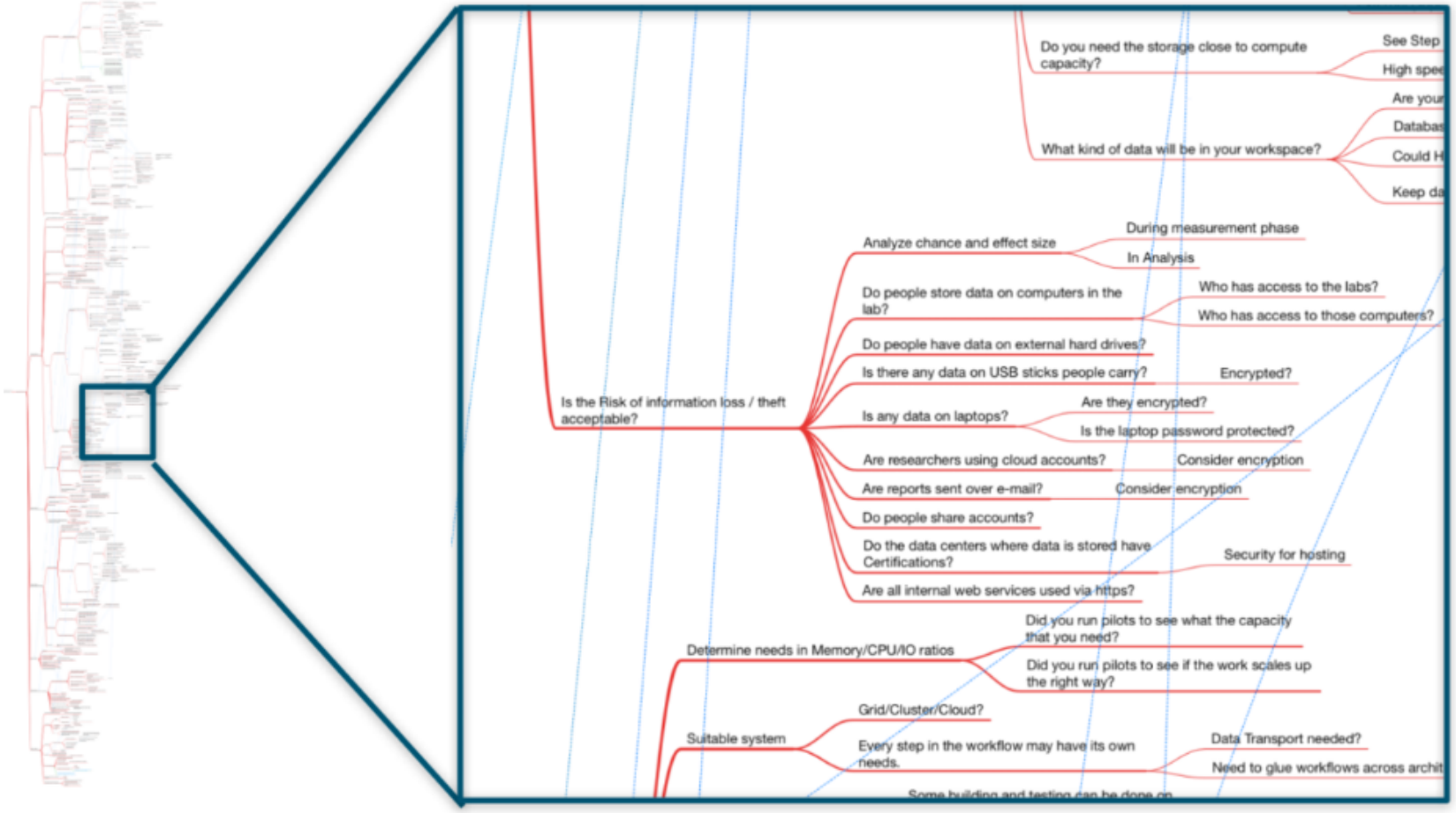


Knowledge Model vs Document template





Common DSW Knowledge Model

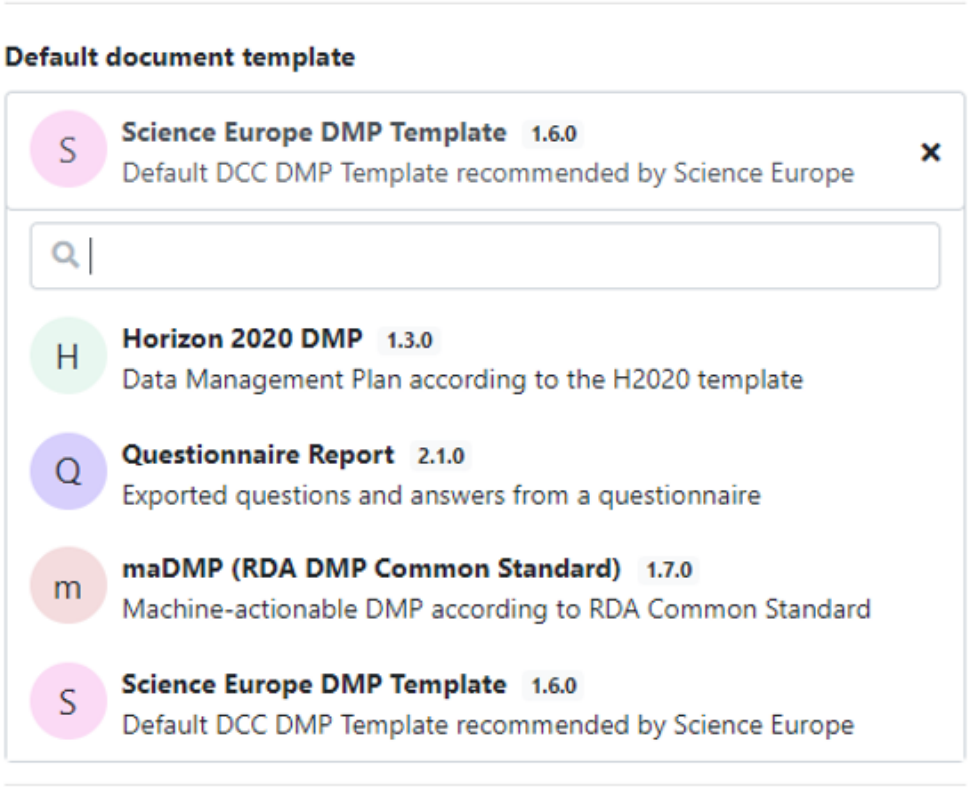


- Komplexní rozhodovací strom
- Podle mindmapy kterou vytvořil Rob Hooft (DTL, ELIXIR NL)
- ~600 uzlů

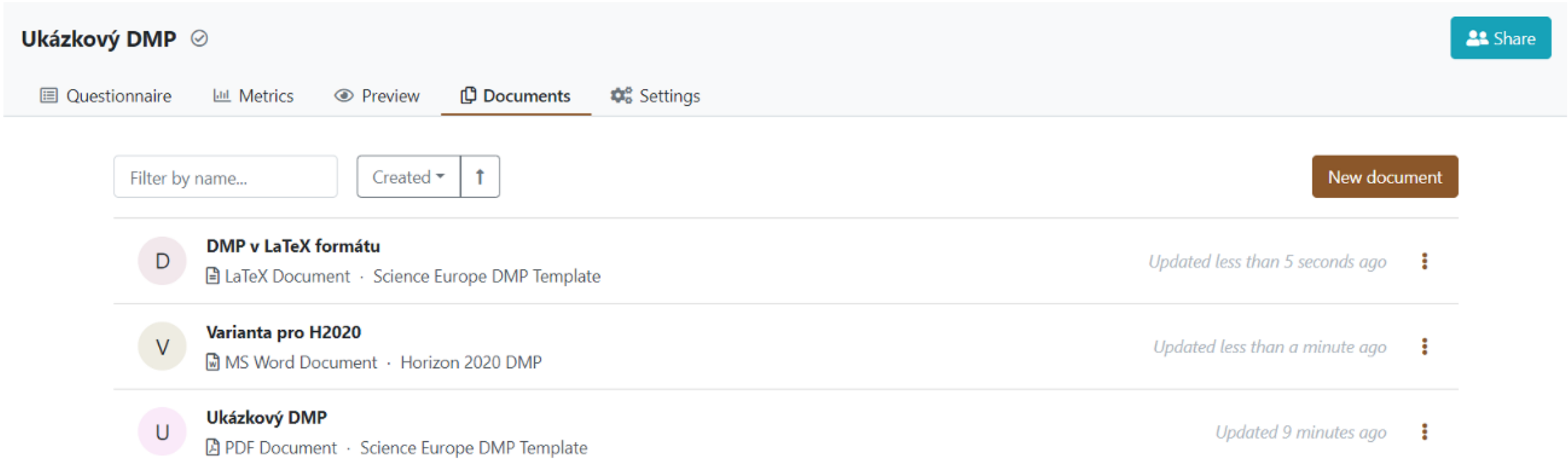
https://zenodo.org/record/2614820

Document template

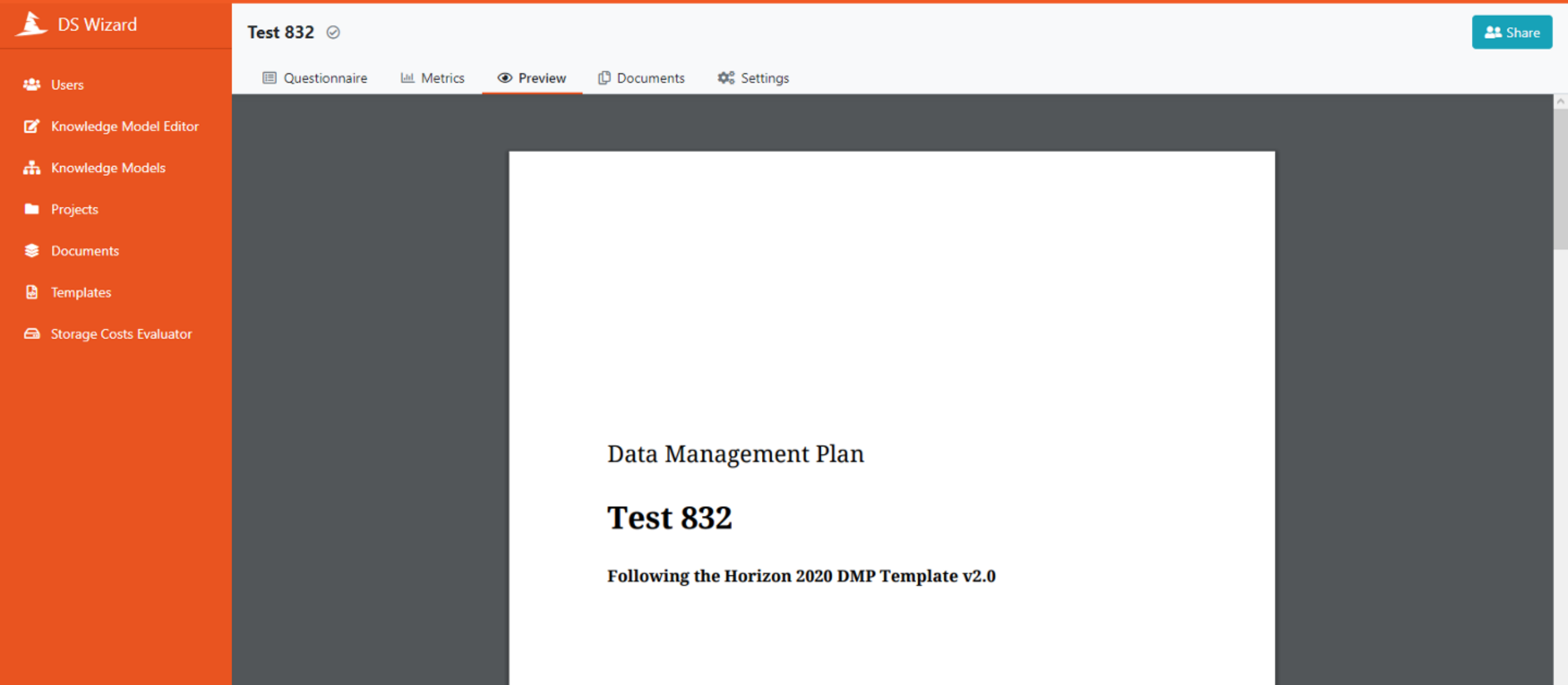
- Horizon 2020
- Science Europe
- maDMP
- Questionnaire Report
- Horizon Europe již brzy!



Dokumenty


Ukázkový DMP
Share
Questionnaire
Metrics
Preview
Documents
Settings
Filter by name...
Created
New document
D
DMP v LaTeX formátu
LaTeX Document · Science Europe DMP Template
Updated less than 5 seconds ago
V
Varianta pro H2020
MS Word Document · Horizon 2020 DMP
Updated less than a minute ago
U
Ukázkový DMP
PDF Document · Science Europe DMP Template
Updated 9 minutes ago

Náhled dokumentu



Tagy

Create Project

Name

Knowledge Model

C **Common DSW Knowledge Model** 2.3.0
DSW Knowledge Model originated from mindmap made by Rob Hooft ×

Tags

☐ Horizon 2020 DMP ☐ Science Europe DMP ☐ maDMP

You can filter questions in the Questionnaire by tags. If no tags are selected, all questions will be used.

Cancel Save

1 **Contributors**

Horizon 2020 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*

1.a.1 **Name**

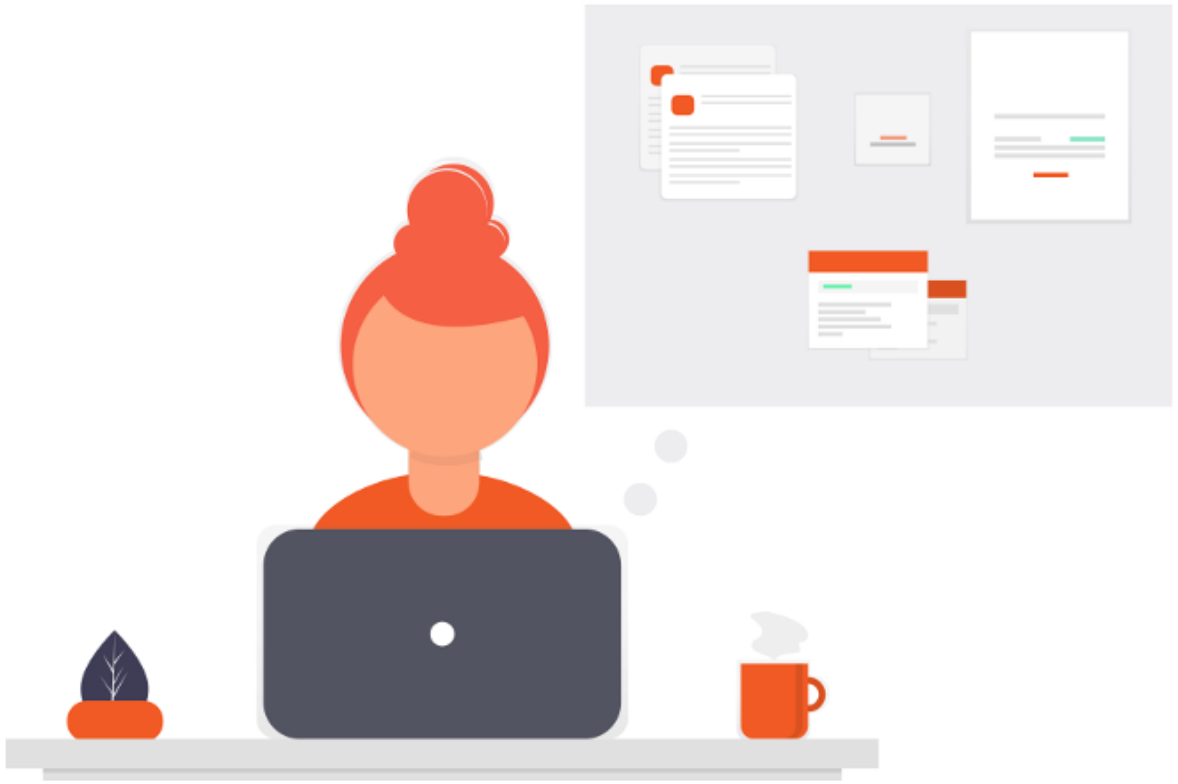
Horizon 2020 DMP Science Europe DMP maDMP

☑ Desirable: *Before Submitting the DMP*

1.a.2 **E-mail address**

Horizon 2020 DMP Science Europe DMP maDMP

Ukázka

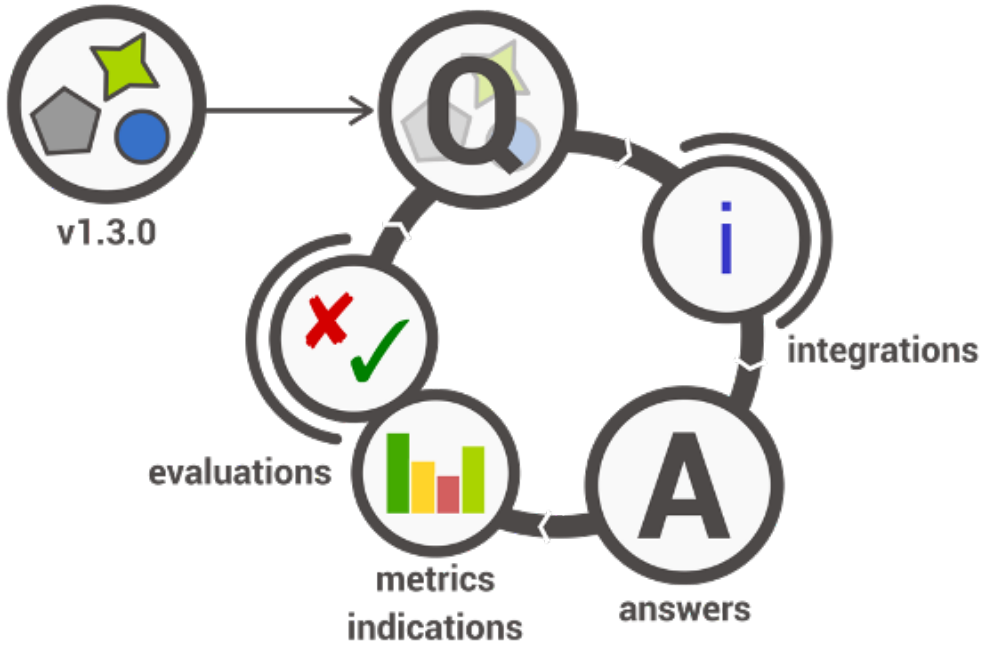


Zjistěte víc

- Webová stránka (ds-wizard.org)
- GitHub (github.com/ds-wizard)
- User Guide (guide.ds-wizard.org)
- Twitter (@dswizard_org)
- Ideas (ideas.ds-wizard.org)
- Slack
- DSW Coffee

Zopakování hlavních myšlenek DSW

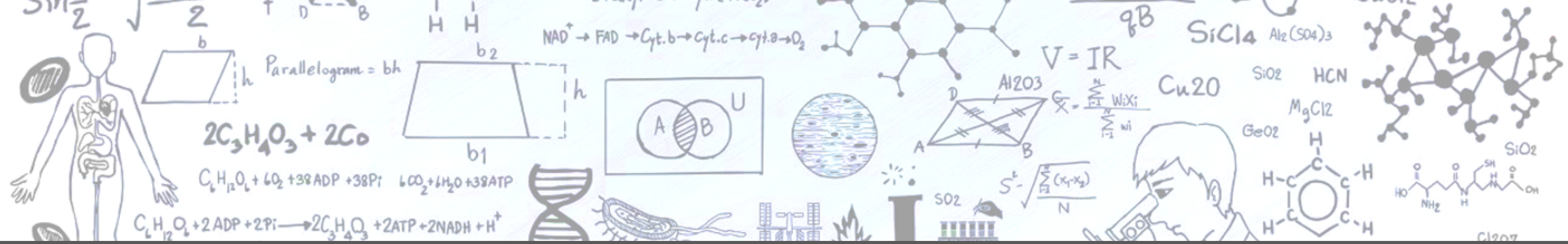
- Minimum psaní = typy otázek, follow-up otázky
- Vedení = odkazy, kniha, FAIR, rady
- Flexibilita = vlastní knowledge modely, šablony, integrace
- Otevřenost = open-source, zdarma
- Orientace na uživatele = ideas, DSW Coffee



Poděkování

The development and operation of DSW is supported by ELIXIR CZ research infrastructure (MŠMT Grant No.: LM2018131).

Otázky a diskuze



DSW

DATA STEWARDSHIP WIZARD

Děkujeme!

info@ds-wizard.org