

ELIXIR-CH Data Stewardship Wizard (DSW)















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ACKNOWLEDGMENTS



Outline

- 1. Data Management Plan tools
 - a. Data Stewardship Wizard (DSW) Overview and Demo
 - b. Data Stewardship Wizard work with your data
 - c. Presentation of user data & discussions

REMINDER

Research Data management (RDM)

Data handling steps during the lifetime of a research project (active phase), but also before (planning) and after (preservation, reuse).

Data management plan (DMP)

Written document describing the process of controlling the information generated during a research project.

IN A NUTSHELL

- Data Management Plan (DMP) tool, but also for Research Data Management (RDM)
- Mind map imagined in 2012 in NL, implemented by ELIXIR-CZ in 2016
- Bring together researchers AND data stewards
- Machine-actionable DMP
- FAIR and other metrics
- Customizable by data stewards (institution-specific)

KEY CONCEPTS



Knowledge model (KM)

Projects (template)

Document (template)

ROLES



ADMIN

- Generic knowledge model(s) (KMs)
- Document templates
- o Users' management

DATA STEWARDS

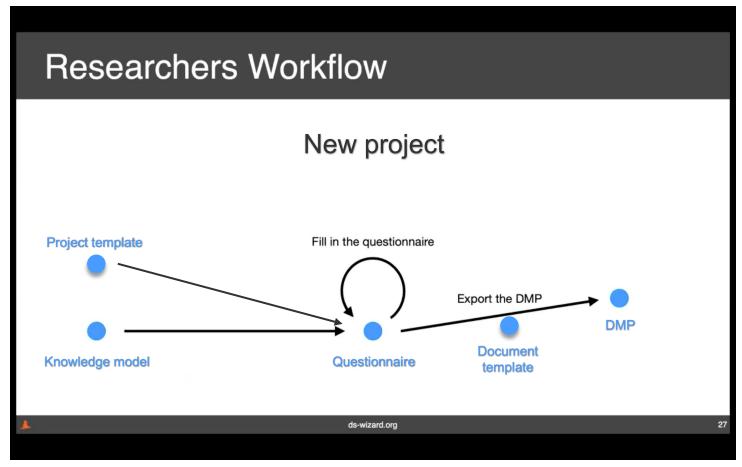
- Edition / customization of KMs
- Project Templates (PTs)
- Help researchers with DMPs

RESEARCHERS

- Create projects (using or not PTs)
- Responsible of DMPs

DMP WORKFLOW



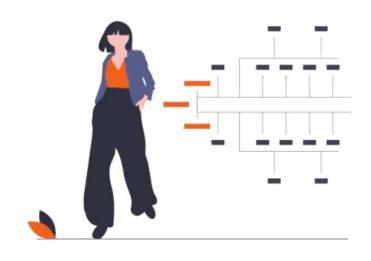


KNOWLEDGE MODEL (KM)



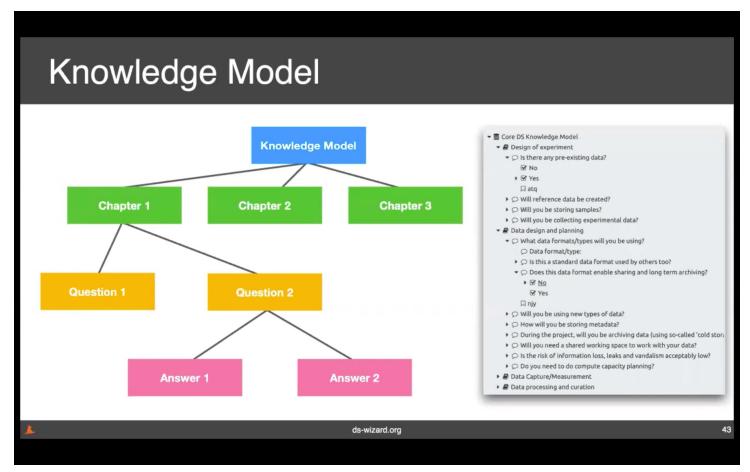
Knowledge Model

- Contains the knowledge about what should be asked and how
- Tree-like structure of Chapters, Questions, Answer and References or Experts
- "Template" for the Questionnaire
- Provided by DSW or institution data stewards



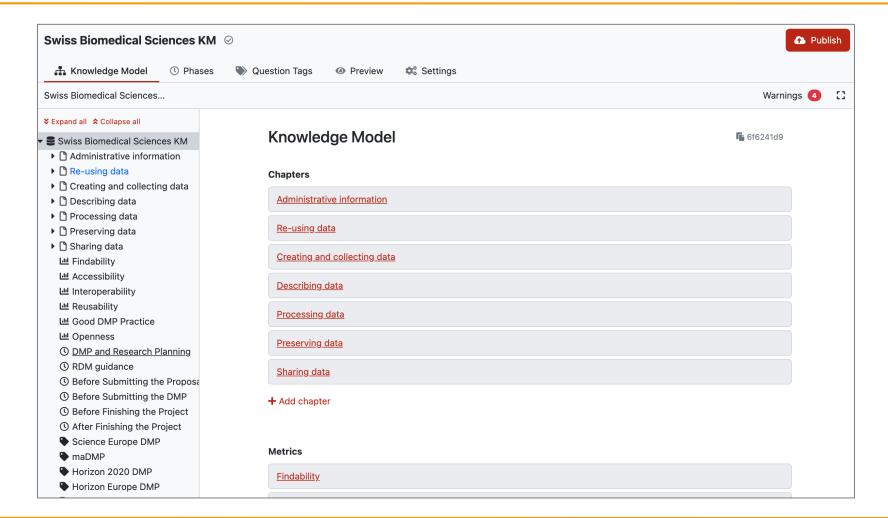
KNOWLEDGE MODEL (KM) - STRUCTURE



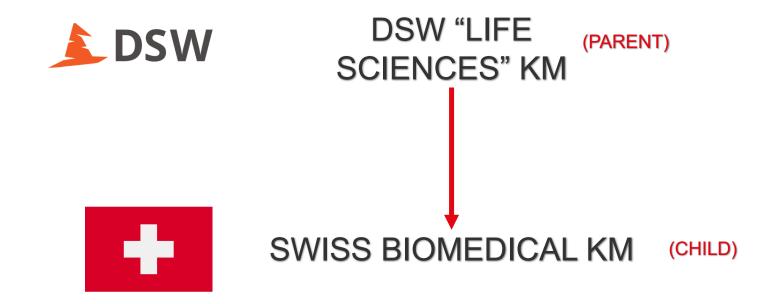


KNOWLEDGE MODEL (KM)





KNOWLEDGE MODEL (KM) - PARENT / CHILD

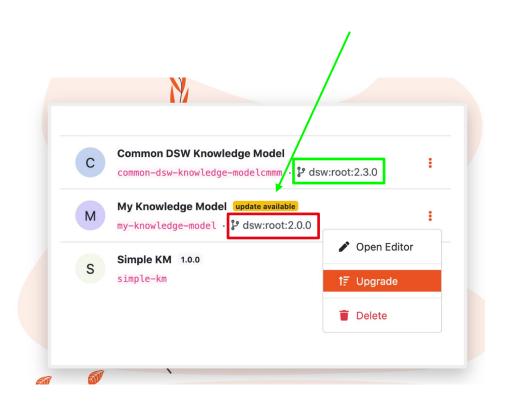


KNOWLEDGE MODEL (KM) – SYNCHRO UPDATES



Evolvability

It is a common practice that Knowledge Models have to change sometimes. When a parent Knowledge Model has a new version, its customizations have the option to upgrade so all the Knowledge Models can still be up to date. There is also a very similar process for Questionnaires when their Knowledge Model changes.



PROJECTS



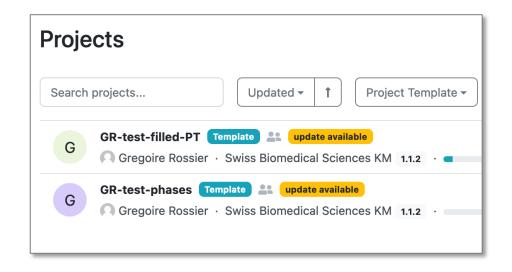
Create Project

From Project Template	Custom		
Name			
Knowledge Model			
Cancel		Create	

PROJECT TEMPLATES

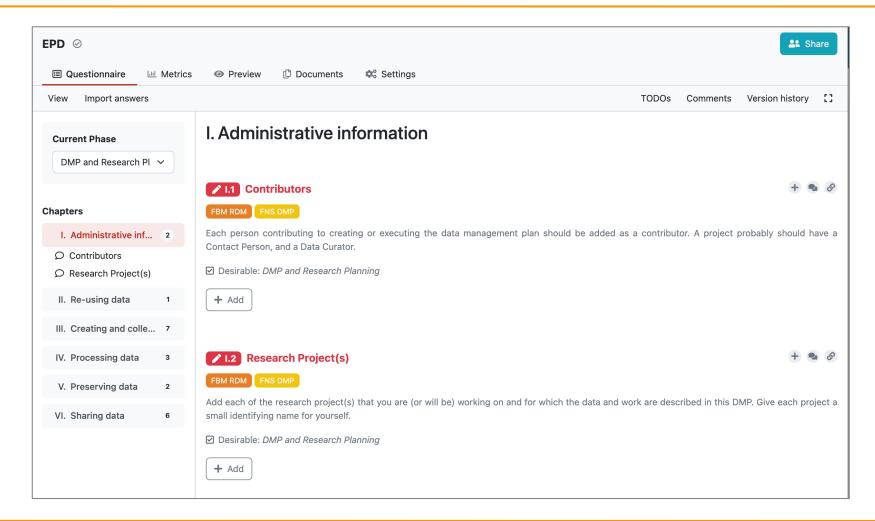


- Selected KM
- Pre-filled answers
- By Data Stewards



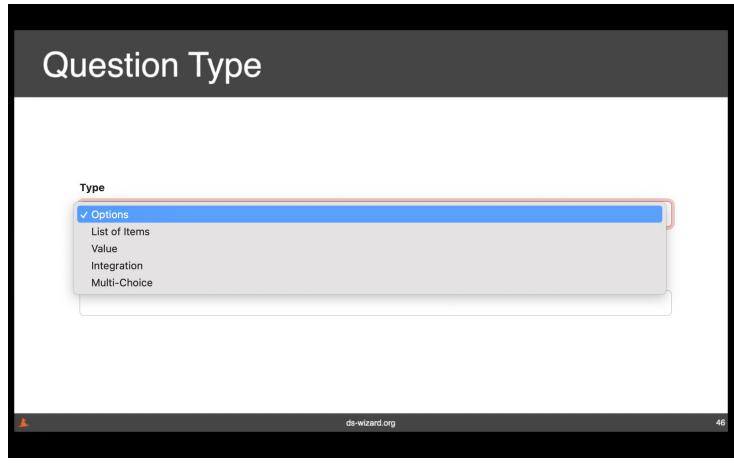
QUESTIONNAIRE





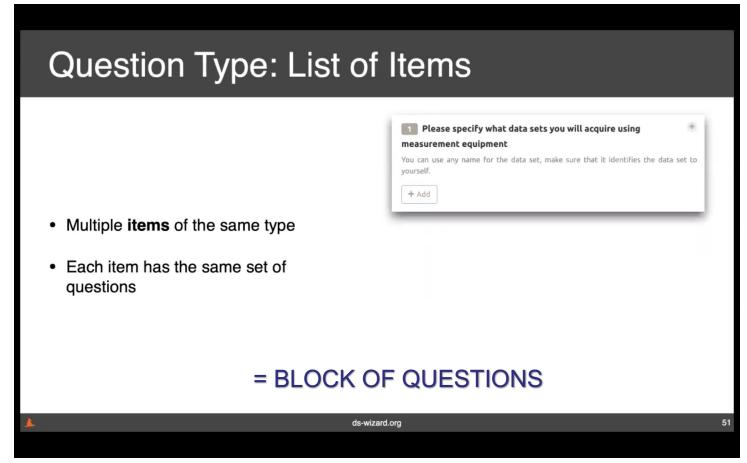
QUESTION TYPES





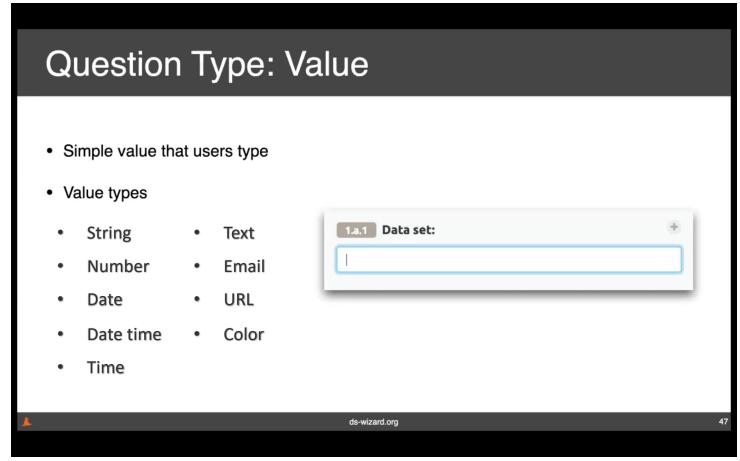
QUESTION TYPE: LIST OF ITEMS





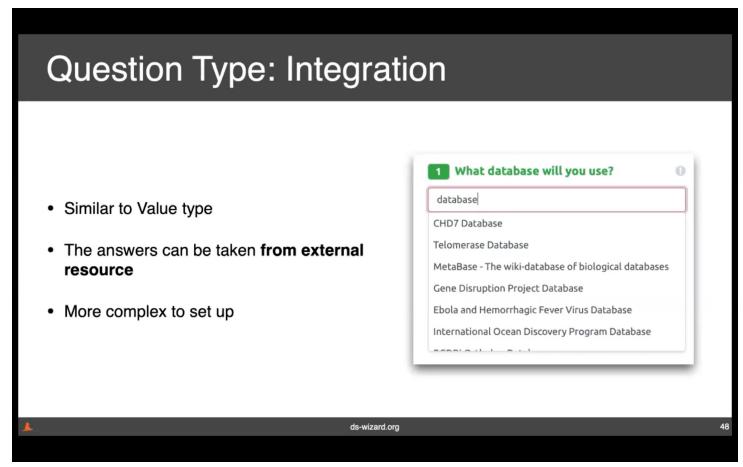
QUESTION TYPE: VALUE



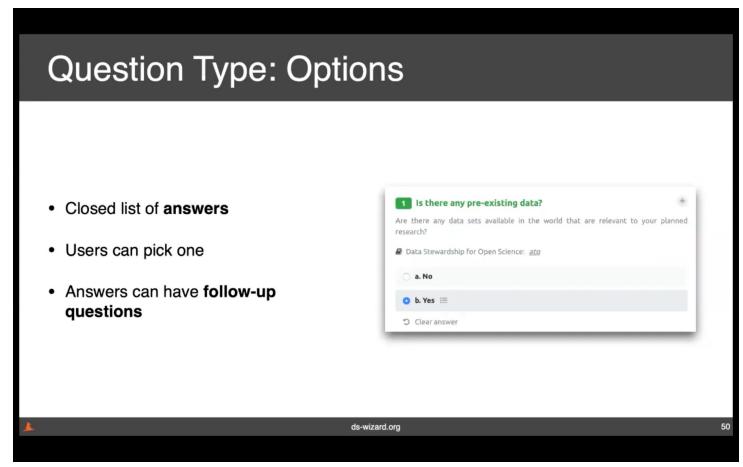


QUESTION TYPE: INTEGRATION

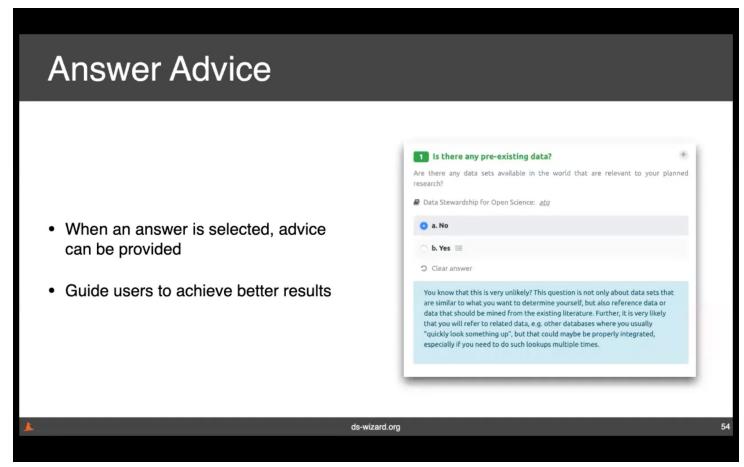




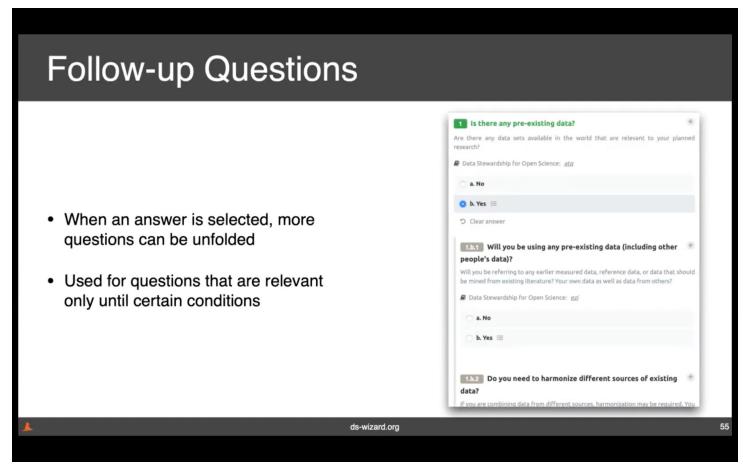




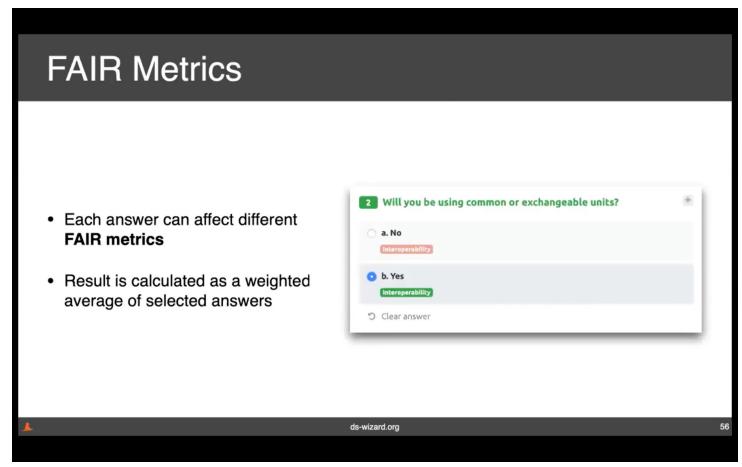










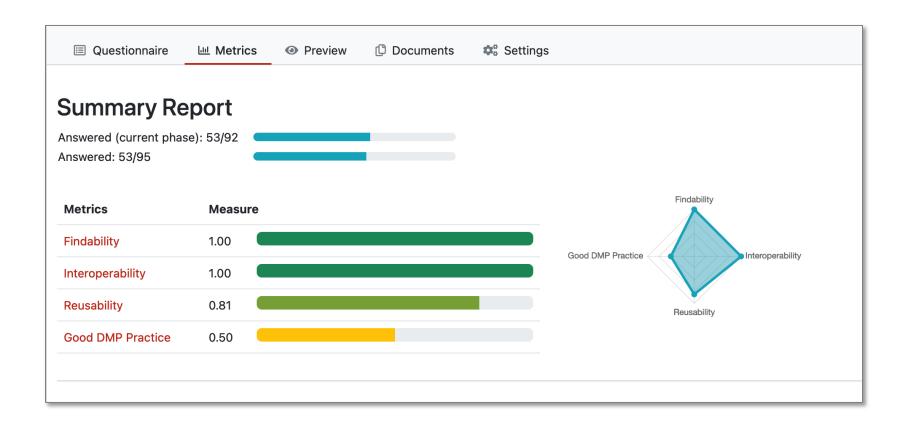






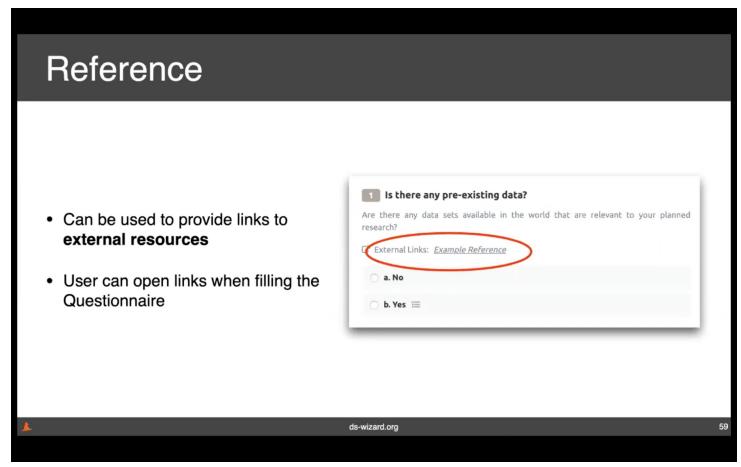
METRICS





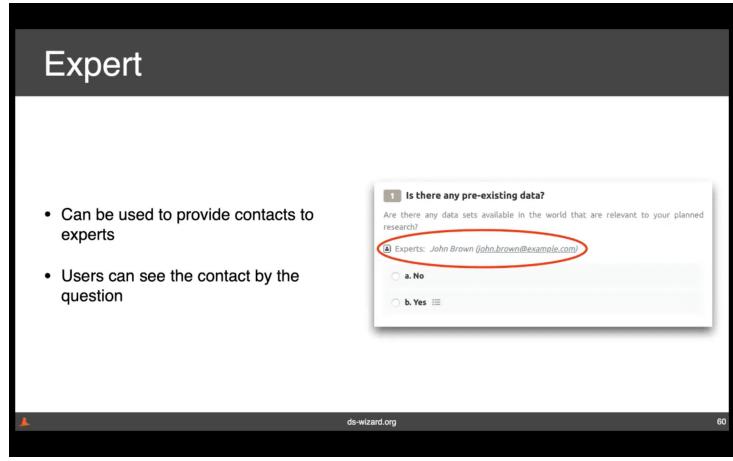
EXTERNAL RESOURCES





EXTERNAL RESOURCES



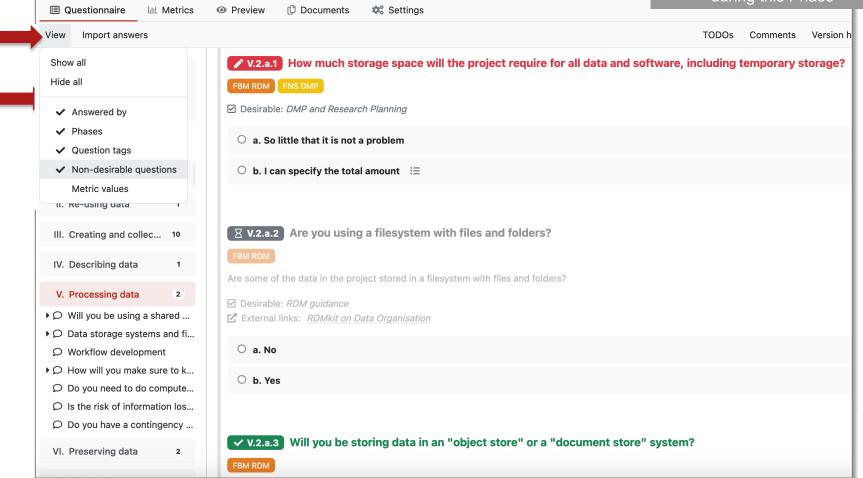


PROJECT PHASES

Red = answer during this Phase

Green = fully answered

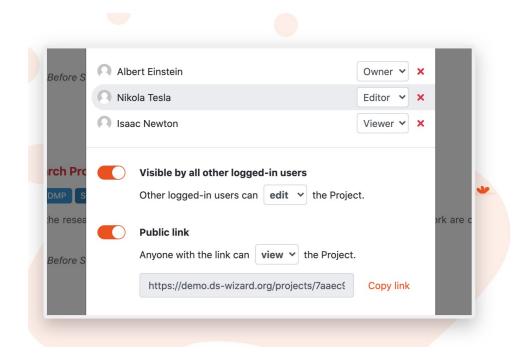
Grey = no need to answer during this Phase





SHARING & ACCESS





Project Sharing & User Access

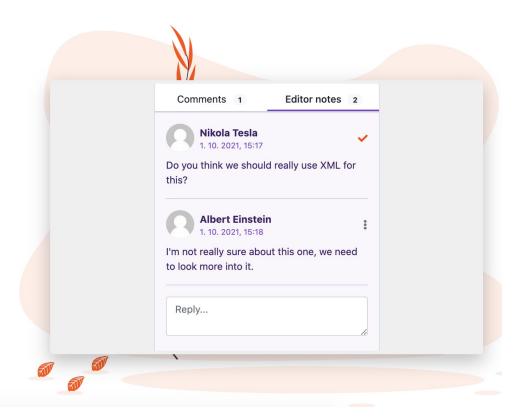
Share your Projects with your colleagues whether they have a DSW user account or not. Furthermore, you can set their **access rights** as well and let them just view, edit or even own the Project.

REVIEWING



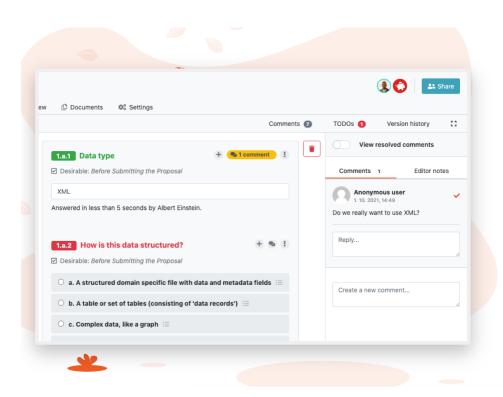
Comments & Editor Notes

Get feedback and discuss your project. You can share it in **comment mode** for a review or write **editor notes** visible only to the project editors.



COLLABORATION





Online Collaboration

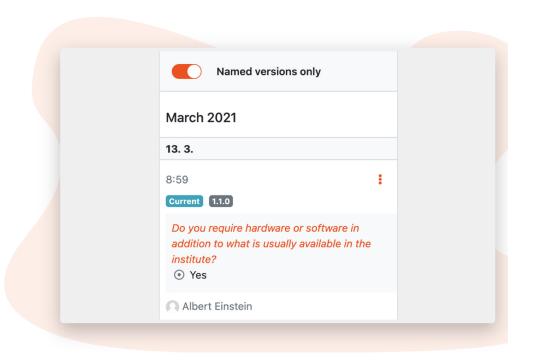
You can **collaborate online in real-time** on your data management plans with other users or anyone who you send the link to. Just like you would expect it in a cutting-edge online platform.

HISTORY



Version History

Every change you make in your project is saved. You can browse the history, watch who makes changes and when, and create a version for your project's specific state.

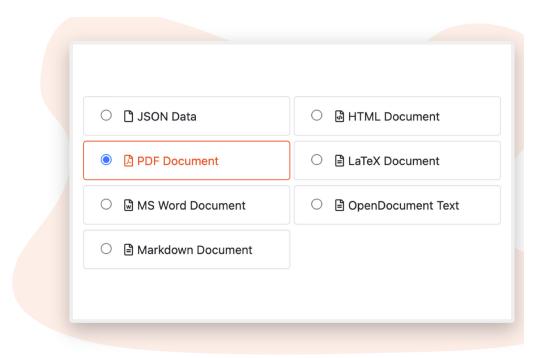


EXPORT FOR DMP



File Formats

Each template can specify the number of formats that can be used for export. For example, the Questionnaire Report, as well as Horizon 2020 and Science Europe templates, can be exported as HTML, a Word document, LaTeX, Markdown, an OpenDocument, or a PDF. Similarly, the Machine-Actionable DMP can be exported into JSON but also into various RDF formats such as RDF/XML, Turtle, TRiG, or JSON-LD.



DOCUMENT TEMPLATES

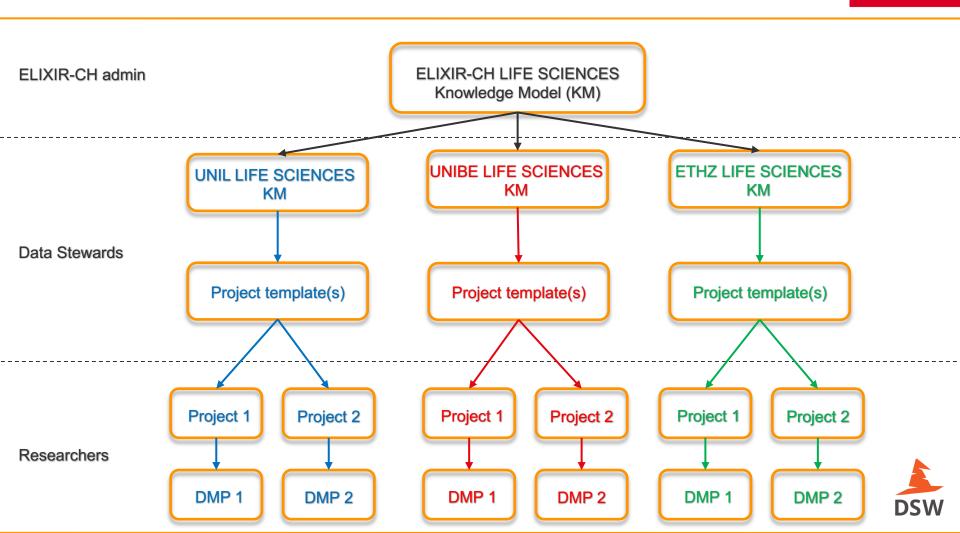


- Questionnaire -> document
- Several output formats

```
test2-Questionnaire Report-recup
                                                                                                                                      Publish
 Files Preview Settings
                                            default.html.j2
                             default.css
                                 <!DOCTYPE HTML>
test2-Questionnaire Report-recup
                                 {# VARIABLES
    default.css
                                 {# ----
    default.html.j2
                                 {%- set dc = ctx|to_context_obj -%}
    default.md.j2
                                 {# TAGS, REFERENCES, and EXPERTS MACROS
    default.tex.j2
    for-word.html.j2
                              9 {%- macro renderResourcePageReferences(guestion) -%}
    ↑ reference.docx
                             10 {% set refs = question.resource_page_references %}
                             11 {% if refs|length > 0 %}
                                     <div class="references references-resourcepage">
                                       <svg aria-hidden="true" data-prefix="fas" data-icon="book" role="img" xmlns="http://www.w3.org/2000/svg" vie</pre>
                             14
                                       <span><b>Data Stewardship for Open Science:</b></span>
                             15
                                       {% for reference in refs %}
                             16
                                         <a id="{{reference.uuid}}" class="reference resourcepage-link" href="{{ reference.url }}" target="_blank">
                             17
                             18
                                     </div>
                                   {% endif %}
                             19
                             20 {%- endmacro -%}
                             21 {%- macro renderURLReferences(question) -%}
                                   {% set refs = question.url_references %}
                                   {% if refs|length > 0 %}
                                     <div class="references references-url" >
                                       <svg aria-hidden="true" data-prefix="far" data-icon="external-link" role="img" xmlns="http://www.w3.org/2000</pre>
                                       <br/>d>External Links:</b>
                             28
                                         <a id="{{reference.uuid}}" class="reference url-link" href="{{reference.url}}" target="_blank"><i>{{reference.url}}"
                             29
                                       {% endfor %}
                             30
                                     </div>
                             31
                                   {% endif %}
                                 {%- endmacro -%}
                                 {%- macro renderExperts(question) -%}
                                   {% if question.experts|length > 0 %}
                                     <div class="experts">
```

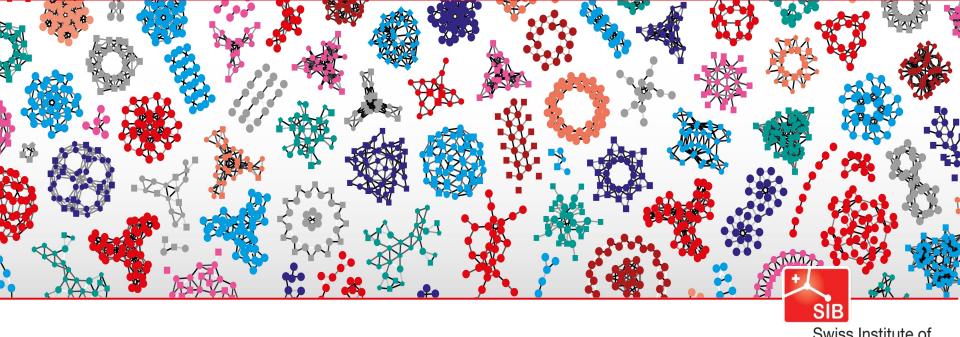
PLANNED WORKFLOW FOR LIFE SCIENCES





DEMO





Swiss Institute of Bioinformatics

Thank you!

