

#10 SWISS repositories

(SWISSUbase – Taking Quality to the Next Level)

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Benefits

- An overview of all repositories with their maturity level that will help researchers to find the best repository for their needs
- Receive feedback from researchers what are the most important points for deciding for or against a repository
- Help repositories to see where they stand in comparison to the expectations from the research community and in which direction to further develop
- Make the process of evaluation of repositories more transparent to the research community

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How it started...

A	B	C	D	E
Category	Questions	Answers	Maturity Level per category	
1 Data protection measures	Data stored on Swiss servers	Partly		
2	Adequate data protection measures	No		
3	Access limited to research community	No		
4	User contracts	No		
5	Possibility for restricted access? (e.g., with permission only, or only for research and not for teaching?)	Yes		
6				
7 Findability	Online catalogue	Yes		
8	Advanced search	Rather not		
9	Multilingual metadata	No		
10	Rich metadata	No		
11	Disciplinary metadata schemas	No		
12	Project information	No		
13	Provides data citations	No		
14	Integration of controlled vocabularies	Yes		
15	Provides persistent identifiers (e.g., DOIs)	Yes		
16	DOI versioning	Yes		
17 Accessibility	System availability (monitoring)			
18	Accreditation and authentication system (need to login or not?)	No		
19	Authentication AAI/Switch edu-ID	No		
20	Free use (by end-users)	Yes		
21	User contracts	No		
22	Possibility for restricted access? (e.g., with permission only, or only for research and not for teaching?)	Yes		
23	Non-commercial	Yes		
24 Interoperability	Disciplinary metadata schemas	No		
25	Interoperable	Yes		
26	Integration of controlled vocabularies	Yes		
27	Integration with EU infrastructure	Yes		
28	Open API (technical means to make different systems connect)	Yes		
29	API documentation	Yes		
30	Other integrations (of other tools and services)	No		
31 Reuse	Allows for replication materials	Yes		
32	Reserve DOI	Yes		
33	Quality control (of data and documentation)	No		
34	Quality control (curated platform)	Yes		
35	Access to reviewers before data publication	Yes		

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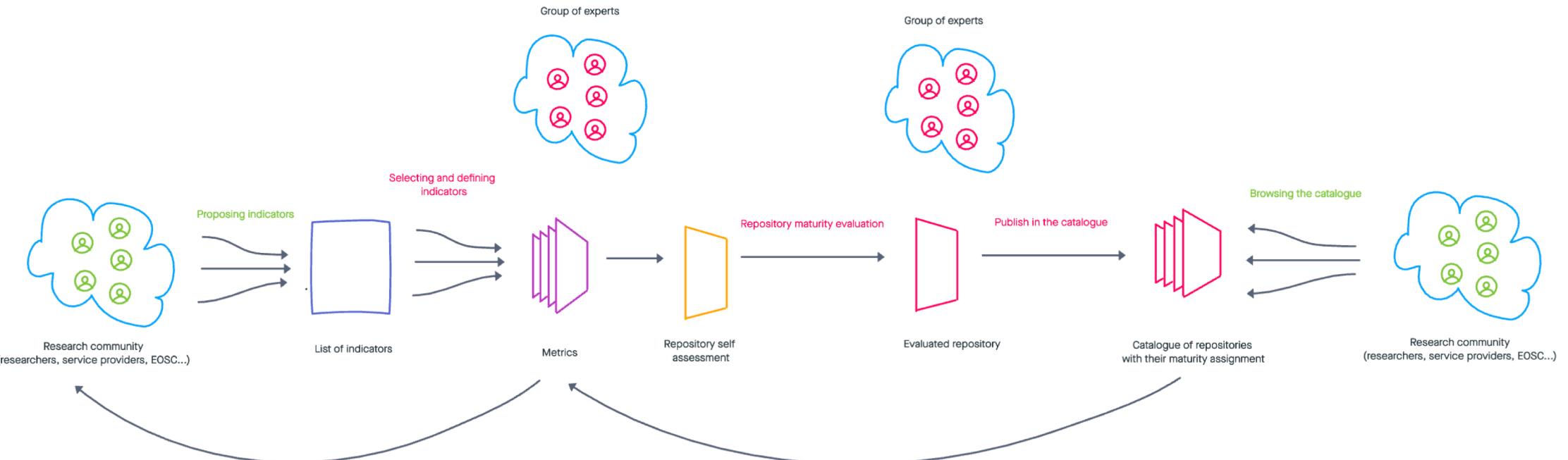


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Workflow

Workflow



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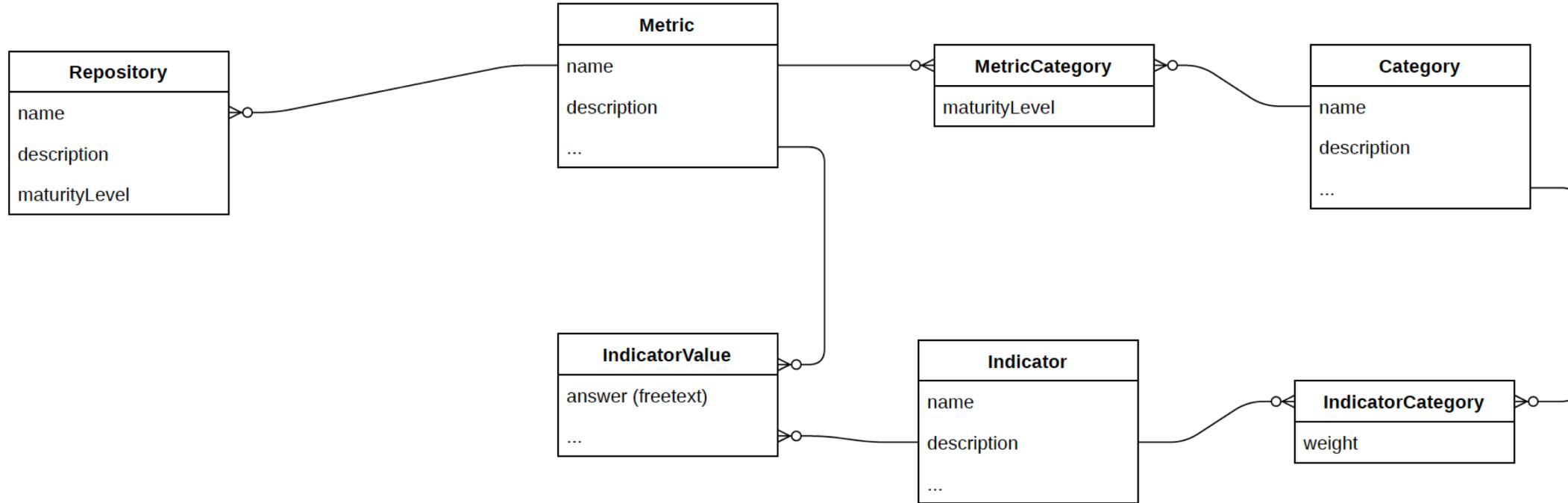
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Data model



Metrics

A	B	C
indicatorID	indicatorName	categoryID
1	1 Data stored on Swiss servers	1
2	2 Adequate data protection measures	1
3	3 Access limited to research community	1
4	4 User contracts	1
5	5 Possibility for restricted access	1
6	6 Online catalogue	2
7	7 Advanced search	2
8	8 Multilingual metadata	2
9	9 Rich metadata	2
10	10 Disciplinary metadata schemas	2
11	11 Project information	2
12	12 Provides data citations	2
13	13 Integration of controlled vocabularies	2
14	14 Provides persistent identifiers	2
15	15 DOI versioning	2
16	16 System availability (monitoring)	3
17	17 Accreditation and authentication system	3
18	18 Authentication AAI/Switch edu-ID	3
19	19 Free use (by end-users)	3
20	20 User contracts	3
21	21 Possibility for restricted access	3
22	22 Non-commercial	3
23	23 Disciplinary metadata schemas	4
24	24 Interoperable	4
25	25 Integration of controlled vocabularies	4
26	26 Integration with EU infrastructure	4
27	27 Open API (technical means to make different systems connect)	4
28	28 API documentation	4
29	29 Other integrations (of other tools and services)	4

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Mockups: Catalogue

The screenshot shows a web-based catalogue interface with a header containing 'Logotype', 'Catalogue' (highlighted in red), 'Metrics', 'Self assessment', and 'Maturity evaluation'. Below the header, there are two repository entries:

- Repo 1**:
 - Research discipline(s): Social sciences, Linguistics, Humanities
 - Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images
 - Description: Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.
- Repo 2**:
 - Research discipline(s): Social sciences, Linguistics, Humanities
 - Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images
 - Description: Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

An arrow points from the green four-star rating next to 'Repo 1' to a legend titled 'Maturity indicators' located on the right side of the screen. The legend uses colored stars to represent different levels of maturity:

Maturity indicators	
★★★★	Excellent
★★★☆	Adequate
★☆☆☆	Basic
☆☆☆☆	Inadequate

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Mockups: Metrics – Categories

The mockups illustrate the workflow for managing categories within a metric. The main screen shows a list of categories with columns for ID, Name, and Description. Red arrows point from specific UI elements to detailed view, edit, and delete模版.

Main Screen: Shows a list of categories (Data protection measures, Findability, Accessibility, Interoperability, Reusability, Preservation, Sustainability, Services, Compliance, Researcher's issues) with columns for ID, Name, and Description. A red arrow points from the "Add category" button to the "Add category"模版.

Add category: A modal window for adding a new category. It has fields for Name (Data discovery) and Description (Text area). It includes CANCEL and SAVE buttons.

Edit category: A modal window for editing an existing category. It has fields for Name (Interoperability) and Description (Lorem ipsum dolor sit.). It includes CANCEL and SAVE buttons.

Delete category: A confirmation modal window asking "Are you sure you want to delete?" with NO and YES buttons.

Mockups: Metrics – Indicators

The screenshot illustrates a user interface for managing indicators within a metric. The main view shows a list of indicators categorized by metric. Each indicator entry includes its ID, name, category, a detailed description, and a weight setting. The weight is represented by a small icon with arrows pointing up or down, indicating a range from lowest to highest. Below the list, there are buttons for adding new indicators and editing existing ones. Three additional windows are displayed: one for creating a new indicator, one for editing an existing indicator's details, and one for confirming the deletion of an indicator. Red arrows highlight the 'Edit' and 'Delete' buttons in the main list, linking them to their respective modal forms.

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Mockups: Metrics – Metric 1

The screenshot shows a web interface for managing metrics. At the top, there's a header with a logo, a search bar containing 'website.com', and navigation links for 'Catalogue', 'Metrics' (which is highlighted in red), 'Self assessment', and 'Maturity evaluation'. Below the header, the title 'Metric 1' is displayed in a pink box, with a breadcrumb trail 'Metrics > Metric 1' underneath. The main content area is divided into two columns: 'Categories' on the left and 'Indicators' on the right.

Categories:

- Data protection measures
- Findability** (highlighted in pink)
- Findability
- Accessibility
- Interoperability
- Reusability
- Sustainability
- Services
- Compliance
- Researcher's issues

Indicators:

ID	Name	Description
1	Data protection measures	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in all...
2	Disciplinary metadata schemas	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra.
3	Provides data citations	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed...
4	Authentication AAI/Switch edu-ID	Lorem ipsum dolor sit.
5	Non-commercial	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in ...
6	API documentation	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris.
7	Reserve DOI	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore.
8	Quality control (of data and documentation)	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in aliquam ...
9	OAIS-compliant	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc sdu.
10	Embargo	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.

At the bottom right of the indicator table, there are buttons for 'Results per page:' (set to 10), '1 - 10 of 24', and navigation arrows (< >).

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Mockups: Self assessment – Step 1

The screenshot shows a web browser window with the URL 'websites.com'. The title bar says 'Logotype'. The top navigation menu includes 'Catalogue', 'Metrics', 'Self assessment' (which is highlighted in red), and 'Maturity evaluation'. Below the menu, the page title is 'Repository assessment'. A horizontal progress bar at the top indicates five steps: 'Repository info' (step 1), 'Category 1' (step 2), 'Category 2' (step 3), 'Category 5' (step 4), and 'Category 10' (step 5). The main form area contains fields for 'Name' (filled with 'SWISSUBase'), 'Description' (containing placeholder text 'Lorem ipsum dolor sit.'), 'Research discipline(s)' (with categories like 'Humanities and Social Sciences', 'Social and Behavioural Sciences', and 'Psychology' listed), and 'Content type(s)' (with categories like 'Type1', 'Type 22', 'Type X', and 'Type3' listed). At the bottom right are 'CANCEL' and 'NEXT' buttons.

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Mockups: Self assessment – Step 2

The mockup shows a web browser window with the URL 'website.com'. The navigation bar includes 'Logotype', 'Catalogue', 'Metrics', 'Self assessment' (which is highlighted in red), and 'Maturity evaluation'. The main content area is titled 'Repository assessment' and displays a horizontal progress bar with five numbered circles: 1 (Repository info), 2 (Category 1), 3 (Category 2), 4 (Category 5), and 5 (Category 10). Below this, a section titled 'Category 2' contains four indicator boxes: 'Indicator 1' (Lorem ipsum dolor sit.), 'Indicator 18' (empty), 'Indicator 5' (empty), and 'Indicator 7' (empty). To the right of 'Indicator 1' is a tooltip for 'Indicator description' containing placeholder text. Navigation buttons 'PREVIOUS' and 'NEXT' are at the bottom.

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Mockups: Self assessment – Final step

The mockup shows a web browser window with the URL 'website.com'. The navigation bar includes 'Logotype', 'Catalogue', 'Metrics', 'Self assessment' (which is highlighted in red), and 'Maturity evaluation'. The main content area is titled 'Repository assessment' in red. Below it is a horizontal progress bar with five numbered circles (1 to 5) connected by lines, labeled 'Repository info', 'Category 1', 'Category 2', 'Category 5', and 'Category 10'. A red label 'Category 10' is positioned above a large rectangular input field containing four smaller input fields for 'Indicator 9', 'Indicator 99', 'Indicator 5', and 'Indicator 78'. Each small input field has a small circular icon with a question mark to its right. At the bottom are 'PREVIOUS' and 'SUBMIT' buttons.

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Mockups: Maturity evaluation

The screenshot shows a web browser window titled 'website.com' with a navigation bar including 'Logotype', 'Catalogue', 'Metrics', 'Self assessment', and 'Maturity evaluation'. The 'Maturity evaluation' tab is active. The main content area is titled 'Maturity evaluation' and contains a table titled 'All assessed repositories'. The table has columns for 'Id', 'Name', and 'Description'. Each row contains a green checkmark icon in the last column. At the bottom of the table, there is a pagination control labeled 'Results per page: 10 1 - 10 of 15 < >'.

Id	Name	Description
1	Repo 1	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in aliquam sem fringilla. Enim nec dui nunc mattis enim ut tellus.
2	Repo 2	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra.
3	Repo 3	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed.
4	Repo 4	Lorem ipsum dolor sit.
5	Repo 5	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in aliquam sem fringilla. Enim nec dui nunc mattis enim ut tellus.
6	Repo 6	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris.
7	Repo 7	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore.
8	Repo 8	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in aliquam sem fringilla. Enim nec dui nunc.
9	Repo 9	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Cursus eget nunc scelerisque viverra mauris in aliquam sem fringilla. Enim nec dui.
10	Repo 10	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor.

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Mockups: Maturity evaluation – Step 1

The mockup displays a web browser window with the URL 'websis.com'. The page title is 'Logotype' and the active tab is 'Maturity evaluation'. The main content area shows 'Repo 4' with the following details:

- Research discipline(s): Social sciences, Linguistics, Humanities
- Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images
- Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

Below this, a horizontal navigation bar shows steps 1 through 5: Category 1, Category 2, Category 5, Category 10, and Repository. Step 2 is highlighted with a red border. A dropdown menu for 'Category maturity' is open, showing 'Basic'. The main content area also lists several indicators:

- Indicator 1: Description placeholder text.
- Indicator 18: Description placeholder text.
- Indicator 5: Description placeholder text.
- Indicator 7: Description placeholder text.

A modal window titled 'Indicator description' is open over the indicator 5 section, containing the same placeholder text as the other indicators.

At the bottom right of the page are 'CANCEL' and 'NEXT' buttons.

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Mockups: Maturity evaluation – Step 5

Maturity evaluation > Repo4

Repo 4

Research discipline(s): Social sciences, Linguistics, Humanities
Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images

Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

Category 1 Category 2 Category 5 Category 10 Repository

Category 10

Category maturity: Excellent

Indicator 55

Indicator 3

Indicator 18

Indicator 21

Indicator description

PREVIOUS NEXT

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Mockups: Maturity evaluation – Final step

The screenshot shows a web browser window titled 'Maturity evaluation' on the 'websis.com' website. The top navigation bar includes links for 'Logotype', 'Catalogue', 'Metrics', 'Self assessment', and 'Maturity evaluation'. The main content area displays 'Repo 4' with the following details:

- Research discipline(s):** Social sciences, Linguistics, Humanities
- Content type(s):** Archived data, Scientific and statistical data formats, Raw data, Structured text, Images
- Description:** Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

Below this, a horizontal navigation bar shows five categories: Category 1 (1), Category 2 (2), Category 5 (3), Category 10 (4), and Repository (5).

The 'Repository' section contains a dropdown menu set to 'Adequate'.

A table summarizes the maturity levels across different categories:

Category	Maturity Rating	Level
Category 1	★ ★ ★ ★	Basic
Category 2	★ ★ ★ ★	Adequate
Category 5	★ ★ ★ ★	Basic
Category 10	★ ★ ★ ★	Excellent

At the bottom right of the page are 'PREVIOUS' and 'SAVE' buttons.

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Demo

Repository catalogue - Mozilla Firefox

Outils Aide

Repo X

django objects to list

P-5 SMT FB FORS IT Wordpress SSHOC Docs Awesome Python Slack | it-group | FORS Zoom Bojana

R Swiss repositories Catalogue Metrics Self assessment Maturity evaluation

Swissubase

Research discipline(s): Social sciences, Linguistics, Humanities
Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images

Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

★★★★★

Zenodo

Research discipline(s): Social sciences, Linguistics, Humanities
Content type(s): Archived data, Scientific and statistical data formats, Raw data, Structured text, Images

Online platform that enables you to access data and obtain information about social science studies in Switzerland. You can register your own research projects, as well as store and share your own data.

★★

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Findings

- Discipline specific metrics
- Compliance with the EOSC
 - recently published recommendations of the European Open Science Cloud ([\[EOSC\]](#)(<https://www.eosc-portal.eu/about/eosc>)):
 - Recommendations on certifying services required to enable FAIR within EOSC (<https://doi.org/10.2777/127253>)
 - Recommendations on FAIR metrics for EOSC Data service professionals (<https://doi.org/10.2777/70791>)
- Group of experts

Future...

- Finish the implementation of the prototype
- Finalise list of indicators, compliant with the EOSC
- Finalise the documentation
- Approach The Open Science Delegation (DeLOS)

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More...

<https://github.com/ORD-Hackathon/hackathon-2021/tree/swiss-repositories>



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