

Using EVOKS to build controlled vocabularies

Gulzaure Abdildina, Felix Ernst, Rossella Aversa, Philipp Ost

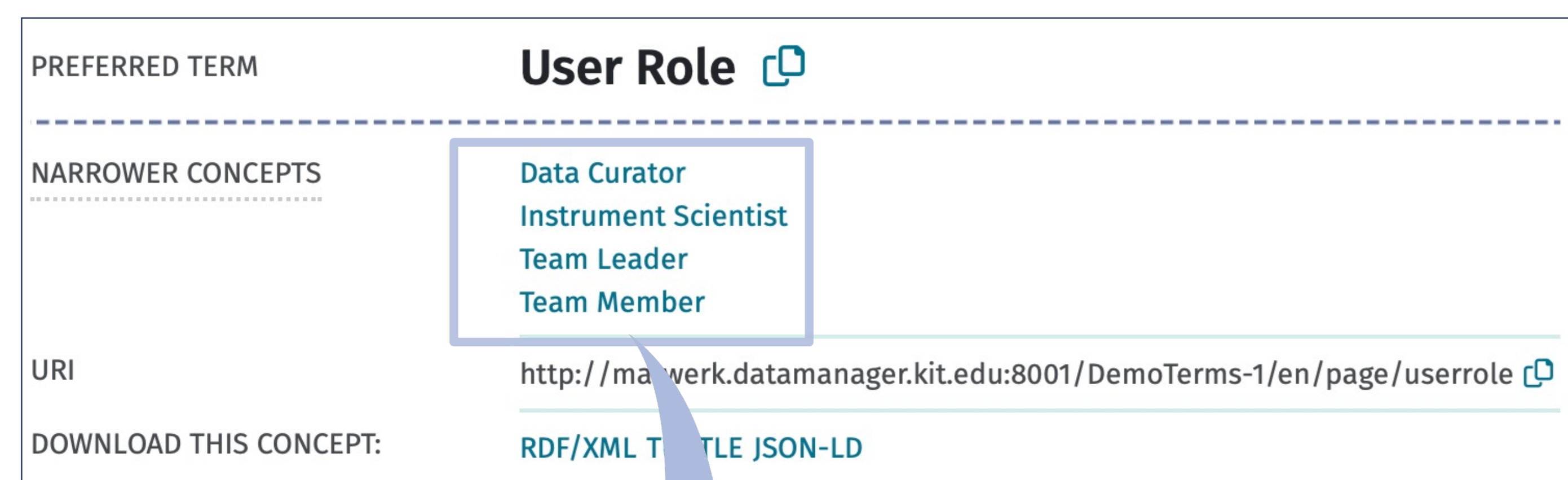
Controlled vocabularies play a vital role in describing knowledge within a specific domain. They not only eliminate data ambiguity but also serve as a reference for term definitions, foster semantic interoperability, and facilitate seamless integration with ontologies.

EVOKS, the **Editor for Vocabularies to Know Semantics**, is a general-purpose vocabulary service that allows for **easy creation, import, editing, curation and publishing of vocabularies**. Publishing the vocabulary using SKOSMOS (www.skosmos.org) requires just **a single click**.

To illustrate the usability of EVOKS, we established the **MatWerk Acronyms Vocabulary**. EVOKS allows users to work collaboratively with other contributors and iterate on the vocabulary creation process. This includes editing and publishing of revised versions.

Use case: Terms in a Metadata Schema using Metadata Editor

Integrating vocabularies into the Metadata Editor eases the use of controlled vocabularies that adhere to FAIR principles, linking terms in a schema through URIs instead of hard-coding them, and enabling the automatic propagation of any changes made within the vocabulary.



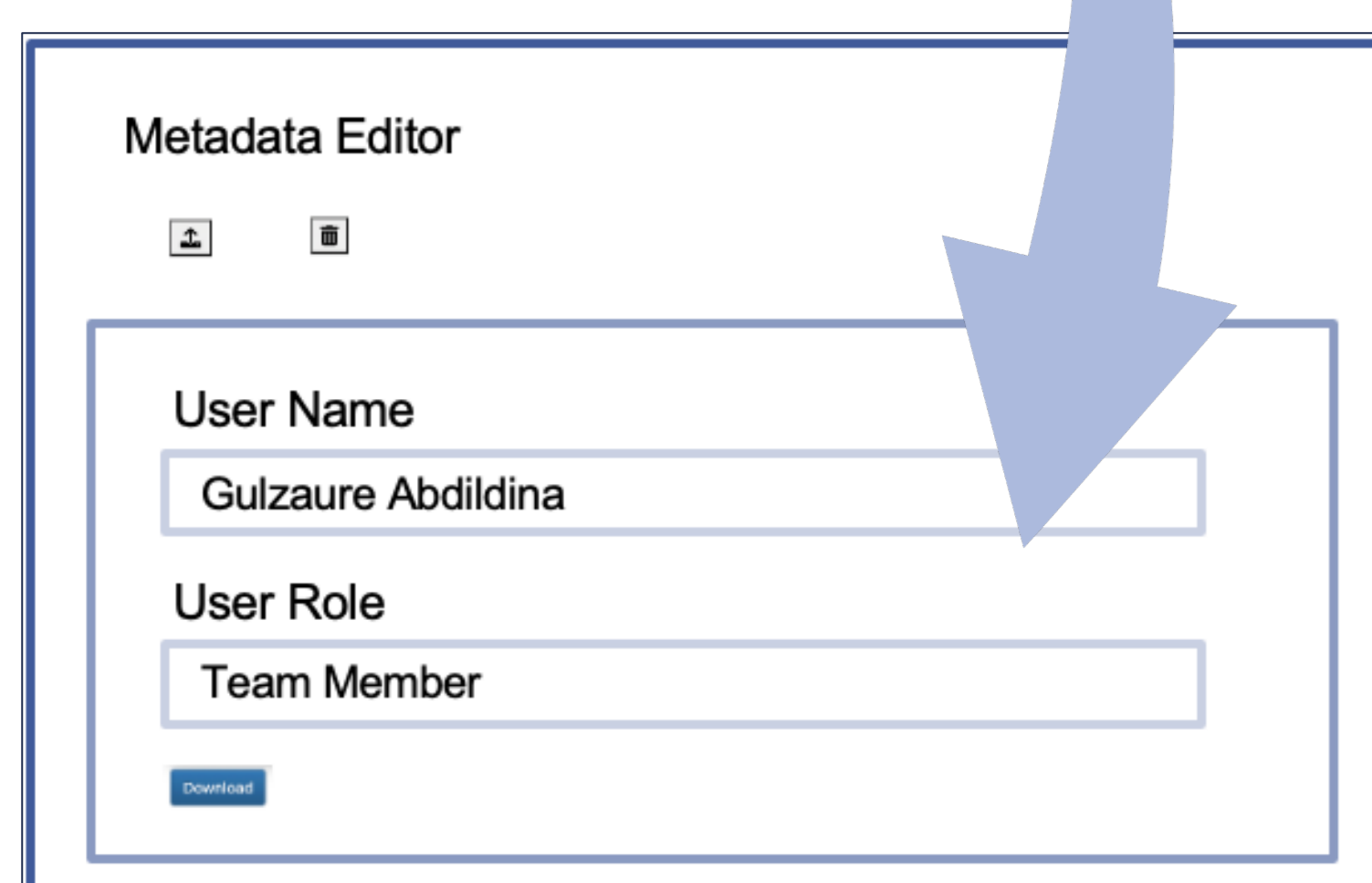
PREFERRED TERM: **User Role**

NARROWER CONCEPTS: Data Curator, Instrument Scientist, Team Leader, Team Member

URI: <http://matwerk.datamanager.kit.edu:8001/DemoTerms-1/en/page/userrole>

DOWNLOAD THIS CONCEPT: RDF/XML Turtle, JSON-LD

<https://github.com/kat-data-manager/Metadata-Schemas-for-Materials-Science/tree/evoks>

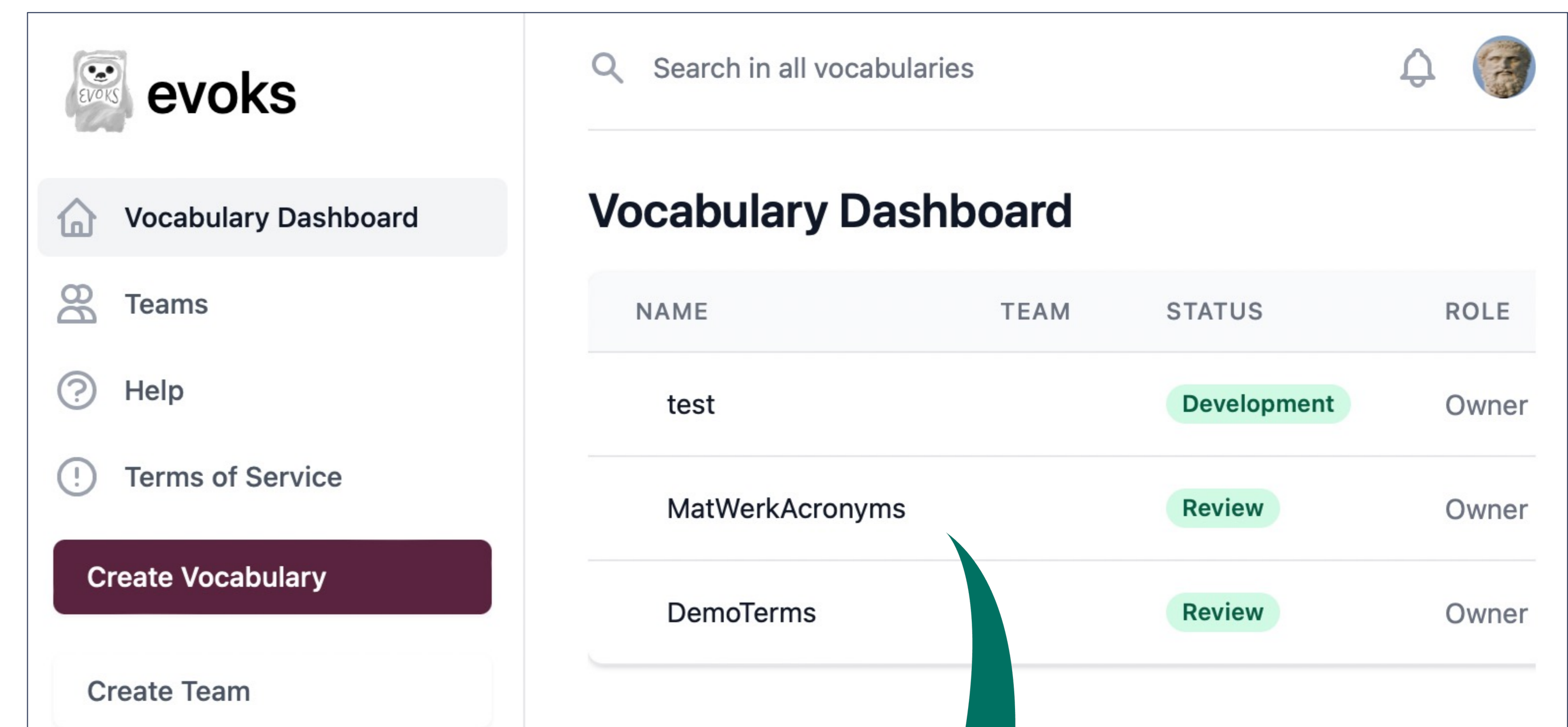



Metadata Editor

User Name: Gulzaure Abdildina

User Role: Team Member

Applications can directly access and use the vocabulary via the internet. In this example, we link the term User Role to a field in our Metadata Editor. Terms are defined in a metadata schema. The narrower terms of the preferred term User Role are taken from a controlled vocabulary and are presented as selectable options in the Metadata Editor's drop-down menu according to the schema. In this way, controlled vocabularies ease interoperability and contribute to FAIRness.

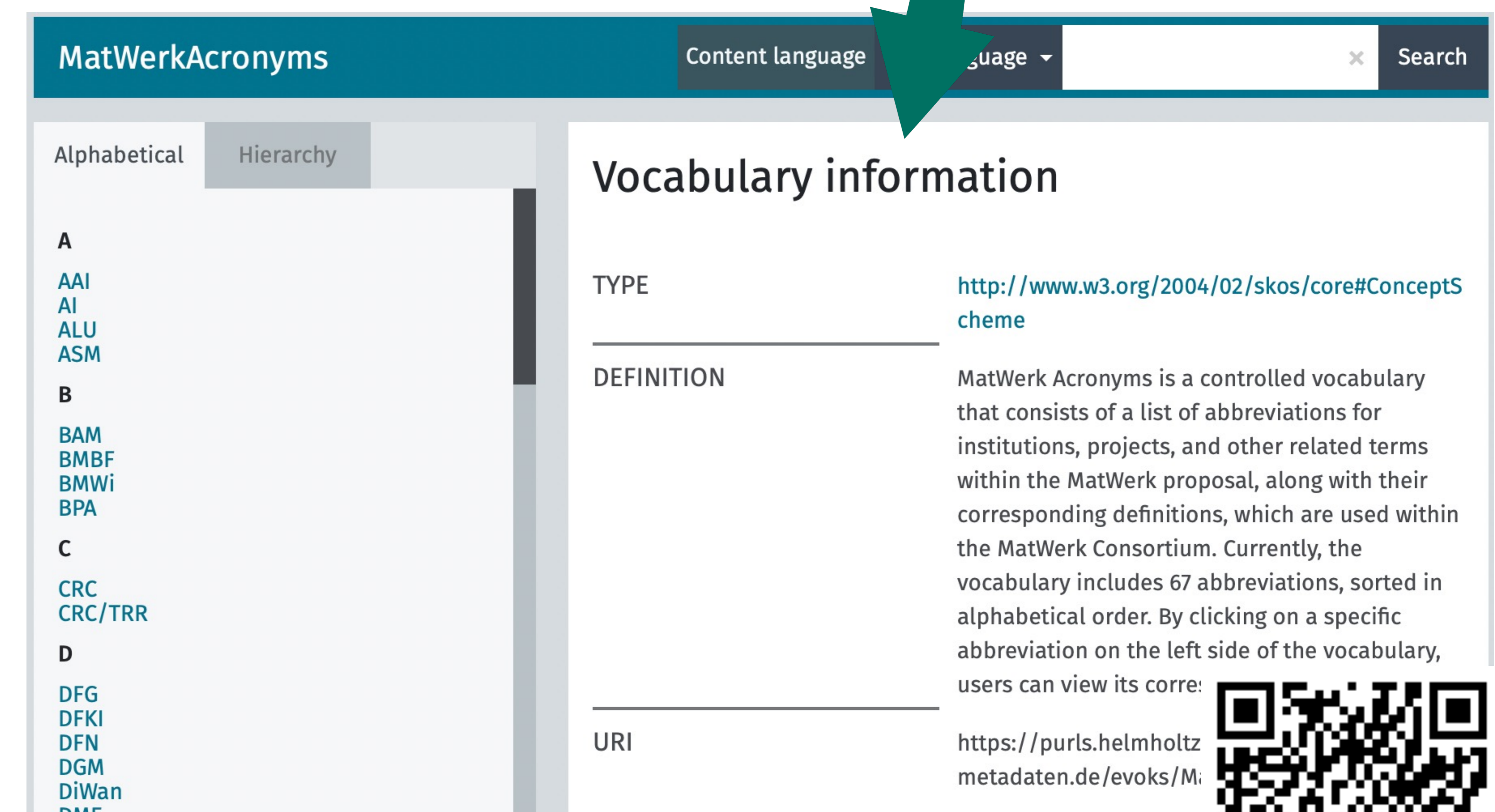


evoks

Vocabulary Dashboard

NAME	TEAM	STATUS	ROLE
test		Development	Owner
MatWerkAcronyms		Review	Owner
DemoTerms		Review	Owner

Buttons: Create Vocabulary, Create Team



MatWerkAcronyms

Content language: English

Vocabulary information

TYPE: <http://www.w3.org/2004/02/skos/core#ConceptScheme>

DEFINITION: MatWerk Acronyms is a controlled vocabulary that consists of a list of abbreviations for institutions, projects, and other related terms within the MatWerk proposal, along with their corresponding definitions, which are used within the MatWerk Consortium. Currently, the vocabulary includes 67 abbreviations, sorted in alphabetical order. By clicking on a specific abbreviation on the left side of the vocabulary, users can view its corre:

URI: <https://purls.helmholtz-metadaten.de/evoks/MatWerkAcronyms/>

A persistent link is assigned to the MatWerk Acronyms Vocabulary, ensuring its long-term accessibility and stability:
<https://purls.helmholtz-metadaten.de/evoks/MatWerkAcronyms/>

