# **Using EVOKS to Build Controlled Vocabularies**

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Controlled vocabularies are used to describe knowledge within a particular domain, encompassing a comprehensive collection of domain specific terms. Using controlled vocabularies not only mitigates the challenge of data ambiguity, but also offers several advantages, including references to term definitions, particularly within metadata schemas. Additionally, they foster semantic interoperability and facilitate the seamless integration of ontologies.

EVOKS, the Editor for Vocabularies to Know Semantics, is a general-purpose vocabulary service which allows data stewards and scientists to easily create or import, edit, curate and publish controlled vocabularies using the W3C recommended SKOS data model [1]. Access to published vocabularies is effectively ensured through the implementation of SKOSMOS [2] as a dedicated vocabulary browser instance.

To illustrate the usability of EVOKS, we set up the NFDI-MatWerk Acronyms Vocabulary [3], consisting of 67 terms from the NFDI-MatWerk [4] proposal, in a structured data model as a practical example.

The poster shows basic usage and benefits of using EVOKS. In particular:

- Creating and editing controlled vocabularies
- · Collaboratively working on vocabularies
- Assigning persistent URLs to the vocabulary and its terms.

The EVOKS interface is designed to be very intuitive and user-friendly: users can quickly get acquainted with the platform and navigate its features without significant time investment.

As an application use case, the poster also demonstrates the integration of controlled vocabularies into metadata schemas. Specifically, it illustrates how the narrower terms of a given term from a controlled vocabulary appear as selectable options in the schema's drop-down menu, when a metadata editor interface is configured.

Setting up a dedicated EVOKS instance is easily possible for HMC members who want to create controlled vocabularies that adhere to the FAIR principles. Using EVOKS, member organizations can create and publish controlled vocabularies tailored to their needs. As shown in our example use-case, integrating these vocabularies with existing applications and projects is easily possible.

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- [1] http://www.w3.org/TR/skos-reference
- [2] https://skosmos.org/
- [3] https://purls.helmholtz-metadaten.de/evoks/MatWerkAcronyms/
- [4] https://nfdi-matwerk.de

# Please assign your contribution to one of the following topics

Data interoperability through harmonised metadata and interoperable semantics

# Please specify "other" (stakeholder)

# In addition please add keywords.

vocabulary service, data interoperability, HMC, NFDI, vocabularies, NFDI-MatWerk

# Please assign yourself (presenting author) to one of the stakeholders.

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