A terminology service via TS4NFDI for BERD@NFDI knowledge graph infrastructure
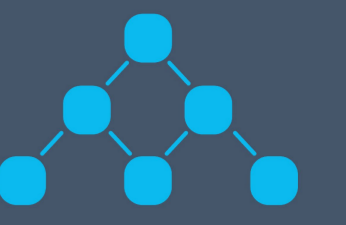
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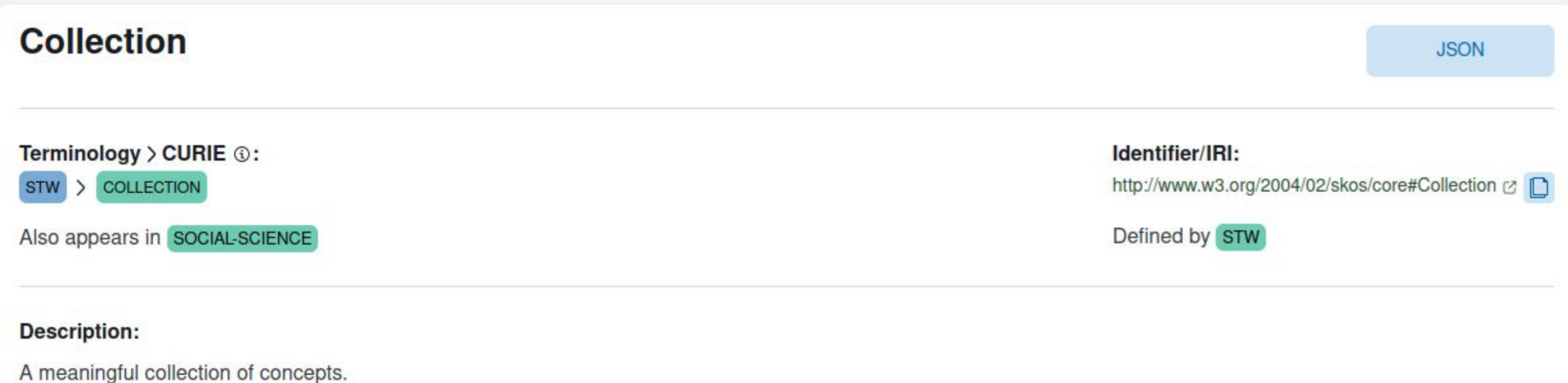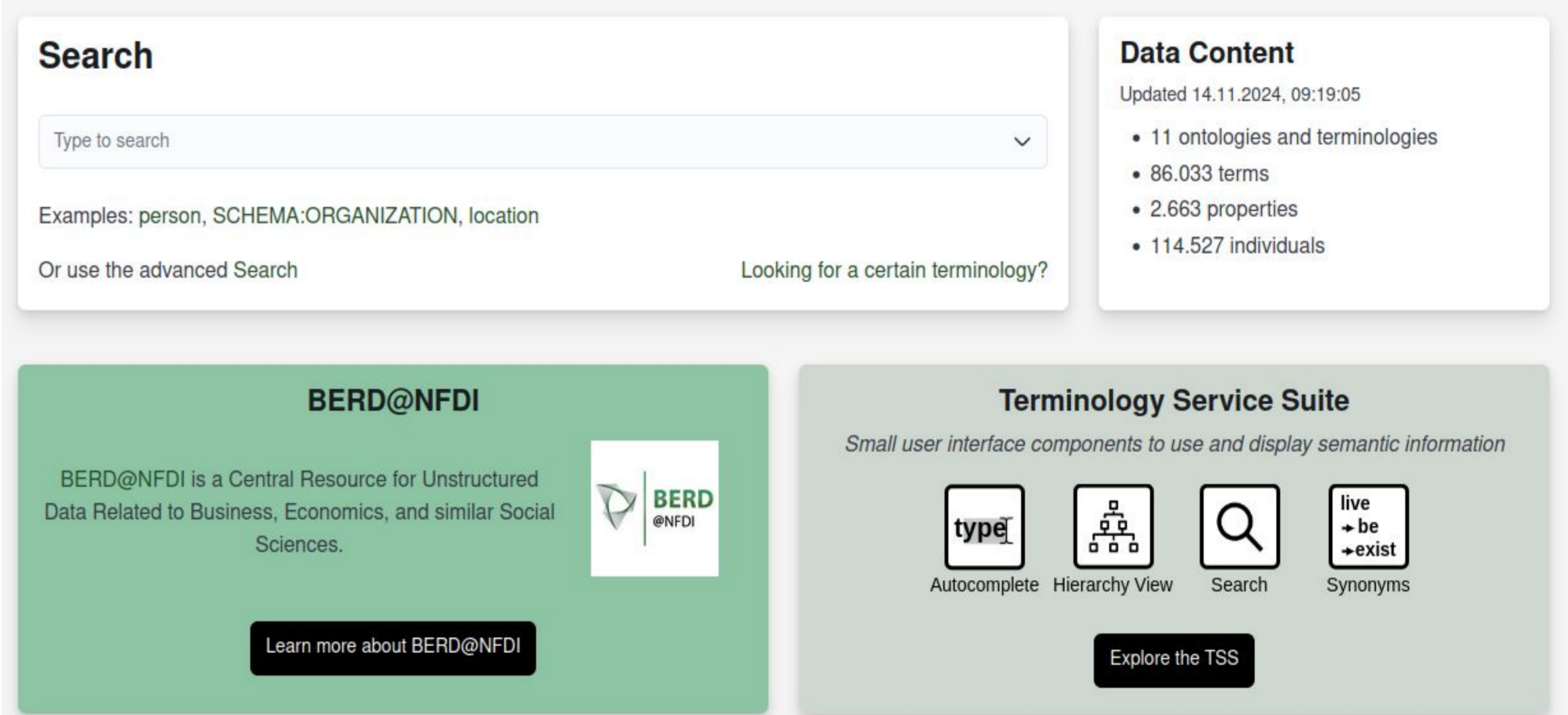
Need for a terminology service in BERD@NFDI

- **Current Gap:** BERD@NFDI lacks a unified terminology service.

- The **BERD Terminology Service** would:
  - enhance the efficiency of data and metadata linking and semantification.
  - improve data interoperability and integration within the BERD@NFDI and NFDI ecosystem.
  - facilitate effective data usage across disciplines.

Implementation Using the Terminology Service Suite

- BERD@NFDI and TS4NFDI build the BERD Terminology Service using the Terminology Service Suite (TSS).

- **Backend:** Compatible with multiple backends (OLS, OntoPortal, and SKOSMOS).

- **Frontend:** TSS widgets enable a customizable graphical user interface and allow to embed terminologies in business and economic data applications.

- **Access:** Terminologies are accessible via APIs.

Impact and Alignment with BERD and NFDI Goals

- **Knowledge Graphs:** The TS4BERD facilitates the semantification of knowledge graphs.

- **Support for BERD@NFDI and NFDI Goals:** Enhances data interoperability and reusability.

- **Advancing Research Capabilities:** Expands research potential across various domains.

- **Strengthening National Data Integration:** Facilitates the integration of business and economic data into the national data landscape.

TS4NFDI + BERD@NFDI = TS4BERD

- **TS4NFDI** offers **TSS as a service** requiring minimal setup, and brings expertise in production-ready terminology services

- **BERD@NFDI** collects community-needed ontologies and vocabularies for business, economic and related data, and provides use cases via its knowledge graph infrastructure

- **TS4BERD** supports BERD's mission for interconnected business, economic, and related data.

Access to the terminology service & documentation:

TS4BERD: https://ts.berd-nfdi.de/

TSS widgets repo: https://github.com/ts4nfdi/terminology-service-suite

DFG Deutsche Forschungsgemeinschaft
German Research Foundation

base4 nfdi Basic Services for NFDI