

NFDIcore 3.0: A Mid-Level BFO-Compliant Ontology for Sustainable Research Data Interoperability Across Consortia

- Knowledge graph-based approaches are widely adopted to represent, manage, and interlink **research data**.
- Each NFDI consortium addresses distinct tasks,, and **domain-specific needs**, but they also share common concepts, structures, and **interoperability goals**.
- To support interoperability across the diverse domains, NFDIcore adopts a **modular** ontology design.
- This approach **balances the shared goals** and structures of NFDI consortia with their **individual disciplinary requirements**, enabling both cross-domain knowledge discovery and domain-specific representation.

