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Metadata Interoperability with RDF and JSON-LD in DDI Lifecycle 4 and the Colectica Portal

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This presentation explores the newly implemented RDF (Resource Description Framework) support in DDI Lifecycle Version 4 and its significant impact on enhancing metadata interoperability. With the growing use of linked data and semantic web technologies, RDF offers a standardized method for representing and exchanging metadata, enabling smoother integration across diverse metadata models and systems.

In DDI Lifecycle Version 4, RDF is introduced as a primary serialization format. This presentation examines how this RDF support enables metadata to be published in a structured, machine-readable format that adheres to semantic web standards. A key focus will be the Colectica Portal's utilization of DDI in JSON-LD format to embed metadata directly into web pages for studies, datasets and variables. By embedding JSON-LD, each dataset and variable page includes rich, machine-readable metadata that can be easily interpreted by search engines and external systems. These new linked data capabilities improve data discovery, accessibility, and interoperability across platforms.

Additionally, this presentation discusses how these advancements align with the FAIR (Findable, Accessible, Interoperable, Reusable) data principles. By providing seamless access to well-structured metadata directly from the web, this integration promotes more effective data sharing and reuse within the research community.

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