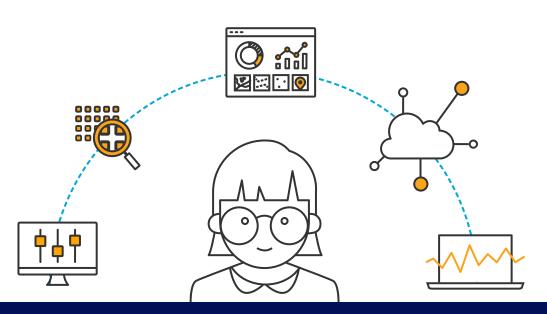
FAIR Metadata in Practice

Data Science in Practice



Semantics provide meaning Metadata provide structure



OntologiesFormalizing Research

Ontologies

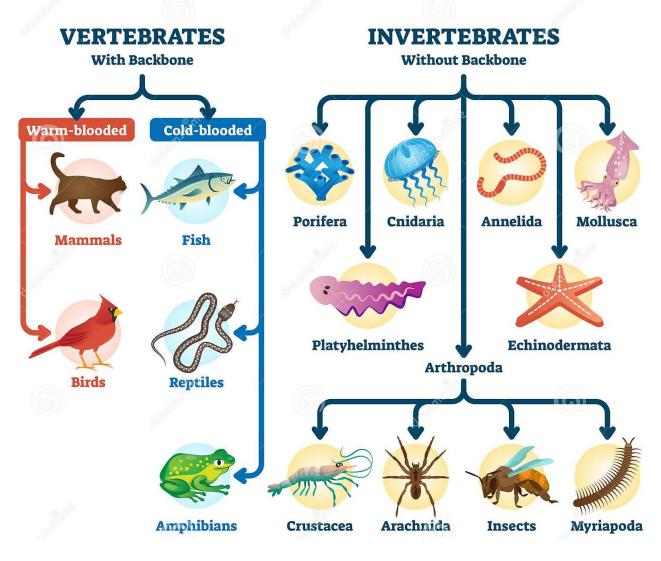
- Based on Controlled Vocabularies
 - A set of commonly agreed terms in a domain

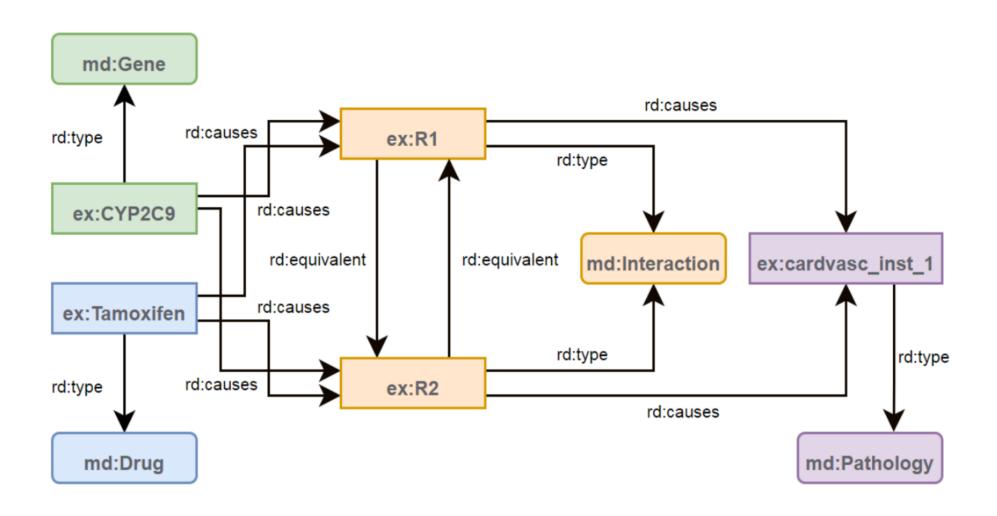
Classes \rightarrow Metadata

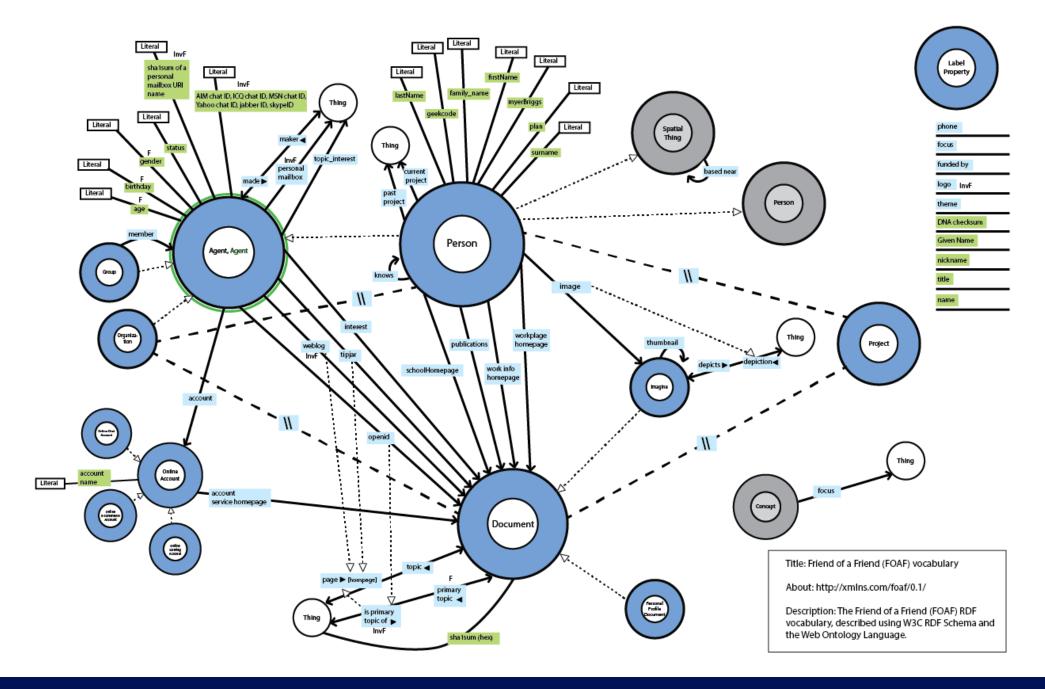
Links \rightarrow <u>Semantics</u>

Instances \rightarrow <u>Data</u>

CLASSIFICATION OF ANIMALS

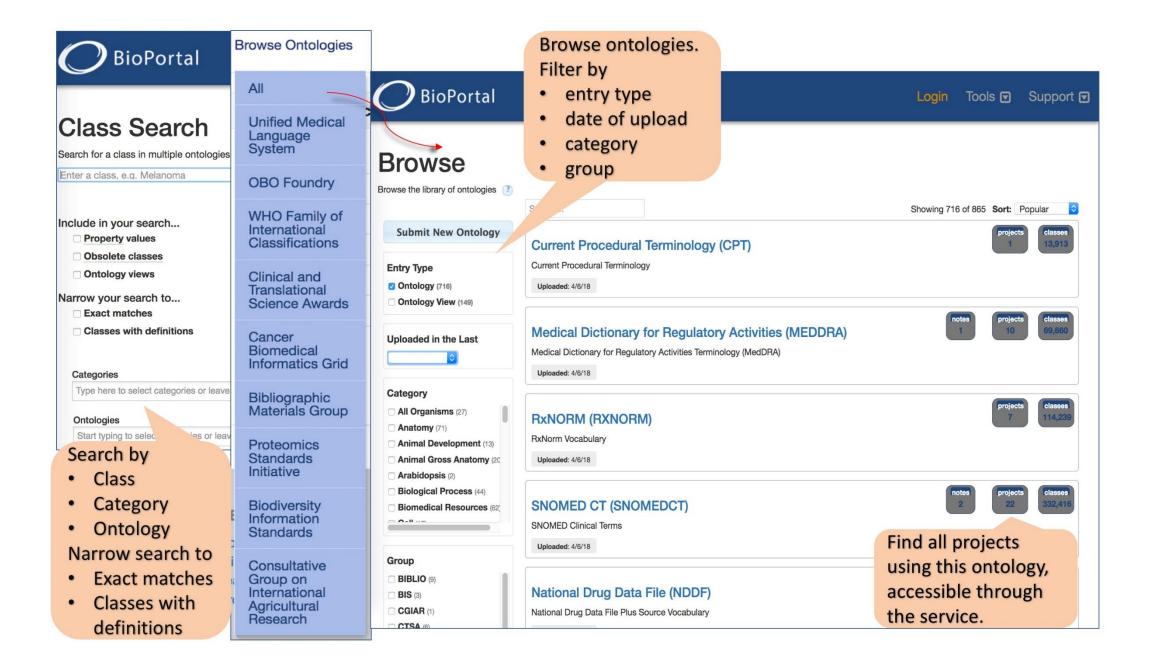


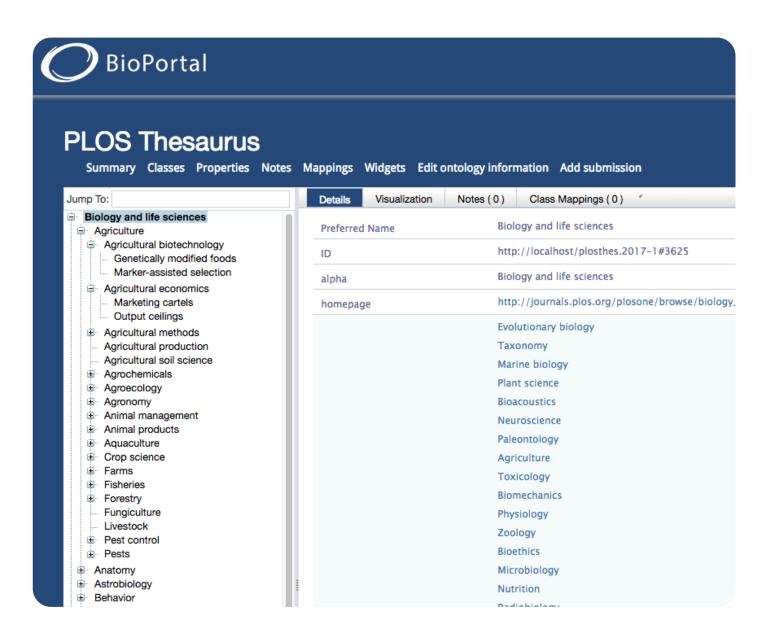




BioPortal

Interoperable Ontologies





National Cancer Institute Thesaurus

Last uploaded: May 24, 2021

Gene
Gene Product
Manufactured Object
Molecular Abnormality

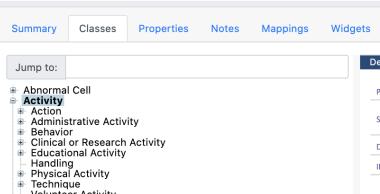
Organism

Property or Attribute
Retired Concept



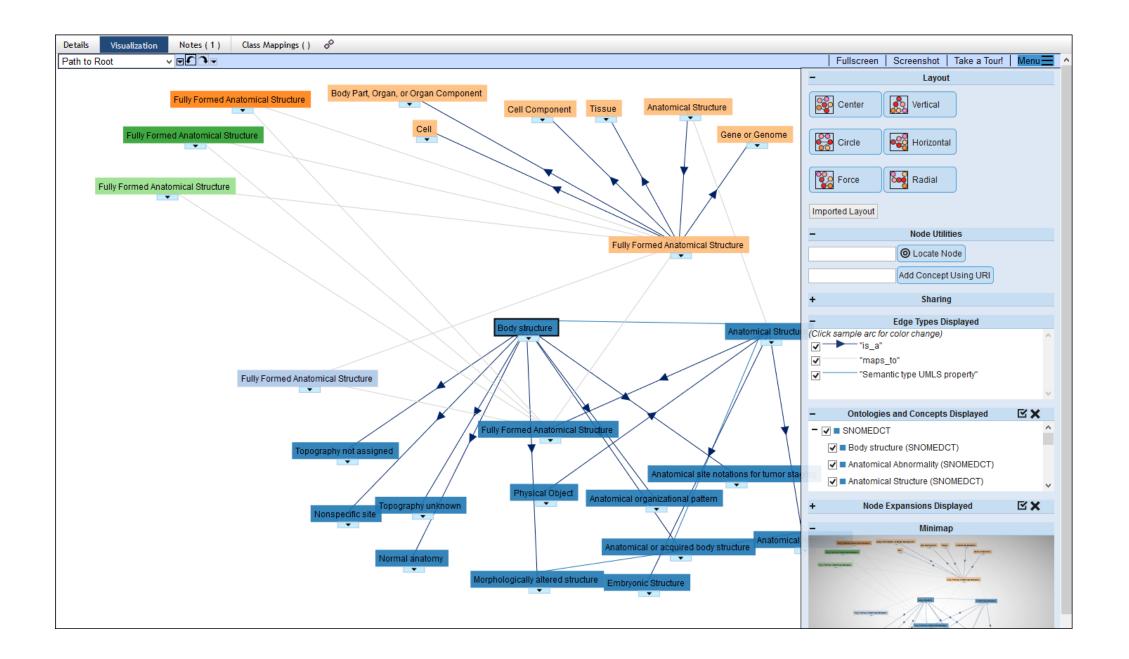






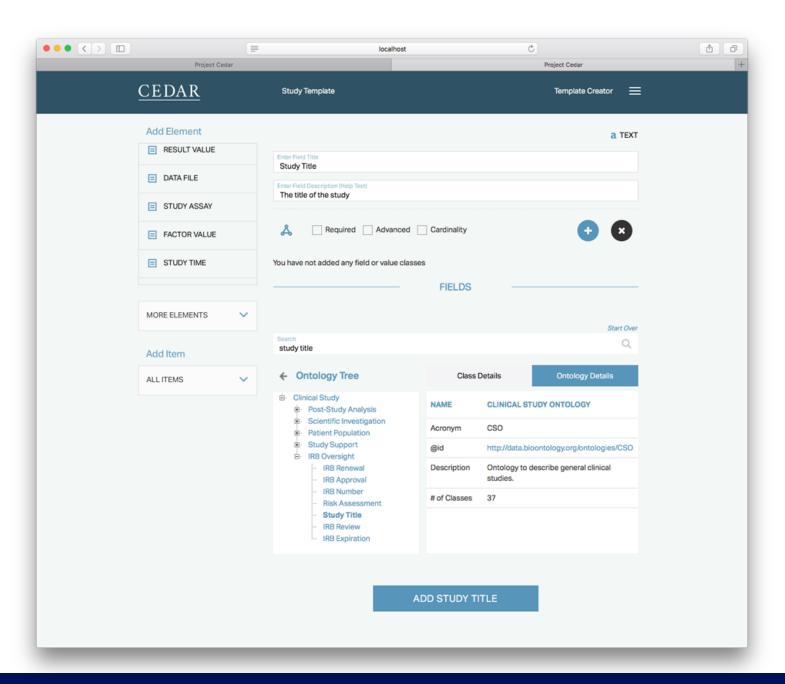
Behavior
Clinical or Research Activity
Educational Activity
Handling
Physical Activity
Technique
Volunteer Activity
Anatomic Structure, System, or Substance
Biochemical Pathway
Biological Process
Chemotherapy Regimen or Agent Combination
Conceptual Entity
Diagnostic or Prognostic Factor
Disease, Disorder or Finding
Drug, Food, Chemical or Biomedical Material
Experimental Organism Anatomical Concept
Experimental Organism Diagnosis

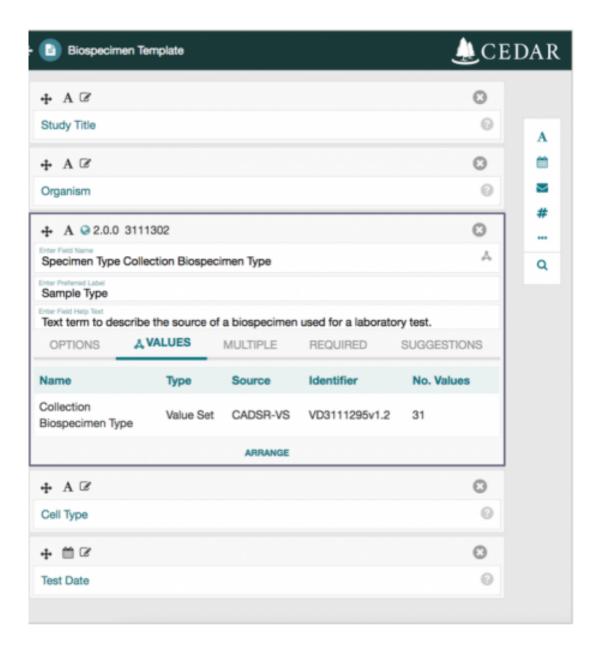
Details Visualizati	on Notes (0) Class Mappings (95) 🔗
Preferred Name	Activity
Synonyms	General activity Activity
Definitions	An active process; excludes processes and mechanisms which fulfill biological functions.
ID	http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#C43431
ALT_DEFINITION	Any action that can, in the context of a study, experiment, post-marketing investigation, or disease registry, be defined, planned, scheduled or performed. EXAMPLE(S): Administrative activities such as subject registration or informed consent Clinical activities such as surgical procedure, laboratory test, administration of a drug OTHER NAME(S): NOTE(S):
	Any action that can, in the context of a study or a post-marketing investigation, be defined, planned, scheduled or performed. EXAMPLE(S): surgical procedure, laboratory test, administration of a drug.
code	C43431
Concept_In_Subset	BRIDG Class Terminology MD Anderson Symptom Inventory – Head and Neck BRIDG Terminology
Contributing_Source	BRIDG
DEFINITION	An active process; excludes processes and mechanisms which fulfill biological functions.
FULL_SYN	General activity Activity
label	Activity
Legacy Concept Name	Activity
Preferred_Name	Activity
prefixIRI	Thesaurus:C43431
Semantic_Type	Activity
UMLS_CUI	C0441655
subClassOf	http://www.w3.org/2002/07/owl#Thing
disjointWith	Manufactured Object Disease, Disorder or Finding

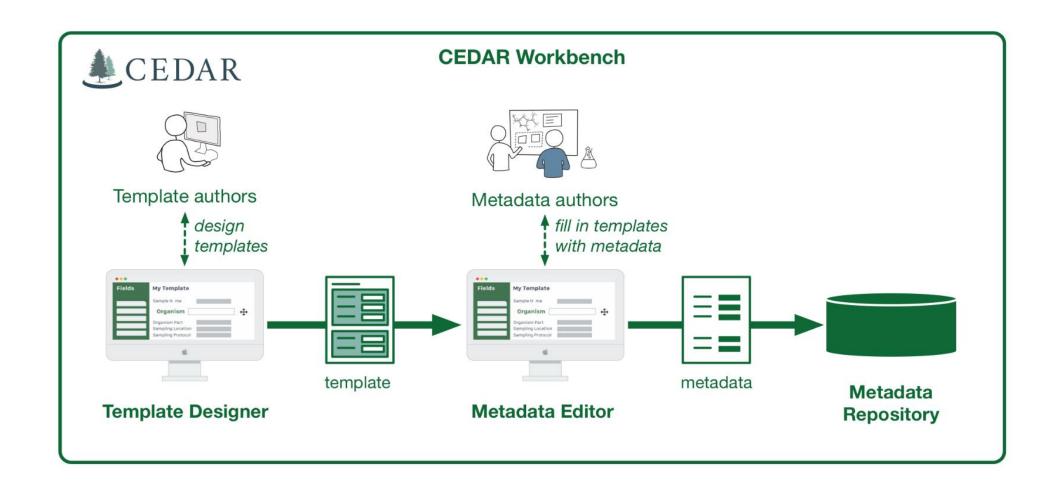


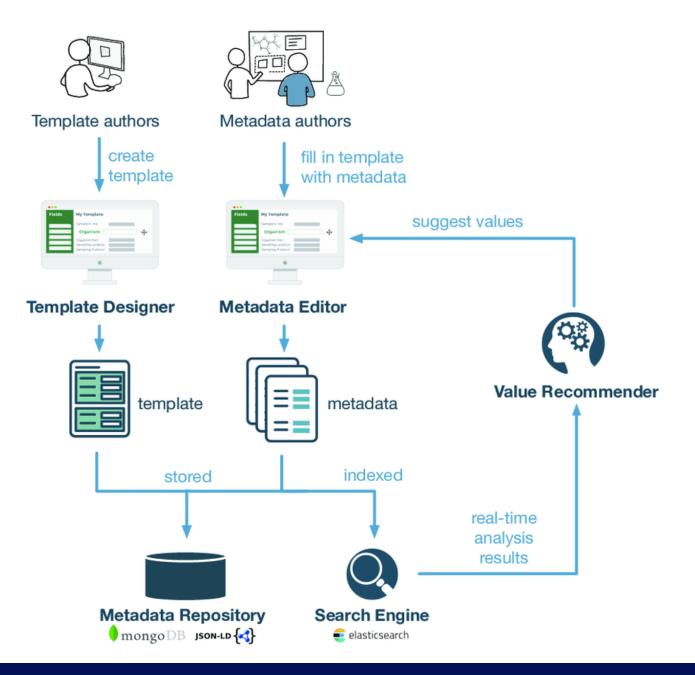
CEDAR

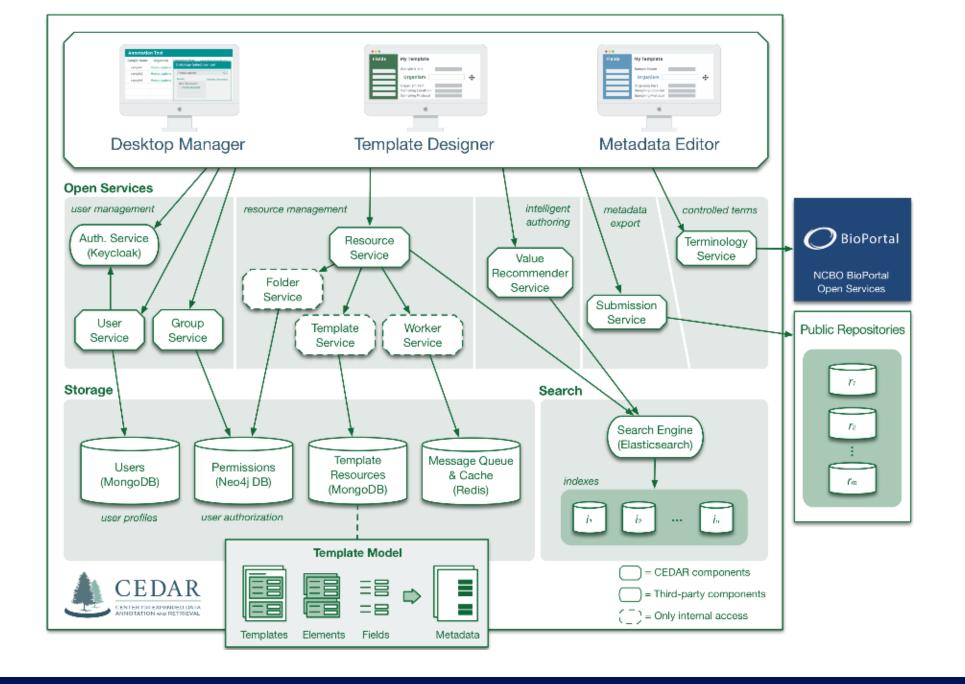
Center for Expanded Data Annotation and Retrieval



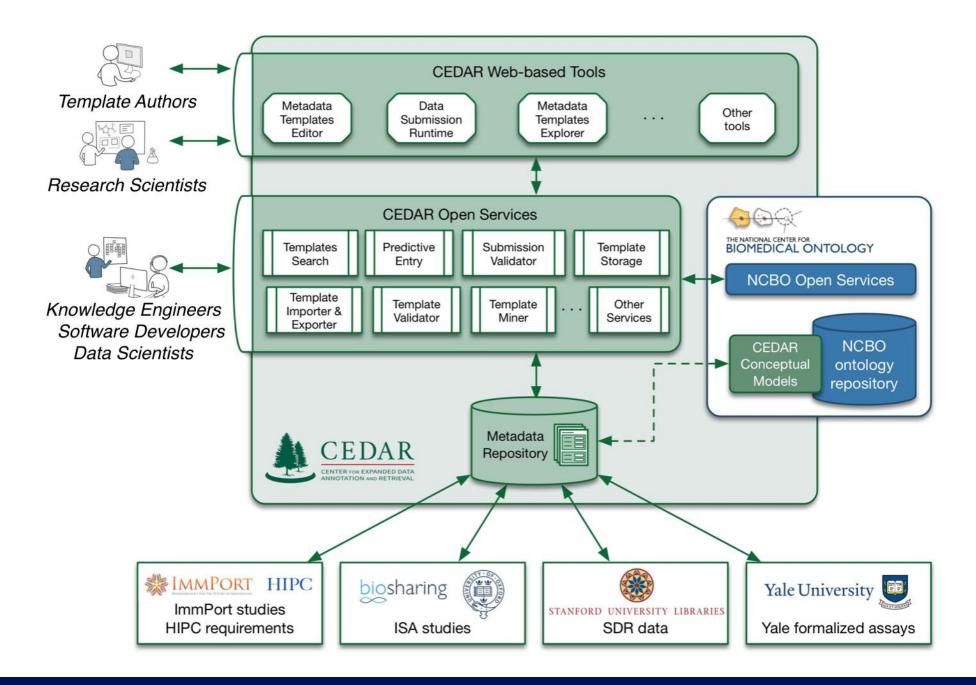












Data Science in Practice

