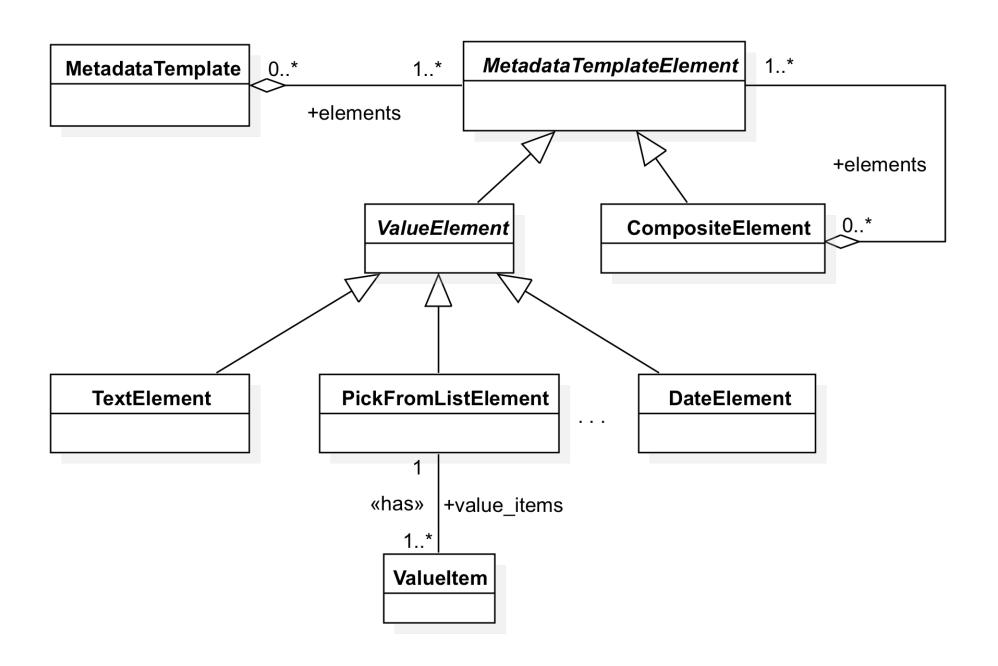


CEDAR's Information Models

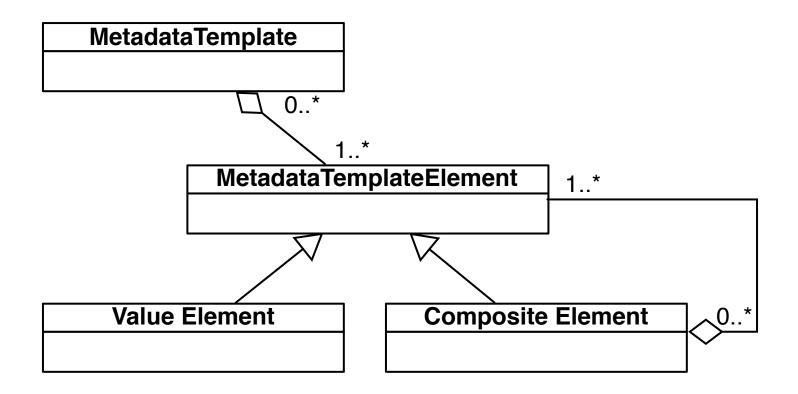
And What To Call Them

2015.09.27

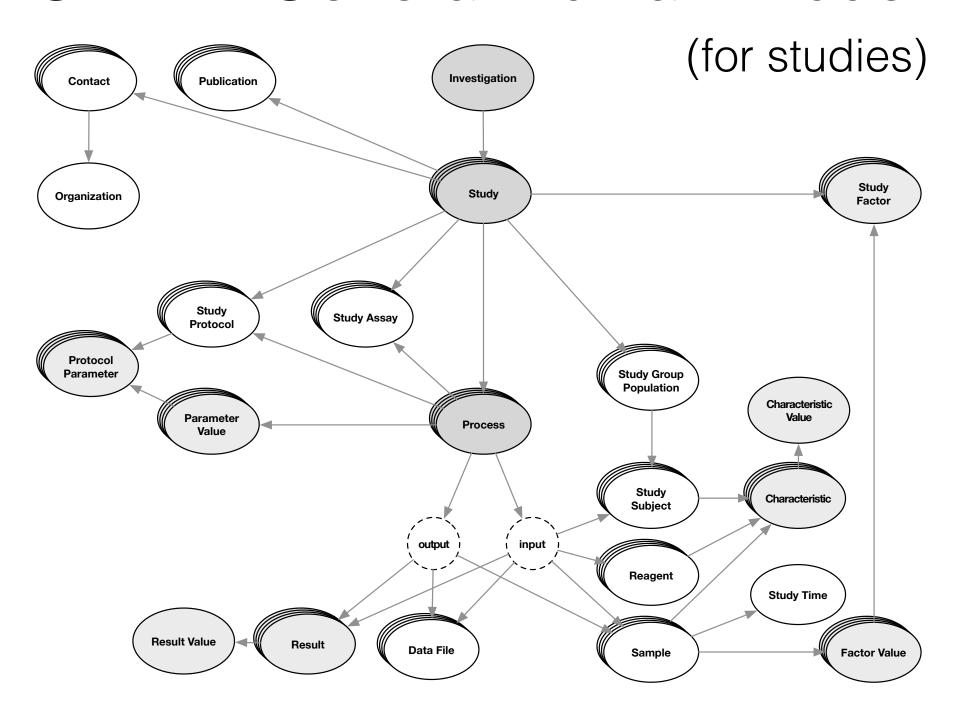
CEDAR Repository Element Model



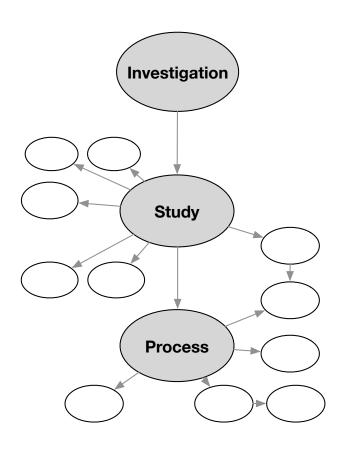
CEDAR Repository Element Model Iconic



CEDAR General Domain Model

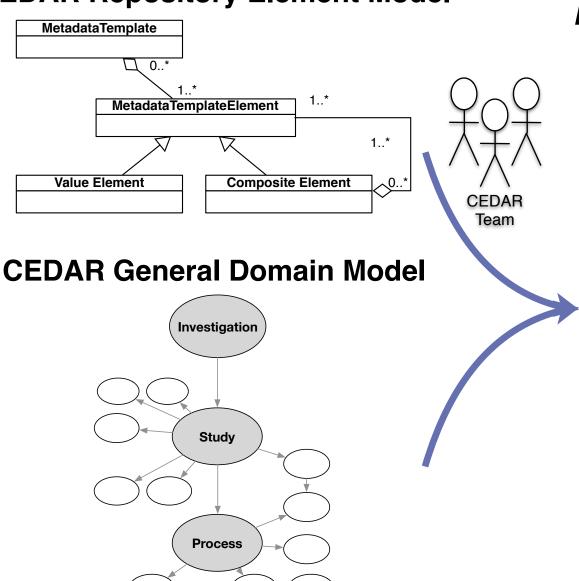


CEDAR General Domain Model Iconic

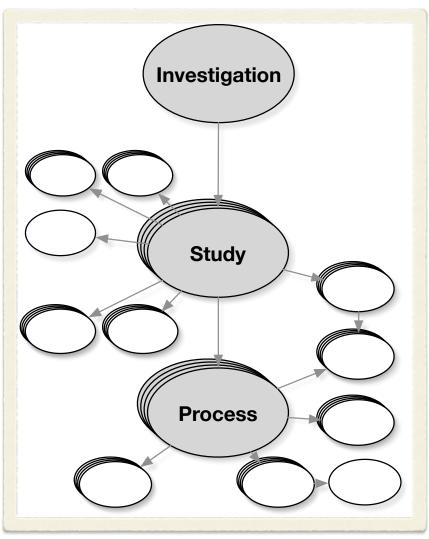


CEDAR Domain Model Template

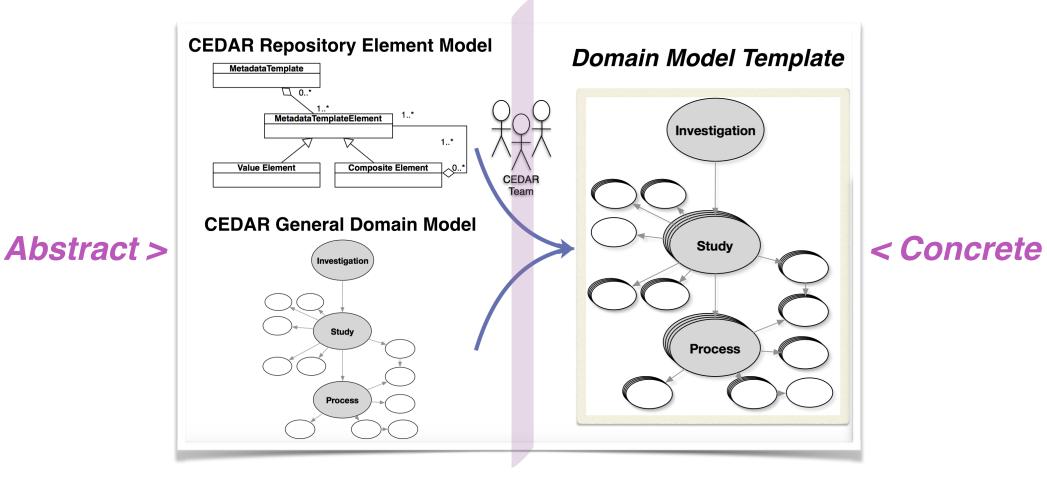
CEDAR Repository Element Model



Domain Model Template



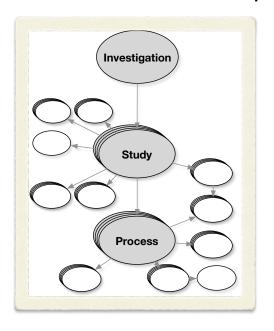
What's the Difference?

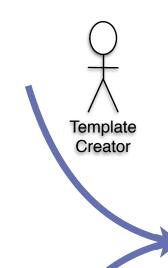


The Domain Model Template instantiates (implements) the concepts in the General Domain Model (using the Repository Element Model)

Creating a Specific Template Model

Domain Model Template



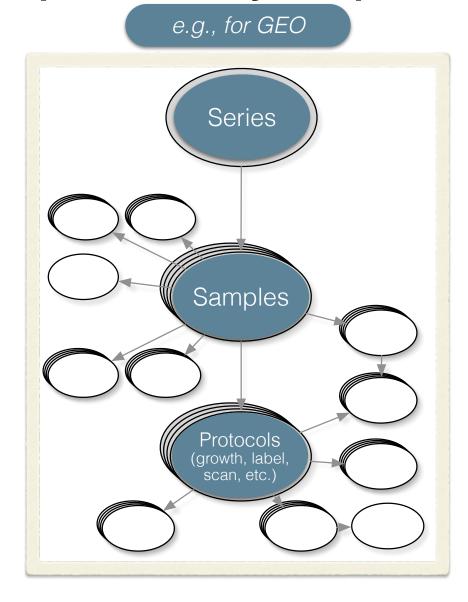


A Metadata Specification

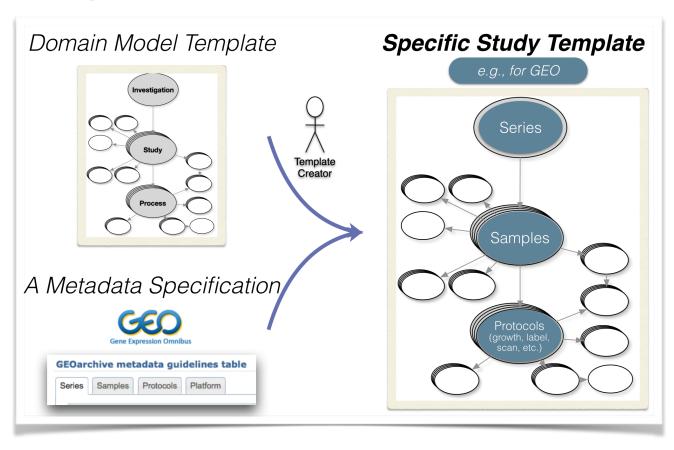


Series Samples Protocols Platform

Specific Study Template



Creating a Specific Template Model

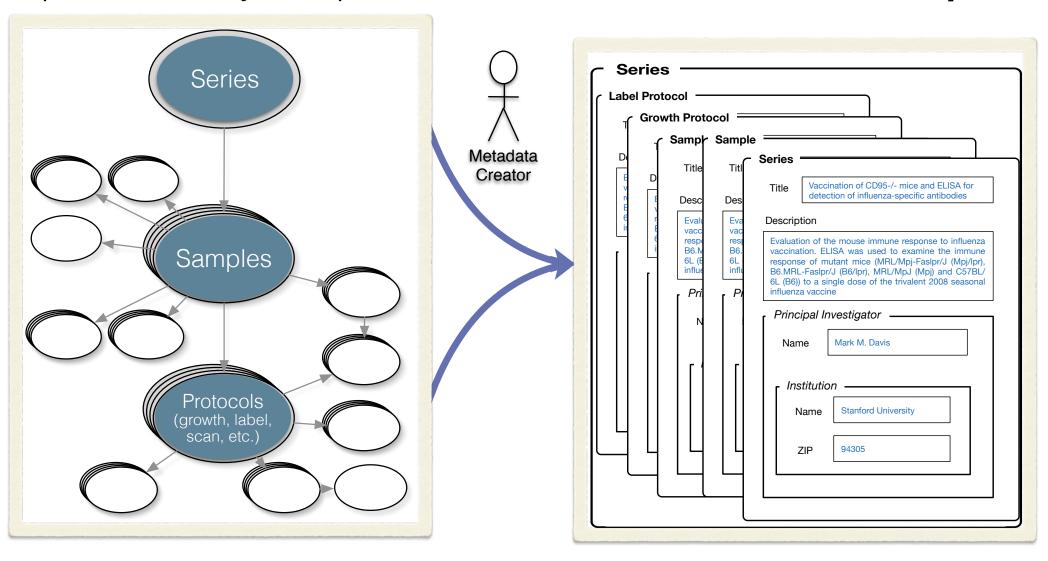


- The Specific Study Template extends the Domain Model Template
- The entity names follow the metadata specification's language, not the Domain Model terms
- The Specific Study Template constrains its users by specifying the number, roles, and content that are acceptable for each entity

Fill In Instantiated Data Report

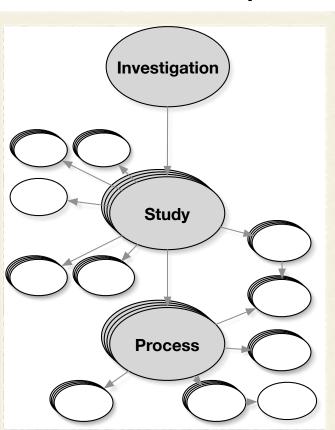
Specific Study Template

Instantiated Data Report

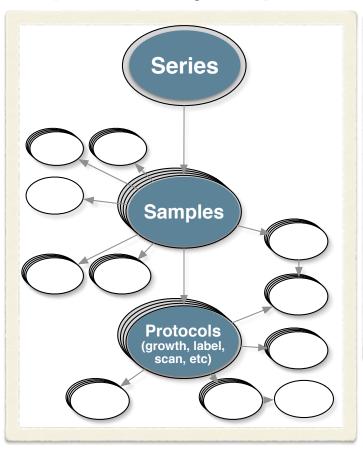


Review of Instantiated Models

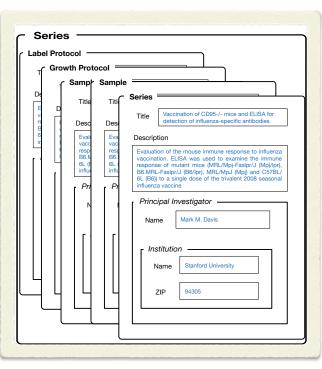
Domain Model Template



Specific Study Template



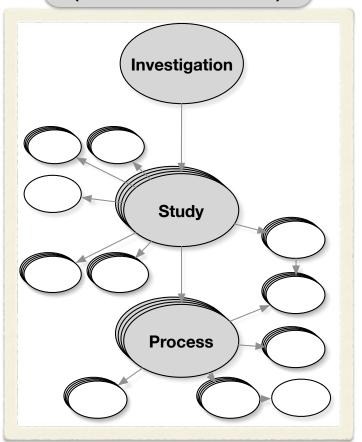
Instantiated Data Report



How do we represent these in CEDAR?

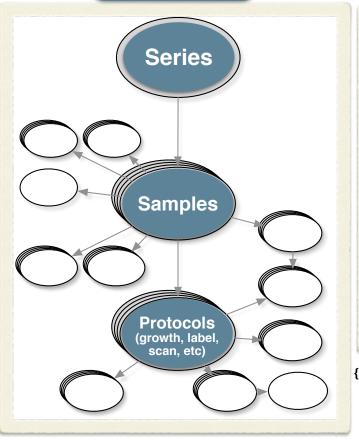
Domain Model Template

(for biomedical studies)



Specific Study Template

e.g., for GEO



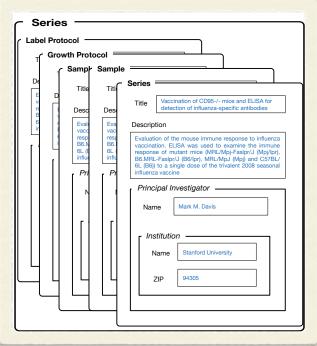
encoded in a JSON schema:

encoded in a JSON schema:

"\$schema": "http://json-schema.org/draft-04/schema#", "properties": { "investigation": { "\$schema": "http://json-schema.org/draft-04/ schema#", "type": "object", "@id": "https://repo.metadatacenter.org/UUID", "additionalProperties": true, "version": "1.0.0", "provenance": {}, "title": "Investigation Template", "description": "JSON-LD/Schema Investigation Template",

Instantiated Data Report

for a GEO series



encoded in JSON:

"investigation": {

"schemaID": "https://repo.metadatacenter.org/UUID"
"@id": "https://repo.metadatacenter.org/UUID",

"@type": "https://repo.metadatacenter.org/model/ Investigation",

"@context": {

Template",

"model": "https://repo.metadatacenter.org/model/"

following a JSON schema:

"\$schema": "http://json-schema.org/draft-04/schema#"
"properties": {
 "investigation": {
 "\$schema": "http://json-schema.org/draft-04/
schema#",
 "type": "object",
 "@id": "https://repo.metadatacenter.org/UUID",
 "additionalProperties": true,
 "version": "1.0.0",
 "provenance": {},
 "title": "Investigation Template",
 "description": "JSON-LD/Schema Investigation