# CONTROLLED KNOS workflow for a metadata observatory



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77.

schema, RDFXML, and

RDF schema

## WHAT IS KAOS?

[Knowledge-Advancing Organization Systems]

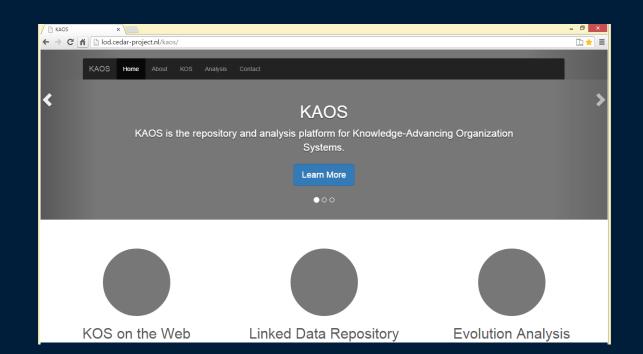
A tool enabling exploration and discovery of the controlled vocabularies we use to organize and describe our universe

#### **PURPOSE**

- ► To serve as a repository of metadata standards from every domain
- ► To visually represent of the evolution of and relationships among the metadata vocabularies
- ► To provide a platform for querying, analyzing, and extracting data about metadata

#### DESIGN

► A web-based front end provides access to the repository and a platform for analysis

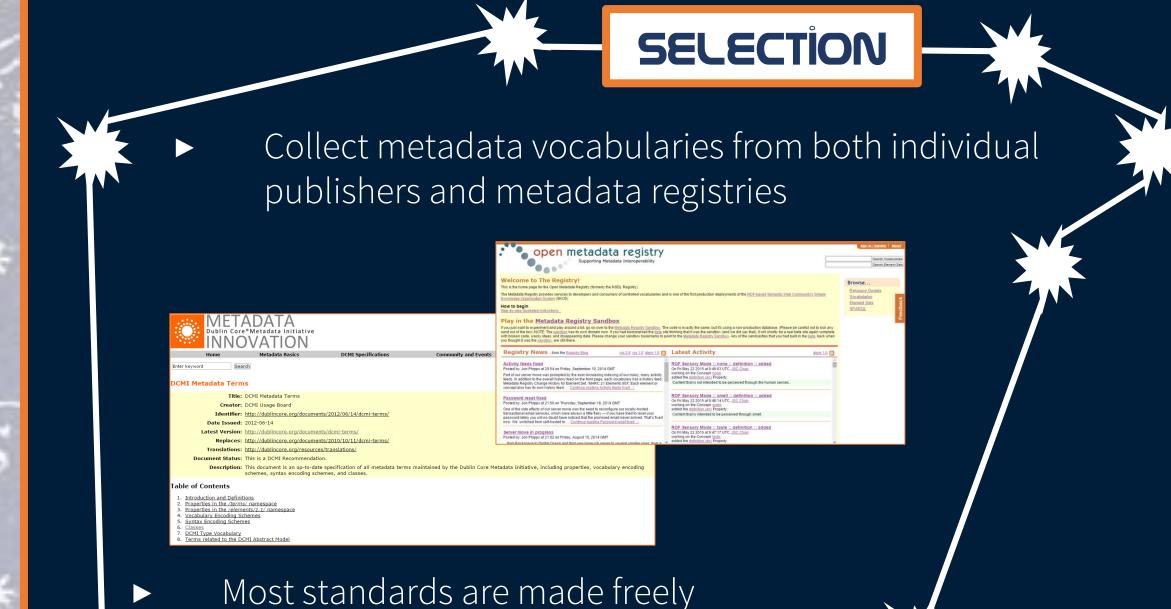


► When fully functional, KAOS will store and publish metadata as linked data

### CHALLENGES

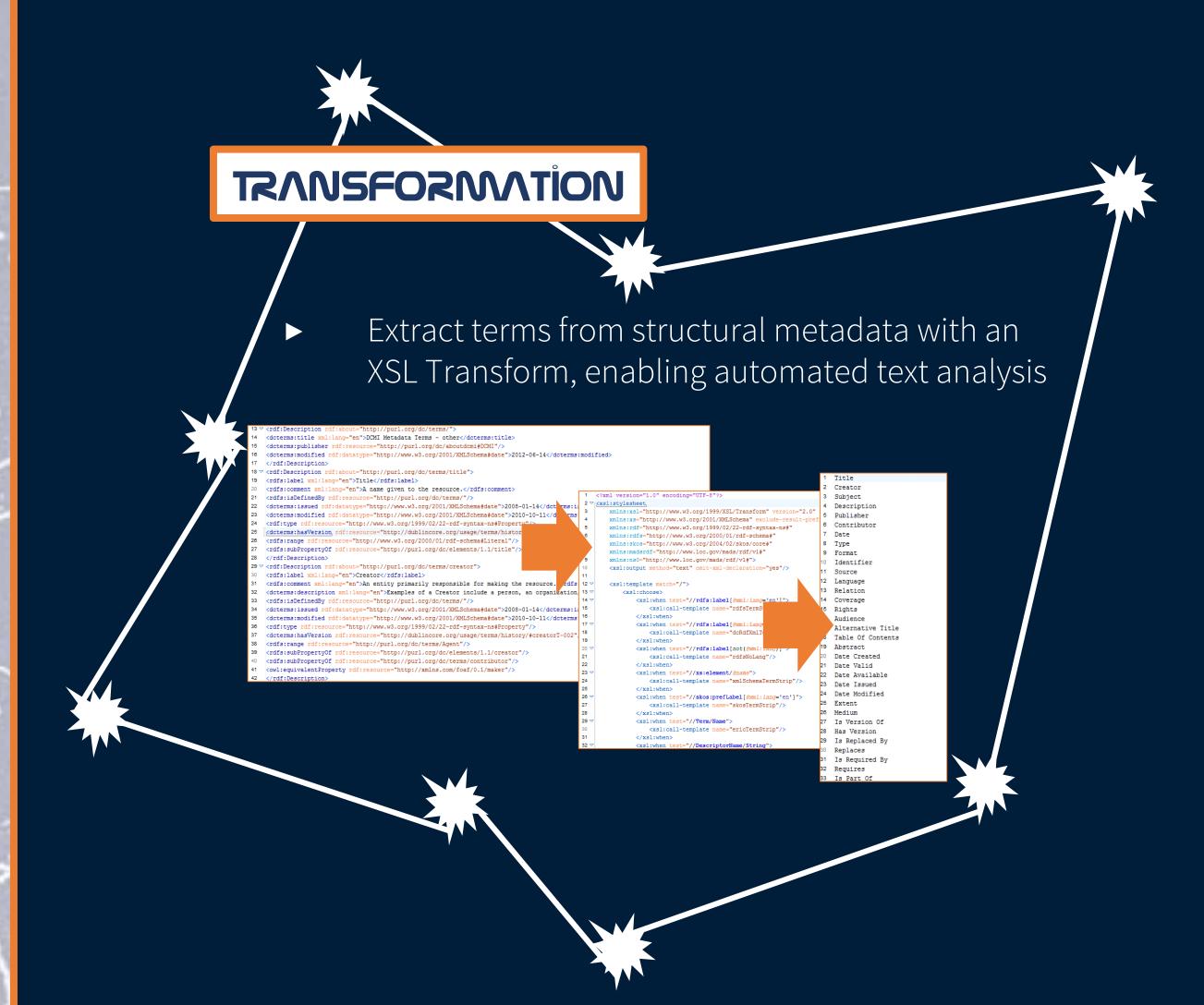
- Interoperability
- Versioning
- Scope and scale





available in an XML or XML-

compatible formats

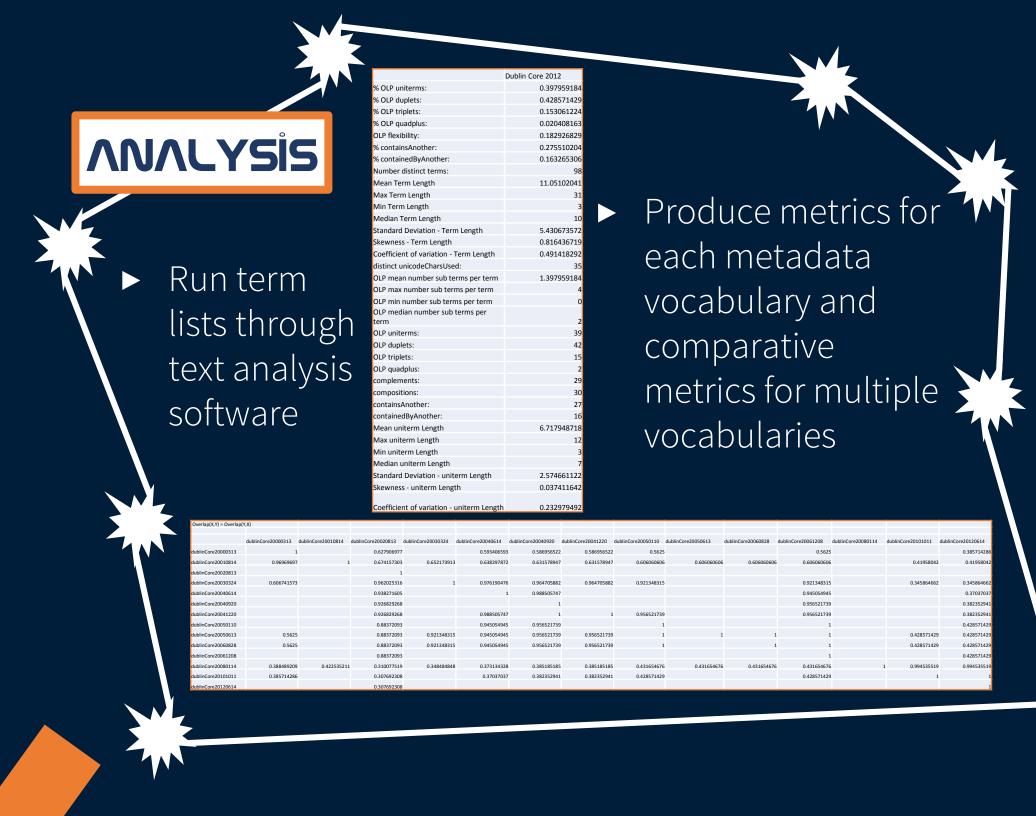


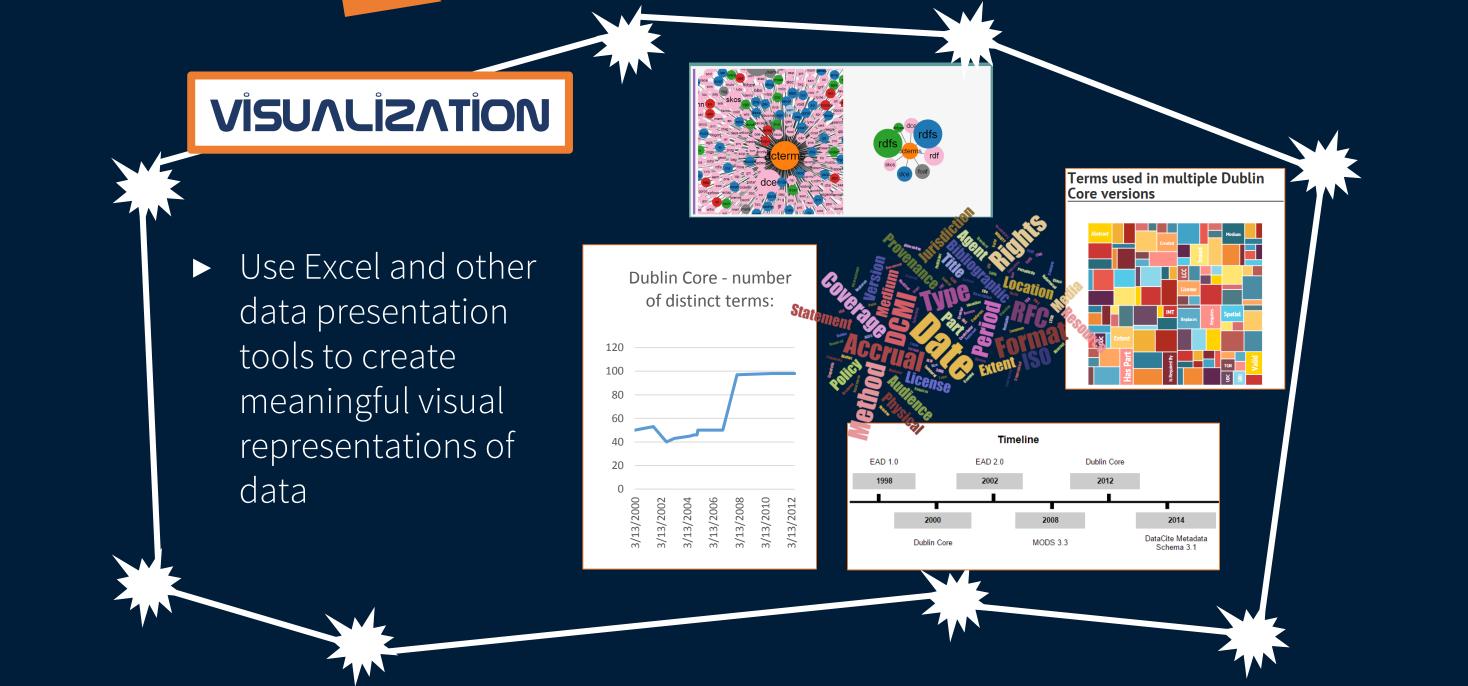
#### **NEXT STEPS**

- Automate ingest and transformation processes
- Update and expand the collection
- ► Establish long-term storage, maintenance, and infrastructure plan
- Develop interactive visualizations and other functionalities for the user interface

STORAGE Use XML database, eXistdb, to store vocabularies represented as XML, XML

XML databases preserve structural information in the metadata files that would be lost in a relational database





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