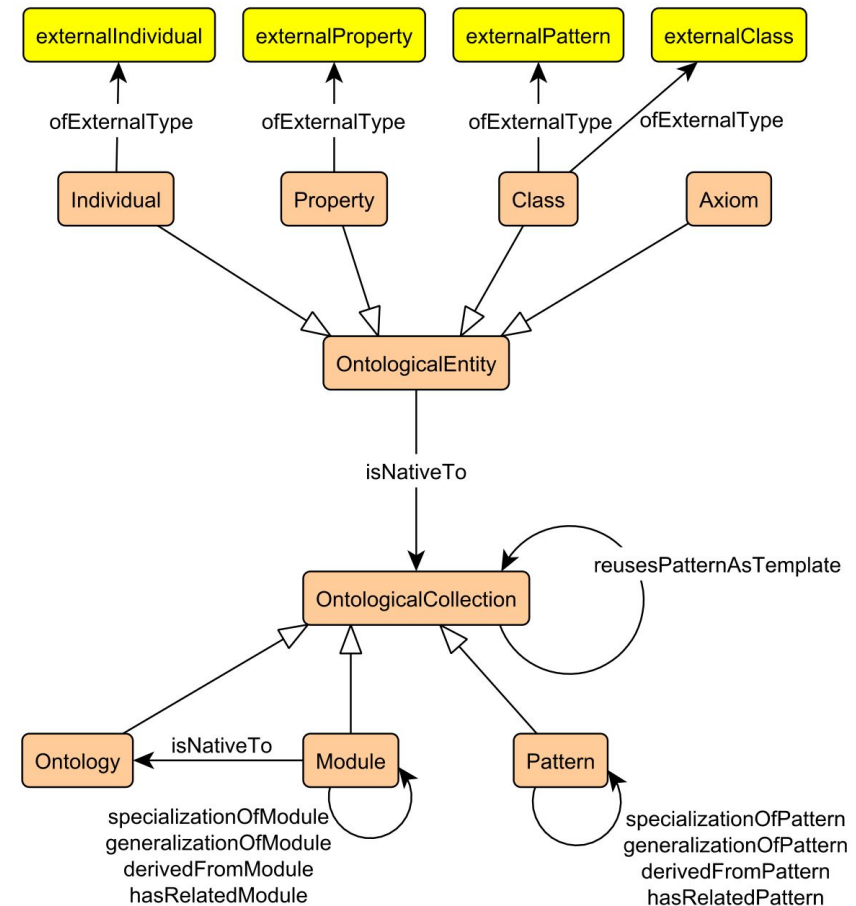# Extensions to the Ontology Design Pattern Representation Language

Quinn Hirt, Cogan Shimizu, Pascal Hitzler

KANSAS STATE
U N I V E R S I T Y

Department of Computer Science
Data Semantics Laboratory
http://dase.cs.ksu.edu/

Outline

- Review of OPLa

- Refining OPLa-core

- The Extensions
    - OPLa-cp
    - OPLa-sd

- The Ontology Design Pattern Representation Language

- Used to express relationships of modules that compose a Modular Ontology

- Structure
- Provenance
- Usage
- Visualization

- Structure → - opla-core
- Provenance → - opla-cp
- Usage → - opla-sd
- Visualization →

- We need to clarify the use of a few of the original annotations
    - isNativeTo

    - ofExternalType

    - extractedFrom and derivedFrom

● Absorbing the "cp-annotation-schema"

    ○ Unification

    ○ Trimming

    ○ Use vs. Provenance

DaSe Lab

- Currently utilized for absolute positioning on a canvas in CoModIDE

- There is (very) recent related work: Gizmo

DaSe Lab

- External or Internal Annotations?

- OPLa ontologies

- Tooling Infrastructure

Thanks!!
Any Questions?

Offline questions can be e-mailed to: cogan@coganshimizu.com

DaSe Lab

KANSAS STATE
U N I V E R S I T Y