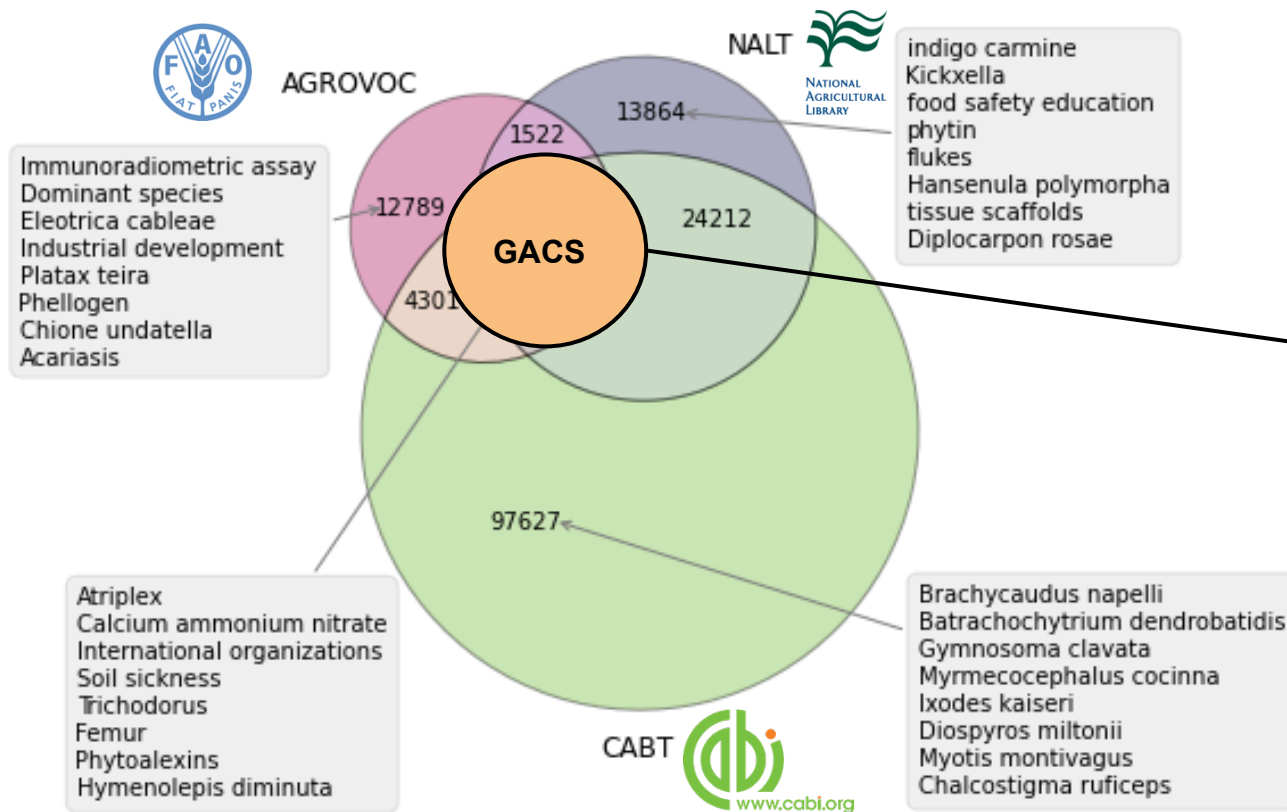


Global Agricultural Concept Scheme (GACS) and Agrisemantics

Seeds & Chips – The Global Food Innovation Summit
Session: “The Semantic Web of Food”
Milano, May 8, 2017



Global Agricultural Concept Scheme



GACS Beta 3.1

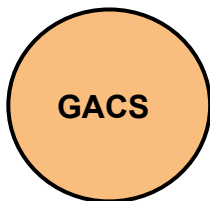
- 15,000+ concepts
- 350,000+ labels in 29 languages
- reasonably stable
- testing and feedback welcome

Example concept: “Grain”

<http://id.semantics.org/gacs/C1825>

Labels in 25 languages

- *Korn* (German)
- *зерно* (Russian)
- *अनाज* (Hindi)
- ...



Broader

- *cereal products*

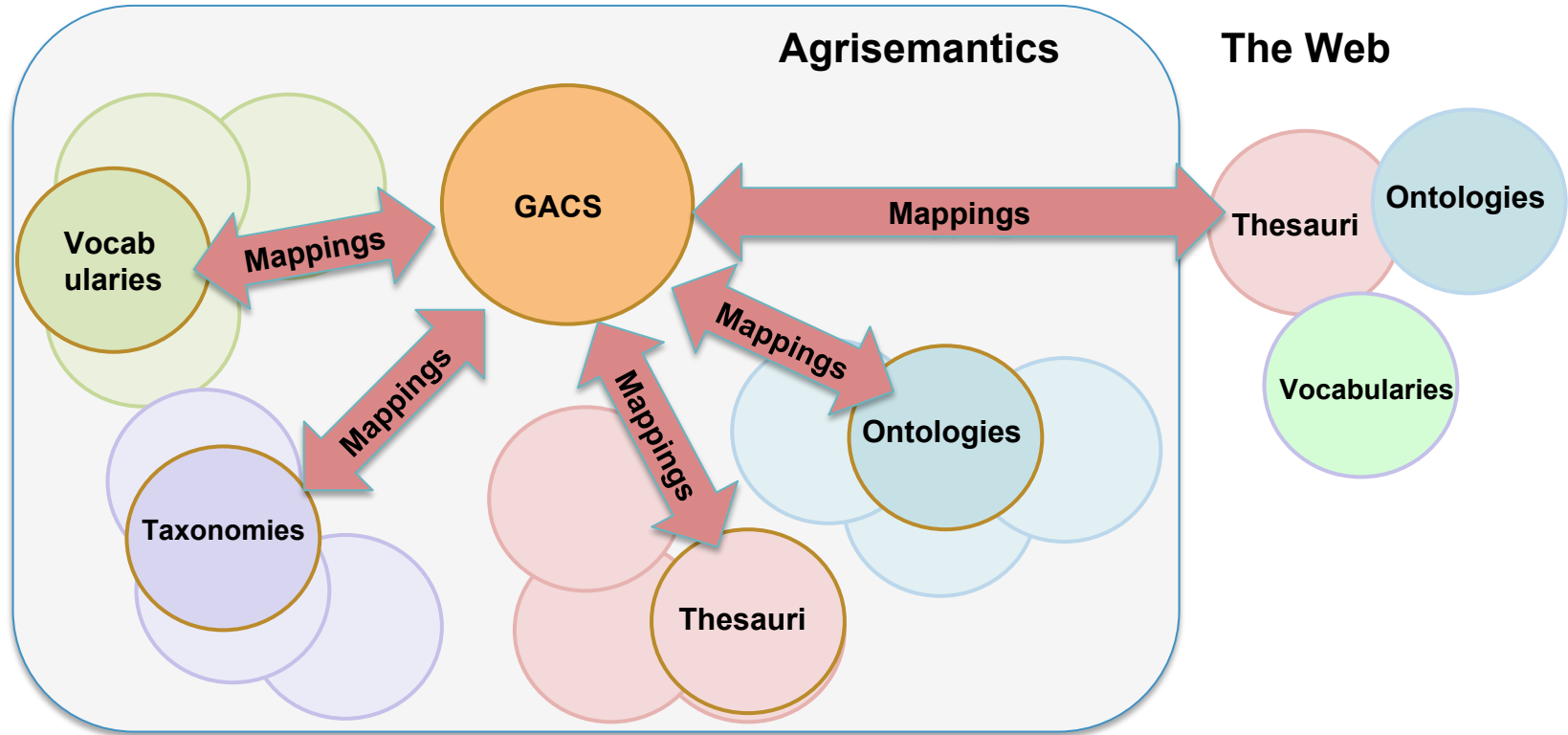
Narrower:

- *brewers grains*
- *cereal grains*
- *cereals*
- *feed grains*

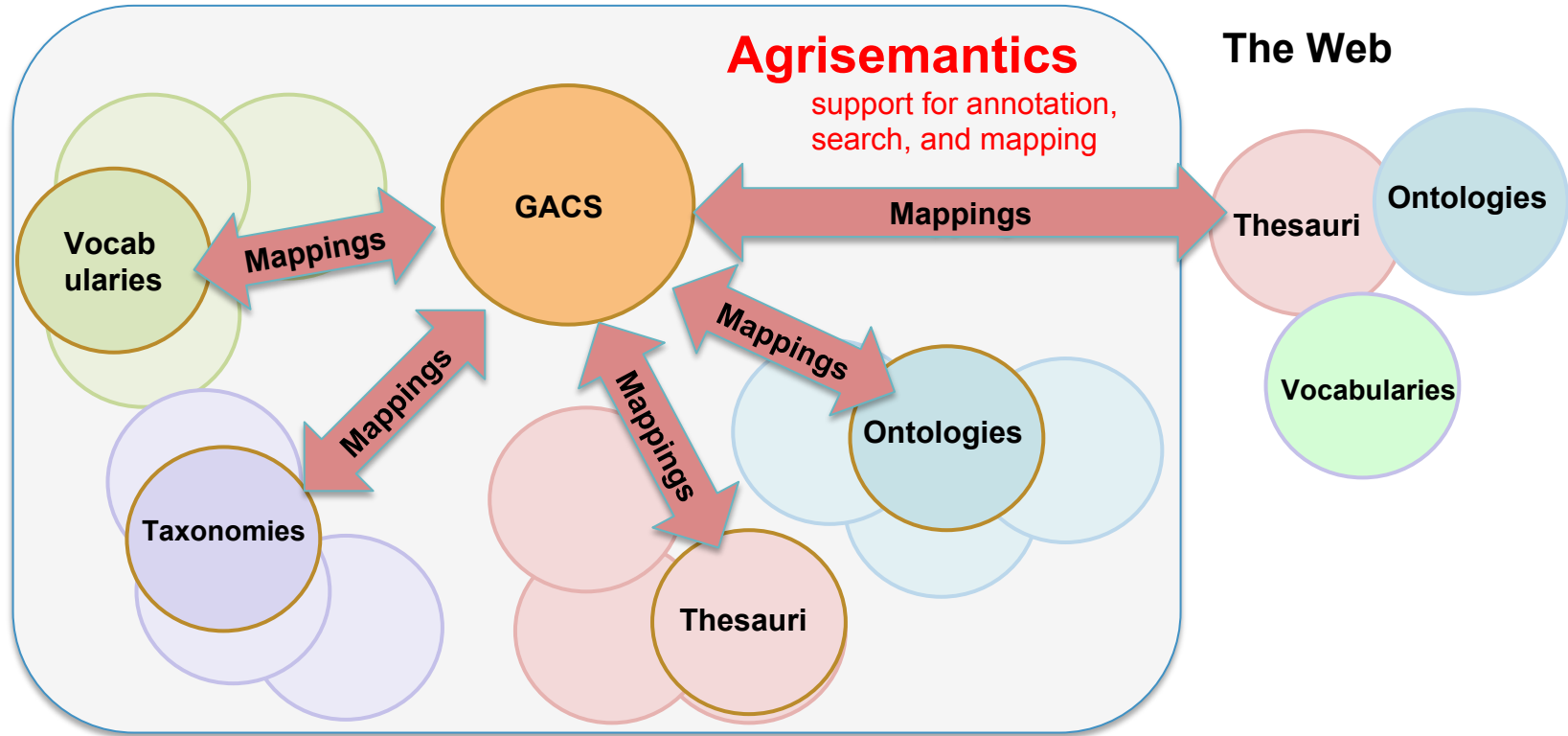
grain (Product) is related to:

- *grain crops* (Organism)

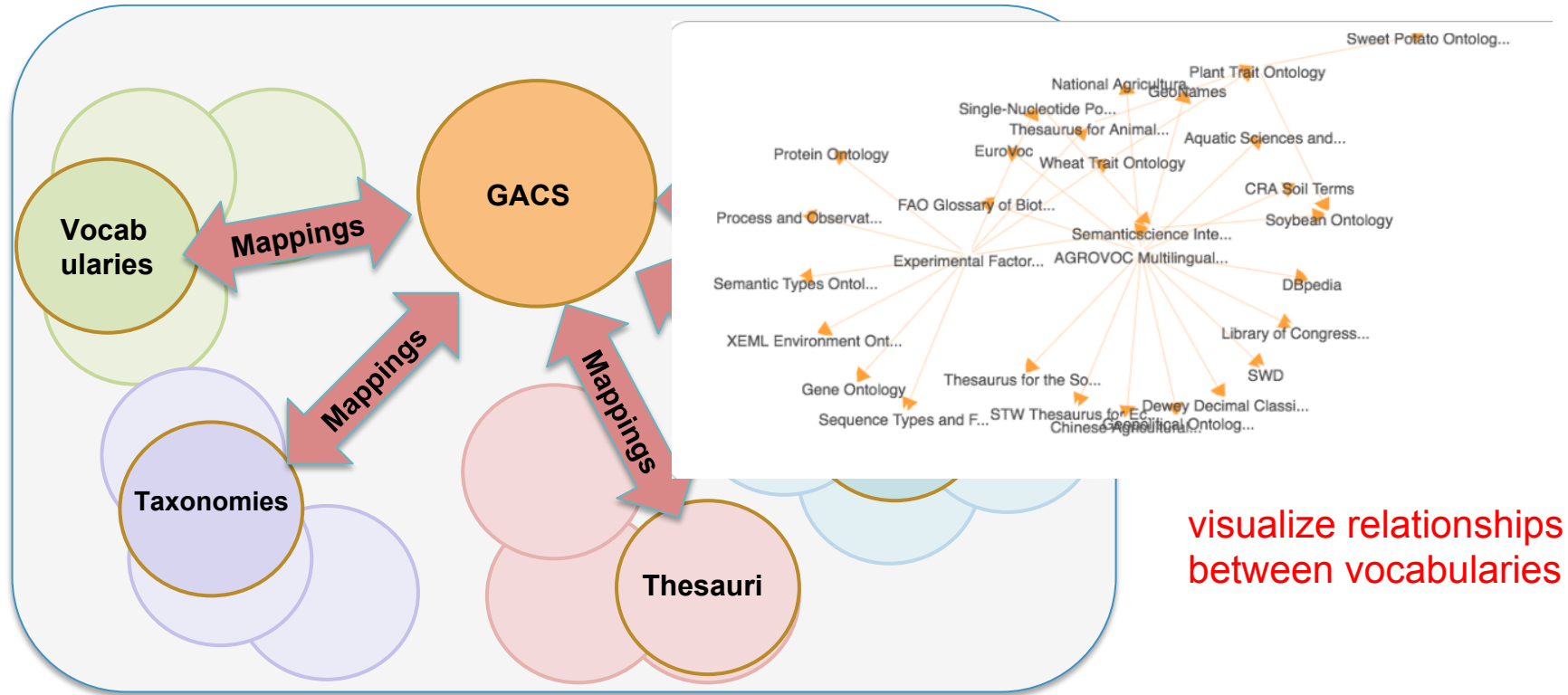
Part of a Semantic Ecosystem



Supported by AgroPortal

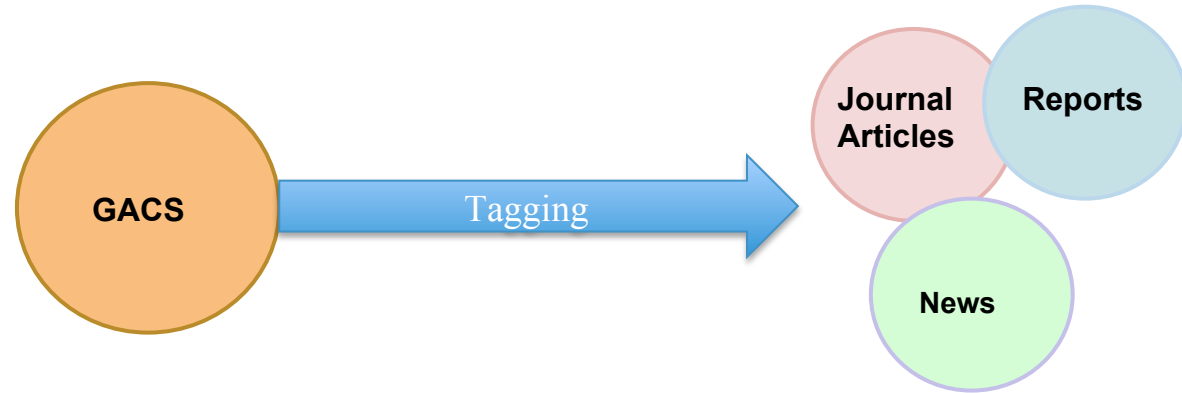


Supported by VEST Map of Standards



Used for: Tagging Literature

Search for literature
about “grain”



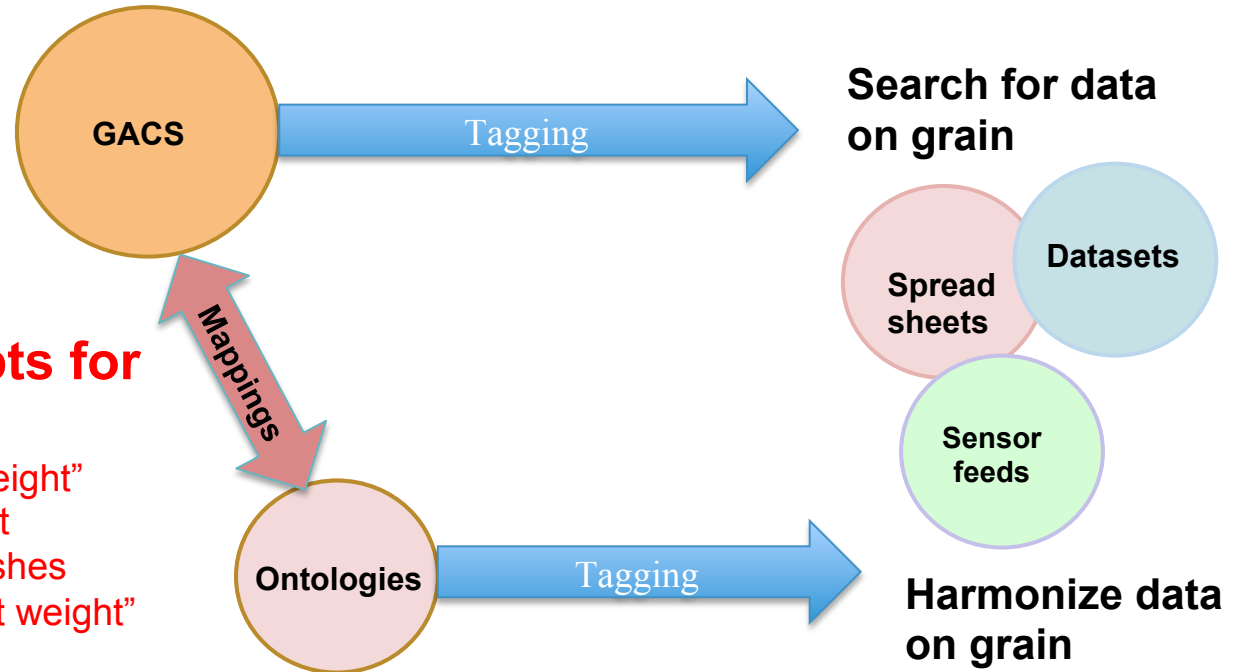
Used for: Tagging Data

Generic, commonly used concepts

- “Grain”

Specialized concepts for experts

- **Crop Ontology:** “grain weight” with units of measurement
- **Trait Ontology:** distinguishes “grain weight” versus “fruit weight” and “pod weight”



Partners

- GODAN Global Open Data for Agriculture and Nutrition
 - CABI Centre for Agriculture and Biosciences International
 - FAO Food and Agriculture Organization of the United Nations
 - NAL USDA National Agricultural Library
 - INRA Institut national de la recherche agronomique
 - Syngenta AG
 - CGIAR Consultative Group on International Agricultural Research
 - AgroPortal
-
- Organizations mapping to GACS and helping to build Agrisemantics

- <http://agrisemantics.org/gacs> more info



- #Agrisemantics

- #GACS

- #SemanticWebOfFood

- #SAC17

- @tombaker

- @godansec

this session

this conference

this speaker (me)

GODAN

