

GACS: Model and Namespace

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<http://agrisemantics.org/gacs/>

3. One GACS namespace, or many?

- Option 3a: One GACS namespace
- Option 3b: Many GACS namespaces

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Background on "namespace"

- **Namespace:** a base URI used for concept identifiers
 - <http://id.agrisemantics.org/gacs/> - namespace
 - <http://id.agrisemantics.org/gacs/C16178> - concept *gall bladder*
- **Concept scheme:** a set to which concepts belong
 - "*gall bladder* is a member of GACS Core"
 - [gacs:C16178](#) [skos:inScheme](#) [agri:gacs-core](#)

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Background: Namespace and Concept Scheme are orthogonal

- "*4-H club* in GACS namespace but not GACS Core"
 - [gacs:C21789](#) [skos:inScheme](#) [agri:gacs-nalt](#)
 - Could use this to "prune" the Core
- "*acetone* in CABT namespace and in GACS Core"
 - [cabt:4863](#) [skos:inScheme](#) [agri:gacs-core](#)
 - Possible in theory but impractical and rarely done

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Option 3a: "One GACS namespace"

GACS = set of concepts identified in GACS namespace

- SKOS concept schemes (always?) use just one namespace
- Non-GACS namespaces can fall under Agrisemantics
- Multiple namespaces problems:
 - Developers hate multiple namespaces
 - SPARQL queries must declare extra namespace prefixes
 - Set of prefixes hard to track as GACS evolves
 - Cannot know whether a given URI is "in GACS" without querying
 - Lists extracted from GACS also have multiple namespaces
 - No credible persistence for URIs in namespaces outside GACS control

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Option 3b: "Many GACS namespaces"

- GACS = concepts from many namespaces
 - URIs are a political issue
 - Organizations wanting to contribute may want to keep their URIs

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