The Core Ontology for Official Statistics (COOS)
Menu

- What is COOS?
- What can you do with it?
- Where are we?
- What is next?
What is COOS?

- A formalization of some components of the ModernStats standards using RDF/OWL
- On and off HLG-MOS activity of the since 2018
- Lead by a dedicated task team of the Supporting Standards Group
COOS objectives

- Improve formal representation of ModernStats models
- Improve model integration and coherence, avoid duplication, polysemy...
- Link to and leverage existing semantic models
  - SKOS
  - PROV
  - DCAT
  - DDI-CDI
  - Etc.
COOS team

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COOS team: how we work

• Everything on GitHub
• Virtual meetings every 3 weeks
• Discussions via GitHub issues
• Expert and external reviews
COOS deliverables

- OWL model
  - Serialized as a Turtle file
- Specification
  - HTML/ReSpec document
- URI policy
- Governance document
  - Triggered a more general reflection
What does COOS cover?

- Activities
  - GSBPM phases, sub-processes and overarching activities
  - GAMSO activity areas and activities
  - GSBPM/GAMSO individuals
  - GSIM statistical program and cycle
  - Capabilities, tasks...

- Organizations

- Products
  - Data sets of different types
What can you do with COOS?

- Look it up and query it
- Build apps on it
- Link it to other stuff
  - CSPA services
  - Tasks, quality indicators for GSBPM
  - Statistical compendium, classification of statistical activities...
- Describe processes
- Etc.
What can you do with COOS?

- Describe processes (using links between COOS and PROV-O)
What can you do with COOS?

- Describe processes

Legend:
- individual
- entity
- activity
- (predicate)
What can you do with COOS?

- Describe processes (activities view)

Diagram:
- Task
- SubProcess
- Phase
- StatisticalProductionActivity
- prov:Activity

Legend:
- individual
- activity
- subClassOf
- type
- (predicate)
What can you do with COOS?

- Describe processes (products view)
Where are we?

- URI policy and governance done
- Specification and ontology still moving
- Expert review conducted
- Developing use cases
COOS: next steps

- Public review
- Presentation to HLG-MOS
- Further evolution
  - GSIM-GSBPM links
  - Tasks
- «Metabolization» by the SSG
What can you do for COOS?

- Participate in the public review
- Suggest use cases
- Implement and provide feedback
- Contribute on GitHub
Thank you for your attention