

# The Core Ontology for Official Statistics (COOS)



Insee

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# 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

Canada	Francine Kalonji, Flavio Rizzolo
France	Franck Cotton (chair), Florian Vucko
Hungary	Csaba Abry, Zoltán Vereczkei
Italy	Adele Bianco, Paolo Francescangeli
Mexico	Juan Muñoz
Norway	Jenny Linnerud
Poland	Anna Długosz, Janusz Dygaszewicz
United States	Dan Gillman
ILO	Edgardo Greising
Eurostat	Christine Laaboudi, Luca Gramaglia
Unece	InKyung Choi



# 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

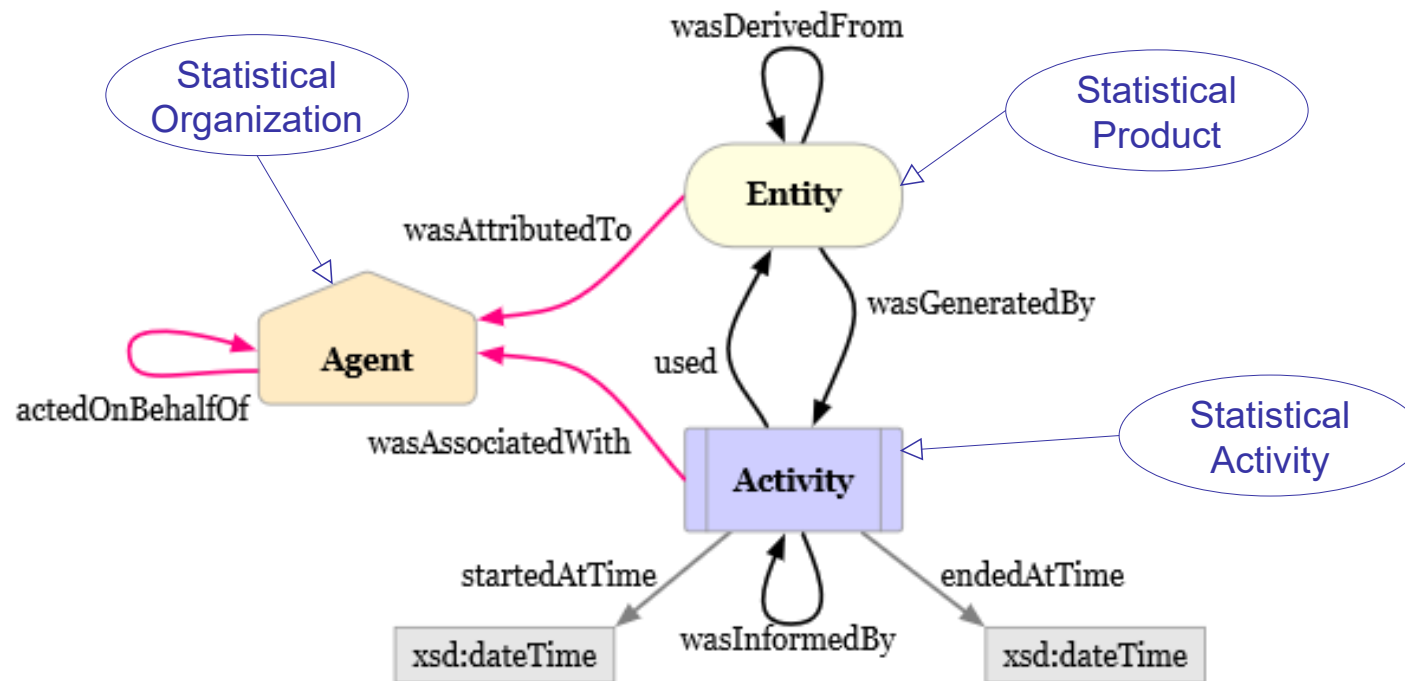


# What can you do with COOS?

- 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.

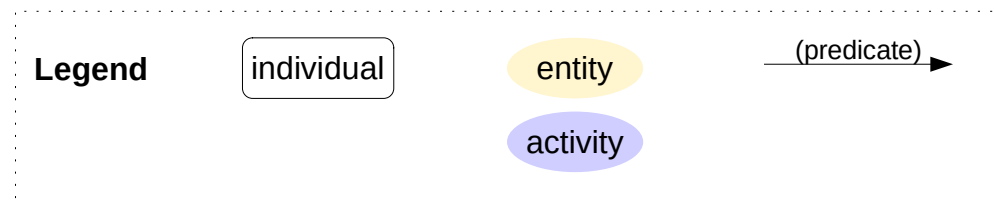
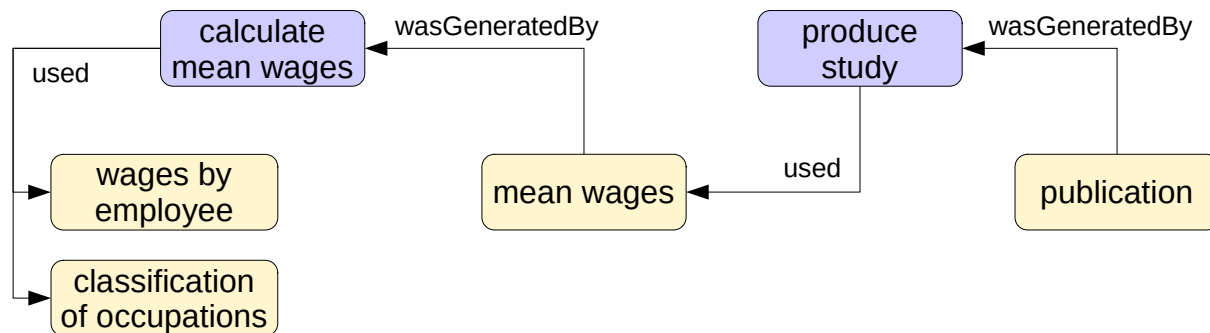
# What can you do with COOS?

- Describe processes (using links between COOS and PROV-O)



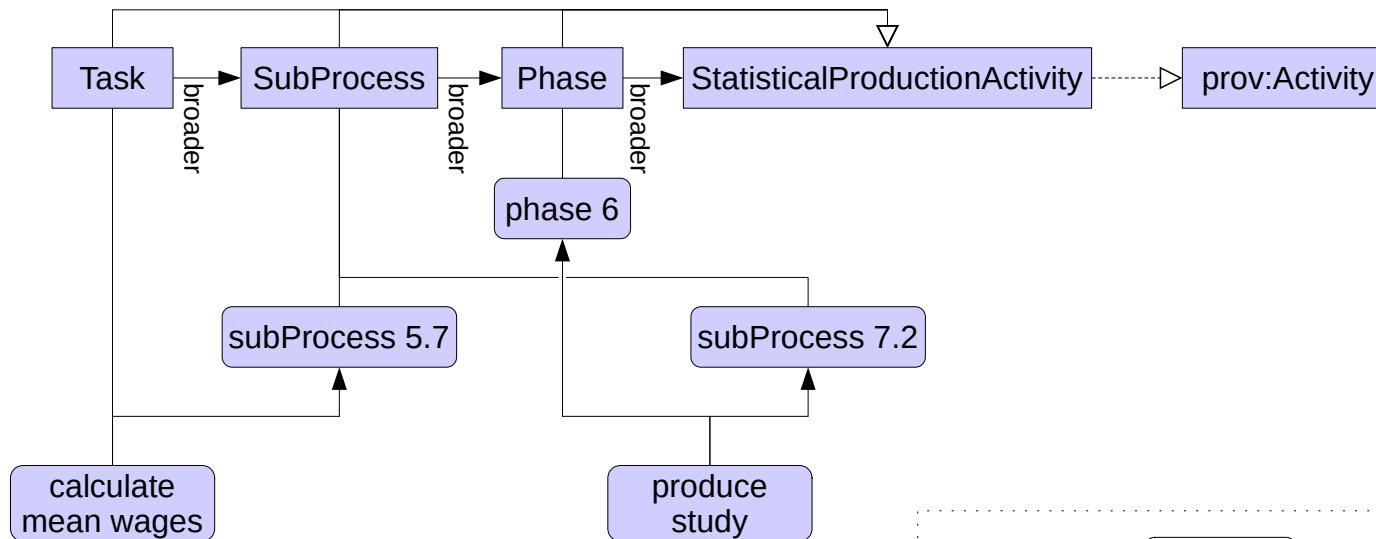
# What can you do with COOs?

- Describe processes



# What can you do with COOS?

- Describe processes (activities view)



## Legend

individual

activity

subClassOf

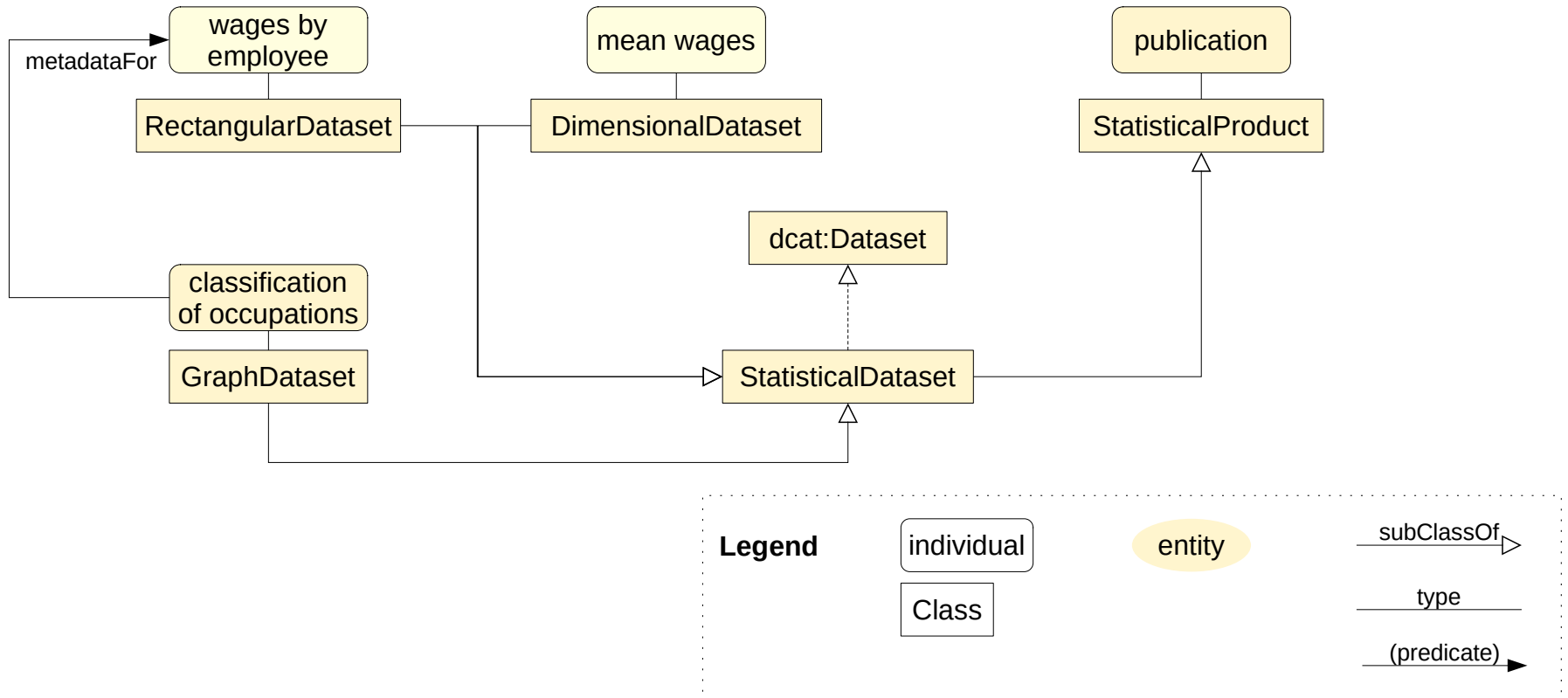
Class

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