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## Core ontology for official statistics

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### *Abstract*

An [ontology](#) provides formal naming, definitions and descriptions of the concepts of a given domain, as well as the relations between these concepts.

In the field of Official Statistics, a number of models, vocabularies or other semantic assets already exist, but they are not often formally expressed or coherent with one another.

The work on the COOS (Core Ontology for Official Statistics) aims at tackling this problem. This activity was launched by the HLG-MOS after its November 2018 meeting, and placed under the umbrella of the Supporting Standards group.

The objectives of COOS are to:

- produce a formal representation (OWL is used) of the main concepts present in the main models, especially those which are not formally modelled (GSPBM, GAMS0);
- define the relations between these concepts, in particular those who belong to different models;
- suggest relations between statistical concepts and objects defined in other ontologies.

An indirect but important objective is to constitute a community of statisticians interested by ontology design.

The COOS team started to work in February 2019 via virtual meetings on the basis of a dedicated GitHub [repository](#), with the aim of producing a first version of the COOS for the next HLG-MOS workshop.

The presentation will give an overview of the work done so far, of the main results already achieved and of the next steps that are envisioned.

### *Keywords*

Ontology, OWL, Official Statistics, model, concept, vocabularies



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