**SuMSO Imports**

Table 1 provides a list of the ontologies from which the SuMSO ontological module reuses or adapts classes and object properties (2024-12-05). Table 2 provides a list of additional ontologies judged useful for implementing the SuMSO ontological module.

Table 1. The ontologies reused to construct the SuMSO ontological module.

|  |  |  |  |
| --- | --- | --- | --- |
| Ontology | Ontology Acronym | Repository/Homepage | BFO Compliance |
| Agronomy Ontology | AgrO | <https://bigdata.cgiar.org/resources/agronomy-ontology/> | Yes |
| Common Core Ontologies | CCO | <https://www.ontologyrepository.com/> | Yes |
| Addiction Ontology | ADDICTO | <https://addictovocab.org/> | Yes |
| An ontology of core ecological entities | ECOCORE | <https://github.com/EcologicalSemantics/ecocore> | Yes |
| BioAssay Ontology | BAO | <http://bioassayontology.org/> | Yes |
| Environmental Ontology | EnvO | <https://sites.google.com/site/environmentontology/> | Yes |
| Experimental Factor Ontology | EFO | <https://www.ebi.ac.uk/efo/> | Yes |
| Food Ontology | FoodOn | <https://foodon.org/> | Yes |
| Gender, Sex, and Sexual Orientation ontology | GSSO | [https://gsso.research.cchmc.org/#!/#%2Fhome](https://gsso.research.cchmc.org/#%2Fhome) | Yes |
| Industry Foundry Ontology | IOF | <https://ontocommons.eu/initiatives/industry-ontology-foundry> | Yes |
| Information Artifact Ontology | IAO | <https://github.com/information-artifact-ontology/IAO/> | Yes |
| NCBITaxon Ontology | NCBI taxon | <https://github.com/obophenotype/ncbitaxon> | Yes |
| NCI Thesaurus OBO Edition | NCIT | <https://github.com/NCI-Thesaurus/thesaurus-obo-edition> | No |
| OBO Relation Ontology | RO | <https://oborel.github.io/> | Yes |
| Occupational Ontology | OccO | <https://github.com/Occupation-Ontology> | Yes |
| Ontology for Biomedical Investigations | OBI | <https://obi-ontology.org/> | Yes |
| Ontology for Modeling and Representation of Social Entities | OMSE | <https://github.com/mcwdsi/OMRSE> | Yes |
| Phenotype And Trait Ontology | PATO | <https://github.com/pato-ontology/pato/> | Yes |
| PO2/TransformON | PO2/TransformON | <https://agroportal.lirmm.fr/ontologies/TRANSFORMON?p=summary> | Yes |
| Sustainable Development Goal Interface Ontology | SDGIO | <https://github.com/SDG-InterfaceOntology> | Yes |
| Uber-anatomy ontology | UBERON | <https://obophenotype.github.io/uberon/> | Yes |
| Vaccine Ontology | VO | <https://violinet.org/vaccineontology/> | Yes |

Table 2. A list of additional ontologies judged useful to implement SuMSO.

|  |  |  |  |
| --- | --- | --- | --- |
| Ontology | Ontology Acronym | Repository/Homepage | BFO Compliance |
| AGROVOC Multilingual Thesaurus | AGROVOC | <https://www.fao.org/agrovoc/> | No |
| Animal Health Surveillance Ontology  Health Surveillance Ontology and Animal Health Ontology | AHSO  HSO  AHO | <http://datadrivensurveillance.org/ahso/>  <http://datadrivensurveillance.org/ontology/> | No  yes |
| Ecosystem ontology | ECSO | <https://ec.europa.eu/esco/lod/static/model.html> | No |
| Environment Exposure Ontology | ECTO | <https://github.com/EnvironmentOntology/environmental-exposure-ontology> | Yes |
| Exposure Ontology | ExO | <https://github.com/CTDbase/exposure-ontology> | Yes |
| GEneral Multilingual Environmental Thesaurus | GEMET | <https://www.eionet.europa.eu/gemet/en/about/> | No |
| Livestock Ontologies | ATOL-AHOL-EOL | <https://www.atol-ontology.com/en/erter-2/> | No |
| Livestock Product Trail (LPT) Ontology | LPT | <https://www.animalgenome.org/bioinfo/projects/lpt/> | No |
| Ontologies from the Behavioural and Social Sciences Ontology (BSSO) Foundry | BSSO | <https://www.bssofoundry.org/> | Yes |
| Pesticide Ontology | PestOn | <https://github.com/marco-medici/peston.git> | Yes |
| Plant Ontology | PO | <https://browser.planteome.org/amigo> | Yes |
| POLARISC Ontologies | POLARISCO | <https://github.com/LindaElmhadhbi/POLARISCO> | Yes |
| Population and Community Ontology | PCO | [PopulationAndCommunityOntology · GitHub](https://github.com/PopulationAndCommunityOntology) | Yes |
| Semantic Web for Earth and Environment Technology Ontology | SWEET | <https://github.com/ESIPFed/sweet/blob/master/README.md> | No |
| Socio-economic Ontology | SEOnt | <https://github.com/AgriculturalSemantics/SEOnt.git> | Yes |
| Soil Food Web Ontology | SFWO | <https://agroportal.lirmm.fr/ontologies/SFWO> | Yes |
| Soil organic carbon storage and agricultural practices modeling | CSOPRA | <https://agroportal.lirmm.fr/ontologies/CSOPRA> | yes |
| Sustainable Development and Climate Ontology | SDC Ontology | <https://github.com/hbabaie1/Sustainable-Development-and-Climate-SDC-ontology> | Yes |
| Thesaurus for Animal Physiology and Livestock Systems | TRIPHASE | <https://agroportal.lirmm.fr/ontologies/TRIPHASE> | No |
| Thesaurus to define land management practices in agriculture and forestry for soil carbon storage | DATA4C+ | <http://data4c-plus.net/admin/thesaurus/index> | No |
| Toronto Ontologies | TOVE | <https://eil.mie.utoronto.ca/theory/enterprise-modelling/tove/> | No |