

OEO Developer Meeting #36

Pads:

- Notes from last meeting: <https://etherpad.wikimedia.org/p/oeo-dev-35>
- Pad to this meeting: <https://etherpad.wikimedia.org/p/oeo-dev-36>
- Pad for next meeting: <https://etherpad.wikimedia.org/p/oeo-dev-37>

Date: 05.05.2022

Participants:

- moderator: Eugenio
- main reporter: Mirjam
- next meeting organiser: Lukas
- developers with affiliation:
 - Eugenio (DLR)
 - Mirjam (IEE)
 - Martin (OvGU)
 - Janna (OvGU)
 - Markus (OVGU)
 - Lukas (Öko)
 - Vera (IER) just for the first hour
 - Christoph (RLI)
 - Ludwig (RLI)
 - Carsten (DLR)
 - Adel (OvGU)

Preparation:

- Read last protocol: <https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings>
- Check issues for next release: <https://github.com/OpenEnergyPlatform/ontology/milestones>
- Load software (GitHub, git, Protégé, DFN)

Agenda:

- **Good practise: Please work quickly on a Pull Request !**
 - There is many pull request open!
 - Problems during implementation should not be that common. Normal issues should be discussed during the issue.
 - Leave current PRs open for release
- **Extending OEO with terms from the Climate Ontology [CHK]**
 - <https://mmisw.org/ont/cf/parameter>
 - see Email by CHK and response from FN
 - Climate Ontology doesn't apply BFO --> we'd need to classify terms ourselves
 - Brainstorm which terms to consider
 - Seperate dev-meeting?

- New issues related to terms will be opened
- **Extending OEO with terms from statistics ontology (STATO) [CM]**
 - <http://stato-ontology.org/> (~900 classes / 70 properties)
 - STATO relies on BFO as top level ontology & OBI as mid level ontology
 - whole vs subset?
 - whole is easy -> add import to oeo-shared
 - subset -> follow module extraction approach, terms for inclusion -> use robot to implement
 - robot -> with implementation any manual edits/changes of imported ontologies (mostly RO axioms&ranges[possible solution -> edit in oeo-shared]) are overwritten -> fix that before
 - potential problem with ontology import: overlap of ontology definitions
 - any content overlap with different definitions
 - do import whole or subset
 - new issue with a collection of terms from STATO [CM]
- **Individuals without definition**
 - <https://github.com/OpenEnergyPlatform/ontology/issues/859>
 - LH takes care of the issue
- **"Please cite as" recommendation [LE]**
 - <https://github.com/OpenEnergyPlatform/ontology/issues/1095>
 - use CITATION.cff
 - <https://docs.github.com/en/repositories/managing-your-repositorys-settings-and-features/customizing-your-repository/about-citation-files>
 - <https://github.com/citation-file-format/citation-file-format/blob/1.2.0/schema-guide.md>
 - Options to cite the repository:
 - 1. Citing the paper
 - 2. Citing all authors (someone et.al)
 - 3. Citing the developer team (OEO-DEV)
 - Cite a class from the OEO:
 - URI <https://obofoundry.org/docs/Citation.html>
- **Update on automated annotation for module identification [AS, JH]**
 - <https://github.com/OpenEnergyPlatform/ontology/issues/870> #870
 - Basically done, but 1 Problem spotted which can be solved
- **inverses / "input of" / "output of" hurt monohierarchy [MR, JH]**
 - core problem: no relation that connects 2 processes exists
 - new RO relations need to be imported, manually or automatically?
 - Idea: MR imports manually, fixes several issues --> after release a proper RO module will be created
 - with respect to monohierarchy: can we remove "functionally related to" from the OEO
- **`primary energy carrier disposition` [MS, LE] --> discuss again next meeting**
 - <https://github.com/OpenEnergyPlatform/ontology/issues/1032>
 - Question: Are the following portions of matter "primary energy carriers"?
 - def: *disposition of material entities that are extracted directly from natural resources or that are natural energy flows.*
 - air --> add primary energy carrier dispositions
 - compressed air --> secondary energy carrier

- add a class "atmospheric air? air in natural environment? open air under atmospheric conditions"
 - *Def: xxx is air that is in natural environment.?*
- water body --> add primary energy carrier dispositions
- steam --> add secondary energy carrier dispositions
- ~~nuclear fuel or~~
 - uranium --> primary energy carrier disposition
 - thorium --> primary energy carrier disposition
 - plutonium --> secondary energy carrier disposition
- can we find a more general solution than just introduce more subclasses?
- **Restructure biofuel --> discuss next meeting**
 - <https://github.com/OpenEnergyPlatform/ontology/issues/872>
 - Definition of sustainable/sustainability is not yet resolved
- **Competency Questions as queries [EA]**
 - Roughly related to : <https://github.com/OpenEnergyPlatform/ontology/issues/492>
 - How viable is test driven development in the context of the ontology?
 - theoretical steps:
 - Create an instance of a triplestore database like apache Jena
 - Alternatively using a neo4j graph with neosemantics but I haven't been successful in loading the ontology there because of format issues (I haven't tried in Jena either)
 - Load the ontology as a base data model into the database
 - Create a test framework based in something like pytest where queries using the ontology are implemented.
 - Test would be query - expected result pairs.
 - Discuss with Martin / OvGU
- **JOWO Workshop**
 - short abstract / paper deadline 3rd of June
 - <https://ensusto.github.io/jowo2022/>
 - ideas: sustainability, energy + axioms from RO
 - 3-5 pages

- Where to place measurement devices [CHK] artificial object?

As a separate class parallel to e.g. energy converting component?

continuent-> independent continuant > material entity -> object->artificial object -> measurement devices.....

- OEFamily Steering Committee
 - <https://github.com/OpenEnergyPlatform/organisation/issues/50>

feature-979-absence-inverses