OEO Developer Meeting #48

Pads:

- Notes from last meeting: https://etherpad.wikimedia.org/p/oeo-dev-47
- Pad to this meeting: https://etherpad.wikimedia.org/p/oeo-dev-48
- Pad for next meeting: https://etherpad.wikimedia.org/p/oeo-dev-49

Date:

Participants:

- Moderator: Christoph
- · Main reporter: Mirjam
- · Next meeting organiser: Ulf
- Developers with affiliation:
 - Christoph (RLI)
 - Lukas (Öko)
 - Ludwig M (TUM)
 - Mirjam (OVGU)
 - Ulf (IEE)
 - Eugenio (DLR)

Preparation:

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

Agenda:

Announcement

Organisational

- Template Example Topic [Name]
 - https://github.com/OpenEnergyPlatform/ontology/wiki/oeo-devmeeting-etherpad-template
 - · Note and comment
- Ontology LNG contacted Martin for collaboration
 - · Ludwig H follows up
- OEO dev meeting 47 is not yet archieved in the wiki --> EA
- language lables (@en, @de)
 - we once decided not to use them / remove them
 - why is it problematic?

- sometimes set automatically -> set to @de -> this should be corrected
- removing them additional work
- if we decide to go multi-lingual at some point, language labels will be necessary
 - · script could add automatically in future
- check your setting in protege
 - Protege sometimes ignores language settings
- are sometimes added automatically by protege --> any solution?
 - remove language labels when reviewing pull requests
- new decision:
 - during review:
 - remove @de labels in review when it is allocated to english term
 - · leave @en
- Some concept definitions are quite technical
 - possbility to extend concepts by more simplified/accessible definitions?
 - Yes -> as AnnotationProperty
 - · Other option: Extension in module
 - [TODO] collect examples @LH
- · Reviews
 - · update and specify processes
 - · also check for language labels and remove them if @de
 - · wiki / contributing.md unspecific number / qualification of reviewer
 - https://github.com/OpenEnergyPlatform/ontology/issues/1106
 - https://github.com/OpenEnergyPlatform/ontology/wiki/Pull-requestworkflow
 - https://github.com/OpenEnergyPlatform/ontology/blob/dev/ CONTRIBUTING.md
 - [TODO] LE and MS prepare something for the next meeting
- OEO 1.12.0 not available in OEMetabuilder annotation tool @Adel
 - Terms from the latest OEO release (1.12.0) are missing i.e., not available in the drop-down menu.
 - https://openenergy-platform.org/dataedit/oemetabuilder/
 - @CM contact Adel, check in Wiki, what has to be updated

Release

Release v1.13. scheduled for 2023-02-01

OEO Classes

spatial context information [LM]

- https://github.com/OpenEnergyPlatform/ontology/issues/1379
- Original use case: data set with passenger-kilometres for NUTS1 regions. Pkm were given as a "pkm-inner" (referring to pkm from traffic entirely within the NUTS1 region) and "pkm-inter" (referring to pkm from traffic that crosses the boundary of the NUTS1 region).
- goal: distinction between "within a spatial boundary" and "crosses a spatial boundary"
- · Only for processes or also for objects like electricity grid?
- · Distiguish between inner and within?
- Modellierung als object property?
- Use cases: transport, energy balancing
- · check RO for properties
 - has start location: x 'has starts location' y if and only if there exists some process z such that x 'starts with' z and z 'occurs in' y
 - has end location: x 'has end location' y if and only if there exists some process z such that x 'ends with' z and z 'occurs in' y
- we might be confronted with OWL limitation, because variables are not depictable in OWL: start location != end location is not possible
- <u>last status:</u> think about implementation as object property vs process attribute
- Composed module:
 - https://github.com/OpenEnergyPlatform/ontology/issues/1328
 - Typical problem
 - Fabian talked to Janna
 - Example:
 - energy consumption
 - · located in
 - germany
 - 1) introduce concepts that belong together as new concepts, define as equivalent concepts
 - if it gets too large, tools might be überfordert
 - · might be too
 - in seperate module
 - 2) on-the-fly-anntation: tool to enable people to compose there own compositions in MAN syntax
 - · maybe omit quantoren, e.g. some, all
 - · aim: well-defined owl class
 - HACK
 - reduce relations
 - domain and range
 - · if between domain and range only a specific relation is possible
 - than a tool could be written that adds relation to sole concepts
 - user annotates
 - energy consumption value (has axiom: has spatial region)
 - germany

- -> axiom is added by tool
- Task: "isAbout" relation has to be replaced by more specific relations
- potential funding for tool
 - NFDI4energy/ing
 - @CM check in SEDOS
 - DKZ
 - place in own project
- <u>last status:</u> undecided, both options are ressource-intensive and little user-friedly. Currently, slight preference to Option 1)
- transport mode via modal split [LM]
 - https://github.com/OpenEnergyPlatform/ontology/issues/1276
 - What is a transport mode?
 - · No clear definitions in literature
 - Modes used in modeling are almost unique for every model i.e. everyone defines modes depending on their own needs
 - A list of somewhat common/recurring modes is in the issue
 - Used in modeling to distinguish different types of transport. Common attributes for distinction:
 - transported "object": passenger or freight
 - · organisation: public or private
 - transport medium: road, rail, air, or water
 - · national or international
 - vehicle type: small, medium, or big/heavy vehicle (especially for trucks)
 - short, medium or long distance
 - Is there a difference between transport modes and subclasses of transport?
 - Both characterize transport further
 - freight transport has a subclass fuel transport. Is that a transport mode as well?
 - Isn't that a special kind of freight transport? Yes, it is.
 - Analogy to sectors?
 - Can we import stuff from trasport ontologies?
 - LMs search wasn't successful for OEO purposes
 - <u>last status:</u> propose definitions in issue and check if this is viable during dev process
- Regions specific
 - are included via other ontologies, which are not imported in OEO
 - https://github.com/OpenEnergyPlatform/ontology/issues/1336
 - include in oemetabuilder as dropdown options
 - use cases: metadata, OEKG
 - potentially update oemetadata, add more fields for spatial field
 - related to this: module structure disussion
 - last status: pick up in next dev meeting

- Template Ontology Workspace (use for joint development) [NAME]
 - · Add issue link
 - Collect related terms
 - · Create an aristotelian definition
 - Find axioms

OEKG

- Small BFO understandment quesion [EA] --> needs Imput from FN
 - How to deal with aggregates?
 - Example: "The energy demand of vehicles in germany"
 - We could model the class of vehicles in germany but not the "Vehicle park" of germany.
 - Open new issue -> [EA]

Other Topics

Collection of Tasks:

• Add something @A