OEO Developer Meeting #38

Pads:

- Notes from last meeting: https://etherpad.wikimedia.org/p/oeo-dev-37
- Pad to this meeting: https://etherpad.wikimedia.org/p/oeo-dev-38
- Pad for next meeting: https://etherpad.wikimedia.org/p/oeo-dev-39

Date: 02.06.2022

Participants:

- moderator: Mirjam & Hannah
- main reporter: Volker
- next meeting organiser: Janna
- developers with affiliation:
    - Lukas (ÖI)
    - Hannah (ÖI)
    - Markus (OVGU)
    - Alexander (OvGU)
    - Mirjam (IEE)
    - Volker (IEE)
    - Linda (IEE)
    - Ludwig (RLI)
    - Vera (IER)
    - Janna (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)

Agenda:

- Small introductory round for Linda and Volker - welcome!
- Next Meeting organiser

    Janna volunteers

- Template for releases can be adressed in today's meeting

General (Note: this meeting has less participants, possibly move to one with more participation?)

- Follow-up from last dev-meeting
- Template for pull requests

- https://github.com/OpenEnergyPlatform/ontology/pull/1162
- Pull Request for a template for a pull request
- Checkboxes are extra work and are not used (see Issue)
- benefit from well structured checklist, development of the workflow is most important
- Number of tasks uses the checkliste
- avoid extra work at reviewer with reminding for forgotten actions
- few people involved with the implementation, keep hurdles low
- Can information for the checklist be included or magically taken from the commit message?
  - Magically add via https://espanso.org/ (text-expander)
  - seems like a viable solution
- Action: Markus will draft a Wiki Article on the text-expander then proceed with this workflow
- Ludwig requires current ? checklist for reviewers
- Update the wiki page and link in the template
- small workshop for "newbie" implementers
- Smaller Breakout Group will take discussion forward: Lukas, Markus, Ludwig
  - Markus will plan and schedule a date

JOWO Papers

Paper on ontological representation of energy for JOWO (ms, le, lh, hf)

- general class axioms: (Mirjam)

  https://github.com/OpenEnergyPlatform/ontology/issues/1159

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  - named label "fissible" for class would be preferred over an anonymous / equivalent class
    - bearer of nuclear binding energy
    - can be used to split materials
    - create equivalent class "fissible material entity": 'material entity' and 'has disposition' some 'nuclear energy carrier disposition'
- energy SOMERELATION energy carrier disposition: (Lukas) https://github.com/OpenEnergyPlatform/ontology/issues/1167 (1166?)
  - relationship between energy carrier and energy - rephrased in words?
    - a thing that can be touched and carry energy, can have numerous dispositions
  - more general class may solve the issue?
  - Is there a relation at all, would imply an "energy ball"
  - If relation shall be used, select a term and use the description for clarification
  - Proposal for an anonymous class: 'material entity' and ('bearer of' some energy) SubClassOf 'has disposition' some 'energy carrier disposition'
    - may be visualised with dotted line around material entity and relation "has bearer" with relation to energy

"SIROP" related

- **Scenario projection (Hannah):**
  - https://github.com/OpenEnergyPlatform/ontology/issues/970
  - Paper in progress
  - "Something is projected into the future" means use of quantitative assumptions

- - Projection may be a process
    - Start new scenario or select a scenario that already exists
    - translate assumption into quantitative dataset as input for model calculations
    - Output
    - Plotting results and produce report
  - Intentional process
  - Idea: projection comparison is quantitaive vs. scenario comparison is qualitative?
  - Scenario selection of inputs involves human choices
  - Intentionality refers to the purpose or question by principal
  - Choice of data sets that will be used is also human interaction
  - distinction between model calculation and scenario projection is an intention driven process
  - Action: Hannah is writing a plain description

- Scenario in OEO: *A scenario is an information content entity that contains statements about a possible future development based on a coherent and internally consistent set of assumptions and their motivation.*

- Scenario projection as a process:
  - 0. Scenario-creation / scenario-selection (input to the projection process)
  - 1. The translation of assumptions into data sets.
  - 2. The data prepocessing
  - 3. The model calculation(s)
  - 4. The data postprocessing

  Further steps that might be also part of the projection (process): 5. Plotting of projection results into diagrams 6. Describing the scenario-creation / scenario-selection and the projection process in the study report.

Scenario projection suggested description: A scenario projection is an intentional process (with human participation): A scenario is either created or selected, its assumptions are translated into data sets. These datasets are quantified and serve as inputs to a model calculation which is applied to quantitatively project one or more a variables of interest into the future.
(Intentional: a research question is basis for the projection to be done)

Suggested definition: A scenario projection is an intentional process in which output data of interest are quantified for future points in time using some model(s) calculation(s) applied to a scenario.

Example: How do future GHG emissions evolve in a world where current policies and measures are continued, GDP grows strongly, population increases slowly , and fuel prices remain at high levels.
Process of translating a verbal assumption into a numerical representation in a scenario.
Time scale is an import dimension (target year / base year / year of projection (now)
-> continue next meeting

* Meeting concludes

- **Model calibration / parametrisation:**
  - https://github.com/OpenEnergyPlatform/ontology/issues/1040

    Is there a common term which modellers commonly use that describes the setting the parameters / assumptions in their models in a way so that they reflect the narrative of a scenario?

    In German we use usually the phrase "ein Modell für eine Szenario parametrisieren", but I don't know whether the word by word translation "to parameterise a model for a scenario" is used in English-speaking modellers in the same way.

From OEO DEV 37:

- **Measurement device (from OEO dev 36)**
  - As a separate class parallel to e.g. energy converting compontent?
  - continuent-> independet continuant > material entity -> object->artifical object -> measurement devices.....

- **Classification of non-pure liquid fuels [LE]**
  - Liquid mixture or organic compound?
  - biodiesel, biogasoline, crude oil, gas diesel oil, gasoline, kerosene

- **Restructure biofuel [LE]**
  - https://github.com/OpenEnergyPlatform/ontology/issues/872
  - Definition of sustainable/sustainability is not yet resolved

- Term trackers:
  - include issue or not?
- Template - Example Topic [Name]
  - https://github.com/OpenEnergyPlatform/ontology/wiki/oeo-dev-meeting-etherpad-template
  - Note and comment
- Template - Ontology Workspace (use for joint development) [NAME]

- Issue-Link
- Collect related terms
- Create an aristotelian Definition
- Find Axioms
- ...

Collection of tasks: