

## OEO Developer Meeting #33

### Pads:

- Pad to this meeting: <https://etherpad.wikimedia.org/p/oeo-dev-33>
- Pad for next meeting: <https://etherpad.wikimedia.org/p/oeo-dev-34>
- Notes from last meeting: <https://etherpad.wikimedia.org/p/oeo-dev-32>

**Date: 24.02.2022, 10:00 -- 12:00 a.m.**

### Participants:

- moderator: VS
- main reporter: Ludwig and Eugenio
- next meeting organiser: Christoph
  
- All participants with affiliation:
  - Ludwig (RLI)
  - Christoph (RLI)
  - Vera (IER)
  - Kai Schnepf (IER)
  - Mirjam (Fraunhofer IEE)
  - Lukas (Öko-Institut)
  - Hannah (Öko-Institut)
  - Janna (OvGU)
  - Martin (OvGU)
  - Alex (OvGU)
  - Carsten (DLR)
  - Eugenio(DLR)

### 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:

- Feedback from the OEO-SC [LH]
  - Status
  - Ressources
  - Taxonomy -> working group with OEO-SC
    - A. Rakic + KG + MS + LH + CHK

- New Workshop on OEO development [MS]
  - Is there a need for a new workshop on OEO development?
  - Announce a new workshop
  - JOWO 2022
    - <https://thegraphlounge.com/event/jowo-2022-the-joint-ontology-workshops-2022/>
  - Topic should be "How to develop the OEO":
    - Git Workflow
    - Write good definitions
    - Define the axioms
    - BFO basics
  - Target: e.g. SEDOS, new developers, outside
  - Harmonise with SIROP trainings
  - Plan a workshop after Easter
- Annotation properties [JH]
  - <https://github.com/OpenEnergyPlatform/ontology/issues/617>
  - missing RO axioms
  - follow up issue by Lukas (maybe discussed in next meeting)
- Publish in Open Data cloud (OnToology) [MG]
  - <https://github.com/OpenEnergyPlatform/ontology/issues/25>
  - postponed to the next meeting
- Automated annotation for module identification [MG, AS]
  - <https://github.com/OpenEnergyPlatform/ontology/issues/870>
  - automated annotation for module identification -> intermediate result
  - work in progress
  - ontology about OEO to depict current state of modules
  - 2nd step: check automatically if state is still correct
  - update the GitHub issue
- Development philosophy of the OEFamily [LH]
  - Atomic commits, frequent PRs
  - Release early - release often -> Push at end of the day
  - <https://github.com/OpenEnergyPlatform/ontology/blob/dev/CONTRIBUTING.md>
  - Write a short summary of the "Community Philosophy" for the repos @LH
- Structuring Solar Meteorology [CHK]
  - <https://github.com/OpenEnergyPlatform/ontology/issues/1031>
  - Structuring solar meteorology terms
  - Presentation on topic

- How to model the combinatorics (variant x component x incident surface)?
  - irradiance, solar radiation is a process
  - irradiation is a continuant and a quantity value
  - component - attribute or parts?
  - incident surface - attribute
  - Direct radiation, Diffuse radiation, global radiation as subclasses of Solar radiation
    - These are differentiated by how you measure them and how you use them ex. Solar Panels
  - Incident surface (Horizontal, normal, tilted): device or surface which bears the attributes
  - new class surface which has these attributes
  - radiated surface is a material entity which receives solar radiation
  - example: can be the surface of the ground or of a device
  - radiated surface has property: surface orientation
  - surface orientation has subclasses: Horizontal, normal, tilted, tracking
  - surface orientation has properties: orientation angles
  - Carsten puts the comments on the GitHub Issue and creates sub issues
- Next release 1.9.0 on March 1st!
    - <https://github.com/OpenEnergyPlatform/ontology/milestone/10>
    - 10 open issues
    - Alex will support
    - Christoph talks to Ludwig how RLI can support
    - Mirjam will make a release walkthrough
- Definition of projection [MS]
    - <https://github.com/OpenEnergyPlatform/ontology/issues/970>
      - Summary: To distinguish Projection from Scenario.
      - Different from forecast and prediction.
    - maybe also look at 'calibration' issue while discussing?
    - <https://github.com/OpenEnergyPlatform/ontology/issues/1040>
    - postponed to the next meeting, because there are new comments from this morning
- OEO and Metadata 1.5: new terms from OEP users that want to annotate their data [LH]
    - 2 ways:
      - 1. annotate the data in the metadata (see poster)
        - <https://next.rl-institut.de/s/Ngaqi4dq3YTizM3>
      - 2. translate metadata in OEO and RDF
        - <https://github.com/OpenEnergyPlatform/oemetadata/issues/58>
    - -> postponed to next meeting

- OEO in practice: How to describe a composed concept in practice? [Christoph]
  - e.g. -> 11.7 fundingAgencyLogo -> <https://github.com/OpenEnergyPlatform/oemetadata/issues/58>
  - Just classes vs classes & object properties vs OEKG?
  - Handle the metadata terms case by case when necessary
- Projection - <https://github.com/OpenEnergyPlatform/ontology/issues/970> [MS]
  - discuss term projection
  - related terms: scenario, scenario analysis, outlook, projection, scenario projection, (prediction/forecast)
  - what we have: **scenario**:
    - *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.*
    - [https://openenergy-platform.org/ontology/oeo/OEO\\_00000364](https://openenergy-platform.org/ontology/oeo/OEO_00000364)
  - ideas for **projection**:
    - data set
    - output of a scenario model calculation
    - quantification of a scenario by means of a model calculation. A projection covers exogenous data and endogenous data where exogenous data expresses the assumptions of the scenario quantitatively (e.g as input to the model calculation)
    - umbrella process that covers these steps:
      - The translation of assumptions into data sets.
      - The data preprocessing
      - The model calculation(s)
      - The data postprocessing
  - ideas from the dev-meeting:
    - projection as subtype of scenario in the sense of forecasting scenario
    - alternative term: scenario projection
  - Further ideas:
    - **outlook** as alternative term for **scenario**
    - do we need **scenario analysis**? could be parent class of **sensitivity analysis** (process)
    - prediction/forecast:
      - a forecast is a statement about the future predicting what will actually happen. In contrast, a scenario or projection is a statement about the future what will happen under certain assumptions.
    - discuss "calibration"? <https://github.com/OpenEnergyPlatform/ontology/issues/1040>

