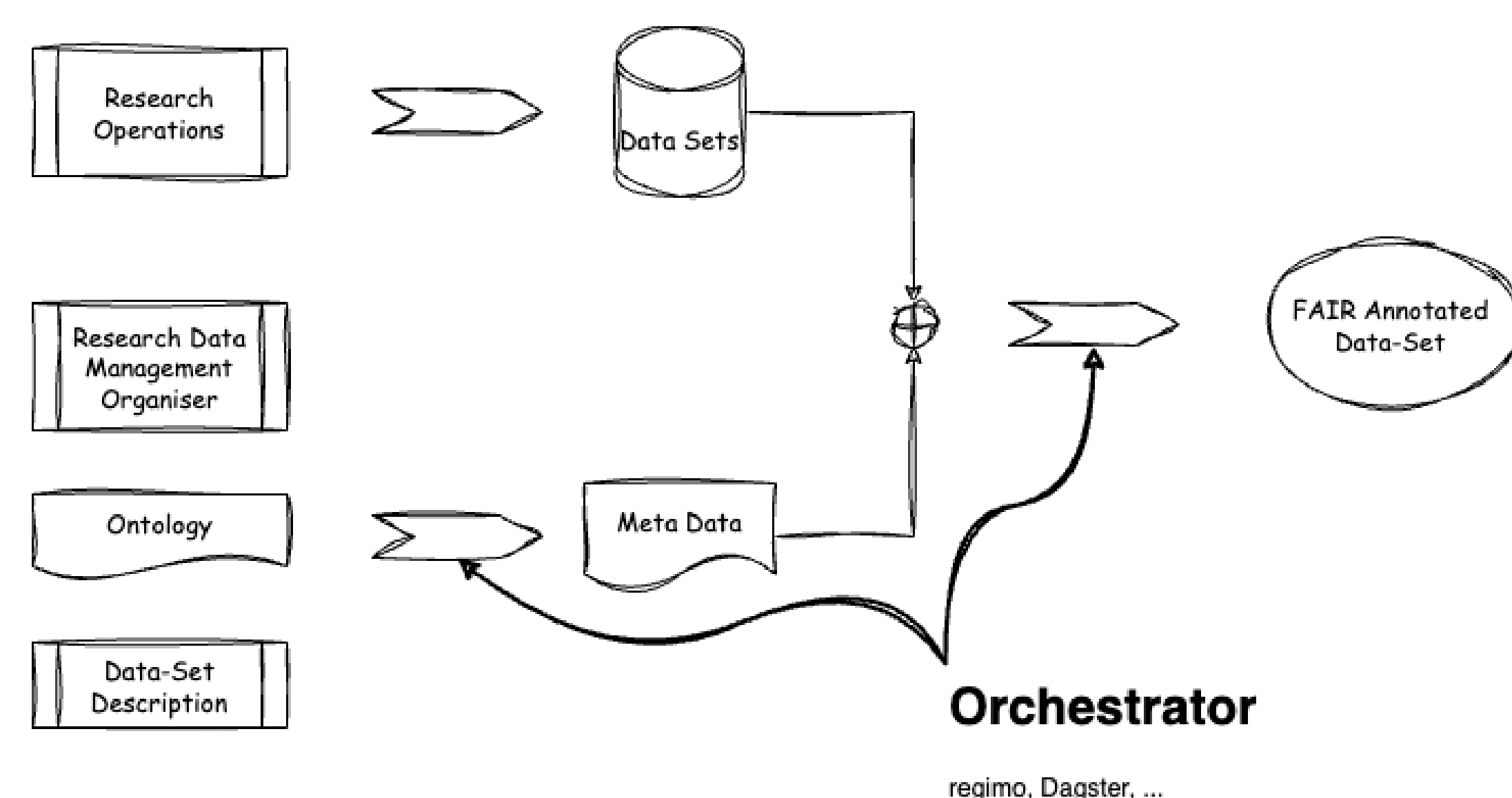


Annotation process

The open energy platform maintains an instance of a DBpedia databus, where a provider can announce data-sets by uploading descriptive metadata, together with a download-link to the actual data.



Our vision is to integrate software tools together into a tool-chain to automatically conduct a data-provider through the annotation process.

- Orchestrators allow to automatically execute a series of steps (jobs) and track the results.
- Each of those steps has assets to be produced or consumed. Assets are persistent objects in storage such as a table, machine learning model, or file.
- A databus compatible Metadata-file is in the current use-case the asset to be produced
- The steps-sequence should be triggerable by some special events, like the end of an essay or a measurement.
- Some of the information necessary to describe the data-set can be inherited by the Orchestrator from descriptions of higher-level entities (i.a. Project, Research Center, etc.)
- Dataset-Specific information can mostly be entered solely by the provider. For this purpose a tool is proposed to generate a User-Interface dynamically, according to the Metadata-Standard to be used.

Software links

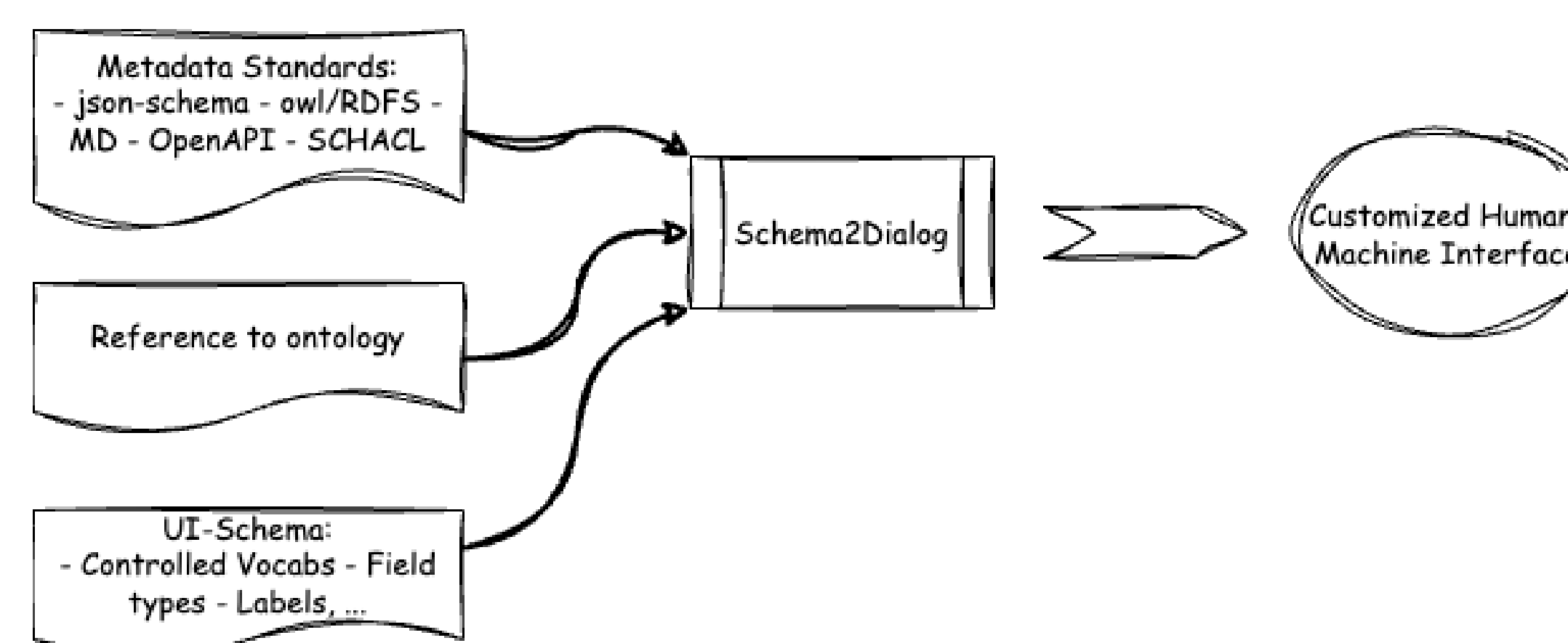
- <https://rdmorganiser.github.io/>
- <https://surveyjs.io/form-library>
- <https://typebot.io/>

Dialog Creation

Depending on your situation or role a different solution might be useful for you:

- As a user that needs to enter metadata as part of its usual work - you might want to use a solution that works for you out-of-the-box given your current metadata schema
- As a developer you might want to integrate the user interface for metadata input into your existing application
- As a workflow manager you are interested in solutions that can be added to your existing tool chain without much additional investment in time and material




We see a great benefit in generating a User interface configuration directly from an existing schema file. This allows to generate schema conform metadata records. We envision this to work like the following diagram.



We performed a market recherche to find systems / frameworks that can be used to generate user interfaces with the shown input information. The full overview can be found on Zenodo.

In the future we want to provide a solution to automatically generate the configuration for at least one of the evaluated systems.

Until then, we have the following recommendations as minimal effort solutions:

User		- Institution or public instances available - Configuration uses URLs for all entities
Developer		- Easy to integrate in most web apps - Rich functionalities
Manager		- Actual dialog to enter metadata - Can be easily hosted and integrated

Benchmarking

In the following, some of the solutions to generate Questionnaires (or Surveys or Dialogues) are benchmarked according to relevant criteria.

