



User Guide – First steps & Tips

New measurement campaign based on an experiment

Organize and add data for intended experiment

Declare Events for different objects

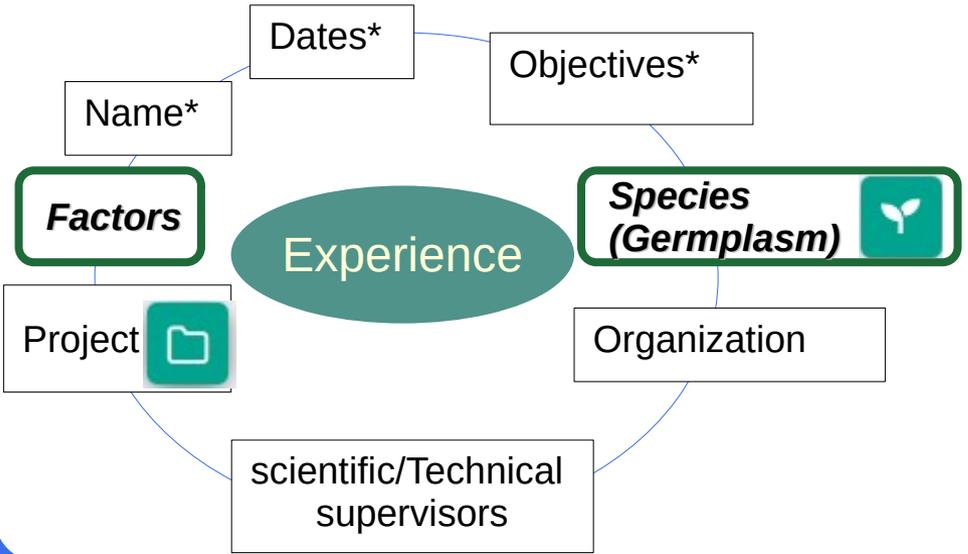
Visualize intended experiment and linked information

Useful Tips

Add a new experiment

1

Scientific Organization → Experiments → Add experience

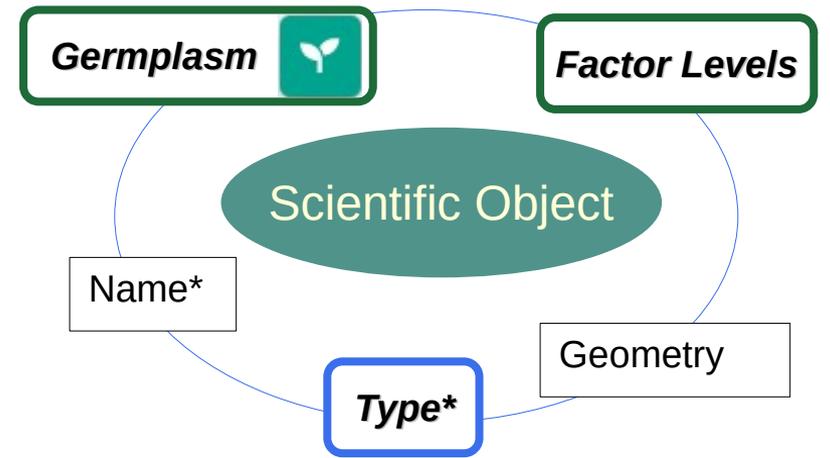


Factors (levels) To be defined for intended Exp.

Add Scientific Object

2

Intended Exp. → Scientific Objects → Add Sci. Obj.



Germplasm (To be) defined in **Sci. Inf.**

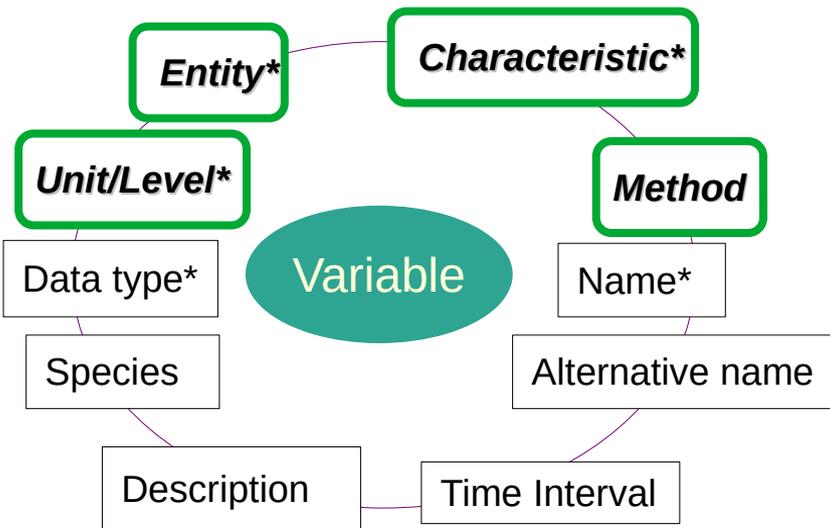
Type* (To be) defined in **Vocabulary**



Add Variable

1

Scientific Information ▶ Variables ▶ Add Variable



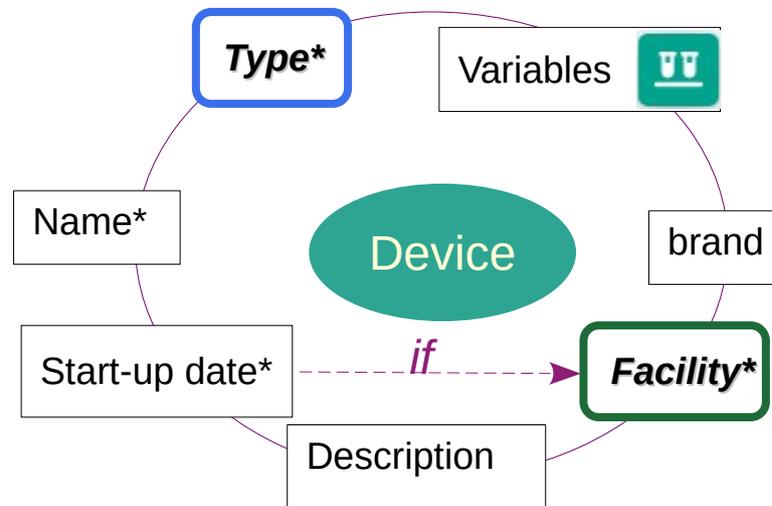
Entity* **Characteristic*** **Unit/Level*** **Method**

Add if Absent / necessary

Add Device

2

Scientific Organization ▶ Device ▶ Add Device



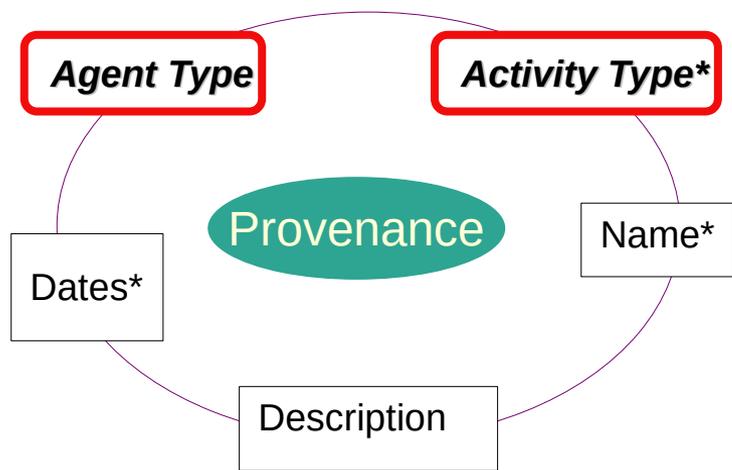
Next

Facility (To be) defined previously in Organization

Type* (To be) defined in **Vocabulary**

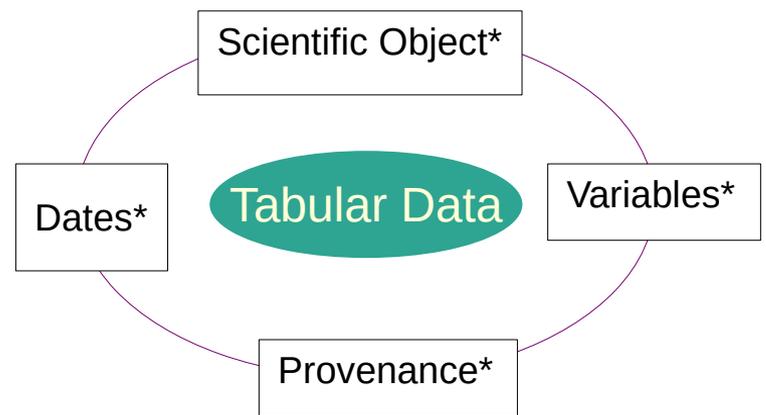
Add Provenance

3



Add Data

4



Next 

Activity Type* OpenSilex established Ontology

Agent Type OpenSilex established Ontology

Authentication

Post/ Security/ authenticate

body

```
{
  "identifier": "OpenSilex login",
  "password": "OpenSilex password"
}
```

@.***

Try it out!

```
{
  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzUxMiJ9.eyJpc19hZG1pbiI6dHJ..."
}
```

Data

Post/ core/ datafiles

Parameters

Parameter	Value	Description
description	(required)	File description metadata
file	Parcourir... Local PC file	Data file

```
1 {
2   "rdf_type": "http://www.opensilex.org/vocabulary/oeso#Image",
3   "date": "2020-08-21T00:00:00+01:00",
4   "target": "http://plot01",
5   "provenance": {
6     "uri": "http://opensilex.dev/provenance/1598001689415"
7   },
8 }
9 }
```

Try it out!

JSON model example



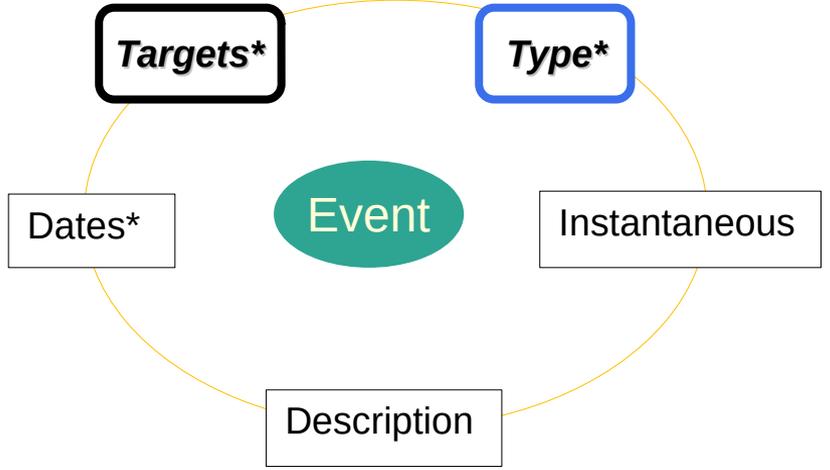
Python Package



R Package

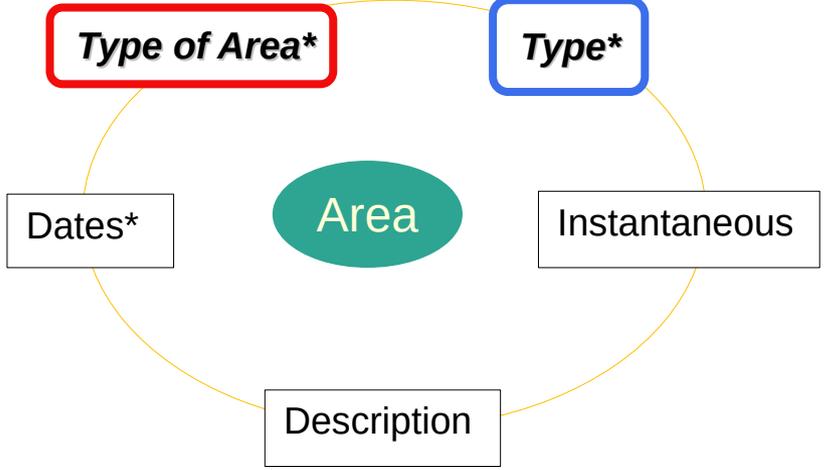
Back

Add Event



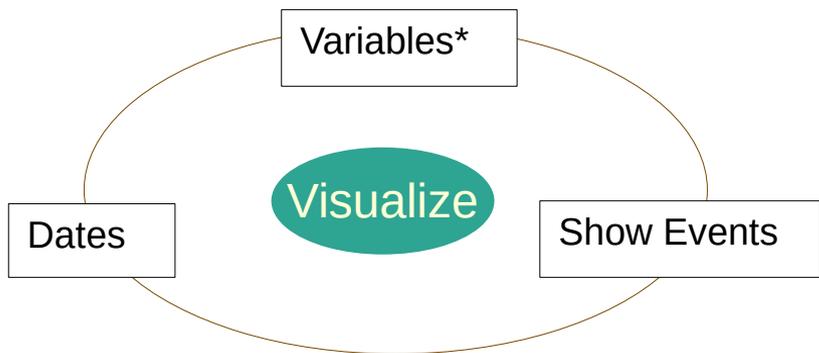
- Type*** (To be) defined in **Vocabulary**
- Targets** Must be an existing **Device** or **Sci. Obj.**

Add Area + event



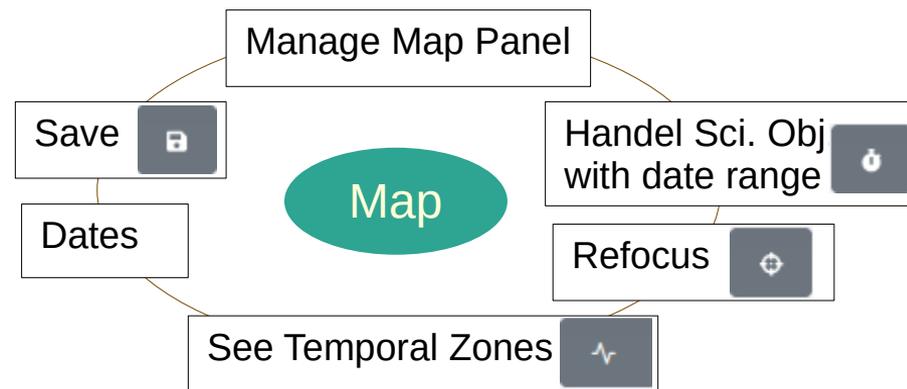
- Type of Area*** OpenSilex established **Ontology**
By definition, only **Temporal** zones could be linked to an event

Data visualization



Click or right click on each data point for more information or functions

Experiment Map



Click on each object to see all information

Func. & Obj. must be defined/
used globally (out of Exp)

Device

Provenance

Event

Germplasm

Variables

Func. & Obj. can be defined
globally or inside Exp.

Scientific object

Data

Documents

Data visualization

Annotations

Func. & Obj. must be defined/
used inside Exp.

Factor

Map

- Scientific Object defined **in Experiment**: Sci. Obj. and Exp. Have the same life cycle. Example: annual crops
- Scientific Object defined generally and **apart from Experiment** : Sci. Obj can exist more than an Exp. Example: fruit trees, vine stock, ..

Ontology

- OpenSilex established vocabulary **No Access**
- OpenSilex per-suggested vocabulary **Admin Access**
- OpenSilex created vocabulary **Free Access**