



## *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

Dates\*

Objectives\*

Name\*

**Factors**

Project

Experience

**Species  
(Germplasm)**

Organization

scientific/Technical  
supervisors

**Factors (levels)**

To be defined for intended Exp.

## Add Scientific Object



2

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

**Germplasm**

**Factor Levels**

Scientific Object

Name\*

Type\*

Geometry

**Germplasm**

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

Type\*

(To be) defined in **Vocabulary**

Back

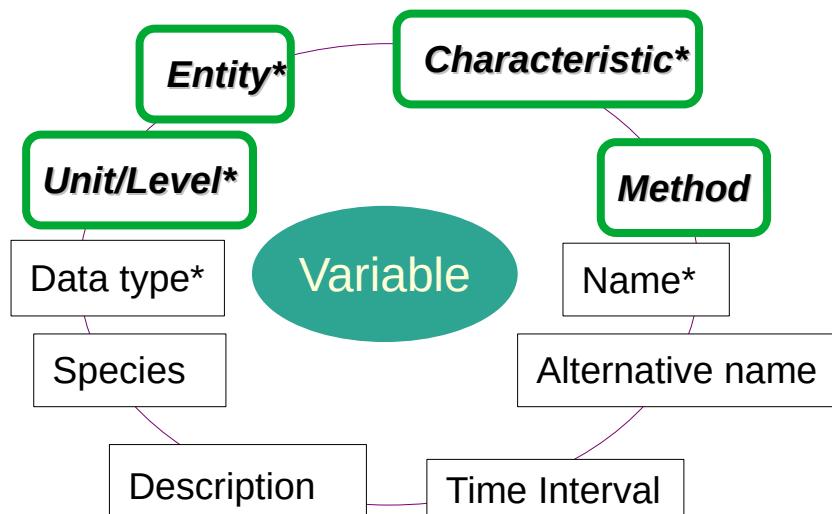


## Add Variable



1

Scientific Information ➔ Variables ➔ Add Variable



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

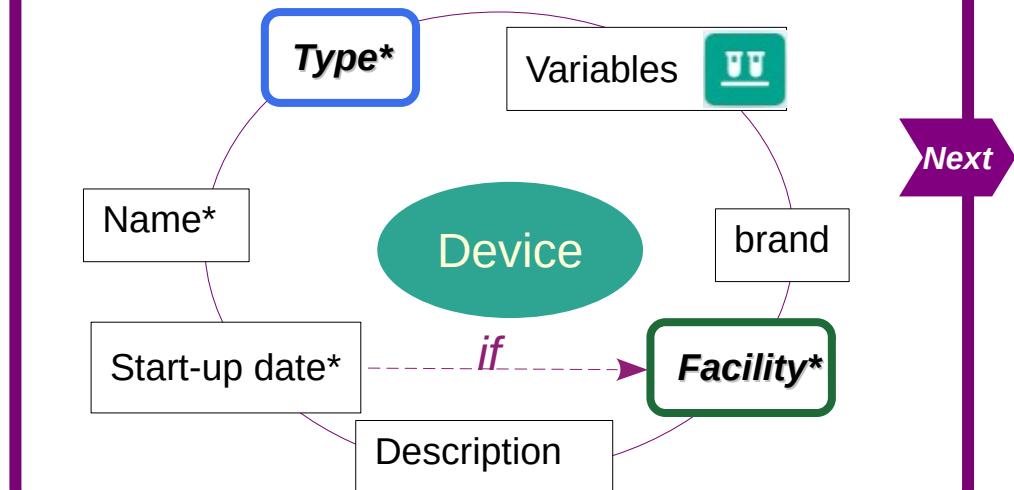
Add if Absent / necessary

## Add Device



2

Scientific Organization ➔ Device ➔ Add Device



**Facility** (To be) defined previously in Organization

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

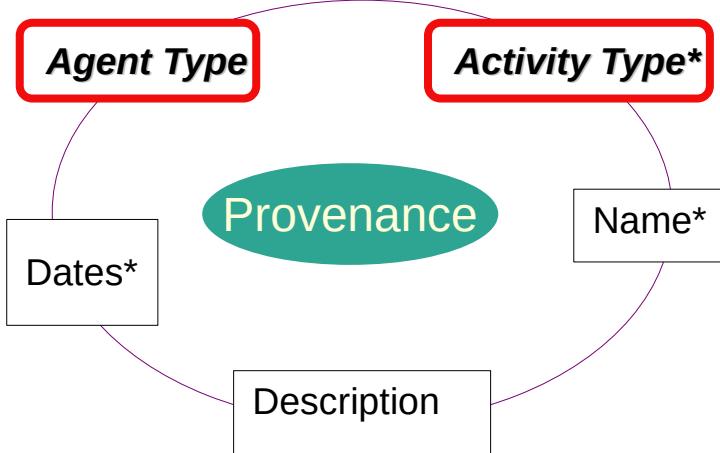


## Add Provenance



3

Data ➤ Provenance ➤ Add Provenance

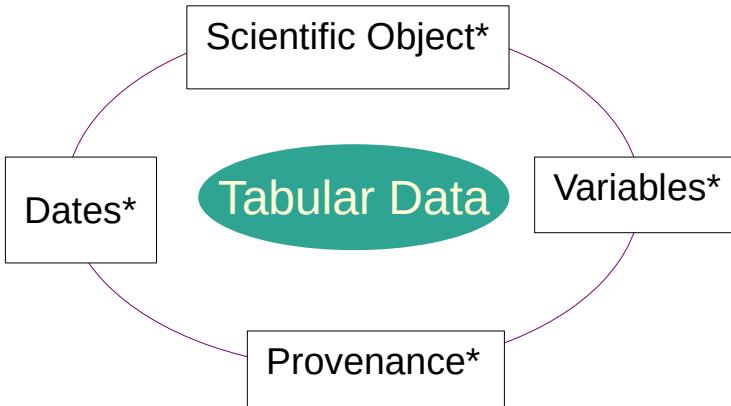


## Add Data



4

Intended experience ➤ Data ➤ csv Import



Next ➤

**Activity Type\*** OpenSilex established Ontology

**Agent Type** OpenSilex established Ontology

# Upload Data file

{...} swagger

Authentication

Post/ Security/ authenticate

Data

Post/ core/ datafiles

## Parameters

Parameter	Value	Description
<b>description</b>	(required)	<b>File description metadata</b>
<b>file</b>	<input type="button" value="Parcourir..."/> Local PC file	<b>Data file</b>

Try it out!



Python Package

R Package

body

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

Try it out!

```
{  
    "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzUxMiJ9.eyJpc19hZG1pbI6dHJ...  
}
```

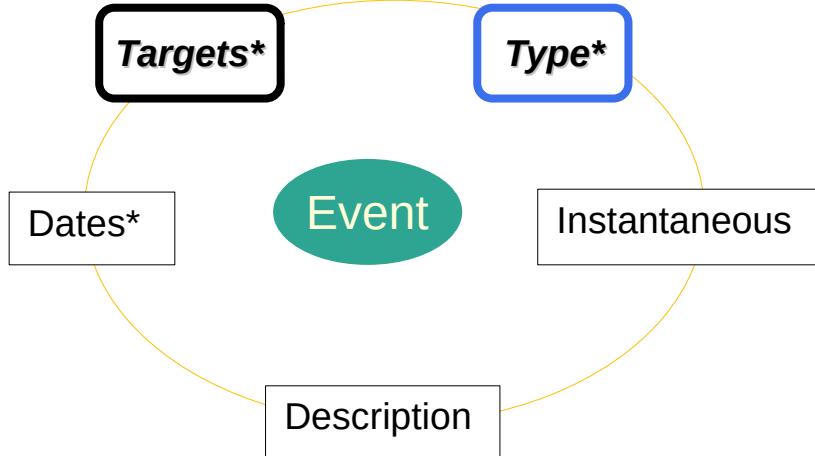
```
1 {  
2     "rdf_type": "http://www.opensilex.org/vocabulary/oeso#Image",  
3     "date": "2020-08-21T00:00:00+01:00",  
4     "target": "http://plot01",  
5     "provenance": {  
6         "uri": "http://opensilex.dev/provenance/1598001689415"  
7     },  
8 }  
9 }
```

JSON model example

Back

## Add Event

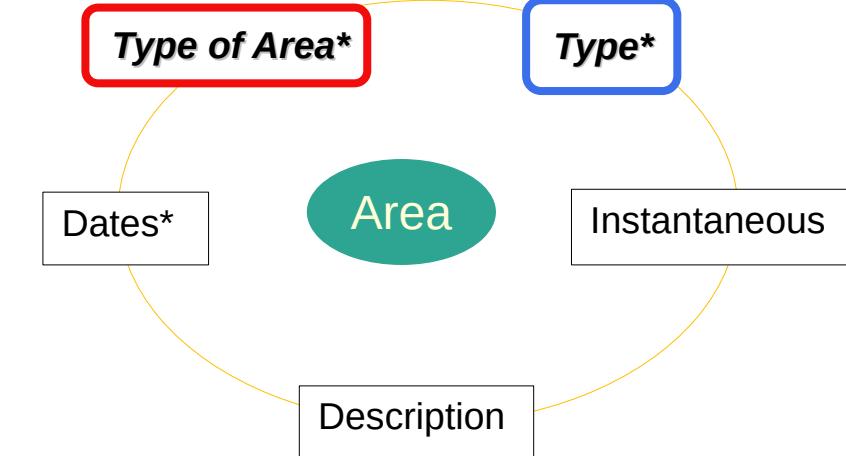
Scientific Organization ➤ Event ➤ Add event



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

## Add Area + event

Any existing Exp. ➤ Map ➤ Add Area



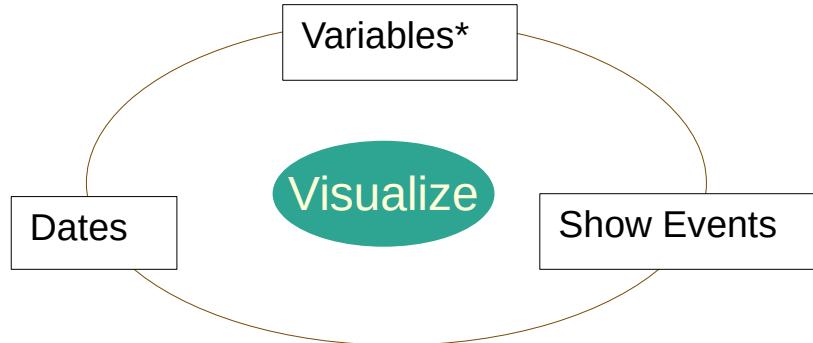
**Type of Area\*** OpenSilex established **Ontology**  
By definition, only **Temporal** zones could be linked to an event

Back 

## Data visualization

Intended Exp. ► Sci. Obj. ► Action ► Visualize

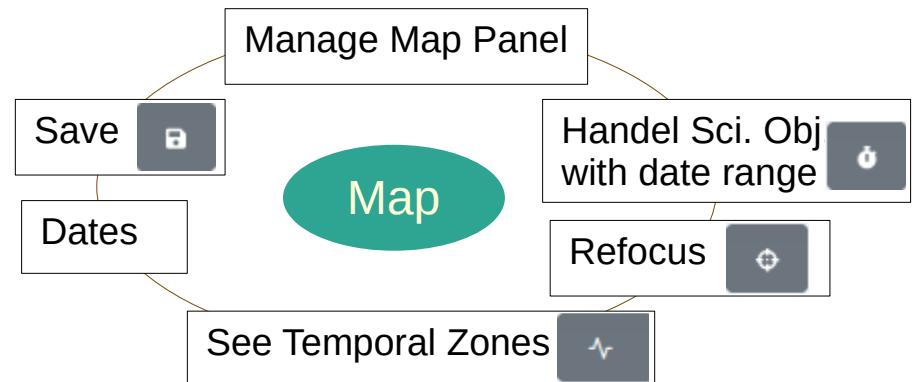
Sci. Object ► Select ► Visualization



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

## Experiment Map

Intended Exp. ► 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

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>➤ OpenSilex established vocabulary</li><li>➤ OpenSilex per-suggested vocabulary</li><li>➤ OpenSilex created vocabulary</li></ul> | <p><b>No Access</b></p> <p><b>Admin Access</b></p> <p><b>Free Access</b></p> |
|--|--|