



# Setting up eLabFTW for a simple lab

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# eLabFTW



- Open source
  - MySQL database
  - Runs on a browser
  - Extremely flexible
  - API
  - ...
- 
- <https://doc.elabftw.net/>
  - <https://doc.elabftw.net/api/>

# Structure your ELN

## Experiments

Filter status

Order by

Sort

15

Tags

Go

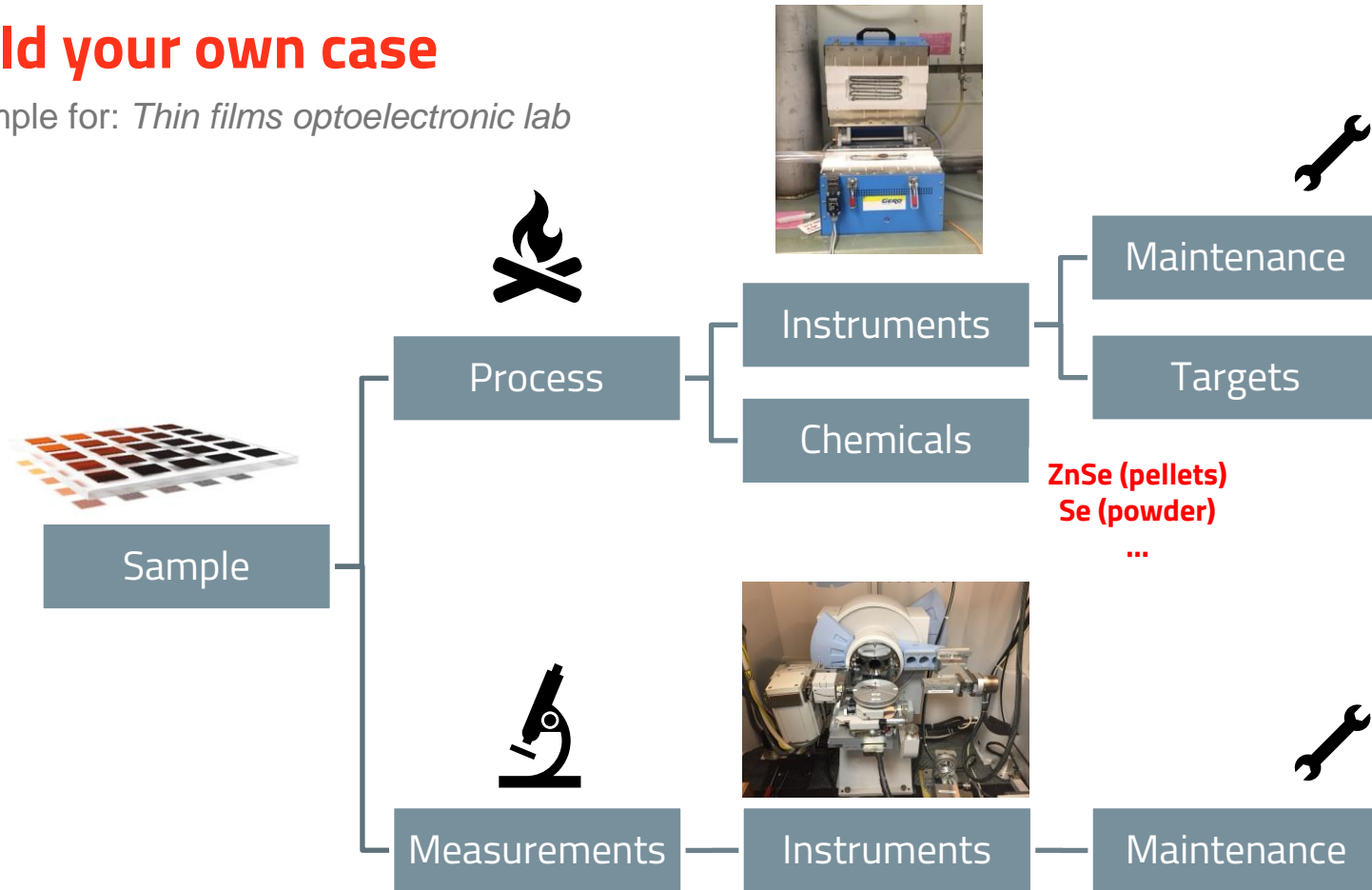
← Create

📘 Welcome to eLabFTW. Use the 'Create new' button to get started!

# Structure your ELN to go beyond its note taking capabilities

# Build your own case

Example for: *Thin films optoelectronic lab*



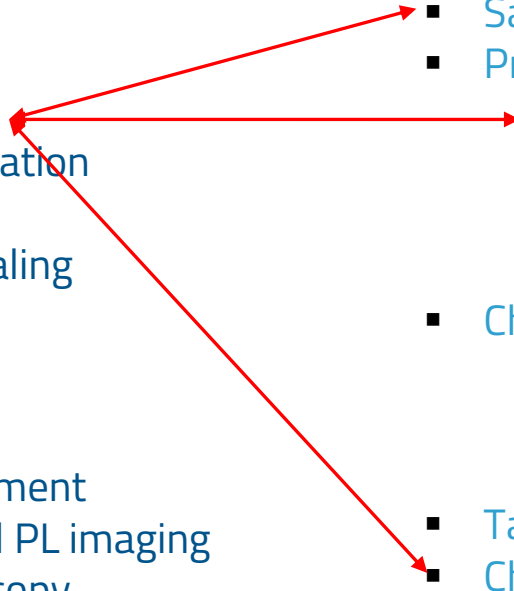
# Classify your lab model in experiments and database items

## Experiments:

- Processes
  - Spin coating
  - PVD deposition
  - Solution preparation
  - PLD deposition
  - Hot plate annealing
  - ...
- Measurements:
  - XRD
  - XRF measurement
  - Hyperspectral PL imaging
  - THz spectroscopy
  - $I$ - $V$  measurement
  - ...

## Database / Laboratory inventory items:

- Samples
- Processing setup:
  - PVD chamber
  - Hot plate
  - Spin coater
  - ...
- Characterization Setup:
  - XRD PANalytical MPD for thin films
  - XRF Mapper M4 Tornado
  - ...
- Targets for PLD and sputtering
- Chemicals
- Setup status: example crucible filling tracking...



## Create templates for experiments and database items

- Create *metadata fields* in the templates for the data that needs manual input in your workflow. (.json file)
- Focus on registering data that is not automatically collected by the instruments, but that it might influence your science!
- Design templates to register your lab inventory and its relevant information.
  - Samples
  - Instruments
  - Chemicals
  - Targets
  - Projects
  - ...

# Demo

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