ELISA
Enabling Linux in Safety Applications

WORKSHOP

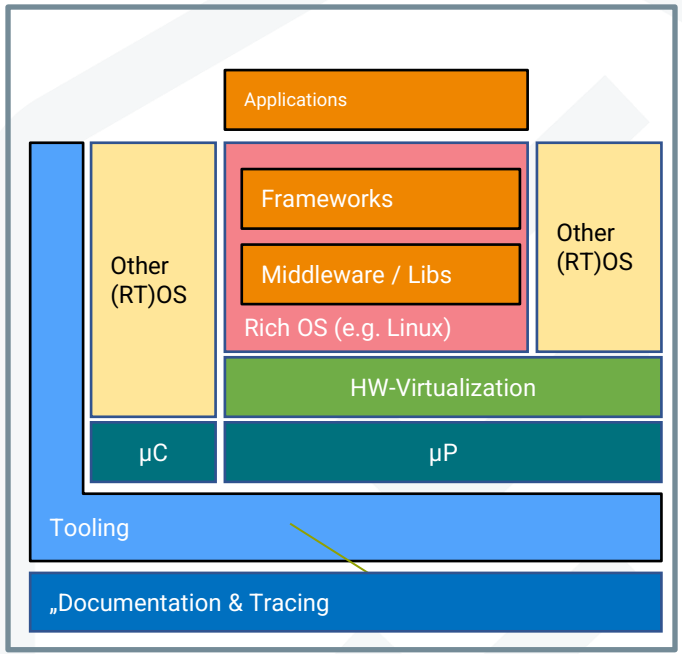
Drawing an open source safety-critical landscape

Philipp Ahmann, ETAS GmbH, ELISA TSC chair

Motivated by the Systems WG activities

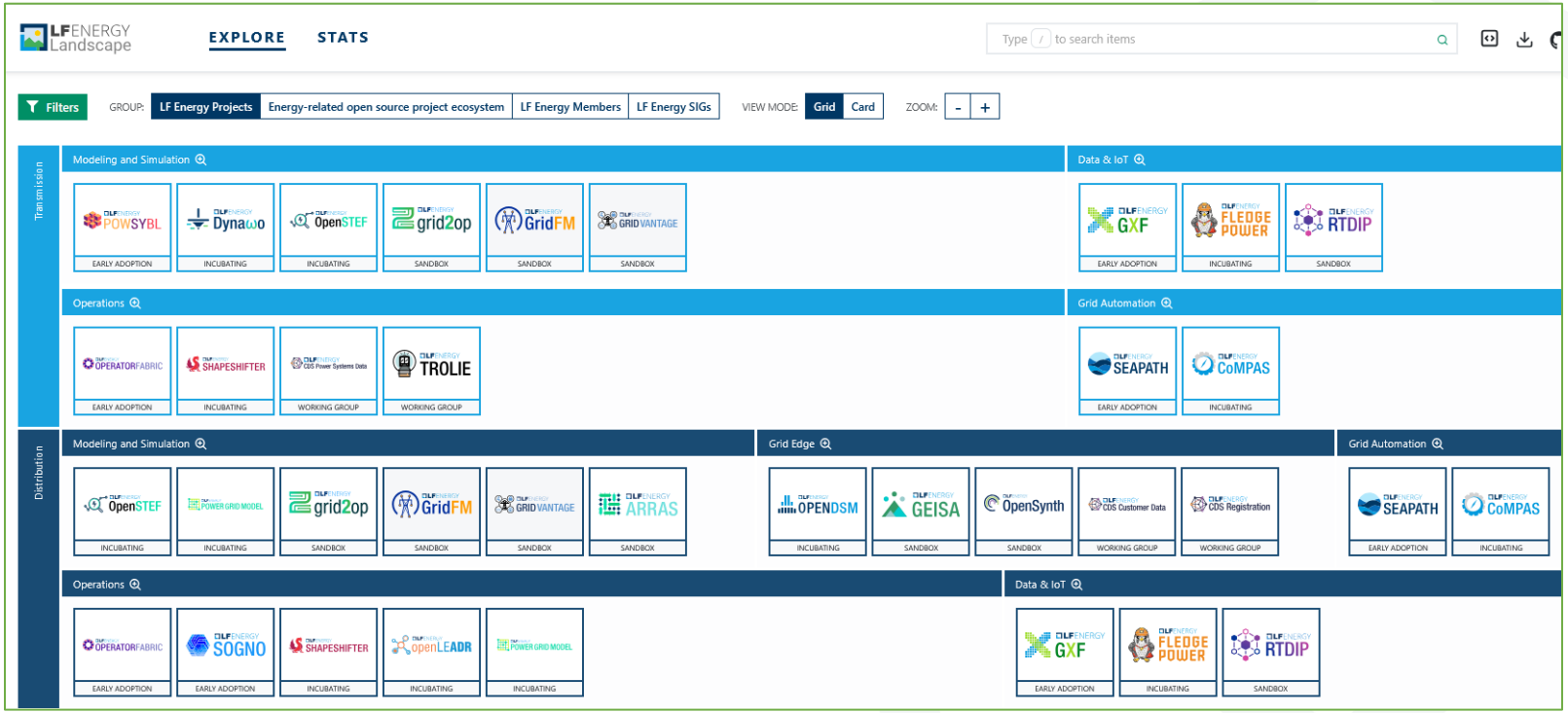
- Requirement tools
- Documentation frameworks
- Traceability tools
- Testing frameworks
- Build tooling
- Compiler
- Hypervisor
- (RT)OS
- Container
- Middleware
- Frameworks
- IDEs
- …

Projects
&
Foundations



Example of the safety open source landscape … spot check

Landscape example



https://github.com/lf-energy/lfenergy-landscape

The tool to create a landscape

```
- category:
    name: Renewable Energy
    subcategories:
      - subcategory:
        name: Photovoltaics and Solar Energy
        items:
          - item:
            name: A Global Inventory of Commerical-, Industrial-, and Utility-Scale Photovoltaic Solar Generating Units
            description: Used to produce a global inventory of utility-scale solar photvoltaic generating station.
            homepage_url: https://github.com/Lkruitwagen/solar-pv-global-inventory
            repo_url: https://github.com/Lkruitwagen/solar-pv-global-inventory
            logo: A Global Inventory of Commerical-, Industrial-, and Utility-Scale Photovoltaic Solar Generating Units.svg
            extra:
              refs: ',https://zenodo.org/record/5005868,https://zenodo.org/record/5005868'
            organization:
              name: Lucas Kruitwagen
          - item:
            name: autoxrd
            description: a python package for automatic xrd pattern classification of thin-films, tweaked for small and class-imbalanced
datasets.
            homepage_url: https://github.com/pv-lab/autoxrd
            repo_url: https://github.com/pv-lab/autoxrd
            logo: autoxrd.svg
            extra:
```


https://github.com/lf-energy/lfenergy-landscape/blob/main/landscape.yml

Structured in Yaml

```
Category:
        name: (repeats)
        subcategories:
        items:
                description:
                homepage:
                repo_url:
                logo:
                extras:
                organizations:
        ...
```

More entries:

```
- additional_repos
- project
- accepted
- annotations
- ...
```

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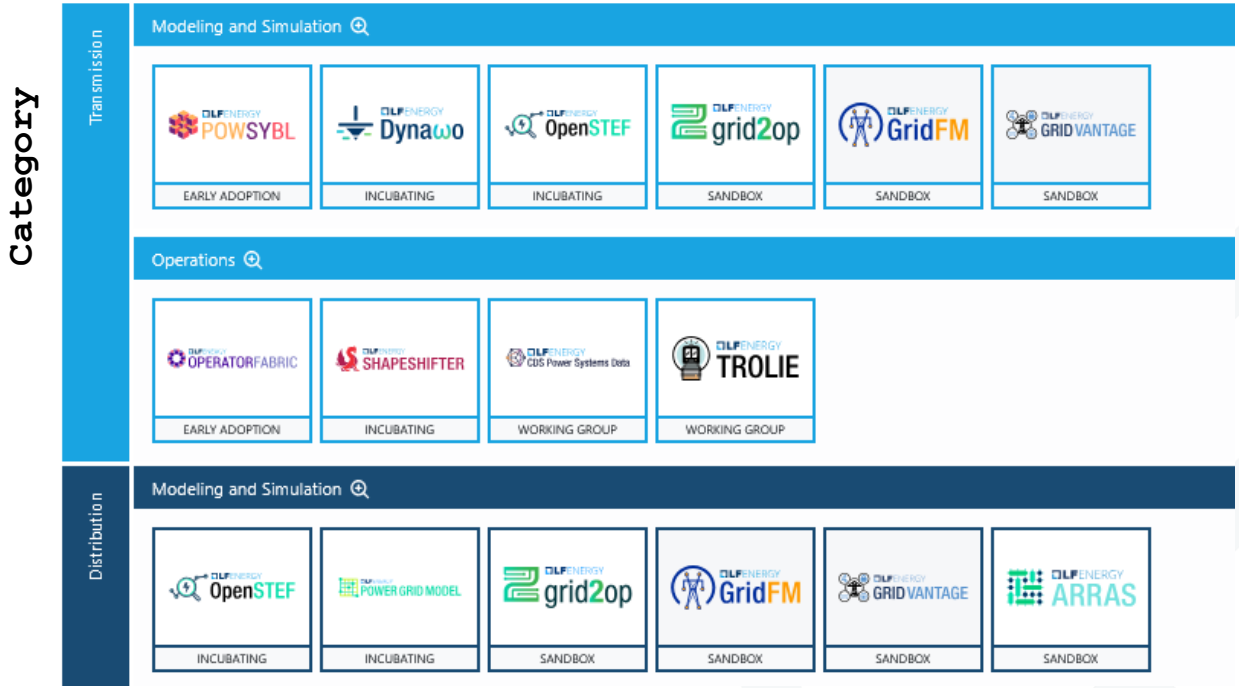
Mapping things:



Possibilities for fields…

- Categories: …
- Attributes: …

Ready to make it visible (together)

- The PR: https://github.com/elisa-tech/wg-systems/pull/18/files
- Collaborative editing md: https://mensuel.framapad.org/p/elisa-oss-landscape
- Directly as yaml: https://rustpad.io/#wWNzSq

MD:

yaml:

Thank you

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