



# A UNIFORM TAXONOMY FOR PHOTOVOLTAIC SYSTEM OPERATIONS AND MAINTENANCE DATA

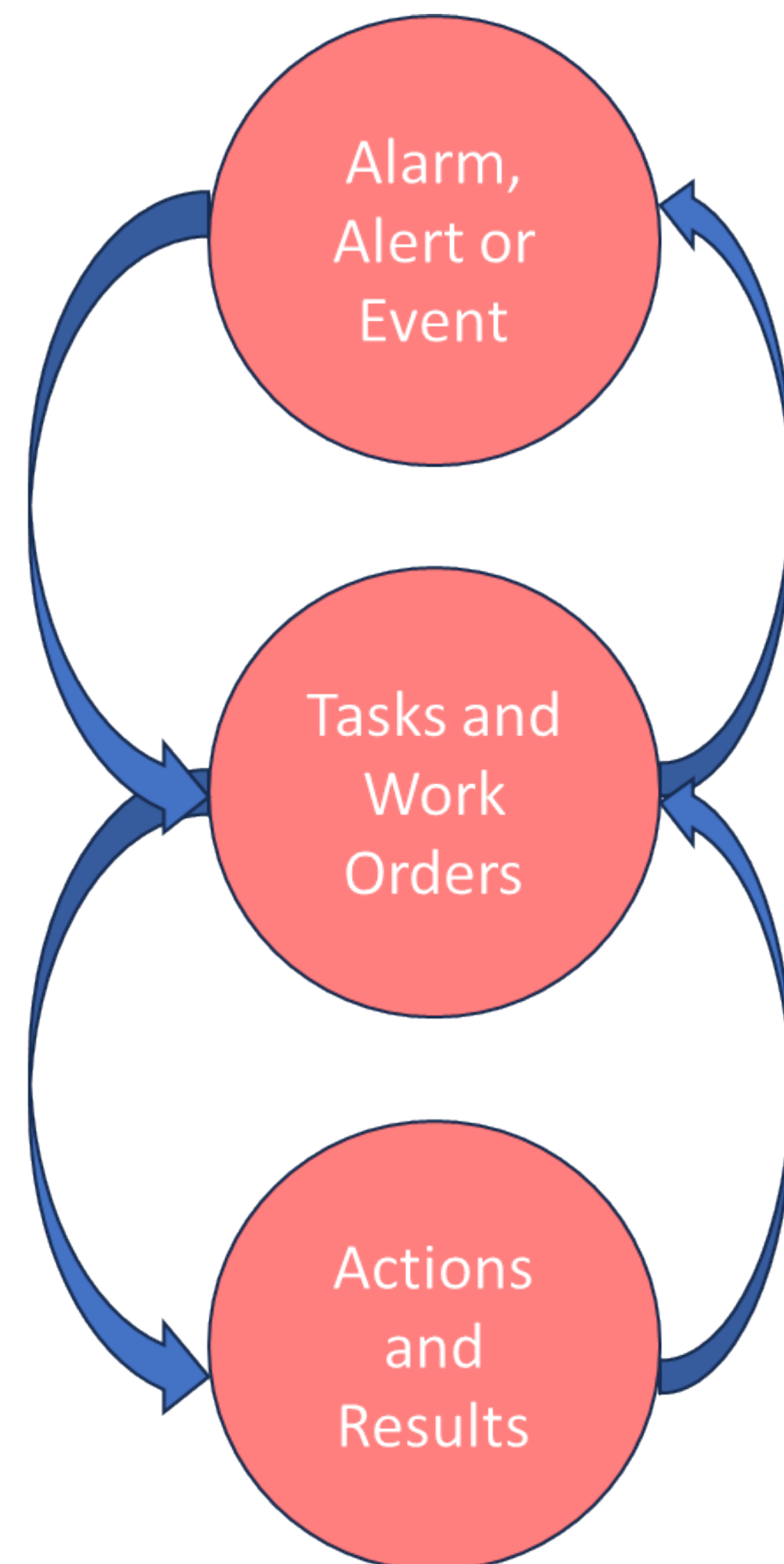
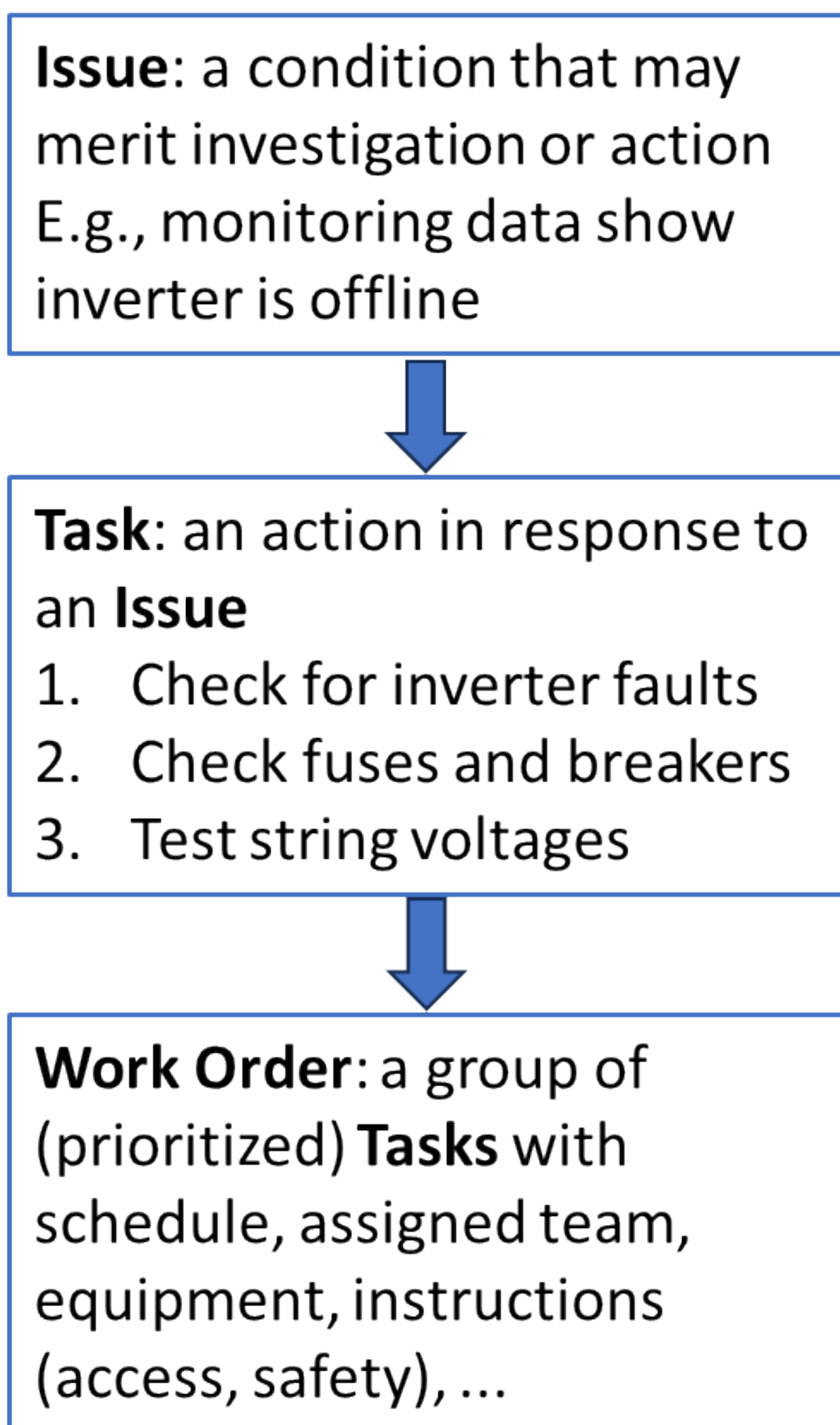
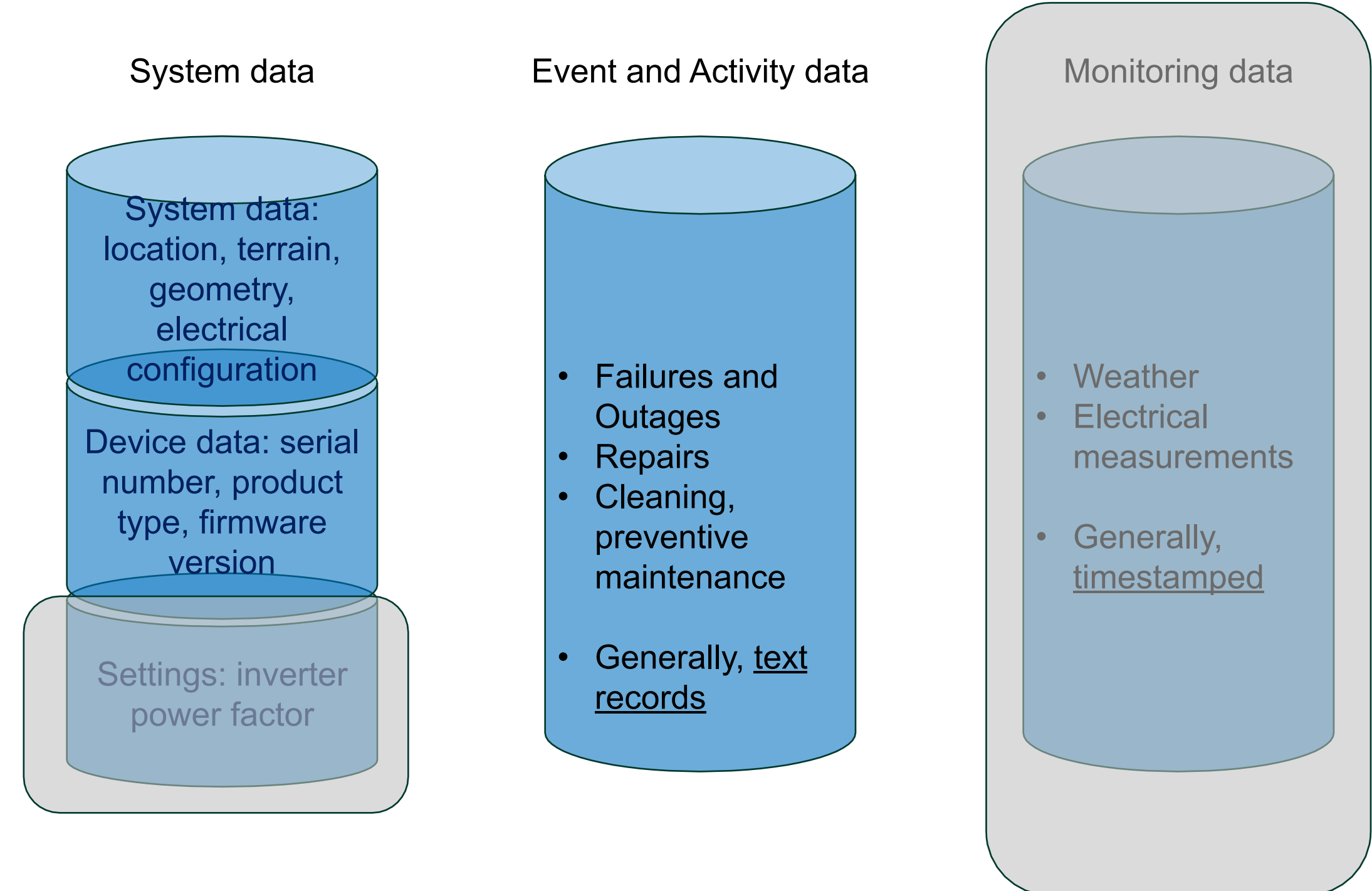
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## Summary

We outline a set of information models for photovoltaic (PV) system operations and maintenance (O&M) data. We focus on **System**, **Event** and **Activity** data such as

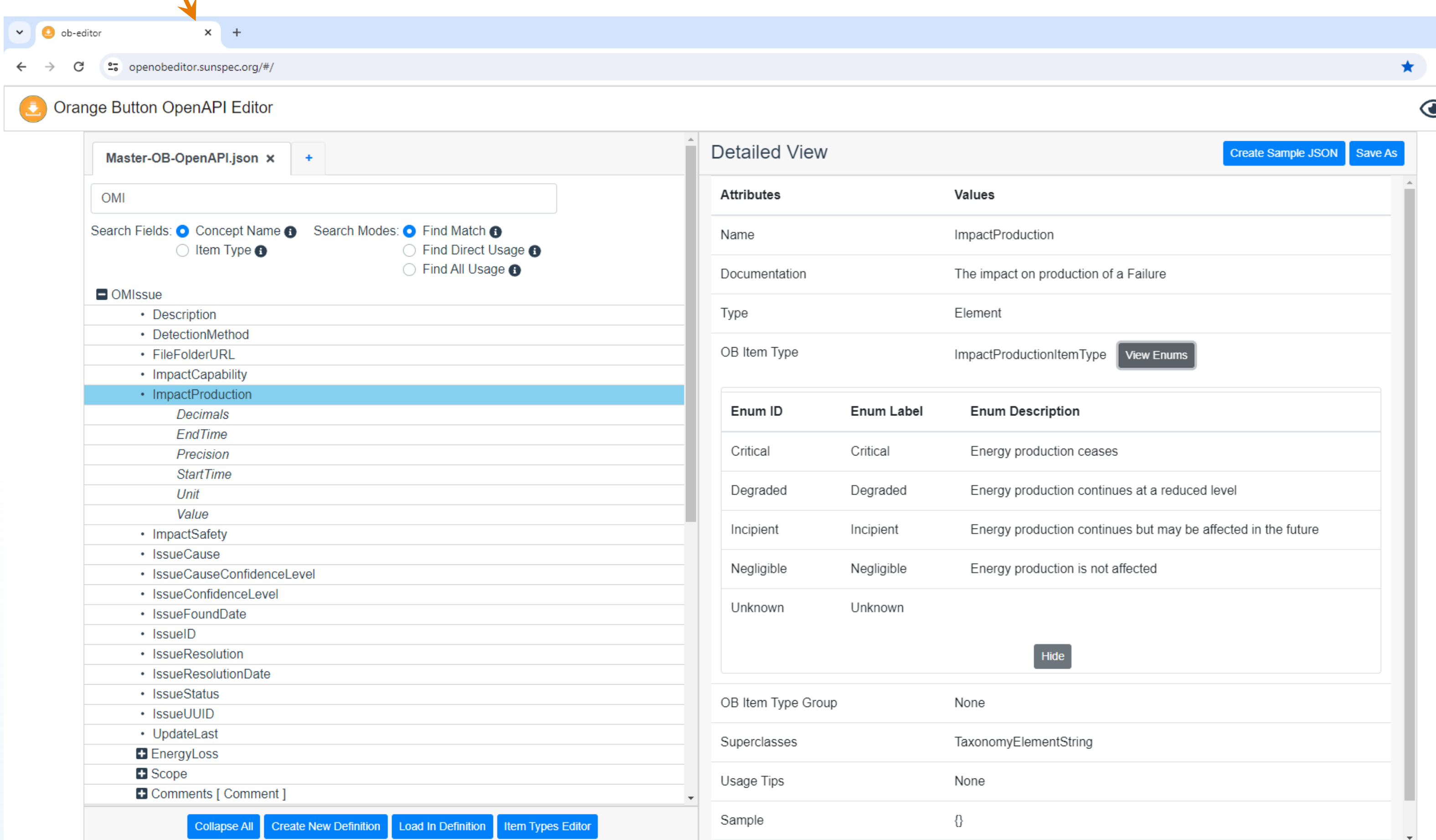
- Device failures and production anomalies.
- Inspections and field services.

The structured information models provide consistent terms and classifications that enables analytics across systems and portfolios of systems.



**FailureRecord:** data describing a failure, which is termination of the ability of an item to perform its function

**TaskResult:** record of actions taken and data collected  
May generate new **Issues** and **Tasks**



Physical system descriptions anticipate **PVCollada**

- xml-based schema based on Collada™
- In development, anticipate release Sept 2024

Interested? Contact [cwhanse@sandia.gov](mailto:cwhanse@sandia.gov)

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Models are implemented in Orange Button for OpenA