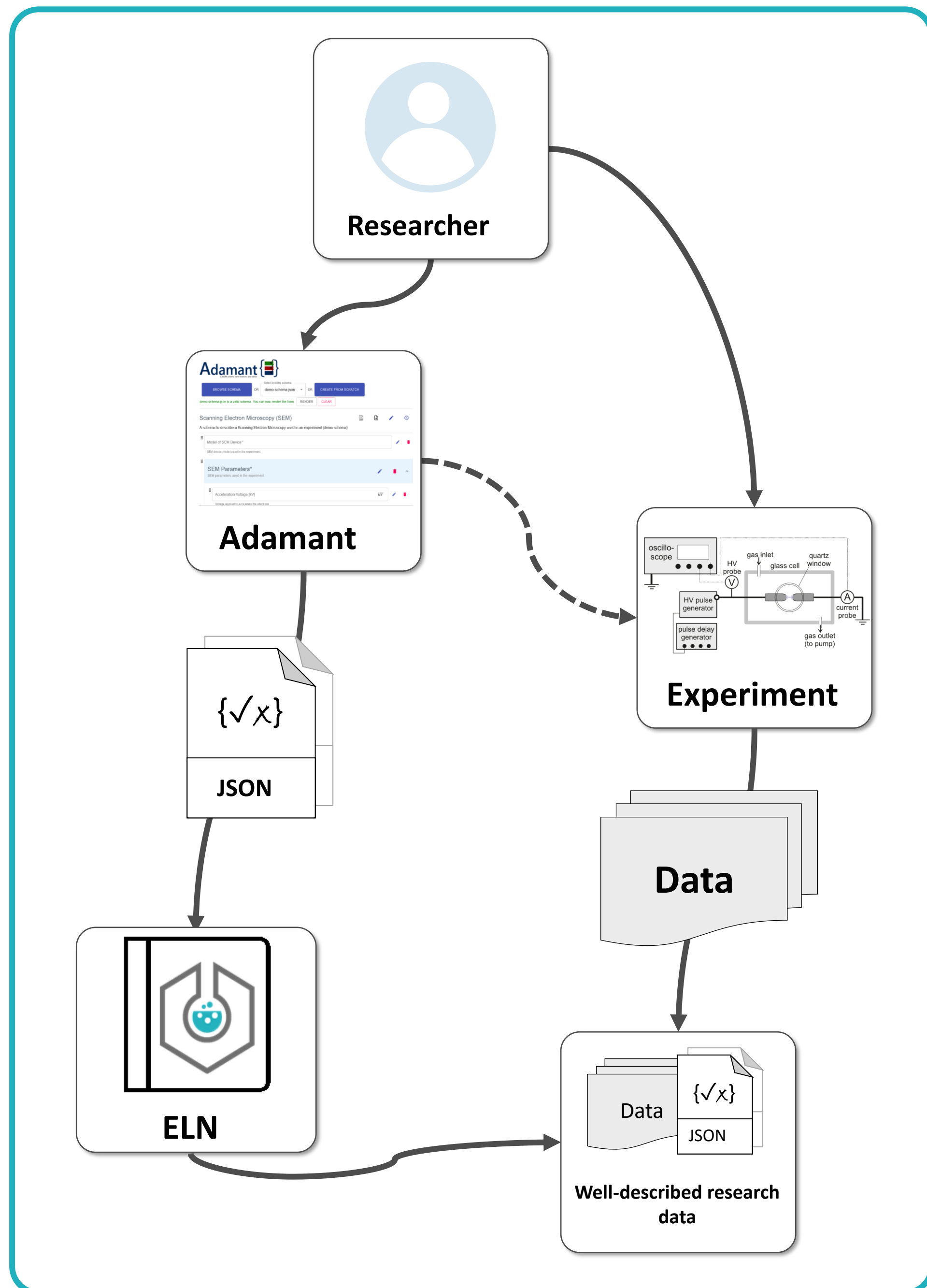


SCHEMA-BASED EXPERIMENT DOCUMENTATION

- Browse, select, or create experiment schema and render the web-form
- Fill in relevant information regarding the experiment
- Submit to store experiment metadata and the used schema in the ELN system
- Experiment metadata can be re-used for dataset publication and other automated processes



JOB REQUEST OF SCIENTIFIC INSTRUMENT OPERATION

- **Motivation:** Only a handful of researchers can operate a certain advanced scientific instrument. The instrument has to be more accessible to researchers with different skillsets to improve research outputs. A more automated workflow to request an instrument operation is required to make life easier.
- **Workflow:** (1) Job request initiation by the requester (researcher who is not an expert on the instrument); (2) Processing of the request by the operator (expert on the instrument), experiment metadata is stored in ELN; (3) Handing of research data (results) from operator to requester.

