**Taverna Provenance**

Experience:

- **Focus on dataflow.** Retries, looping, iteration strategies are transparent.
- **Both starting point terms** (simpler queries) and qualified terms (interoperability).
- **Wfdesc** to describe Plan details.
- **Wfprov** to link up PROV to Wfdesc, and to describe the data & resources (encodings, paths, endpoints).
- **Locally generated, UUID-based, structured URIs.** Container URIs problematic with PROV Toolbox.

**Future Work:**

- **Provenance for CWL** (Common Workflow Language).
- **Layering provenance** (enabling OPMW, D-PROV, P-PLAN).
- **Toolbox friendly identifiers.**

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1. A trace for debugging
2. Supplementary material for Audit & Review

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Apache Taverna
https://taverna.incubator.apache.org

eScience Lab
http://www.esciencelab.org.uk