

Sustainable software through the research lifecycle. Who, what, when?

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The effective use of continuously growing and increasing complex data assets brings an associated need for reliable and trustworthy software to deal with the volume and complexity. Data assets need robustness, reliability, and accessibility. Similarly, software and process assets need provenance, reliability, support, accessibility and transparency. But who are the key players in ensuring that research software is developed as a first class research output and managed as such through the research lifecycle?

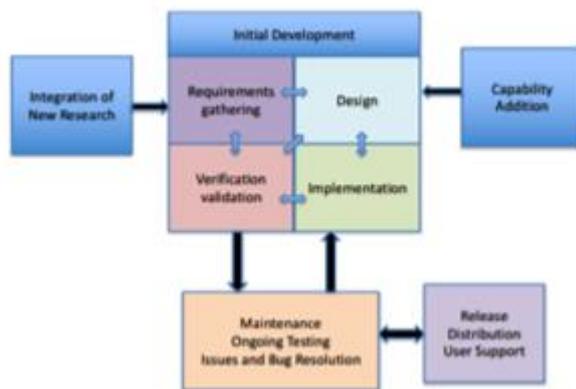


Fig.1: Lifecycle model for scientific software

Source: Dubey, Anshu & Curfman McInnes, Lois. (2017). Proposal for a Scientific Software Lifecycle Model. 22-26. 10.1145/3144763.3144767.

This BoF will bring together stakeholders from across the research ecosystem to explore the research software lifecycle and identify potential roles and responsibilities for those developing, maintaining and curating research software in a sustainable manner. The BoF will include a series of lightning talks and discussion sessions to unpack the concept of sustainable research software and explore the role of researchers, research software engineers, business analysts, project managers, librarians, repository and infrastructure managers in managing research software through the lifecycle.

Intended outcomes of the BoF include:

- seeding a Community of Practice around sustainable research software
- a model that maps skillsets and roles to the research and software lifecycle

CITATIONS AND REFERENCES

References should appear in a numbered list at the end of the document. In the text, cite publications by listing the number in brackets, e.g. [1]. Use a consistent style for references that provides sufficient information to identify and locate the publication. Some examples appear below.

REFERENCES

1. Dubey, A. and McInnes, L.C.. Proposal for a Scientific Software Lifecycle Model, in Proceedings of the 1st International Workshop on Software Engineering for High Performance Computing in Computational and Data-enabled Science & Engineering: p. 22-26. 2017. Association for Computing Machinery. Available from <https://doi.org/10.1145/3144763.3144767>, accessed 7 June 2019.