Contribution ID: **60**   Type: **Talk (15min + 5min)**

RSE and the aspects of communication and education –a tale from the shores of scientific coding

Wednesday, March 6, 2024 4:10 PM (20 minutes)

Communication and teamwork are important parts of modern research software engineering in a multi-disciplinary field.

In our work we are based on a well-established foundation of trusted tools from industry and open source communities like git, continuous integration, test frameworks or issue tracker and KANBAN boards for shaping and helping our workflows. While research software engineering frequently means transferring knowledge, be it with our peers, our students, or our clients, we also are challenged in unique ways to communicate and educate.

The talk gives an overview over how we at the DLR Institute of Networked Energy Systems in the Department of Energy Systems Analysis have adapted methods from a variety of fields. Including our experiences:

- in adapting SCRUM and what did or did not work
- with retrospectives especially how, these can be applied in an education setting
- how non-violent communication techniques can be beneficial overall and specifically with requirements engineering
- how clear scopes and roles help us keep software projects on track
- with effort estimation and why one should train it early on

The talk ends with an overview over how each of the mentioned pieces work together to reduce the complexity in and around our work and to free resources for writing code and contributing to science.

Slot length

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Session Classification: Policies and Legal Aspects

Track Classification: RSE Research and Communities: Policies and Licences in RSE