Technical Working Group Report

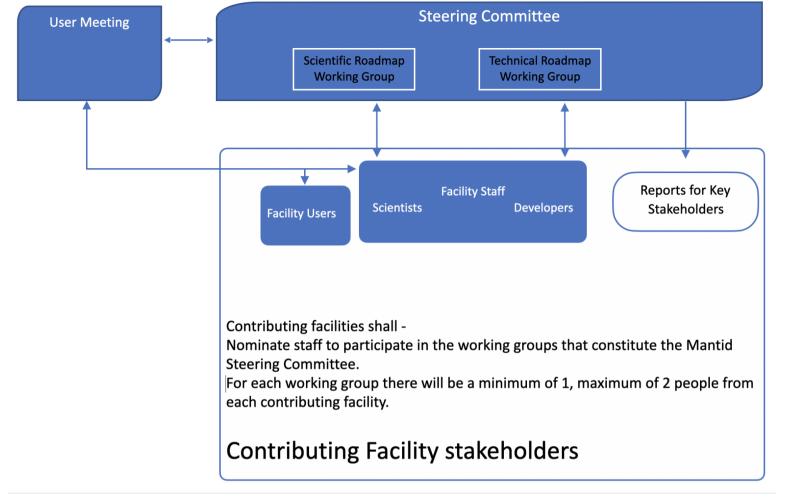
Pete Peterson, TWG Chair



References

- https://github.com/mantidproject/governance/
- https://github.com/mantidproject/roadmap/







Some Steering Committee Responsibilities

- Ensure coordination between Contributors.
- Ensure the Working Groups deliver publicly available scientific and technical roadmaps.
- Act as a clearing house for discussion on all matters concerning Mantid between Contributors.
- Nominate the Chairs of the User Meeting who have authority to engage a local organising committee for each User Meeting. These individuals do not need to be members of the Steering Committee.
- Hold and maintain the development risk register.
- Collate status and progress reports as required by key stakeholders.
- Prepare an annual summary for the Contributing Facility directors.
- Hold a list of its members.
- Coordinate the review of the governance and associated documents.
- Resolve conflicts, using a defined process, where there is no consensus among collaborators.

Technical Working Group Members

- Shenglan Chen (CSNS)
- Rong Du (CSNS)
- Gemma Guest (STFC)
- Tom Hampson (STFC)
- Oleksandr Koschii (JCNS)
- Geish Miladinovic (ANSTO)

- Simon Heybrock (ESS)
- Zach Morgan (ORNL)
- Eric Pellegrini (ILL)
- Pete Peterson (ORNL) -Chair
- Rémi Pérenon (ILL)
- Emmanouela Rantsiou (PSI)





Technical Working Group Responsibilities

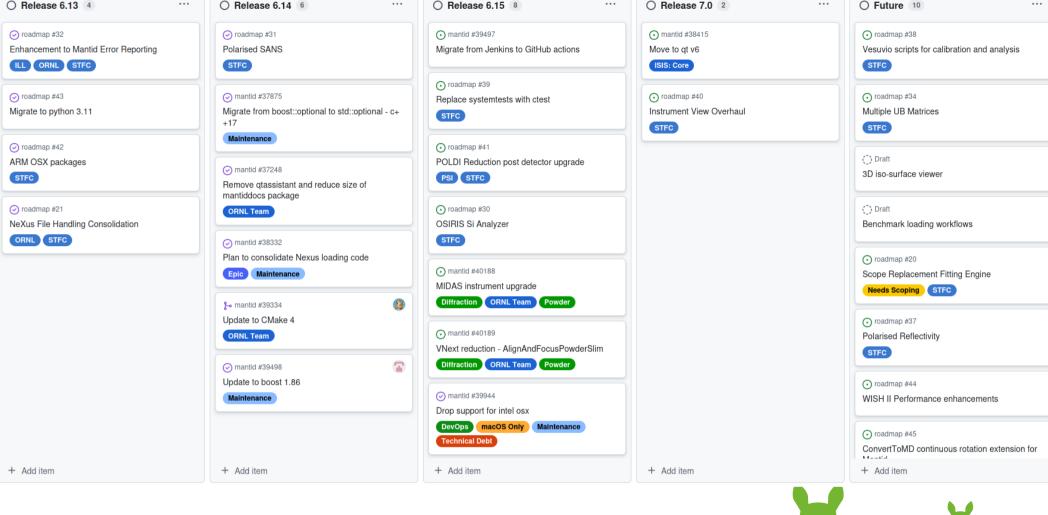
- Communicating the technical roadmap with Scientific Roadmap Working Group.
- Working with the Scientific and Technical Roadmap Working Groups to tension technical roadmap priorities against scientific roadmap priorities for development.
- The chair will act as "Lead Coordinator" of the overall direction and health of the project. This ensures decisions on significant technical issues will not get stalled by the various committees.
- Resolving conflicts in the technical roadmap which cannot be resolved by consensus.
- Calling regular meetings of the Working Group.
- Attend the User Meeting





Roadmap(s)

- Scientific Roadmap Working Group is grounded by informed technical input, and the work of the Technical Roadmap Working Group is grounded in the scientific priorities and requirements of the Collaboration.
- Each Working Group shall be responsible for development and curation of a five year roadmap. The Technical Roadmap Working Group shall be responsible for execution of both roadmaps for the immediate 12 month period.
- The Steering Committee is precisely the union of the two Working Groups. The objective of the Steering Committee is to coordinate and manage the long term direction of Mantid, aligning it with the agreed technical and scientific priorities. It meets as required (but at least annually) to resolve any major contention between scientific requirements and technical issues or where a significant external event impacts significantly on both the scientific and technical planning. It also produces an annual summary for the key stakeholders.







V6.11.0 – October 2024

- Formal deprecation policy
- Mantid-developer package introduced
- FindMultipleUMatrices
- IntegratePeaksSkew
- AlignAndFocusPowder compression improvements
- Reflectometry polarization
- QENS fitting interface
- Elwin tab of data proc GUI

V6.12.0 – February 2025

- Numpy 1 → 2
- Matplotlib 3.7 → 3.9
- Algorithm profiler usable without recompiling
- Mslice integration with ADS
- ISIS Reflectometry changes
- IntegratePeaks1DProfile
- CreateMonteCarloWorkspac e





- V6.13.0 July 2025
- First osx-amd64 version
- Python 3.11
- NeXus API takeover
- Polarized ISIS SANS

- V6.14.0 October 2025
- Last osx-64 version
- Optional mslice install
- Instrument view preview
- Slice viewer masking
- Polarized ISIS SANS
- ENGINX texture
- Vnext reduction prototype (VULCAN)





V6.15.0 – January 2026

- Drop osx-64
- Rattler-build for packages
- Migrate from Jenkins to github actions
- Systemtests run from ctest
- POLDI reduction
- OSIRIS Si Analyzer
- MIDAS reduction
- Vnext reduction

V7.0.0 – when it is ready

- Qt6 Qt5 is EOS May 2025
- Instrument view overhaul



Select Developer Meeting Notes

- LLM service in mantid workbench
- Using AI to develop mantid discussion
- CSNS using texture analysis
- Cppcheck fixes (>250 issues fixed)
- Converting manual tests to automated tests
- Faster builds (skip doxygen, remove unnecessary includes, create profile from build)
- Modularizing mantid discussion along facility lines