

## **Grand challenges, Strategic Roadmap and Consortia for Superconductor Electronics and Quantum Information Processing**

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***Abstract***—This contribution will report on the summary of the white paper on superconductor electronics and quantum information processing. This will include a shortlist of grand challenges for this white paper with an update on the corresponding technology readiness levels (TRLs) of the selected technologies and initial consortia membership addressing the identified grand challenges and the proposed strategic roadmaps together with the impact of adopting the strategic roadmap on UN 17's Strategic Development Goals.

***Keywords (Index Terms)***—Superconductivity Global Alliance (ScGA), superconductor electronics, quantum information processing

IEEE-CSC, ESAS and CSSJ SUPERCONDUCTIVITY NEWS FORUM (global edition), Issue No. 57, Oct 2024.

Presentation given at ASC 2024, Sept 2024, Salt Lake City, Utah, USA.