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## Quantum in and around the National Research Council of Canada

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The National Research Council Canada (NRC), as Canada's national laboratory, plays a crucial role in supporting the government of Canada's initiatives. In 2019, the NRC launched the Collaborative Science and Technology Innovation Program (CSTIP) to foster innovation and support Canadian businesses in adopting new technologies. The NRC has also received partial funding from the National Quantum Strategy (NQS) to support commercialization of quantum technologies. Among these initiatives, the Quantum Sensors Challenge Program (QSP) stands out, aiming to commercialize quantum sensors for industrial applications. This presentation will provide an overview of QSP's progress, success factors/metrics, the challenges, and the future directions.

QSP has achieved significant milestones, driving innovation and commercial capabilities in quantum sensing. Moving forward, QSP will leverage from collaboration with other government departments (OGDs), such as the National Sciences and Engineering Research Council (NSERC) and the Department of National Defense (DND), to fulfill its mission. In this talk, we'll also introduce the Applied Quantum Computing (AQC) challenge program, which focuses on developing quantum algorithms and software to enable scientific discovery and technological advancements.

Through these initiatives, NRC facilitates collaboration across private and public sectors to drive quantum innovation in Canada.

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