



# Q4Climate

The union of quantum and climate research

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## Why

Quantum technology is changing the way we think about how to solve certain impactful problems. Importantly, this relatively new paradigm has the potential to disrupt sectors with applications in areas of climate science, such as mitigation, adaptation and prediction. For this reason, quantum practitioners have a unique shot at helping to solve some of the singular challenges that our generation faces due to climate change.

## ABOUT US

Q4Climate is an initiative that gathers the research and industry communities together around quantum and climate sciences with the aim of developing new insights into how we may reduce the pace and impact of climate change. The project focuses on identifying new opportunities for research and on the development of quantum approaches to problems in climate science which are complemented with metrics to measure progress and impact in this area.

- ❖ Identify most promising use cases for quantum technologies and algorithms targeting the mitigation, adaptation and prediction of climate change.
- ❖ Find practical solutions using the highest possible scientific rigor.
- ❖ Write a white paper summarizing our findings, in part inspired by [related work on AI](#).
- ❖ Host a workshop in Canada in late 2020, which will also drive future stages of the Q4Climate project.

## WORKFLOW

The workflow of Q4Climate, from brainstorm to written report.