## Knowing the Risks

- **Description.** We saw in this challenge that the QAOA algorithm can help us to solve complex optimization problems. By finding more optimal solutions to planning problems, we can be more environmentally friendly, more energy efficient, and provide people with better experiences. Unfortunately, it rarely the case that such a new and powerful technology does not come without its own challenges. For example, practical quantum optimization requires very large quantum computers, which very few people currently have access to. Moreover, the optimization is still restricted to working within the constraints we humans define. As we saw in during our visit to the Ultra Fast Quantum Control Group, most quantum computers must be cooled close to 0 degree Kelvin, which is very expensive to do! Given this context, can you think of any negative consequences this technology might have on society? How might we navigate these challenges?
- Submission. A short paragraph.