

Executive Brief: Project Risk Mitigation Plan

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Executive Summary

This document outlines a strategic risk mitigation plan designed to address the primary obstacle facing our quantum computing optimization project: a **Technical and Financial “Catch-22”**. Our three-pronged approach is projected to reduce overall project risk by **47%**, from a score of 7.5 (High Risk) to 4.0 (Moderate Risk).

The Challenge

Our project faces a critical dependency cycle:

- **To secure funding**, we must demonstrate our technology on quantum hardware
- **To access quantum hardware**, we require significant capital investment
- **Result:** A blocking dependency that stalls progress

Initial Risk Score: 7.5 / 10 (HIGH RISK)

The Solution: Three-Pronged Mitigation Strategy

1. Low-Cost Validation

Generate tangible proof without major capital outlay:

- Prioritize pilot project on partner’s classical system (Eppendorf)
- Pursue academic partnerships (Fraunhofer Institute) for non-commercial quantum access

Expected Outcome: Third-party validated case study and initial benchmark data

2. Phased Investment Structure

Align capital deployment with milestones:

- **Phase 1 (Proof Tranche):** \$100,000 seed investment for pilot and benchmarks
- **Phase 2 (Scale Tranche):** 200, 000–300,000 triggered upon successful validation

Expected Outcome: Investors can “buy an option” with limited initial risk

3. Narrative Refinement

Turn perceived weakness into strategic strength:

- Reframe approach as fiscal prudence and capital efficiency
- Present lean, targeted experiment design to investors

Expected Outcome: Compelling pitch demonstrating responsible, logical planning

Projected Impact

Metric	Before	After	Change
Overall Risk Score	7.5	4.0	-47%
Risk Classification	HIGH	MODERATE	Improved
Investor Confidence	Low	High	Significant

Immediate Action Plan (Next 4 Weeks)

Action	Owner	Timeline
Finalize pilot proposal for Eppendorf contact	Jan Esderts	1-2 Weeks
Research academic partnership opportunities	Malcolm Carter / Jan Esderts	2-4 Weeks
Develop detailed Phase 1 budget and milestone document	Byron Callaghan	1 Week
Refine investor pitch deck with new phased narrative	Byron Callaghan	Immediate

Leadership Team

Name	Role	Key Expertise
Byron Callaghan	Project Lead	Strategic leadership, investor relations, emerging tech commercialization
Jan Esderts	Technical Lead	Quantum algorithms, classical-quantum hybrid systems, PhD ETH Zurich
Malcolm Carter	Research Director	Academic partnerships, Fraunhofer Institute experience, €4M+ grants secured
Sarah Chen	Finance Lead	Financial modeling, venture finance, CFA Charterholder
Ezra Eikmeyer	Operations Lead	Operational excellence, process optimization, cross-functional coordination

Combined Experience: 50+ years across quantum computing, deep-tech ventures, and research institutions.

Recommendation

We recommend immediate approval and execution of this mitigation strategy. The phased approach minimizes investor risk while providing clear validation milestones and a defined path to commercial success.

For inquiries or to schedule a discussion:

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This document is confidential and intended for potential investors and strategic partners.