



HORIZON EUROPE - PARTNER OFFER

Kū Quantum

Quantum sensing, frontier-AI & Edge computing solutions

Legal entity: bandarlog.dev Ltd

Trading name: Kū Quantum

Location: London, United Kingdom

Organisation type: Deep-tech SME

Call of interest: HORIZON-CL4-2027-04-DATA-08 — Demand-side 3C pilot demonstrators on converged Telco Edge Cloud Infrastructure

Participation sought: Technical development and application partner

Who we are

Kū Quantum is a UK deep-tech SME developing an edge-AI platform, proprietary AI models and quantum-sensing capabilities spanning multiple sensing modalities. We bring together expertise in quantum sensing, edge computing and frontier AI to develop applications for critical infrastructure and industrial environments.

Our work includes platform development, AI-model integration, sensor-data acquisition and interpretation, and experimental validation. Our target applications span energy, telecommunications, manufacturing, aerospace, space, maritime and transport.

What we offer a consortium

We are seeking a **technical partner** role, taking responsibility for a defined application-development, AI-integration or validation task within a DATA-08 demonstrator.



Working with infrastructure providers, research partners and end users, we propose to contribute:

- Edge-AI platform and application development: translating an operational challenge into application requirements and integrating suitable AI models and data inputs.
- AI-model development and integration: developing, adapting and evaluating proprietary and frontier-AI models against the application's technical and operational requirements.
- Quantum-sensing expertise: contributing sensing-modality selection, data acquisition, signal interpretation and integration where relevant to the demonstrator.
- Device-edge-cloud integration: working with infrastructure partners to deploy applications and evaluate where data processing and AI inference should take place.
- Testing and benchmarking: defining evaluation methods and assessing model performance, response time, resource requirements and practical usefulness.

Our contribution can centre on AI-platform development, model integration, quantum sensing, or a combination, according to the consortium's needs.

Development foundation

Our current work combines edge-platform development and proprietary AI modelling with quantum-sensing experimentation and data validation. This provides a foundation for a practical consortium role connecting technology development with application testing.

We would agree a focused delivery scope with the coordinator, including clear interfaces with infrastructure partners, measurable technical outputs and validation criteria defined with the end user.

Partners and opportunities sought

We would welcome discussions with:

- Experienced Horizon Europe coordinators seeking an SME to develop and validate an AI-enabled application.
- Telecom operators, private-network providers and edge/cloud infrastructure partners seeking applications to demonstrate the value of their infrastructure.
- Industrial and infrastructure end users with a defined operational challenge, relevant data and access to a demonstration environment.
- Research and technology organisations offering complementary expertise in AI, quantum sensing, distributed computing, orchestration, interoperability or security.



We are open to mobility and other relevant vertical demonstrators. We are particularly interested in consortia where an end-user challenge and infrastructure partners are identified, and where we can take ownership of a clearly scoped technical task.

Contact

Poonam Parihar | Founder

Kū Quantum - a trading name of bandarlog.dev Ltd

Email: poonamparihar@bandarlog.dev

Website: <https://bandarlog.dev>

Keywords: Edge AI; quantum sensing; frontier AI; proprietary AI models; application development; distributed inference; physical intelligence; critical infrastructure; telco-edge-cloud.