

HORIZON EUROPE

PROJECT PARTNER SEARCH FORM

☒ I offer my expertise to participate as a Partner in a Horizon Europe Project

☐ I am planning to coordinate a project and I am looking for Project Partners

Call Topic

HORIZON-CL3-2026-02-CS-ECCC-03 – Advanced cryptographic schemes and High-Assurance high-speed cryptographic implementations (post-quantum solutions for authenticated, secure sessions over insecure networks; High-Assurance Cryptographic Software and formal verification).

Project Type: Research & Innovation Action (RIA)

Are you working with any other partners on this topic?

In discussion with: Inria – Prof. Steve Kremer's team (PESTO / LORIA, France), formal verification of cryptographic protocols; and FIIT STU (Bratislava, Slovakia), hardware security and implementation attacks (Dr Xiaolu Hou), with the BlockFin group. We are seeking additional partners, including an experienced coordinator and at least one partner established in a third country.

Expertise / Commitment Offered

Metafund SAS is a French deep-tech SME specialised in post-quantum cryptography and sovereign trust infrastructures. We have developed a post-quantum cryptographic session layer that provides continuity, reconstruction and resilience of secure sessions, including in degraded or contested networks (forward secrecy, post-compromise security, anti-rollback, and a proven synchronisation guarantee).

The technology is built entirely on NIST-standardised primitives, is frugal (no dedicated coprocessor, deployable on constrained hardware), and is complementary to a post-quantum handshake rather than a replacement for TLS. It is dual-use (civil cybersecurity and defence). The underlying mechanism is protected as background IP (INPI e-Soleau anteriority; patent in preparation); at this stage it is described by its guarantees rather than its internals.

Founder profile: technical background with a documented independent research activity (ORCID).

Keywords: *post-quantum cryptography; session continuity, reconstruction and resilience; forward secrecy; post-compromise security; contested and degraded networks; NIST primitives; dual-use; cryptographic protocol; formal verification; constrained devices / IoT.*

Activity Offered: Research, Technology, Demonstration

Type of Organisation: Industry / SME

Involvement Proposed / Added-Value to Consortia

Metafund brings the post-quantum session-continuity layer as background IP, directly addressing the first facet of ECCC-03 (post-quantum solutions for secure sessions over insecure networks). This complements formal verification (Inria) and hardware-security / implementation-attack expertise (FIIT STU), so that the consortium covers both halves of the topic. Metafund can lead or co-lead a work package on the post-quantum session layer, its industrialisation into an auditable SDK, and its integration and validation in relevant (including constrained and contested) environments. The dual-use relevance aligns with the EU's strategic-autonomy priorities in cyber-defence and quantum-safe technologies.

Profile of Partner Sought

An experienced Horizon Europe coordinator able to write and manage an ECCC-03 (RIA) proposal; research partners in post-quantum cryptography, formal verification and hardware security; at least one partner established in a third country (beyond France and Slovakia) to meet the three-country eligibility rule; optionally, end-users (defence, payment, critical infrastructure) for dual-use validation.

Country / Region: EU Member States and Horizon Europe Associated Countries; a third country is specifically needed

Previous Experience

Previously participated in a Framework Programme (FP) European project?: No

As a newcomer to the Framework Programme, our track record comes from self-funded deep-tech R&D. Metafund is an applicant to the NATO DIANA 2027 accelerator (dual-use; cryptographic session-continuity for multidomain uncrewed autonomy in contested networks) and is undergoing deep-tech qualification with Bpifrance (BFTe). IP anteriority secured via INPI e-Soleau; patent in preparation.

Contact Data

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Organisation Type: Industry / SME

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Research Areas of Interest

Pillar 2 – Global Challenges & European Industrial Competitiveness: Cluster 3 (Civil Security for Society), Cluster 4 (Digital, Industry & Space).

Pillar 3 – Innovative Europe: European Innovation Council (EIC).

Consent to Information Sharing

I agree with the publication of my contact data: Yes

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