Partner search/offer

Date (19-01-24)

(*) – Mandatory

- **(*) Relevant topic(s) in work programme (code & name of the topic(s) line(s))**

HORIZON-CL4-2024-HUMAN-03-01: Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2024-HUMAN-03-02: Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)

HORIZON-CL4-2023-DATA-01-02: Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language (AI, data and robotics partnership) (RIA)

HORIZON-CL4-2023-DATA-01-04: Cognitive Computing Continuum: Intelligence and automation for more efficient data processing (AI, data and robotics partnership) (RIA)

HORIZON-CL4-2024-DATA-01-01: AI-driven data operations and compliance technologies (AI, data and robotics partnership) (IA)

HORIZON-CL4-2024-DATA-01-03: Piloting emerging Smart IoT Platforms and decentralized intelligence (IA)

HORIZON-CL4-2023-DIGITAL-EMERGING-01-01: Novel paradigms and approaches, towards AI-driven autonomous robots (AI, data and robotics partnership) (RIA)
European Leadership in Emerging and Enabling Technologies

HORIZON-CL4-2023-DIGITAL-EMERGING-01-57: Advanced imaging and sensing technologies (IA)(Photonics Partnership)

HORIZON-CL4-2023-DIGITAL-EMERGING-01-02: Industrial leadership in AI, Data and Robotics – advanced human robot interaction (AI Data and Robotics Partnership) (IA)
European Leadership in Emerging and Enabling Technologies

HORIZON-CL4-2023-DIGITAL-EMERGING-01-11: Low TRL research in micro-electronics and integration technologies for industrial solutions (RIA)

HORIZON-CL4-2024-DIGITAL-EMERGING-01-03: Novel paradigms and approaches, towards AI-powered robots– step change in functionality (AI, data and robotics partnership) (RIA)

HORIZON-CL4-2024-DIGITAL-EMERGING-01-04: Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition (AI Data and Robotics Partnership)

HORIZON-CL4-2023-HUMAN-01-03: Natural Language Understanding and Interaction in Advanced Language Technologies (AI Data and Robotics Partnership) (RIA)

HORIZON-CL4-2023-HUMAN-01-11: Next Generation Internet Fund (RIA)

HORIZON-CL4-2023-HUMAN-01-12: Pilots for the Next Generation Internet (IA)

HORIZON-CL4-2023-HUMAN-01-21: Next Generation eXtended Reality (RIA)

HORIZON-CL4-2023-HUMAN-01-22: eXtended Reality for Industry 5.0 (IA)

HORIZON-CL4-2024-HUMAN-01-06: Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)

HORIZON-CL4-2024-HUMAN-01-07: Collaborative intelligence – combining the best of machine and human (AI Data and Robotics Partnership) (RIA)

- **Quick description of the project concept**

Describe the
- **objectives,**
- **activities,**
- **type of partners already involved and their skills**
- **partners requested and their skills**

- **(*) Description of the expertise requested/proposed (up to 1000 characters)**

Expertise proposed: AI chip/chiplet design, AI-enabled ASIC solutions, semiconductor IP design (neural processor subsystem), memory expertise (in-memory computing, non-volatile technologies), custom AI processor. AI technics for embedded applications (IoT, edge AI), software development (modeling, quantization, firmware/compiler level), hardware-constrained devices, deep learning, CNN, transformers, LLM, generative AI.

Expertise requested: modeling/data science, board design, AI-powered embedded systems development, embedded AI application development (wearables, IoT, drones and robotics, cameras, automotive, datacenters).

- **(*) Keywords describing the expertise requested/proposed (up to 10 words)**

Proposed: AI chip/chiplet/IP design, AI software for embedded, deep learning, computer vision, LLM, generative AI

Requested: data science, AI models, board design, AI for embedded systems, AI applications

Organisation information

(*) Organisation and country: **Neurxcore, France**
(*) Type of organisation: ☐ Enterprise ✘ SME ☐ Academic ☐Research institute ☐ Public Body ☐ Other: Association
Former participation in FP European projects? ☐ Yes ✘ No
Web address: **https://neurxcore.com/**
Description of the organisation: **Neurxcore is a fabless semiconductor company developing AI processors (neural processors for deep learning) combining digital and/or in-memory computing (SRAM/Flash) technics to achieve high-energy efficiency and high throughput. These neural processors are highly configurable, tunable and can cover computer vision, natural language processing (LLM) and generative AI applications from IoT/sensors to datacenter.**

(*) Contact details

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