



Pilot using Independent Local & Open
Technologies

The European Pilot in a nutshell

Project overview



The European PILOT project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No.101034126. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Spain, Italy, Switzerland, Germany, France, Greece, Sweden, Croatia and Turkey.

www.eupilot.eu

Overview

Project Information

The European PILOT

Grant agreement ID: 101034126

Start date

1 December 2021

End date

31 May 2025

Funded under

H2020-EU.2.1.1.

H2020-EU.2.1.1.2.

Overall budget

€ 29 999 925

EU contribution

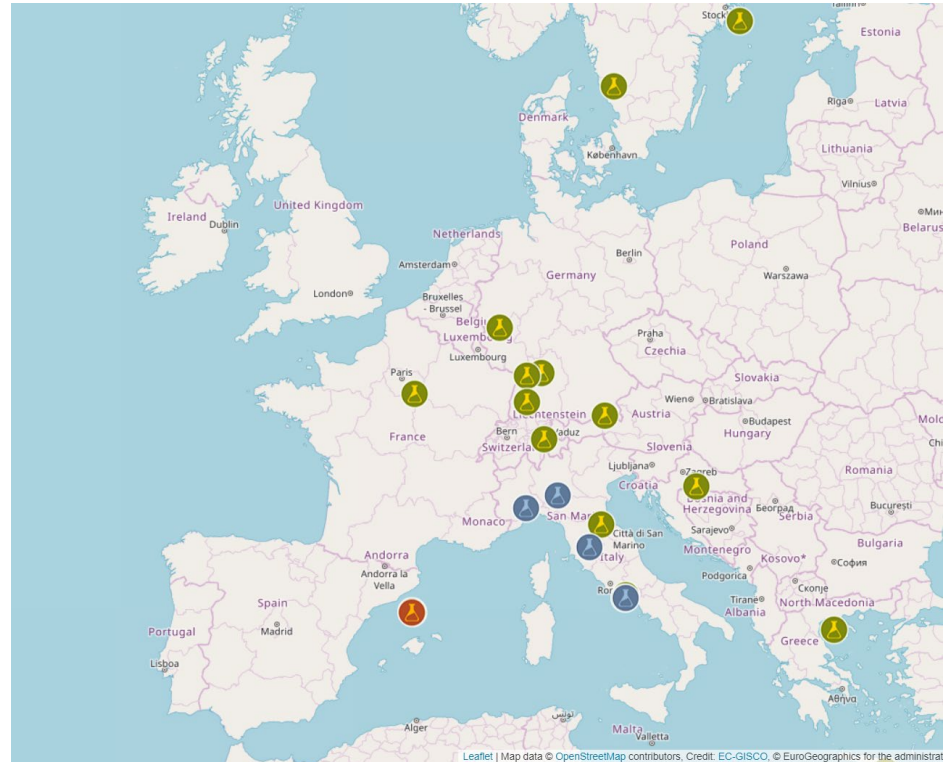
€ 14 999 962,51



Coordinated by

BARCELONA SUPERCOMPUTING CENTER-
CENTRO NACIONAL DE SUPERCOMPUTACION

Spain

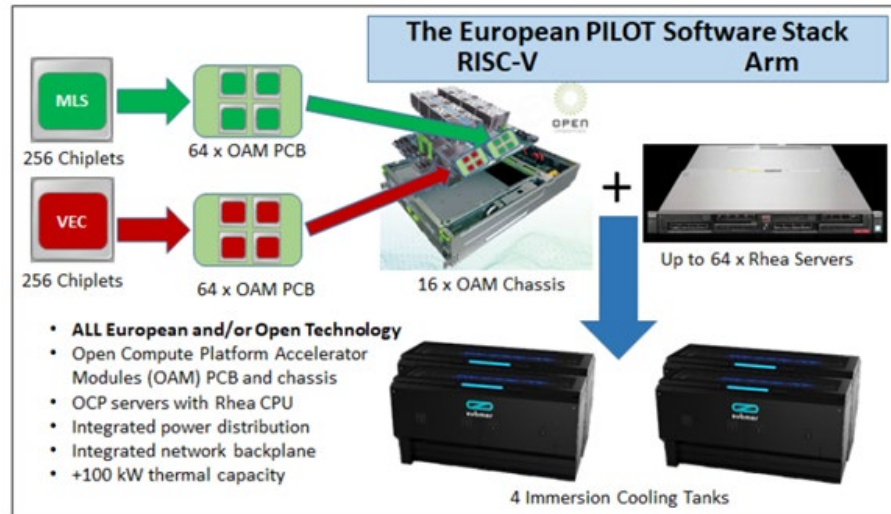


Partners



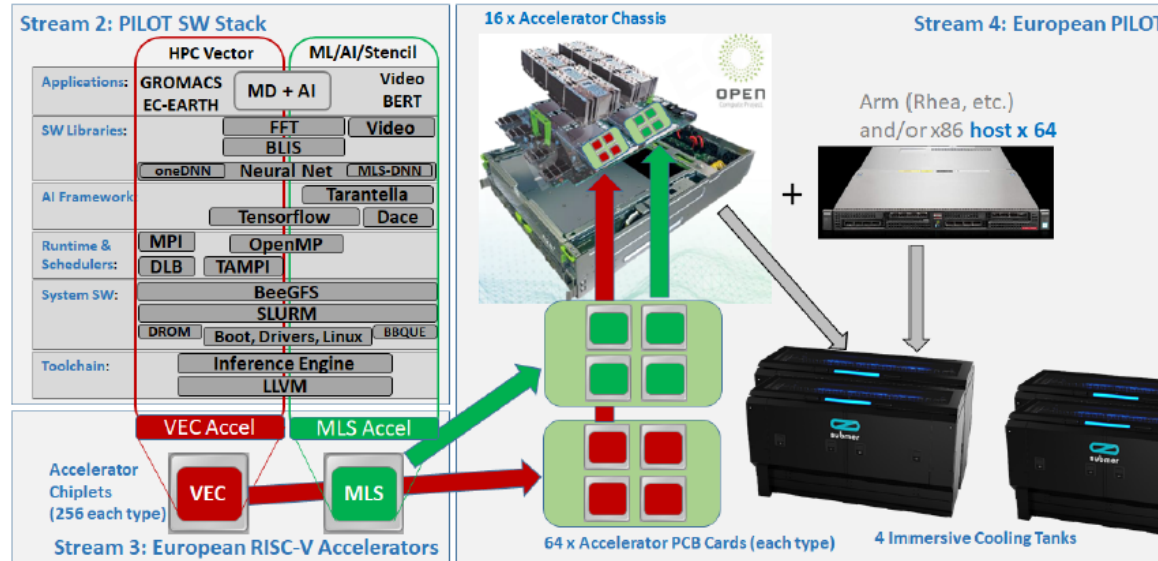
Motivation

- The aim of the European PILOT project is to design, build, and validate the first EU-based accelerator platform for HPC (including compute-intensive AI), covering the whole spectrum of required technologies with European assets.



Approach

- The European PILOT contains three streams to deliver an **All-European open source and open standard based software and hardware integrated system.**



Objectives

The European PILOT project's overall goal is to **demonstrate an all European technology** by achieving the following objectives:

- Extend open source to include open source hardware for HPC.
- Software/hardware co-design for improved application performance and system energy efficiency.
- HPC and HPDA applications.
- System software.
- System integration innovations.
- Stimulate European collaboration.
- Combine industry standard methodology and cutting-edge research to accelerate exploitation.

Vision

- The European PILOT is tackling the opportunity that Europe has to drive the adoption of the **rapidly growing RISC-V ISA ecosystem** and the **Open Compute Platform**.
- The ecosystem could include a variety of **RISC-V** cores, extensions, application-specific accelerators, as well as of a software stack, across a spectrum of performance targets for different markets.

Impact

- The European PILOT is an ambitious project with the main objective of **demonstrating a collection of research, pre-production and production components running a full HPC/HPDA software stack.**
- The expected impacts are high, at the European and global level, providing a **full accelerator technology** as a foundation **for European Exascale systems.**
- The capabilities of the **RISC-V** ecosystem will be **extended** further into the **HPC and HPDA domains.**

Thank you and stay tuned!

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THE **EUPILOT**

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