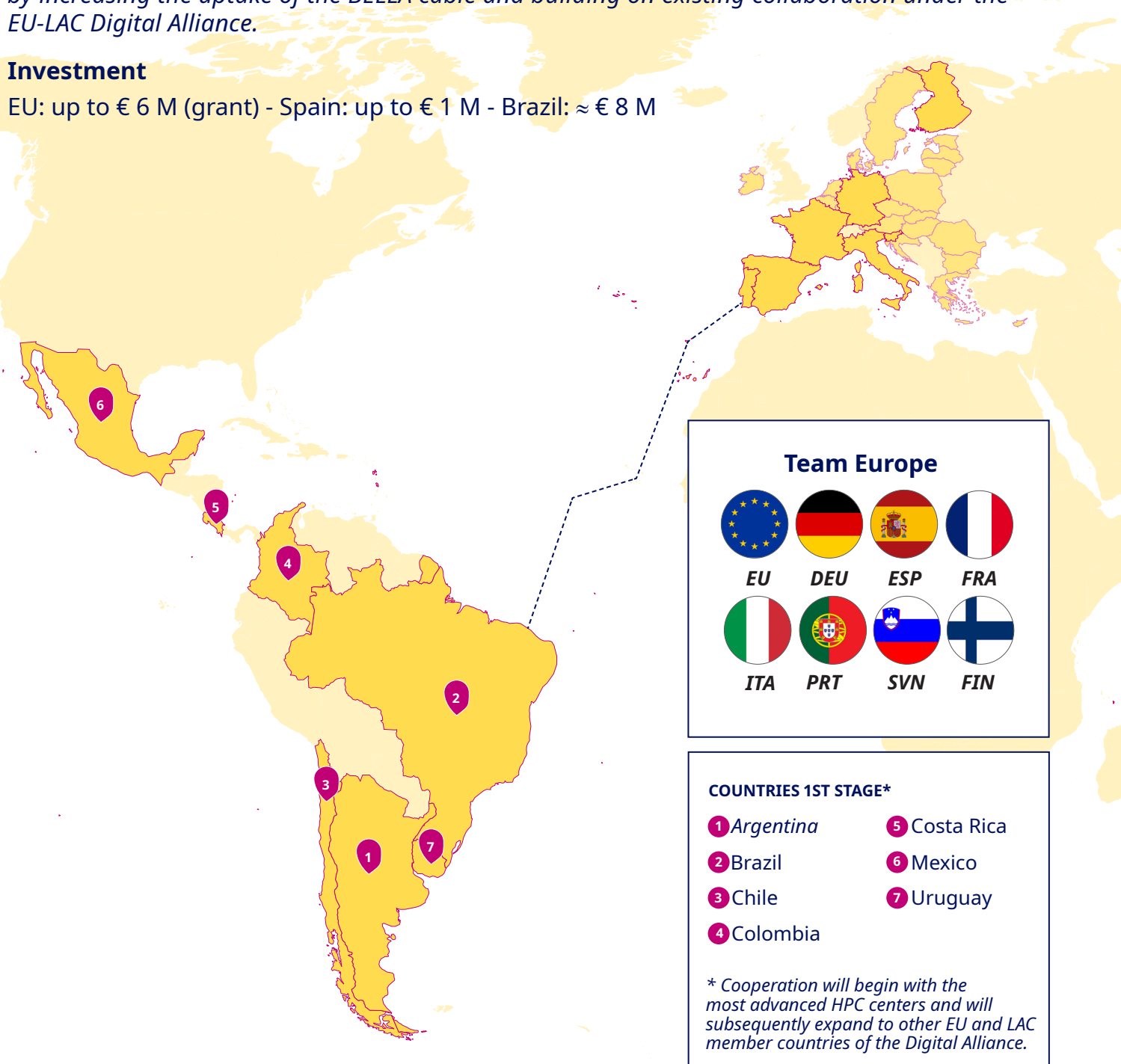# High Performance Computing: Establishing an EU-LAC Supercomputing Network for AI

The EU-LAC Supercomputing Network connects Europe with Latin America to boost research, innovation, and technology partnerships. By sharing powerful computing resources, the network enables scientists to develop solutions to global challenges such as climate change, public health or clean energy.

The purpose of the network is to enhance the use of existing HPC resources within Latin America and to promote their connection with the European HPC ecosystem. This can be done by increasing the uptake of the BELLA cable and building on existing collaboration under the EU-LAC Digital Alliance.

Investment

EU: up to € 6 M (grant) - Spain: up to € 1 M - Brazil: ≈ € 8 M

Team Europe

EU · DEU · ESP · FRA
ITA · PRT · SVN · FIN

COUNTRIES 1ST STAGE*

1 *Argentina*
2 Brazil
3 Chile
4 Colombia
5 Costa Rica
6 Mexico
7 Uruguay

* Cooperation will begin with the most advanced HPC centers and will subsequently expand to other EU and LAC member countries of the Digital Alliance.

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Context

As part of the EU-LAC Digital Alliance, a Joint Statement of Intent has expressed the intention of the High-Performance Computing (HPC) centres in the European Union and in Latin America and the Caribbean (LAC) to participate in the consortium that was established for the design, development, and implementation of the EU-LAC Supercomputing Network. The initiative builds upon the foundations laid by previous European funded programmes that contributed to bridging EU and LAC HPC researchers and technical communities.

The European Commission has entered an agreement with the European High-Performance Computing Joint Undertaking (EuroHPC JU) to support the establishment of the EU–LAC Supercomputing Network. Within this context, the HPC centres from EU Member States and LAC countries agreed to work together towards the set-up of an EU-LAC Supercomputing Network, with the objective of enhancing the use of existing HPC resources within Latin America and the Caribbean and promoting their interconnection with the European HPC ecosystem.

Main objectives

1. Promote shared High-Performance computing (HPC) capabilities, to maximise resource efficiency
2. Enhance skills with capacity building and training programmes
3. Strengthen scientific collaboration through the development of joint use-cases
4. Develop and deploy AI-based applications to address societal challenges
5. Increase the uptake of the BELLA Cable infrastructure in actively connected countries

European Partners

- EuropeHPC JU (The European High Performance Computing Joint Undertaking)
- BSC (Barcelona Supercomputing Center, Spain)
- INRIA (National Institute for Research in Digital Science and Technology, France)
- JSC (Jülich Supercomputing Centre, Germany)
- CINECA (Inter-University Consortium for High Performance Computing, Italy)
- CNCA (National Centre for Advanced Computing, Portugal)
- CSC-IT (Center for Science, Finland)
- IZUM (Institute of Information Science, Slovenia)

LAC Partners

- SCALAC
- RedClara
- LNCC (National Laboratory for Scientific Computing, Brazil)
- Clementina XXI Governance Committee (Argentina)
- CENIA (National Center for Artificial Intelligence, Chile)
- NLHPC (National Laboratory for High Performance Computing, Chile)
- CNCA (National Center for Advanced Computing, Costa Rica)
- IPICYT (Institute for Scientific and Technological Research of San Luis Potosi, Mexico)
- ClusterUY (National Supercomputing Center, Uruguay)