Il Centro Nazionale di Ricerca in HPC, Big Data e Quantum Computing

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Cloud national infrastructure for supercomputing. Hub & Spoke organization:
10 vertical spokes for technology developments and software applications

320 + 41 M€ Total Budget
139 M€ Cloud Infrastructure
32 M€ Open Call
32 M€ Innovation & TT
42% investment South Regions

34 MUR Universities and Research institutions
15 Private Companies
1575 Researchers and engineers
250 New Temporary positions
250 New PhD
40 % Female

Approved !!!
The ICSC aim and objectives

Create the national digital infrastructure for research and innovation, starting from the existing HPC, HTC and Big Data infrastructures ...

... evolving towards a cloud datalake model accessible by the scientific and industrial communities through flexible and uniform cloud web interfaces, relying on a high-level support team ...

... form a globally attractive ecosystem based on strategic public-private partnerships to fully exploit top level digital infrastructure for scientific and technical computing and promote the development of new computing technologies.
equipped with high-level teams of experts integrating the Spokes working groups (mixed cross-sectional teams)
Public Research Institutions Founding Members: a pervasive initiative throughout Italy
Private companies Founding members: strategic players for digital transformation

Highly-qualified group of large leading companies covering most of the strategic industrial sectors involved by digital transformation in Italy

fondazione innovazione urbana

Strategic partner to implement and develop the digital twin pilot case of an urban complex system

iFAB

Industry-driven not-for-profit international organization aimed at: (1) aggregating companies, including SMEs, to engage with ICSC through a structured partnership, (2) funding research and innovation projects, (3) promoting the Big Data Technopole
The Big Data Technopole, Bologna
Access Policy to ISCS Infrastructure

Coming soon: Supercomputing Access Committee

The Committee has the task of evaluating the requests for access to the infrastructure connected to Open Calls and allocating the computing resources in accordance with the Access Policy of the CN, in analogy to the European model Prace and the Cineca ISCRA Panel.