

The Italian High-Performance Computing, Big Data e Quantum Computing Research Centre: status and perspectives

Tuesday, 26 September 2023 09:30 (40 minutes)

ICSC, established in September 2022 and run by the ICSC Foundation, is the Italian High-Performance Computing, Big Data e Quantum Computing Research Centre. It is one of the five National Centres funded by the Italian National Recovery and Resilience Plan (NRRP) with about 320 MEuro each.

The ICSC activities focus on the one hand on the maintenance and upgrade of the Italian HPC and Big Data infrastructure with the aim to build a national, cloud-native data lake. On the other, on the development of advanced methods and numerical applications and software tools to integrate computing, simulation, collection, and analysis of data of interest for research, manufacturing, and society. Its overall goal is to support both scientific research and industry.

This contribution will discuss the current status of ICSC, its governance and activities, as well as some collaboration opportunities.

Finally, it will give some perspectives on the sustainability of this key National infrastructure beyond the NRRP funding period.

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Session Classification: IBERGRID Special Topics

Track Classification: Datacenter and digital infrastructures development and status reporting