

# Italian Tiers hybrid infrastructure for large scale CMS data handling and challenge operations

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The CMS experiment is travelling its path towards the real LHC data handling by building and testing its Computing Model through daily experience on production-quality operations as well as in challenges of increasing complexity. The capability to simultaneously address both these complex tasks on a regional basis - e.g. within INFN - relies on the quality of the developed tools and related know-how, and on their capability to manage switches between testbed-like and production-like infrastructures, to profit from the configuration flexibility of a unique robust data replication system, to adapt to evolving scenarios in distributed data access and analysis. The work done in INFN in the operations of Tier-1 and Tier-2's within event simulation, data distribution and data analysis activities, in daily production-like activities as well as within LCG Service Challenges testing efforts, are here presented and discussed.

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