

WLCG strategy for HL-LHC

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Abstract: The Worldwide Computing Grid (WLCG) is a global collaboration that provides the computing infrastructure essential for the CERN Large Hadron Collider experiments. Spanning over 40 countries, it delivers approximately 3 exabytes of storage and 1.3 million CPU cores to support scientific research. Recently, WLCG launched a multi-year strategy to prepare for the next phase of the LHC's scientific program, the HL-LHC at the end of the decade. HL-LHC will bring unprecedented challenges in terms of data volume and complexity. This contribution will present how WLCG intends to prepare for that challenge and how it intends to ensure the long-term sustainability of its infrastructure and services.

Simone Campana is senior staff member at CERN and currently the head of the Worldwide LHC Computing Grid (WLCG). He is a member of the CERN Information and Technology (IT) department head office and he is currently in charge of the engagement process between the department and the user communities. Simone obtained his PhD in Particle Physics at the University of California in 2003 and worked in software and distributed computing projects since then. He was project leader of the Data Management system of the ATLAS experiment at CERN, the responsible for ATLAS distributed computing, the WLCG Service and Operations coordinator and the ATLAS Software and Computing Coordinator.

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