

# Analysis of the Use, Value and Upcoming Challenges for the Open Science Grid

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The Open Science Grid usage has ramped up more than 25% in the past twelve months due to both the increase in throughput of the core stakeholders –US LHC, LIGO and Run II –and increase in usage by non-physics communities. We present and analyze this ramp up together with the issues encountered and implications for the future.

It is important to understand the value of collaborative projects such as the OSG in contributing to the scientific community. This needs to be cognizant of the environment of commercial cloud offerings, the evolving and maturing middleware for grid based distributed computing, and the evolution in science and research dependence on computation. We present a first categorization of OSG value and analysis across several different aspects of the Consortium's goals and activities.

And last, but not least, we analyze the upcoming challenges of LHC data analysis ramp up and our ongoing contributions to the World Wide LHC Computing Grid.

## Presentation type (oral | poster)

oral

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