



Contribution ID: 184

Type: Talk

## Cost Optimization for High Performance Computing and Research (Capex to Opex Conversion)

*Wednesday, 30 November 2022 10:15 (30 minutes)*

High Performance Computing for Research has always been a capital heavy expenditure, which includes servers, construction of Large Data centers and also other components to support this infrastructure such as 24\*7 power and cooling. Today's research involves running high performance server clusters in a grid to solve complicated problems, but the access to capital for researchers to build scalable higher performance computing grids is always a challenge. This topic largely focuses on how high performance computing clusters can be scaled and built using Opex based models allowing a much more user friendly charging model based on usage requirements. This allows sharing of infrastructure across multiple research organizations and also to leverage innovations in Data centers such as cooling, Quantum computing, etc.

**Primary author:** Dr NGCABA, Andile (Convergence Partners Investments)

**Presenter:** Dr NGCABA, Andile (Convergence Partners Investments)

**Session Classification:** Data Centre Optimisation

**Track Classification:** HPC Technology