Domain-Oriented Services and Resources of Polish Infrastructure for Supporting Computational Science in the European Research Space —

PLGrid Plus

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PLGrid Plus project serves Polish scientific communities enabling extensive cooperation among them, as well as international cooperation in the scope of research activities in the area of e-Science.

The e-infrastructure requirements of the scientific communities are highly diversified and depend on the scientific field. The differences may relate to computing power and type of computing infrastructure, software resources and databases, as well as a unique measuring/research equipment, which is a part of the infrastructure.

To harmoniously support, in terms of IT, both, the development of scientific research in the various problem areas and researchers, it is necessary to fit the characteristics of the IT infrastructure to problems being the subject of research, which is the most important task implemented within the PLGrid Plus project.

Currently, domain-specific solutions are being created for the following groups of users, representing the strategic areas and important topics for the Polish and international science:

AstroGrid-PL · Quantum Chemistry & Molecular Physics · Life Science · SynchroGrid · Materials · Nano-technologies · Energetics · HEPGrid · Health Sciences · Metallurgy · Ecology · Acoustics · Bio-informatics

www.plgrid.pl
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The new services will provide a significant extension of the Polish computing infrastructure, which has been built since 2008 within the PL-Grid project. Currently, scientists use 7 million CPU-hours on average and execute about 1 million jobs per month. They have access to computing resources including more than 230 TFlops of computing power and more than 3.6 PBytes of storage space. Within the PLGrid Plus project it is planned to extend these resources three times.

All interested in cooperation, please contact us through the Helpdesk system: **helpdesk AT plgrid.pl**

INVITATION

We invite scientists from these and other areas to take advantage of the PLGrid Plus project offer: we will jointly prepare the specific computing environments for each research group, i.e., services, tools and computing infrastructure (including software), tailoring them to your needs.