CBG Computing initiative for CERN

Ideas for the joint Tier2 computing project

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Objectives

- To connect in federative configuration CBG HEP computing resources and to set-up working (upgradable) infrastructure.
- To set platform for further collaboration and expansion -> attraction of resources.
- To create working TIER2 center in Latvia and to connect it with Estonian Tier2 (two entry points) and Lithuanian HEP centers.
- To prepare tangible proposal for further EU and national funding.
- To contribute in meaningful way to CERN/CMS computing needs, bearing in mind further upgrades and data processing needs.
- To set-up expert teams and educate/engage students in HEP computing in the doctoral programme.
- To establish outreach to schools in Baltics -> Tier3 computing@school – pilot facilities in the Baltic schools to test the platform and to engage – support from BA.
In practice

- To meaningfully engage interested CBG partners
- Potential for Tier1 federate network in Baltics (ex Baltic Grid)
- To link with CERN initiatives: CMS and others
- To get direct expertise from CERN
- To engage 3 PhD students: EE, LV, LT
- To put 3 master students with them /HEP related
- To link with IPOG activities
- To link with Cloud computing EU and national activities
- Computing security under CERN strict rules

- We have 520 000 of Latvian funding available
Network for partnership
- pooling resources together

NICB/Tier2

RTU/HEP

EE resources

LV resources

LT resources

CERN

Capacity for other tasks, when not HEP

Computing resources for HEP research of CBG
CERN Baltic Group

We are strong together