

HOST Project and H2020 collaboration perspectives

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HOST project



- Goal: transformation of the Research Center in CS of UVT in the following directions:
 - widen the research & development knowledge & experience in HPC services & their applications;
 - raise no. users of the services of the data centre;
 - achieve status of EU-regional supercomputing centre & stakeholder in national & international e-Infra initiatives;
 - become a centre for supporting innovation & regional development.

• Funded:

by EC, FP7-REGPOT, programme, Jan 2012-Dec 2014

Action plan:

- collaborations with EU stakeholders in HPC (CINECA, EPCC, INRIA, PSNC, UEX)
- upgrades of the e-infrastructure,
- employment of experienced researchers
- the organization of scientific events.







HOST project



- Details at: http://host.hpc.uvt.ro
- GPU cluster
- Research directions & new positions:
 - HPC-as-a-Service
 - Scheduling
 - Satellite data processing
 - Large scale numerical computations
 - HPC-based artificial intelligence
- 7 workshops to organize (3 in 2014)
- Open access (including mobilities)
 - For the teams interested to collaborate with the project team



Infrastructure





Label	Computing power	Computing units	Internal memory	Externalmemory
[InfraGRID*] Cluster	1.5 TFlops	400 cores	500 GB	13.5 TB
[ICAM] BlueGene/P	13 TFlops	4096 cores	4 TB	28 TB
Total before HOST	14.5 Tflops	4496 cores	4.5 TB	41.5 TB
[HOST] GPU Cluster	. 3.6 Tflops	3100 CUDA cores	. 224GB + 42GB (GPU)	16.5 TB
Total after HOST:	18 TFlops		4.8 TB	58 TB



ICT in H2020 WPs 2014-2015



