



HPC Service Center

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HOST project



- **Goal:** transformation of the Research Center in CS of U of L into 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 of 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>
- **Research directions & new positions:**
 - HPC-as-a-Service
 - Scheduling
 - Satellite data processing
 - Large scale numerical computations
 - HPC-based artificial intelligence
- **6 workshops to organize**
 - WPCI - April 2012/WoHS - Sept 2012
 - 22-23 March & 26-28 September 2013
<http://host.hpc.uvt.ro/events/workshop-of-e-infrastructure-for-public-sector/>
- **Open access (including mobilities)**
 - For the teams interested to collaborate with the project team

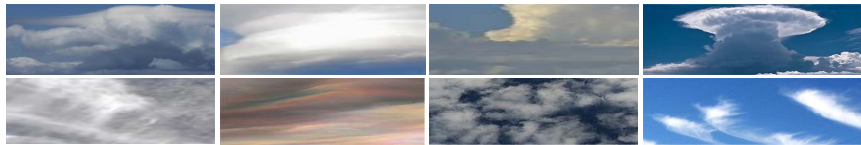




In the context of the team activities



The Sky of today
What experiences the earthling



The Sky of tomorrow?
What wants the earthling



Help is on the way!
What tools can use the earthling?

MODAClouds
www.modaclouds.eu

- decision support system
- model-driven development
- open-source IDE
- automatic code generation
- deployment on multi-Cloud

mOSAIC
www.mosaic-cloud.eu

- vendor agnostic API
- open-source & deployable PaaS
- brokerage system
- semantic support

AMICAS
amicas.hpc.uvt.ro

- scheduling in multi-Cloud
- auto-scaling mechanism
- Cloud governance
- multi-Cloud resource management

HOST
host.hpc.uvt.ro

- HPC in the Cloud
- HPC SaaS for engineering and science

SEED
www.seed-project.eu

- SaaS for citizens
- Real time feeds on outdoor display
- Infos from government, culture, alarms

