HEROES

Optimised Usage of Hybrid HPC Infrastructures

Improve Time-to-Result
Manage Costs
Be Energy-Efficient

HEROES' objective is to develop an innovative software platform addressing industrial and scientific user communities

The HEROES platform will enable users to:

- Access seamlessly the HPC centres and cloud infrastructures available to their organisation

- Choose the best option to submit their complex simulation and machine learning workflows

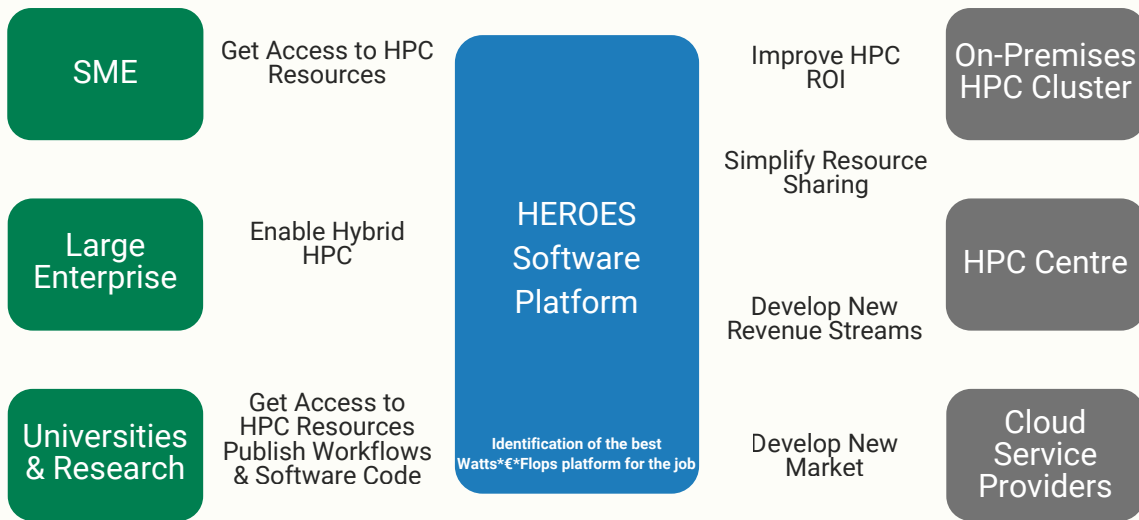- Get their result in time, within budget and in an eco-responsible way

3 countries, 5 expertises:

UCIT   HPC Now!   doit SYSTEMS

Barcelona Supercomputing Center
Centro Nacional de Supercomputación (BSC)

NEOVIA INNOVATION

HEROES

TOWARDS A EUROPEAN HPC ECONOMY

By facilitating the creation of HPC marketplaces where end users can connect easily to HPC resources, the HEROES Software Platform will accelerate HPC adoption in scientific and industrial processes and create opportunities for HPC resource providers to publish their services.

The HEROES Platform is designed to be non-intrusive for Service Providers whether they choose to publish infrastructure through a specific job scheduler queue, or a workflow made of containerized applications.

SME	Get Access to HPC Resources		Improve HPC ROI	**On-Premises HPC Cluster**
Large Enterprise	Enable Hybrid HPC	**HEROES Software Platform**	Simplify Resource Sharing	**HPC Centre**
Universities & Research	Get Access to HPC Resources Publish Workflows & Software Code	**Identification of the best Watts*€*Flops platform for the job**	Develop New Revenue Streams / Develop New Market	**Cloud Service Providers**

The HEROES Software Platform includes the following modules:

- Identity & Security Management
- Data Transfer & Storage
- User Interfaces & APIs
- Application and Container Lifecycle Management
- Cloud Cluster Deployment
- HPC Centre Cluster Integration
- Logging & Accounting Services
- Energy Monitoring & Optimisation
- Pricing and Cost Management
- Workflow & Job Orchestration

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