

Services Catalogue

SESAME Net enables an easier access to member services, which include:

Consulting services

SESAME NET has local contact points across the European union, and offer consulting services in many languages, which include advice on specific domains.

Substantial expertise

Members offer vast expertise in data modelling, simulation, data analytics etc. in various domains and assist in the development and use of HPC applications for solving diverse practical problems.

Technical training

The network provides customised technical training at both introductory and advanced levels, performance benchmarking, code optimisation and user-sport for software development to member SMEs.

Services

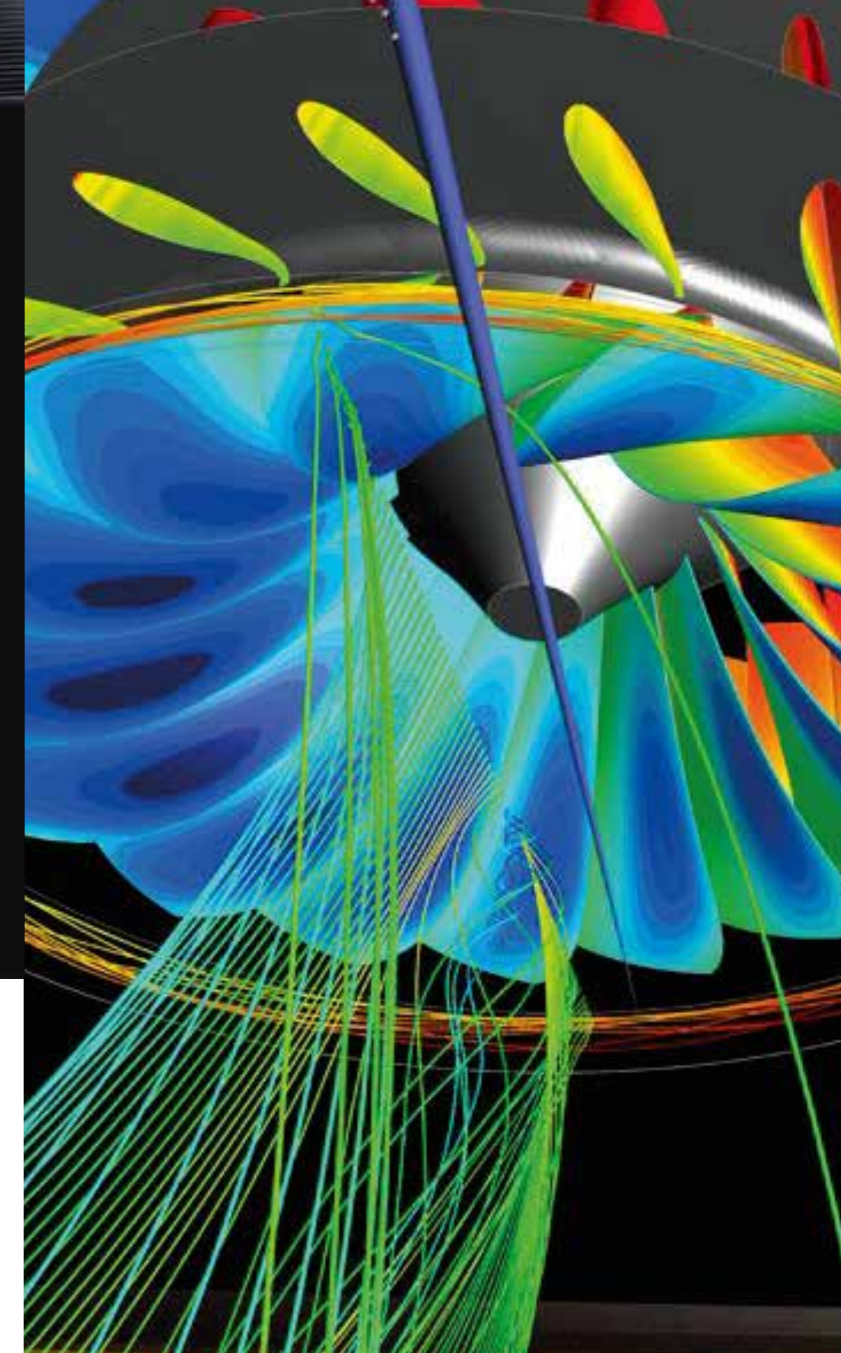
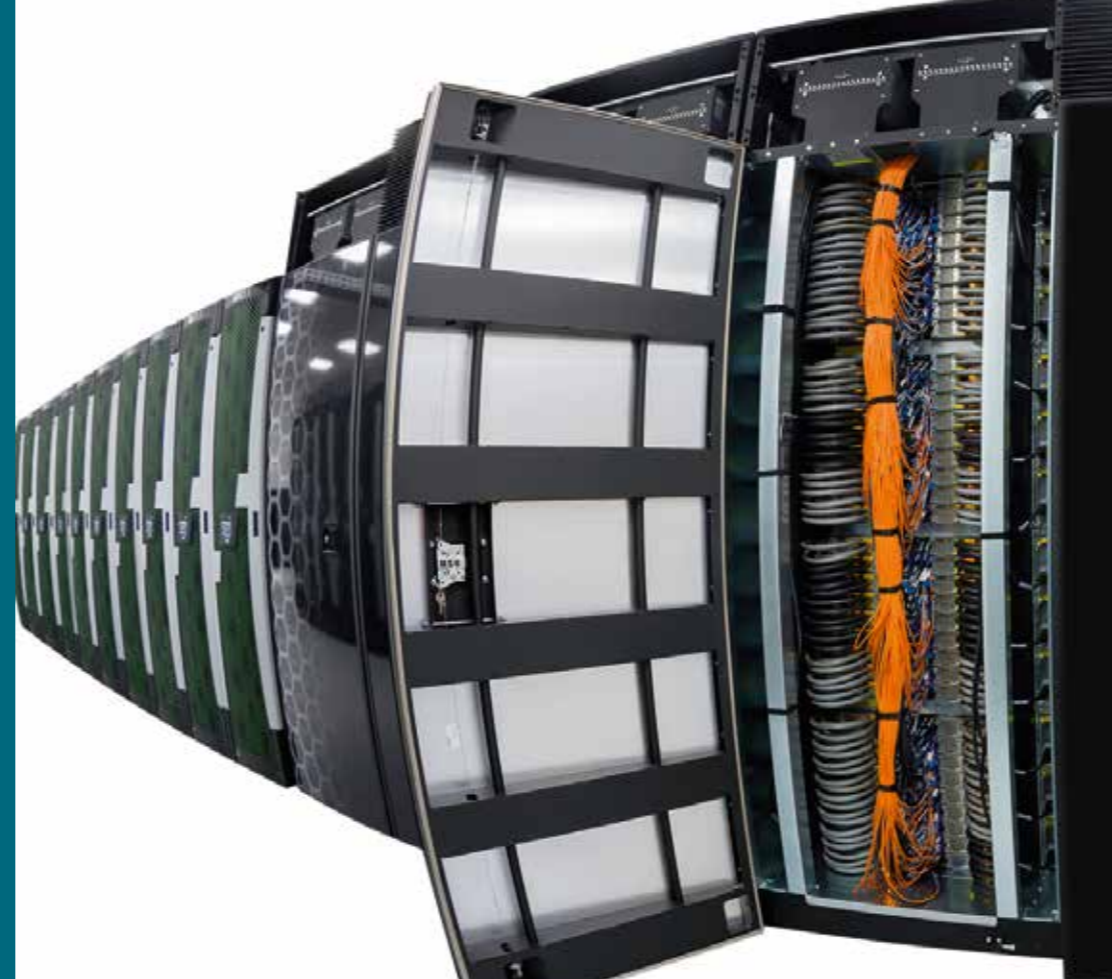
- HPC resources
- Wide range of HPC applications and software
- Software development & Code optimization services
- Performance benchmarking
- HPC & Cloud infrastructure management
- HPC Technologies like FPGA-technology
- Access to novel technologies such as many-core processors, GPUs and FPGAs

Forum and online platform

SESAME Net's website contains illustrative Use Cases of successful collaborations between HPC Competence Centres and SMEs and further information material. The forum allows SMEs to directly contact our experts.

Provision of comprehensive information

On a regular basis partners summarize available funding opportunities in Europe, possible collaboration opportunities and European wide events, training courses and workshops.



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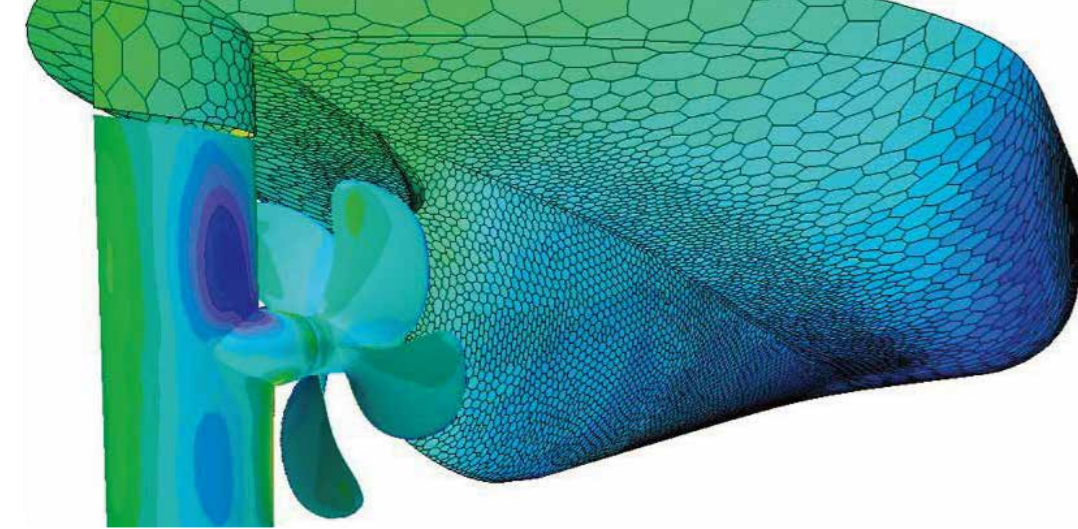
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sesamenet
SUPERCOMPUTING EXPERTISE FOR
SMALL & MEDIUM ENTERPRISE NETWORK

**Discover High Performance Computing
by SESAME Net**



Discover High Performance Computing

A network of internationally recognised HPC Centres and organisations joined forces to establish an open and inclusive network to raise awareness on High Performance Computing (HPC) to European SMEs.

With a diverse set of expertise; from simulations, data science to machine learning and big-data analytics, the network offers consultancy and training services to interested SMEs, helping them acquire and build internal skills and expertise when it comes to utilising HPC.

High Performance Computing?

The vast increase of computational power in the last decades has created exciting opportunities. Supercomputing or High-Performance Computing (HPC) has become an indispensable tool for industry and academia to innovate in such domains as Computer aided engineering, simulations, renewable energy, financial services, satellite, Earth observation, advanced image analysis, data science and precision agriculture. But it doesn't stop there: supercomputing can help your business too.

Supercomputing can help spark your business innovations. It can improve design turnaround time for new products, reduce time to market and increase your overall competitiveness. 97% of companies that have adopted the technology said they could not compete or survive without it (IDC, 2014).

HPC Benefits

Competitive advantage

Typically, new products are developed with a combination of physical experiments and simulations. Having large computing power for large and complex simulations opens possibilities for new ideas, new products and innovation. By affording to run multiple simulations with different input parameters in a reasonable amount of time, HPC systems offer the possibility to adapt the simulation closer to the experiments or to optimize products through simulations. Using HPC enables a much faster time-to-market and thus a first-mover advantage and allows a bigger manoeuvrability to adapt to the changing conditions of modern markets.

Make faster and better decisions

Big data analytics enable companies to rapidly analyse large datasets, while incorporating data mining and machine learning techniques. This combination allows for a better and faster decisions to be made that can positively impact the operational efficiency of the organisation.

Acquire a higher reputation

Across the industry, many products benefit when they get built using the latest technology. HPC, can present a company as a cutting-edge and innovative organisation. It may also assist in strengthening their customer trust and brand loyalty, which can positively effect the company's market position.

Cost reduction and profit boost

Using HPC can help reduce the costs associated with the design and prototyping stage of product development, as well as the operational costs for some organisations. Big-data analytics can help identify new markets and services that could lead to a growth in revenue, and operational expansion of the business.



Benefits of accessing HPC through SESAME Net

Benefit from expertise

SESAME Net operates large and accessible HPC infrastructures, and can provide interested SMEs the means to acquire and build internal HPC skills and expertise.

Minimize costs

Using a Cloud-based HPC system on a pay-per-use basis is for most SMEs less expensive than owning and maintaining a sufficiently powerful in-house system.

Stay up to date

A close collaboration between SMEs and HPC centres facilitates the access to innovative products in the area of HPC technology or applied sciences and enables SMEs to rapidly incorporate new technologies in their product portfolio.

Benefit from an excellent reputation

Network members have internationally recognised domain expertise. Their status is based on many successful collaborations with many and diverse stakeholders coming from different business sectors. A mutual collaboration could lead to positive effects on both sides.

Profit from diversified services

The service catalogue at the back page presents an overview of SESAME Net's offerings.

