

Satellites
 Ground segments
 Launchers
 Transversal competencies

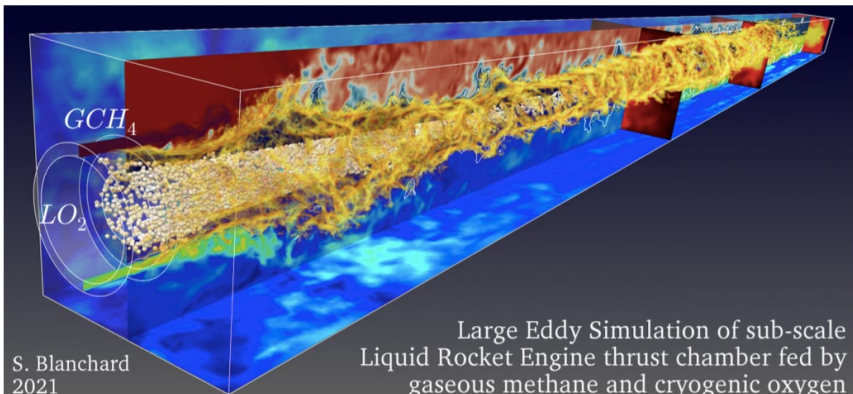


- ✓ Cerfacs is a centre of research, development, transfer and training regarding simulation and High Performance Computing (HPC) in priority for the benefit of its industrial and public shareholders
- ✓ Cerfacs provides numerical simulation methods and tools to invent and design innovative products
- ✓ Cerfacs offers high-level training

COMPETENCIES & CAPABILITIES

Cerfacs designs and develops innovative methods and software solutions to meet the needs of space sector: to simulate very complex phenomena in order for instance:

- to improve the design of launchers engines,
- and with satellite data to better understand the nature of climate fluctuations and to better assess the impact of natural hazards (such as floods or forest fires).



S. Blanchard
 2021

Large Eddy Simulation of sub-scale
 Liquid Rocket Engine thrust chamber fed by
 gaseous methane and cryogenic oxygen

CERFACS

PRODUCTS & SERVICES

Cerfacs provides expertise, software and engineering services for High performance Computing and Exascale Computing, Linear Algebra and Optimization, Coupling, Numerical methods for PDE, Data Driven Modelling (Uncertainty Quantification, Data Assimilation, Data Science & Machine/Deep Learning).

MAJOR SPACE PROJECTS & REFERENCES

- ArianeGroup
- Airbus
- CNES
- ESA
- COMAT

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TURNOVER 8 M€

WORK FORCE 110 employees

SPACE TURNOVER 2 M€

SPACE WORK FORCE 20 employees