

Launchers  
Satellites  
Balloons  
Transversal competencies



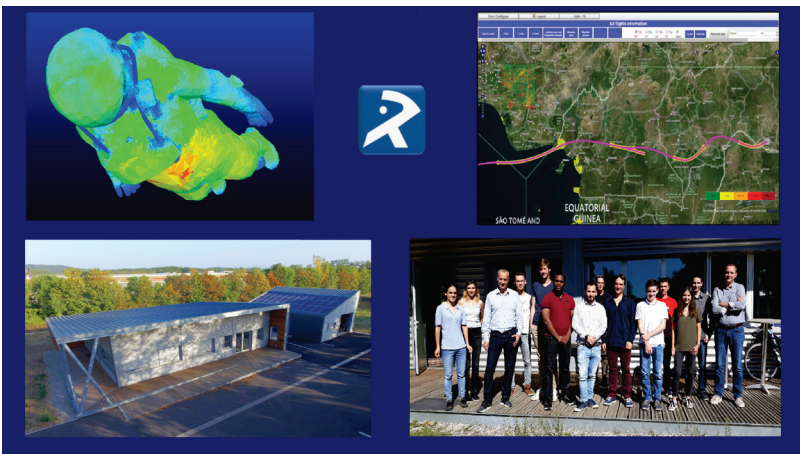
R.Tech, founded in 2001, is an SME specializing in engineering and software development services.

The combination of a team of PhD's, engineers and software developers assures that the software developers are aware of the physics that needs to be implemented, respecting the strict software quality requirements.

### COMPETENCIES & CAPABILITIES

R.Tech performs numerical simulations of aerodynamics, thermal and mechanics, with a specialty in re-entry into the atmosphere of the Earth and other planets. We develop in house numerical-analysis software (CFD, heat transfer, fluid-structure interaction ...) and own a computer cluster with about 700 cores.

We develop both internal software as well as on demand software, as an example, we are also the main partner of the CNES for the development of tools for the spacecraft demise tools (PAMPERO/DEBRISK).



# R.TECH

## PRODUCTS & SERVICES

R.Tech provides aerothermodynamics support for all flow regimes, with specialization in the atmospheric reentry.

A spectrum of tools ranging from high fidelity aerothermodynamics simulations, to lower fidelity but fast spacecraft breakup tools such as DEBRISK and PAMPERO are operated.

On demand software development and software maintenance are provided, mainly for scientific applications, but also for industrial applications.

R.Tech is the exclusive distributor of the GridPro and Helyx software in France, and the exclusive partner of CNES for the operation of the PAMPERO spacecraft demise prediction tools.

## MAJOR SPACE PROJECTS & REFERENCES

The engineering department of R.Tech has been involved providing aerothermodynamics support for a large number of European and French projects, such as the Intermediate experimental Vehicle IXV, ExoMars, Ariane 6 Launch infrastructure, Stratobus.

The software development department has been providing services for several space projects, such as the development of the DEBRISK and PAMPERO software, visualization software and signal processing for the SEIS mission, mission control centers for balloon operations, and launch site software support.

Finally, the computer vision department installed several non-intrusive quality control systems in the factories where the stratospheric balloons are produced for CNES.

## POINT OF CONTACT

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**TURNOVER** 1000 k€

**WORK FORCE** 12

**TURNOVER SPACE** 800k€

**SPACE WORK FORCE** 9