



APPLICATION SECTORS

- Oil engineering
- Aerospace
- Environment
- Dependability

PARTNERSHIPS

INDUSTRIAL

TOTAL, TURBOMECA, GDF SUEZ, ALSTOM, EDF, SNCF

INSTITUTIONAL

CEA, IFP, IFREMER, ONERA, IRSN

EUROPEAN AND INTERNATIONAL PROJECTS

- **IMPACT AE:** FP7 Cooperation - Collaborative projects
- **TEXT:** FP7/Combination of Collaborative Project and Coordination and Support Action
- **FORGE:** FP7 Cooperation - Collaborative projects
- **KIAI:** FP7 Cooperation - Collaborative projects
- **EELIAD:** FP7 Cooperation - Collaborative projects

STAFF

- 55 researchers and professors - researchers
- 28 PhD students and 4 post PhDs and temporary teaching and research attachés (ATER)
- 10 engineers and research support personnel

RESEARCH THEMES

- Analysis of equations with partial derivatives
- Optimisation and dynamic systems
- Numerical simulation, scientific calculation and HPC
- Statistics and applied probabilities
- Algebraic geometry and topology

KNOW-HOW

- Mathematical modelling (deterministic and stochastic), optimisation and control, numerical diagrams and computation codes for the simulation of physical phenomena:
 - Oil engineering, seismic imaging, aerothermodynamics, combustion, complex flows, reactive transport, population dynamics.
- Statistical decision aid methods and stochastic models:
 - Experiment plans, data analysis for the environment, geostatistics, reliability and dependability.

MAIN EQUIPMENT

- Computation clusters:
 - 3 front-end servers
 - shared nodes, Pyrene cluster
- MAVERIC test bench: Model for validation and experimentation on cooling by controlled injection;
- IPRA library shared with the IPRA units.

Inria PARTNERSHIP

- Two teams shared with the Inria:
 - E.C. CAGIRE: Computational Approximation with discontinuous Galerkin methods and compaRison with Experiments
 - E.P.C. MAGIQUE 3D: Advanced 3D numerical Modelling in geophysics



(LMAP CONTACT)

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