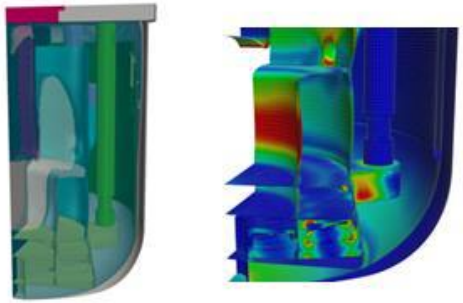
DE LA RECHERCHE À L'INDUSTRIE

Didier JUVIN

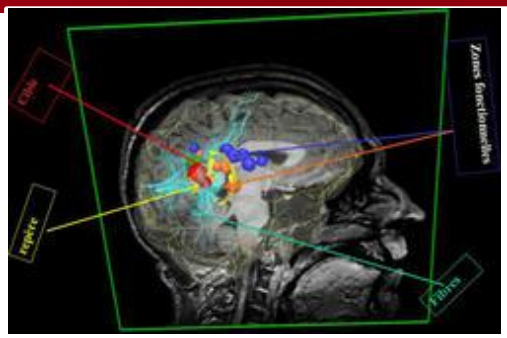
HPC & Simulation Program Manager

www.cea.fr

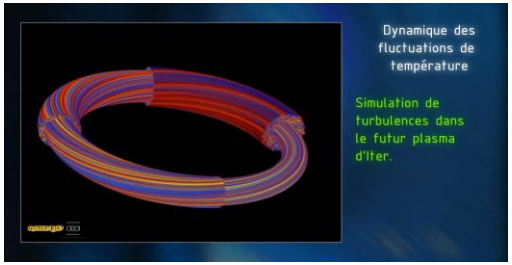
HPC is a key capacity for the CEA missions



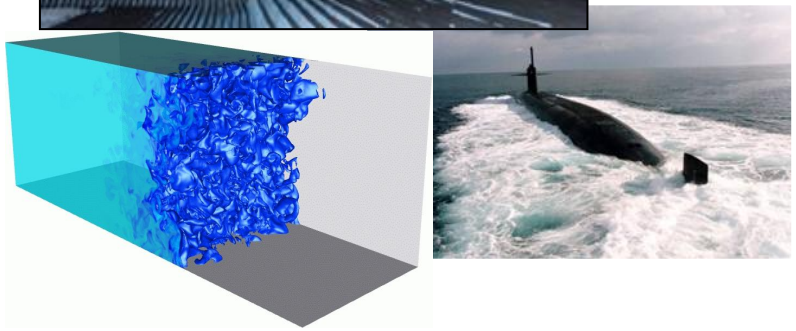
Nuclear Energy



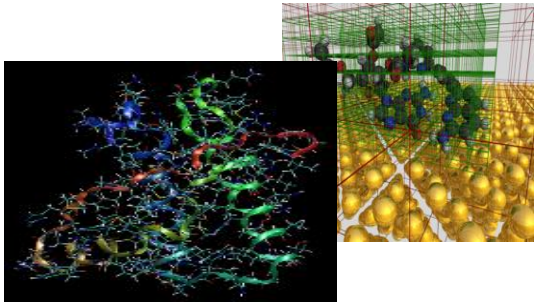
Medical Imagery



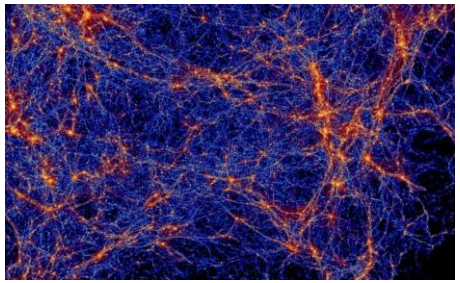
Fusion



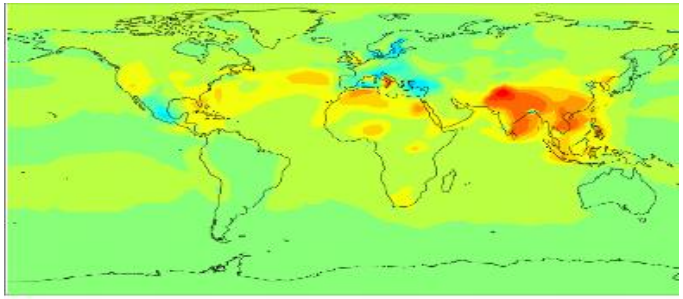
Defense Simulation Program



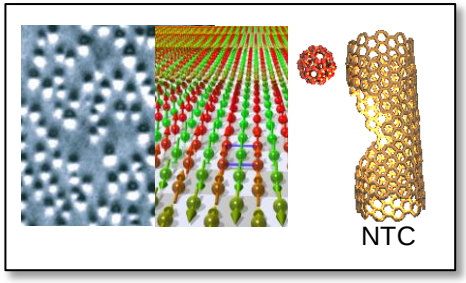
Personalized Medicine



Astrophysics



Climate modeling



Predictive Material

A strategy based on an open ecosystem

Three complementary, independant, but coordinated pillars, in symbiosis with the French and European policy.

Technologies

Develop a globally competitive industrial technology value chain towards exascale

Extreme Computing

Exascale computing research

CEA operator for the technology part of the R&D national program to exascale

CEA founding partner of ETP 4 HPC

Applications

Expand the limits in modelisation and complex multiphysics simulation

Research ***Industry*** ***Defense***

Maison de la Simulation

Ter@tec

Supercomputer and Big Data Plan

Energy

E.C.E

Performance Optimization Productivity

Infrastructures

Research ***Industry*** ***Defense***

PRACE GENCI

CCRT

TERA 1000


We want Europe to rank among the world top Supercomputing powers by realizing exascale supercomputers around 2022, based on EU technologies, which will rank in the Top 3 places in the world
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