DE LA RECHERCHE À L'INDUSTRIE



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Chef de Projet Simulation Numérique et Calcul Intensif

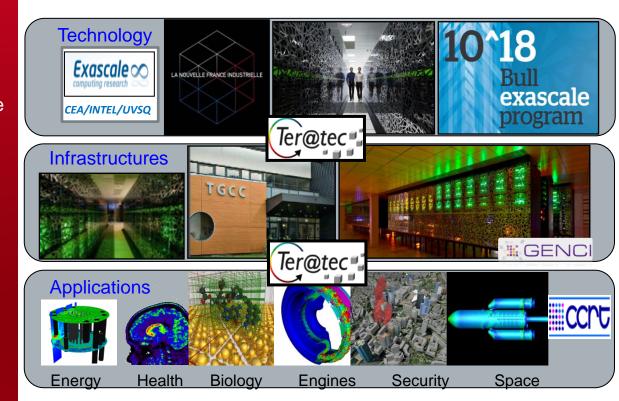
Direction des applications militaires

www.cea.fr

A global strategy since 1996



- Independent access to the technology
- World class Infrastructure
- Important spin-off to industry and society

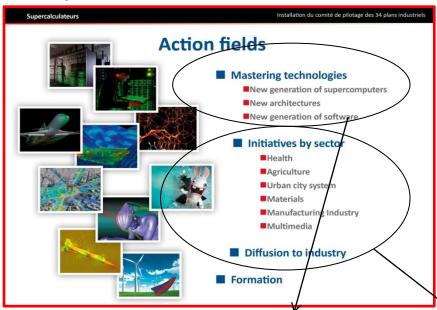




a strategy confirmed by the highest national authorities

Mai 2014: "Supercomputer" plan of "La Nouvelle France Industrielle" was launched







Gérard Roucairol President of Ter@tec Is the leader of the plan

 CEA is in charge of the organisation of the exaflop R&D program for 2021 to maintain HPC French industry in the Top 5 leader worldwide



R&D Convention ATOS/Bull-CEA/DAM





Mai 2015: The plan is consolidated in the convergence HPC-Big data



...Inside a European HPC value chain

A platform to support the EU strategy: ETP4HPC

A cPPP established between the Commission and ETP4HPC





Led by European HPC Technology providers with an objective to build a competitive HPC value chain in Europe.

Strategic Research Agenda outlines the research priorities of European HPC on its way to achieve Exascale capabilities

www.etp4hpc.eu

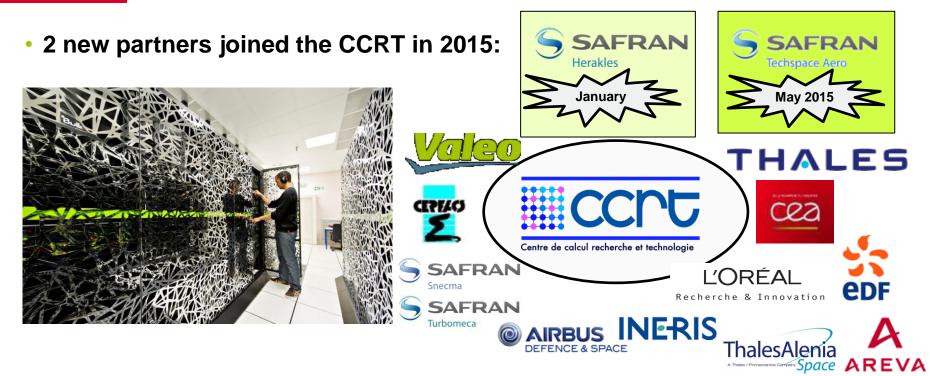
- First projects has been selected :
 - → FETHPC (Exascale technologies) : 19 projects, total budget 93 M€
 - CoE (Centers of Excellence) :8 CoE, total budget 40 M€
 - → PRACE (infrastructure) support actions, total budget 15 M€



- CEA & its partners has obtained the top budget for the call
- On-going process to consolidate a European competitive HPC value chain



2 hot spots this year:



CEA/DAM renews its confidence in BULL for TERA 1000 delivery

(details to be announced very soon...)



CEA actor number 1 for HPC in Europe





Defense: Tera 100: 1.3 PFlops

Industry: Airain: 0.45 PFlops

Research : Curie : 2 PFlops

Thank you