Rendez-vous International de la Conception et de la Simulation Numérique Hautes Performances

International meeting for High performance Numerical Design and Simulation

Forum Ter@tec

27 & 28 juin / june 2012

ECOLE POLYTECHNIQUE PALAISEAU-FRANCE

Simuler pour concevoir
Design by simulation

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Teratec : A new step forward

Gérard Roucairol,

Chairman of Teratec

The Teratec Campus

The basis for a new step forward

Opening June 2012

The Teratec Campus

The Teratec Campus

The Teratec Campus

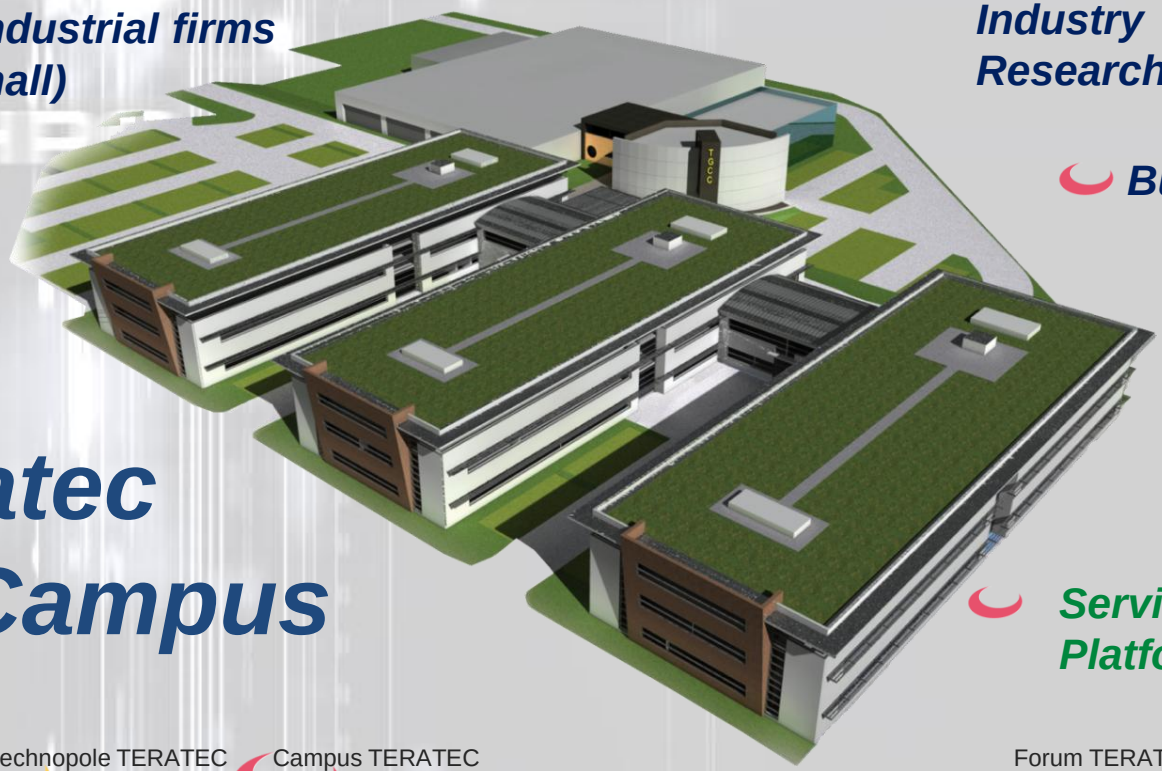
The Teratec Campus

The Teratec Campus

The Teratec Campus

A unique worldwide place, clustering representatives of every step of the value chain

- ***CEA Very Large Computing Center***
- ***Collaborative Industry Research labatories***
- ***Major HPC Industrial firms (large and small)***
  - ***Harware***
  - ***Software***
  - ***Services***
  - ***Cloud***
  - ***Applications***
- ***Business Incubator***



- ***European HPC Education Institute***
- ***Services Platform***

Teratec Campus

2012 : a turning point

- **A larger scope confirmed**
  - From Classical Supercomputing to Systems Design, «Big Data » Processing, Multimedia Creation, Life science applications….
- **Program extensions**
  - R&D projects : from French collaborative projects to European and international cooperations
  - Education : new initiatives

2012 : a turning point

Membership continuing growth (85)

New members since the last Teratec Forum :

- Industrial leaders : L'Oreal, Faurecia
- Technology companies : Activeeon, Altran, AMD, Carri Systems, Dell, Kalray, Kitware, Mathworks, Mentor Graphics, Noesis, Scilab Enterprises, ST Microelectronics, Vcodyne, Whamcloud,
- Research and Education : Ecole Polytechnique

Forum Teratec: Increased participation

- 7th issue – 60 international speakers over two days
- 60 exhibitors (+20% exhibition area)
- 1 000 registered participants (+15%)

2012 : Other major events

- **R&D**
  - Creation of the SystemX IRT
  - Launch of the HPC European technology platform
- **Service**
  - Launch of the HPC Cloud initiative, NumInnov
- **Education**
  - New Modelling & Simulation Master Diploma for Engineers in a business activity

We are preparing

- Teratec Institute
  - HPC Master

    Already in place with UVSQ, Ecole Centrale de Paris, ENS de Cachan
  - Modeling and Simulation Mastère

    With Supelec and Ecole Centrale de Paris
  - Continuous education
  - Ad-hoc Seminars
- Dedicated Services Platforms for
  - Engineering
  - Multimedia
  - Health
  - ….
- International Cooperations

Teratec : Building the European Reference

Modeling & Simulation
High Performance Computing

Creating a perennial context for

Innovation - Competitiveness - Job creations

Thank you for your attention
&
Welcome to the
TERATEC Forum 2012