FP7 Support Action - European Exascale Software Initiative

DG Information Society and the unit e-Infrastructures

# European Exascale Software Initiative
# IESP meeting

San Francisco, 6-7 April 2011

## Introduction

**Jean-Yves Berthou, EDF R&D**

**EESI coordinator**

# Characteristics of the EESI project

Coordination and support action – FP7/Infrastructures

**www.eesi-project.eu**

Coordinator: EDF R&D, Jean-Yves Berthou

Starting date : 1st of June 2010, for 18 months

Requested EC contribution : 640 000 €

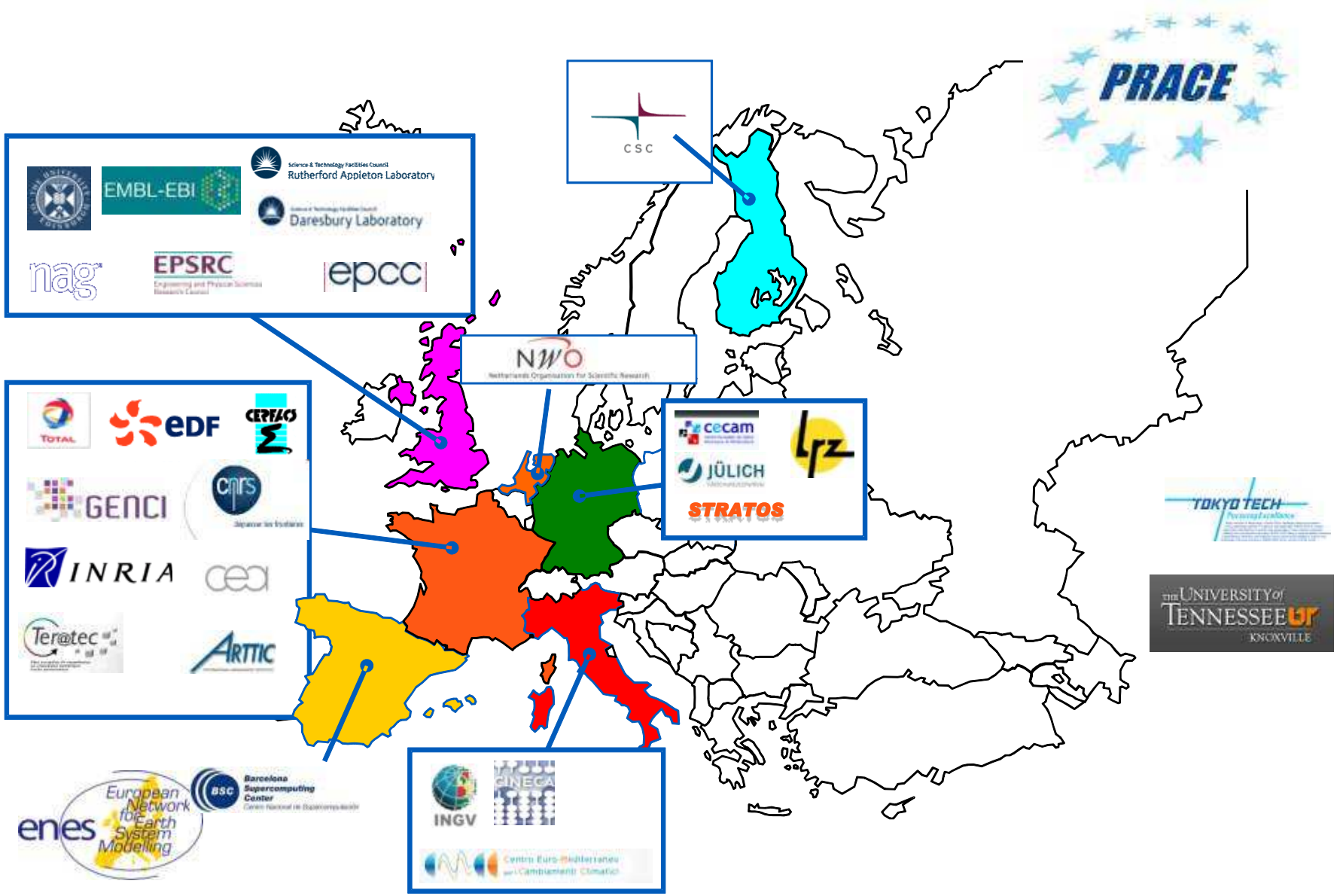
Consortium : 8 contractual partners:

17 associated participants

About 120 contributing participants

*The project has received funding from the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 261513*

# EESI associated participants



# Motivations for launching EESI

**Coordinate** the European contribution to IESP

**Enlarge** the European community involved in the software roadmapping activity

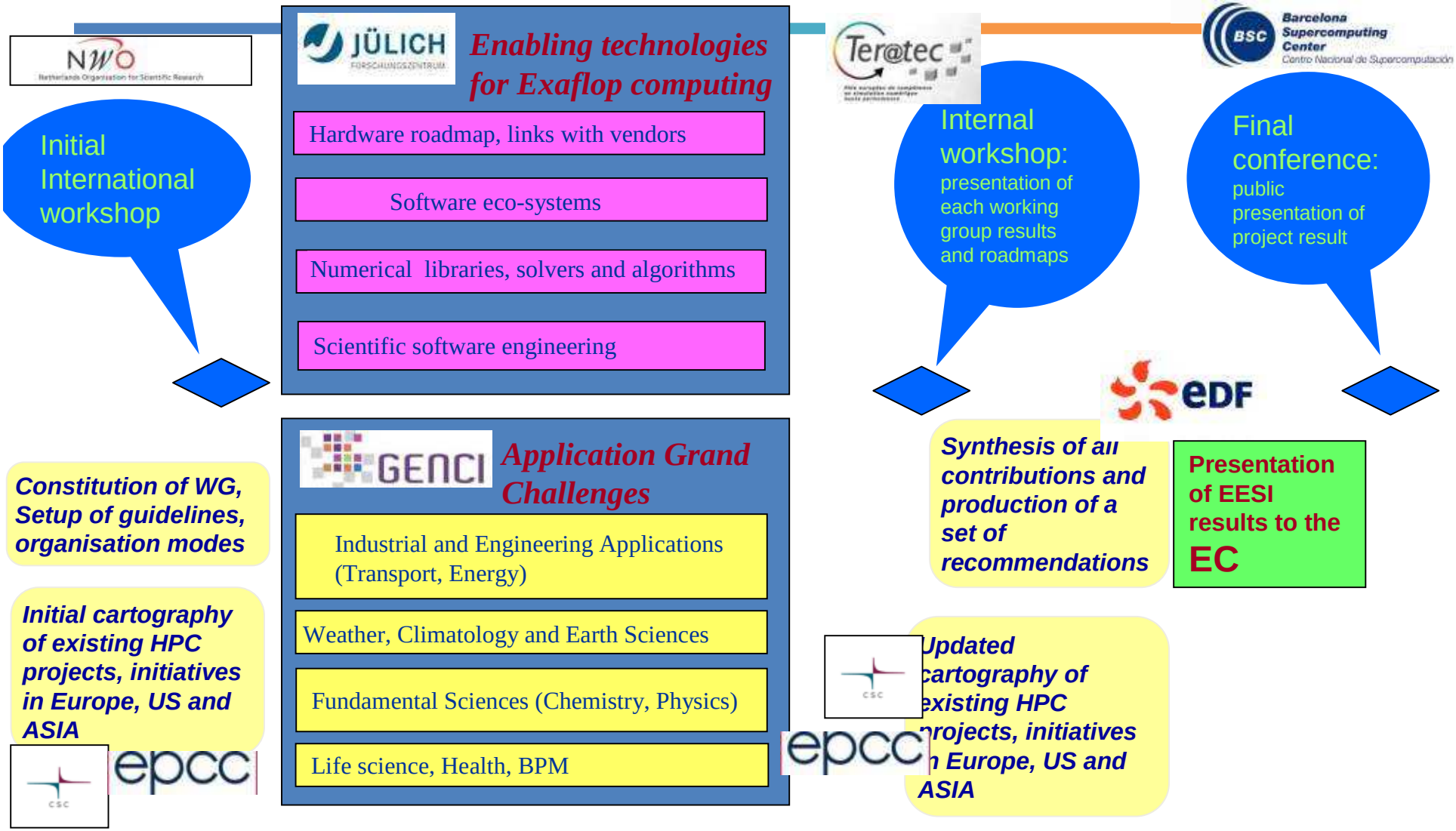
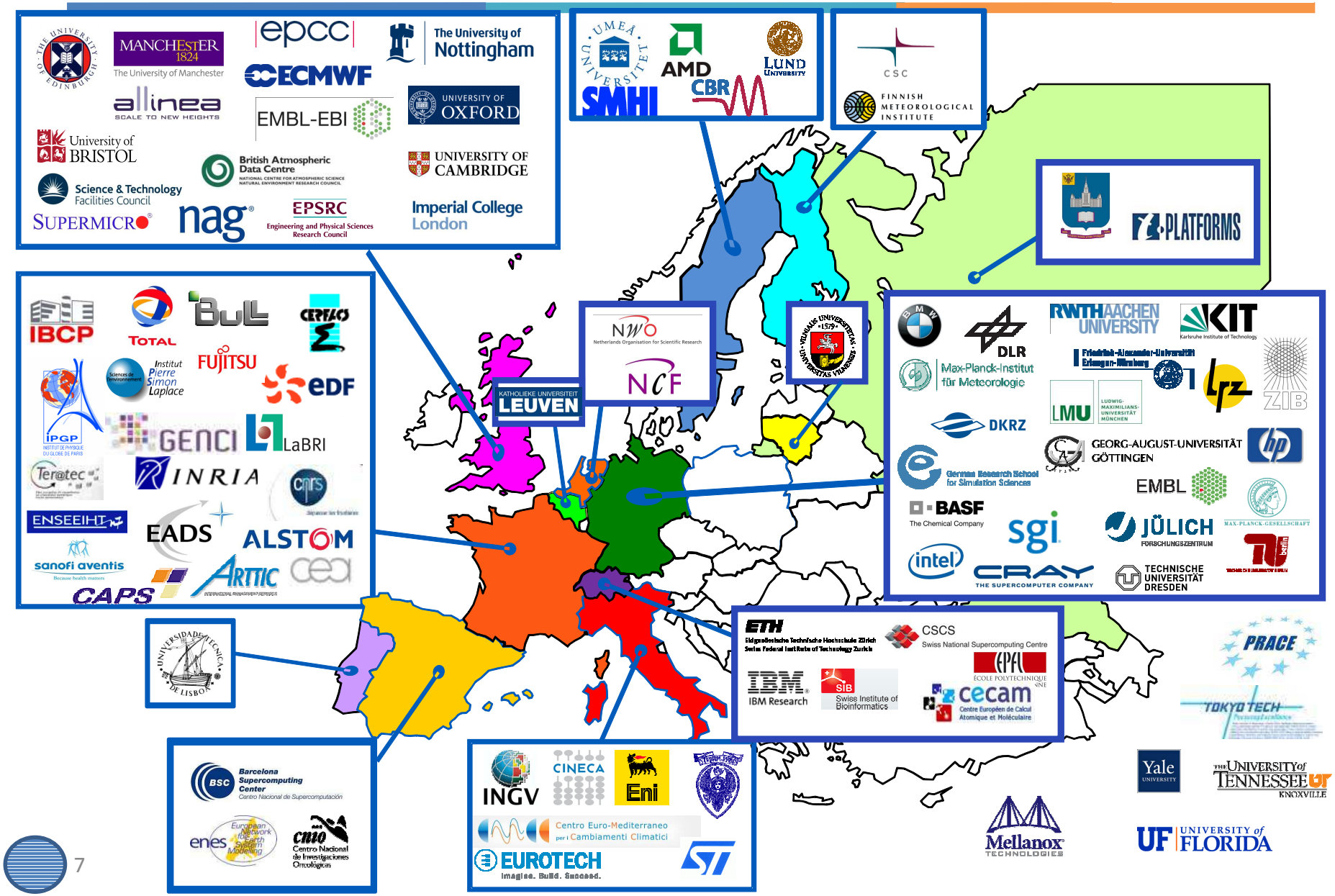
**Build and consolidate** a vision and roadmap at the European Level, including applications, both from academia and industry

# EESI main goals

Build a European **vision and roadmap** to address the challenge of performing scientific computing on the new generation of computers which will provide **multi-Petaflop** performances in 2010 and **Exaflop** performances in 2020

- investigate how Europe is located, its strengths and weaknesses, in the overall international HPC landscape and competition
- identify priority actions
- identify the sources of competitiveness for Europe induced by the development of Peta/Exascale solutions and usages
- Are European stakeholders willing/able to build an exa-scale prototype/by when?
- investigate and propose programs in education and training for the next generation of computational scientists
- identify and stimulate opportunities of worldwide collaborations

# European Exascale Software Initiative AGENDA



# EESI participants