



Technologies

Information and Communication

COST Grant System
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Action IC1406 Fact Sheet

Title

High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)

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Objectives

The Big Data era poses a critically difficult challenge and striking development opportunities in High-Performance Computing (HPC): how to efficiently turn massively large data into valuable information and meaningful knowledge. Computationally effective HPC is required in a rapidly-increasing number of data-intensive domains, such as Life and Physical Sciences, and Socio-economical Systems. Modelling and Simulation (MS) offers suitable abstractions to manage the complexity of analysing Big Data in various scientific and engineering domains. Unfortunately, Big Data problems are not always easily amenable to efficient MS over HPC. Also, MS communities may lack the detailed expertise required to exploit the full potential of HPC solutions, and HPC architects may not be fully aware of specific MS requirements. Therefore, there is an urgent need for European co-ordination to facilitate interactions among data-intensive MS and HPC experts, ensuring that the field, which is strategic and of long-standing interest in Europe, develops efficiently - from academic research to industrial practice. This Action will provide the integration to foster a novel, coordinated Big Data endeavour supported by HPC. It will strongly support information exchange, synergy and coordination of activities among leading European research groups and top global partner institutions, and will promote European software industry competitiveness



Parties							
Country	Date	Country	Date	Country	Date	Country	Date
Cyprus	24/11/2014	Estonia	17/12/2014	Finland	21/01/2015	France	19/12/2014
Germany	01/12/2014	Greece	16/12/2014	Ireland	11/12/2014	Israel	22/12/2014
Italy	30/01/2015	Luxembourg	17/12/2014	Poland	26/11/2014	Romania	30/01/2015
Serbia	27/12/2014	Spain	03/12/2014	Sweden	02/12/2014	United Kingdom	25/11/2014
fYR Macedonia	24/12/2014						

Total: 17

Intentions to accept the MoU							
Country	Date	Country	Date	Country	Date	Country	Date

Total: 0

Working Groups
None

Website
None

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Domain Committee Rapporteur	

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