



# **cHiPSet IC1406 Annual Report – 3rd Grant Period**

### **GP Goals**

Goal:	Description
GPG1	Provide a world-class European MS & HPC expertise exchange, where best practices are developed for the benefit of a broad range of academic and industry stakeholders
GPG2	Compile and release a consistent set of case studies on HPC & MS, which can be used as reference source by researchers and practitioners
GPG3	Reach out to industry by contacting industrial research facilities and competence centers, providing expertise and services on HPC and MS applications and software development.
GPG4	Establish a pan-European dissemination network to reach out to all stake-holders (academia, industry, government and the general public) and increase efficiency through the strategic use of joint forums for dissemination.

WG task

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Wor- king Group	Tasks planned per WG	Grant Period goal(s) that it/ they relate(s) to
WG1	Proposals for improvement of existing Big Data systems and middleware	GPG1, GPG2, GPG3
	Development of new systems components based on the analysis of use cases and user requirements defined by WG3 and WG4	GPG2, GPG3
	Development of guidelines for Big Data provisioning and management for modelling and simulation	GPG2, GPG3
	Cooperation and common ground with all other WGs and companies	GPG1, GPG3
WG2	Finalisation of the review of currently used programming models in the development of MS software, and the state-of-the-art parallel programming techniques in both DSL and MDE approaches	GPG1
	Initial quantification of data involved in selected MS applications, their access patterns, computation demand and typical workloads of MS pipelines	GPG1, GPG2
	Initial study of usage requirements: portability, reactivity, robustness, time-to- market, maintenance, and possible endusers	GPG2, GPG3
	Coordination with other WGs	GPG2, GPG3
WG3	Analysis of the prototypical use cases, user requirements and existing models and simulation platforms	GPG1, GPG2



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WG3	Coordination with WG1 and WG2.	GPG1, GPG3	GPG2,
	Development of innovative MS approaches	GPG1, GPG3	GPG2,
	Cooperation with WG4 on shared topics including the model- ling of relevant social and economic issues in Life Sciences, like the social and epidemiological aspects of diseases.	GPG1, GPG3	GPG2,
WG4	Further analysis of the HPC requirements in socio-economical and physical science MS represented in WG4.	GPG1,	GPG2
	Coordination with WG1 and WG2 to connect HPC and MS state-of-the-art.	GPG1,	GPG2
	Dissemination of results generated within the working group within the action and to a wider audience.	GPG3	
	Coordination with WG3 regarding overlapping techniques and applications	GPG1,	GPG2

## **Action membership**

In GP3, we – similarly as in GP2- we have **32** Cost countries in the consortium, but the number of participants increases compare to the GP2 from 143 to 174.

### cHiPSet GP3 membership statistics:

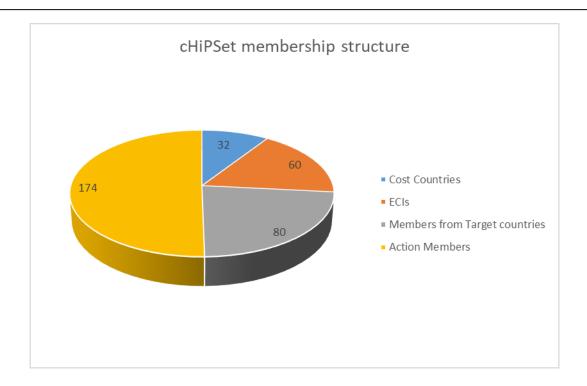
COST Member and Acceptance Date					
AT 30/07/2015	IE 11/12/2014	RO 30/01/2015			
BE 30/03/2015	IL 22/12/2014	RS 27/12/2014			
BA 18/07/2016	IT 30/01/2015	SK 24/06/2015			
BG 23/02/2015	LV 17/02/2016	SI 12/10/2015			
HR 15/06/2015	LT 16/04/2015	ES 03/12/2014			
CY 24/11/2014	LU 17/12/2014	SE 02/12/2014			
EE 17/12/2014	MT 10/02/2015	CH 13/07/2015			
FI 21/01/2015	NL 29/02/2016	TR 08/06/2015			
FR 19/12/2014	NO 23/03/2015	UK 25/11/2014			
DE 01/12/2014	PL 26/11/2014	MK 24/12/2014			
EL 16/12/2014	PT 04/02/2015				

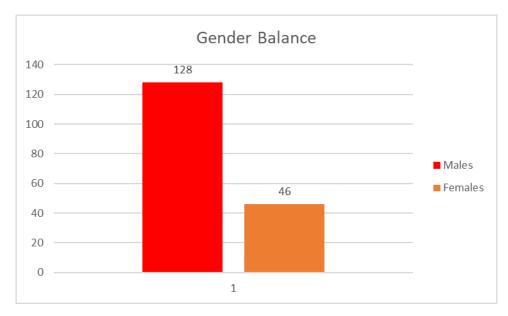


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In GP3 we had 2 face-to-face meetings:

- 06/11/2017 WG meeting in Lisbon (<a href="http://chipset-cost.eu/index.php/agenda-lisbon/">http://chipset-cost.eu/index.php/agenda-lisbon/</a>)
- 27/03/2017 GP3 final WG+ MC meeting in Fontainebleau, France (<a href="http://chipset-cost.eu/index.php/agenda-france/">http://chipset-cost.eu/index.php/agenda-france/</a>). During the meeting the summary of the action activities in this grant period have been presented

We have organized also 15 virtual meetings of WGs and CG.



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#### cHiPSet expertise database

The expertise database of cHiPSet members has been updated. The experts work in the specified domain who are involved in the Action can be extracted from the whole consortium by using the online search application available at <a href="http://chipset-cost.eu/index.php/chipset-expertise-database/">http://chipset-cost.eu/index.php/chipset-expertise-database/</a>.

#### **Case Studies**

We created cross WGs Case Studies teams work on the specified topics (defined in the WGs) The results of the work and the team structures are available here <a href="http://chipset-cost.eu/index.php/case-studies/">http://chipset-cost.eu/index.php/case-studies/</a>

#### STSMs

We sponsored 17 STSM grants in GP3: 9 for women and 8 for male participants. 12 beneficiaries were ECIs.

The list of the awarded grants is available at: <a href="http://chipset-cost.eu/index.php/awarded-stsm-grants/">http://chipset-cost.eu/index.php/awarded-stsm-grants/</a>

### **Training School**

We organized the second Action Training School in Novi Sad, Serbia in September 2017; The full information about the school together with the slides of the trainers' lectures is available here: http://chipset-cost.eu/index.php/chipset-training-school-2017/

#### **Dissemination Activities**

The dissemination report is available here

cHiPSet have been presented at many external events (2 dissemination events) more information available here:

http://chipset-cost.eu/index.php/dissemination-meetings-and-chipset-presentations/

#### Research work

The annual WGs report on the realization of the tasks is available at: <a href="http://chipset-cost.eu/index.php/reports/">http://chipset-cost.eu/index.php/reports/</a>

New publications project applications and books have been released.

The list of the cHiPSet publications is available at: <a href="http://chipset-cost.eu/index.php/publications/">http://chipset-cost.eu/index.php/publications/</a>