



Roadmap for European Technologies  
in Hardware and Networking for Big Data

# RETHINK big Project

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UPM Campus, Madrid, SPAIN

18 Sep 2014

[www.rethinkbig-project.eu](http://www.rethinkbig-project.eu)



# Project Overview



## 🗨 The Partners



🗨 **The Project:** 2-year 1.9M€, Coordinated by BSC, Collaborative / Support Action (CSA)

🗨 **The Mission:** To deliver a strategic roadmap for how technology advancements in hardware and networking can be exploited for Big Data analytics and beyond.

# Project Objective

- 🕒 To identify and evaluate the existing competencies across **European Big Data Hardware and Networking** technology sectors and application domains
- 🕒 To prioritize the **complementary interests** and the **shared opportunities** to unlock the highest return on their respective investments
- 🕒 Resulting in a **roadmap** that would be irrational not to follow.

# Project Organization and WG Sessions

ROOM	WORKING GROUP	SESSION FACILITATOR
1104	3.1 Fundamental Sciences and Engineering Applications	Albert Soret (BSC)
1105	3.2 Business, Finance, Information Marketplaces	Albert Aschauer (PARSTREAM)
1107	3.3 Life Sciences	Gunnar Klau (CWI)
1103	3.4 Future Internet and Social Networking	Philippe Rigaux (IMR)
	3.5 WP3 Coordination	Mikel Lujan (UniMan)
3312*	4.1 Conventional and Unconventional HW Architectures, Process Technology	John Goodacre (ARM)
4200*	4.2 Distributed Architectures, Devices and Sensors, Memory and Storage Systems	David Faure (THALES)
4305*	4.3 Networks	Alonso Silva (ALBLF)
1102	4.4 Frameworks, SW Models, Algorithms and Data Structures and Visualization	Stefan Manegold (CWI)
	4.5 WP4 Coordination	Marcus Leich (TUB)

\* Room is in BLOCK 4 (We are currently in BLOCK 1)

# Agenda 18 September

## 🕒 DAY 1 – Thursday, 18 Sep 2014

**10:00 – 11:00 Check-in and coffee (Location: Hall)**

**11:00 – 11:45 Welcome and Logistics, Meeting Objectives / Project Overview**  
Ernestina Menasalvas (UPM), Adrián Cristal (BSC), Gina Alioto (BSC)

**11:45 – 12:15 Short Overview of SW and HW Trends in Big Data Processing**  
John Goodacre (ARM Ltd.)  
Anastasia Ailamaki (EPFL, École polytechnique fédérale de Lausanne)

**12:15 – 13:30 Small Group Session I: Ground rules and getting to know you**  
*Objective: To establish the high level framework for the small group sessions*

# Agenda 18 September

**13:30 – 15:00 Catered lunch at UPM (Location: Hall)**

**15:00 – 17:00 Small Group Session II (Location: 8 Assigned Rooms)**

*Objective: To identify Big Data challenges across European Big Data sectors and develop a shared language for discussing these challenges*

**17:00 – 17:30 Catered Coffee at UPM, and Group Photo (Location: Hall)**

**17:30 – 19:00 Reporting Session (Location: Salón de Actos)**

*Objective: To report back on the combined result from each group*

**21:00 Dinner**

# Agenda 19 September

## **🕒 DAY 2 – Friday, 19 Sep 2014**

***09:00 – 09:30 Check-in and coffee (Location: Hall)***

**09:30 – 11:30 Small Group Session III (Location: 8 Assigned Rooms)**

***Objective: To understand the advantages and trade-offs in applying new technologies***

***11:30 - 12:00 Catered Coffee at UPM (Location: Hall)***

**12:00 – 13:30 Reporting Session (Location: Salón de Actos)**

***Objective: To report back on the combined result from each group.***

***13:30 – 15:00 Catered lunch at UPM (Location: Hall)***

**15:00 – 16:00 Plenary Wrap-up Session (Location: Salón de Actos)**

***21:00 Dinner***

# Thank you



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**#RETHINKbigWG**