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PLEASE CHECK THE
www.BDVA.eu website for the latest
version of this handbook and any
important updates

Handbook Version 1
SPONSORS. Many thanks to all our sponsors who have helped make this event happen.

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<th>Titanium</th>
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SPONSORS – Please check further sections for full sponsor profiles
Programme and Organising Committee

The Valencia Summit was Constructed and Powered with the help of many, but with particular thanks to the following individuals and organisations who contributed with time and enthusiasm to deliver the Summit.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contact</th>
<th>Role</th>
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<tbody>
<tr>
<td>ITI</td>
<td>Daniel Saez</td>
<td>Coordinator, Handbook, Logistics and Marketing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ITI is a Private Reference Technological Centre specialized in RDI in ICT. It has a team of 150 technologists, which develop their activity in four main areas: Intelligent Information analysis, FI, CPS and Enabling Technologies, contributing to generate solutions for: Intelligent manufacturing, Intelligent Society and IT industry.</td>
</tr>
<tr>
<td>Answare</td>
<td>Tonny Velin</td>
<td>Sponsorship, registration, Handbook &amp; Finance</td>
</tr>
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<td>Answare provides its customers with quality Hi-Tech solutions. Its European customers have benefit from the know-how of the company in strategic IT areas like Monitor &amp; Control of infrastructures, mobility, GIS and 3D/VR.</td>
</tr>
<tr>
<td>SAP</td>
<td>Laure Le Bars</td>
<td>Day 1 Speakers</td>
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<td>With 12 million users, 96,400 installations, and more than 1,500 partners, SAP is the world's largest inter-enterprise software company and the world's third-largest</td>
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independent software supplier, overall. SAP solutions help enterprises of all sizes around the world to improve customer relationships, enhance partner collaboration and create efficiencies across their supply chains and business operations.

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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>Nuria de Lama</td>
<td>Day 1 Speakers</td>
<td>Atos SE is a leader in digital services. Serving a global client base, providing Consulting &amp; Systems Integration services, Managed Services &amp; BPO, Cloud operations, Big Data &amp; Security solutions.</td>
</tr>
<tr>
<td>Milan Petkovic</td>
<td>Application co-coordinator</td>
<td>Philips is a Dutch technology company headquartered in Amsterdam with primary divisions focused in the areas of electronics, healthcare and lighting. It is one of the largest electronics companies in the world and employs around 105,000 people across more than 60 countries.</td>
</tr>
<tr>
<td>Andreas Metzger</td>
<td>Scientific Co-coordinator</td>
<td>paluno, the Ruhr Institute for Software Engineering of University Duisburg Essen, with more than 100 academic staff members, conducts application-oriented research on important areas of software engineering, including requirements engineering, software services, software architectures, security-privacy-trust, and big data systems.</td>
</tr>
<tr>
<td>Ed Curry</td>
<td>Scientific Co-coordinator</td>
<td>The Insight Centre for Data Analytics aspires to bring together a critical mass of more than 401 researchers from Ireland’s leading ICT centres to develop a new generation of data analytics technologies in a number of key application areas.</td>
</tr>
<tr>
<td>Roberto Martínez</td>
<td>Madrid Summit Experience</td>
<td>Universidad Politécnica de Madrid (UPM) - Technical University of Madrid is the largest Spanish technological university. With two recognitions as Campus of International Excellence, it is outstanding in its research activity together with its training of highly-qualified professionals, competitive at an international level.</td>
</tr>
<tr>
<td>Ana García Robles</td>
<td>Secretary General</td>
<td>The Big Data Value Association AISBL is a fully self-financed non-for-profit organisation under Belgian law. The BDVA presents an industry-led contractual counterpart to the European Commission for the implementation of the Big Data Value PPP.</td>
</tr>
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</table>
1 Objectives of the BDVA Summit

Big Data Value Association Valencia Summit
Big Data driving business
With over 300 attendees from Industry, Academia, Public Administration, data owners and users, our summit is a **key occasion to meet and engage with Big Data players** in Europe, and to **influence the development of the European Big Data Ecosystem.**

**Join us!** and contribute to:

- Driving forward the **Big Data Value ecosystem** and improving **visibility of Big Data Value Association (BDVA) and the BDV PPP**;
- Inspiring and getting inspired by **real stories** from data users and providers;
- Sharing and understanding the **state of the art** in Big Data Technologies, big data **challenges and opportunities**;
- **Idea incubation** and consortium building for **2017 H2020 calls**.

<table>
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<tr>
<th>BIG DATA in VERTICALS</th>
<th>BUSINESS</th>
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<tr>
<th>RESEARCH</th>
<th>VALUE CREATION</th>
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Follow us: [@BDVA_PPP](https://twitter.com/BDVA_PPP) #bdvasummit

Day 0 (Nov 29th 13:30-18:45) will be focused on internal strategic meeting of Board of Directors (BoD) and Partnership Board.
<table>
<thead>
<tr>
<th>Day 1 (Nov 30&lt;sup&gt;th&lt;/sup&gt;) (8:30-19:00)</th>
<th>Day 2 (Dec 1&lt;sup&gt;st&lt;/sup&gt;) (9:00-19:00)</th>
<th>Day 3 (Dec 2&lt;sup&gt;nd&lt;/sup&gt;) (9:00-15:00)</th>
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<tbody>
<tr>
<td>BoD Elections</td>
<td>Share your idea.</td>
<td>Infoday</td>
</tr>
<tr>
<td>Share visions with influential keynote speakers from industry, public sector, academia and Big data users. Networking</td>
<td>Go in depth into the topics. Influence the European Agenda and Ecosystem. Build knowledge and develop collaborations</td>
<td>Big Data PPP 2017 (Open/Free) Networking Brokerage</td>
</tr>
</tbody>
</table>

 Ciudad Politécnica de la Innovación.  
 Universitat Politècnica de Valencia.  
 Ingeniero Fausto Elio street.  
 46022. Valencia. Spain

For more info, please contact summit@core.bdva.eu
2 Practical Information
2.1 At a Glance

Joining BDVA

If you are not a member of BDVA, please visit our website www.bdva.eu on how to join. See also later in this handbook. Get Involved!

Cloakroom

A cloakroom will be provided - but all is at your own risk

Refreshments

There will be complementary refreshments (coffee, tea, juice, water):

All breaks and lunches

Before formal start on first day

Lunches

Complementary lunches will be provided on all 3 days (Nov, 30, Dec, 1 and Dec, 2).

Dinner

On both Day 1 and Day 2 a complementary evening dinner, social event and a networking opportunity will be provided at locations near to the main venue. See later sections for details

Coach

We will provide some coach transport back to the Valencia airport on Day 3 - see later sections for details

Dietry

Please contact the reception desk for specific diet issues – we will try to accommodate

WiFi

A personal temporal access code will be provided to all participants to Access UPVNET WiFi. The instructions will be issues to each participant in the registration desk or by e-mail. Here you can see an example of instructions page:
TEMPORARY ACCESS TICKET

BDVA Valencia Summit

CONCEDED TO:

<table>
<thead>
<tr>
<th>user</th>
<th>Xxxxxx</th>
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<tbody>
<tr>
<td>password</td>
<td>Xxxxxxxx</td>
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<tr>
<td>domain</td>
<td>UPVNET</td>
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</table>

USAGE PERIOD

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<th>November 28th, 2016</th>
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<td>to</td>
<td>December 2nd, 2016</td>
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INFORMATION

This ticket lets you gain access to the Universidad Politécnica de Valencia network during the specified usage period.

This service is offered only to the indicated user for the usage explained in the moment of receiving this document, according to the UPV regulations:

http://www.upv.es/doc/normativa

The owner is the only and direct responsible person of the usage of this service, and must take special care of the access password.

CREDENTIALS

You can change your password at https://www.upv.es/ctemp

WI-FI NETWORK

To use the wireless network of the Universidad Politécnica de Valencia, connect your laptop to the UPVNET network with the account contained in this ticket (domain can be omitted).

If you already have a user account belonging to any organization member of the eduroam initiative, you may use it to connect to the network through the eduroam ssid.

SUPPORT

See http://wifi.upv.es connecting to the UPV-INFO Wi-Fi

Any doubt or suggestion, please call

• 963877750 UPVNET Help Desk service
  (ext. 77750 if calling inside the Campus)
2.2 Room Layout
3 Agenda
### 3.1 Day 0

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:30</td>
<td>Registration / Welcome Coffee</td>
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<td>13:30</td>
<td>Board of Directors Meeting</td>
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<td>16:30</td>
<td>Coffee break / Exhibition</td>
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<tr>
<td>16:45</td>
<td>Partnership Board Meeting</td>
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<td>18:45</td>
<td>End of Day</td>
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## 3.2 Day 1

### Day 1. 30th November

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Registration / Exhibition / Welcome Coffee</td>
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<tr>
<td>09:30</td>
<td>General Assembly (members only)</td>
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### Conference (09:30)

- **11:00**
  - **Shaping the Digital Transformation—Industries 4.0 and the Importance of Data Analytics**
    - Thomas Hahn, Corporate Technology Siemens [MANUFACTURING]
    - Javier Fernández del Río, Acting Director, Data Directorate, DG CONNECT, European Commission
  - **Will data drive Europe’s digital transformation?**
    - William Jankus, CEO, ET Digital
  - **Big Data @ Valencia Smart City Project—V.C. Daniel Dios López, Valencia Smart City Project Director**
  - **Big Data Value Market Trends & Opportunities**
    - Gabriella Cartetto, Associate Vice President EX European Government Consulting
  - **Big Data Analytics Infrastructure**
    - José Bernal Añón, Scientific Director, ITI

### Lunch (13:00)

- **14:00**
  - Panel: Big Data Industrial Success Stories (INCLIVA, BDVA Data & Analytics, ENGITEC) Moderated by Miljan Petkovic, M.Tech., BDVA Vice-President
  - **Data Intelligence in CEA, IEC: Allabout Industry**
    - Germain Camp, CEA, IEC, European affairs manager “ambient intelligence”
  - **How Big Data Value Ecosystem Works**
    - Edward Kelly, BDVA Vice-President & Insight Research Leader
  - **European policies in a data-driven economy**
    - Maria Nagy-Rothganger, Head of Unit CNECT.01, European Commission

### Conference (16:00)

- **16:30**
  - Collaboration with other IT/IV initiatives (Puce, ETIM-PIC, CONSORECUS ARTENI).
  - Moderated by Neila de Lamas, ATOS, BDVA Deputy Secretary General. Collaboration of Maria Nagy-Rothganger, Head of Unit CNECT.01, European Commission
  - **The Data Value: Challenges and Opportunities**
    - Walter Miege, Vice-President and CEO, Huawei
  - **Keynote: Dirk Ramerschläger**, Director Strategy & Innovation, INMEL
  - **US Big Data Regional Innovation Forum**
    - Accelerating the US Big Data Innovation Ecosystem. Leon Sheldon, Sr. Executive Director, South Big Data Hub (F RENCI)
    - **Conclusions and the Days Ahead**
      - Ana Guita Nebot, EIBA Secretary General
  - **Social Event**

**Sponsored by:**
- THALES
- ATOS
-宝鸡
- ITI
- NISWARE

**Hosted by:**
- BDV
- ITI
- Politecnica de Valencia

**Special Contribution:**
- Digital Innovation Hub of the Michelin

---

**Event Title:**
- BDV DATA VALLEY ASSOCIATION

**Organized by:**
- Valencia Summit 2016

---

**Page Number:**
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3.3 Day 2

3.4 Day 3
4 Speakers
Thomas Hahn, Chief Expert Software at Corporate Technology Siemens

Thomas Hahn, born in 1960, has been Chief Software Expert at Siemens AG since 2011. After studying computer science at Friedrich-Alexander University of Erlangen he joined the company in 1986 and worked as a product developer in the field of industrial networks in Erlangen. In 1993 he moved to Nuremberg, where he worked in product management for SIMATIC and as a project manager responsible for development of SIMATIC STEP 7. From 1997 he worked as Head of Development at Traffic Control Systems in Munich for two years. In 1999 he returned to Nuremberg, where he was Head of Software Development for Industrial Automation Systems. He held this post until 2011. In addition to his function as Chief Software Expert, he was Head of the Business Analytics and Monitoring technology field from 2011 to August 2013. Beyond his activities at Siemens, Thomas Hahn is a member or board member of various bodies, including the OPC Foundation, Big Data Value Association, Openlab CERN and Platform Industrie 4.0.

Title of talk: “Shaping the Digital Transformation – Industrie 4.0 and importance of data analytics”

Javier Hernández Ros. Acting Director. Data Directorate's. DG CONNECT, European Commission
Willem Jonker. CEO. EIT Digital

Title of talk: Will data drive Europe's digital transformation?

Daniel Diaz Luengo

MsD in Computer Science (1997) and MsD in Programming (2005) by the Polythecnic University of Valencia. MBA by Telefónica (2011). Daniel holds the PMP professional certification and others (ITIL, CCIE, JNCIS). Daniel held the RedIRIS IT manager position (Madrid, 1998-2000) and was Operations Manager at RIPE NCC (Amsterdam 2000-2003), among other position along well known companies in the IT market.

Working for Telefónica since 2008, managing network special projects until 2012, later he joined the M2M & Cloud unit in Telefónica Digital and since July 2014 manages the Valencia SmartCity platform project.

Title of talk: Big Data @ Valencia SmartCity Project - VLCi.

Gabriella Cattaneo. Associate Vice President IDC European Government Consulting

Gabriella Cattaneo leads IDC European Government Consulting unit, which she founded in 2005 to provide research and consulting services to governments and policy
makers on ICT market trends and scenarios, leveraging IDC’s global research. Cattaneo has more than 25 years’ experience in socio-economic research, impact assessment and benchmarking of ICT policies on behalf of the European Commission. She is responsible of the European Data Market study for DG CNECT, measuring and forecasting the EU data-driven market and economy. Cattaneo is a graduate in Political Sciences Magna cum Laude from Milan State University with a prize-winner research Thesis.

**Title of talk:** Big Data Value Market Trends & Opportunities.

**Summary:** Big Data is the catalyst which has been driving data-driven innovation in Europe, generating a data market value estimated at 60 €Billion in 2016, and strong potential forecast growth to 2020 (even taking into account the potential consequences of Brexit). This talk will present the key results of the most recent update of the European Data Market Monitoring Tool developed by IDC for the EC DG CONNECT, exploring the main demand trends by vertical market and the multiplier impact of the data market on the European economy to 2020, estimated at around 4 times the size of the data market. The data is available at www.datalandscape.eu.

---

**José Bernabeu-Aubán.** Scientific Director, ITI

José Manuel Bernabeu is the Scientific Director of ITI and Professor at the Polytechnic University of Valencia. He held the position of Partner Architect at Microsoft (USA) between 2004 and 2010, where, among other tasks, he was in charge of the design of the architecture of Windows Azure, taking responsibility for its implementation. Previously, he was Scientific Director of ITI from its creation until 2004 and also participated in the design of the Sun Cluster from 1995 to 1997. He received his Ph.D. in computer science at the Georgia Institute of Technology, after obtaining a degree in Physics at the University of Valencia. His interests focus on the development of technologies to support distributed systems and cloud computing, as well as the study and applications of complex systems and networks.

**Title of talk:** Big Data Analytics Infrastructures.
**Fabien Girardin.** BBVA Data & Analytics
Fabien Girardin (PhD) is a researcher, engineer and creator at BBVA Data & Analytics, a center of excellence in financial data analysis, where he leverages his broad and comprehensive understanding of both computational and people constraints to transform algorithms into user experiences that are future forward. Throughout his career, Fabien has pioneered works at the intersection of user experience and data science.

---

**Antonio López de Ávila.** SEGITTUR Presicent
Antonio López de Ávila was appointed as President of SEGITTUR in February 2012 and, since then, he is leading the Smart Destination Initiative in Spain (a leading action worldwide).

SEGITTUR manages the Spanish Tourism Entrepreneur Network (Red Innipulsa) and since 2012 has financed around 350 start-ups and companies with more than 60M€. SEGITTUR manages the official web portals of Tourism (www.spain.info) and Culture (www.spainisculture.com) of Spain, as well.

A renowned scholar focused in various research areas in Tourism Innovation including destination and tourism product development, application of state-of-the-art technologies, Mr. López de Ávila worked at IE Business School (www.ie.edu), one of the top business schools worldwide, for over a decade. Before joining the government sector, he served as the school’s Director of the Tourism Unit and also of the Tourism Research Centre, and he was the school's representative at UNWTO.

From 2001 to 2004, he was an advisor to the Secretary of State for Tourism and Commerce, Government of Spain. He was also an entrepreneur as founding partner of the Spanish Institute for Business Management and many other companies. He also was Trustee of Paradores de Turismo (www.parador.es), a Spanish state owned chain of luxury hotels usually located in historic buildings.
He is member of the Advisory Board of Tourspain and member of the Advisory Board of the Spanish Small and Medium-sized Enterprises Council.

He earned an Executive Master in Business Administration from IE Business School and a Bachelor Degree in Law from ULPGC (Spain).

---

**Géraud Canet**, CEA List, European affairs manager “ambient intelligence”

Géraud holds a PhD in Computer Science (Formal methods for software safety). He is being working in CEA since 2001, as a research engineer in software safety, then European project manager in the domain of information extraction from unstructured multimedia sources. He is now in charge of European affairs in CEA List, mainly in the field of Security. He is chairing the EARTO Security Working Group and is an elected member of the Board of Directors of the cybersecurity PPP (ECSO association).

**Title of talk**: Data Intelligence in CEA List: All about industry

Summary: As an RTO (Research and Technology Organisation), CEA is leading research covering the full spectrum of Data Intelligence. But research in CEA is the backbone of a full system oriented towards industry, society and the citizen.

---

**Edward Curry**, BDVA Vice-President & Insight Research Leader
Edward is a Research Leader the Insight Centre for Data Analytics. Edward has worked extensively with industry and government advising on the adoption patterns, practicalities, and benefits of new technologies. Edward has published over 100 scientific articles in journal, books, and international conferences. He presented at numerous conferences/events and has given invited talks at Berkeley, Stanford, and MIT. In 2010 he was a guest speaker at the MIT Sloan CIO Symposium to an audience of 600+ CIOs and senior IT executives. His research projects include studies of sustainable IT, energy intelligence, semantic information management, event based systems, and collaborative data management. He was a member of the primary contributor team for both the BDV cPPP proposal and the BDV SRIA 1.0. He is a member of the scientific leadership committee of Insight, and was a member of the group to devise the University’s Strategic Plan 2015-2020. He has a PhD from the National University of Ireland.

**Title of talk:** How Big Data Value Ecosystem Works

---

**Marta Nagy-Rothengass,** Head of Unit CNECT.G1. European Commission

Mártá is currently Head of the Data Policy and Innovation Unit, representing the public sector in the BDV PPP. She has more than 10 years' experience in the European Commission. She has worked on ICT solutions enabling better environmental and disaster risk management, contributed to the Strategic Energy Plan and launched activities addressing energy efficiency. Mártá has initiated the work on the concept of the European data economy and the data value chain. She is in charge of a board portfolio including policy development and implementation, legislation on Open Data and research and innovation management.

**Title of talk:** European policies in a data-driven economy
Dr. Walter Weigel, VP de Huawei European Research Institute (ERI).

Title of talk: Big Data Big Value - Challenges and Opportunities

Dr. Weigel, Director General of the European Telecommunication Standards Institute ETSI (2006-2011). From 1991 to 2015 he held several positions within Siemens AG, including VP of External Cooperations and Head of Standardization in Corporate Technology, VP of the Research & Concepts-department of the Mobile Networks as well as Head of the Video Processing for the semiconductor business units (today Infineon). He founded the industry consortium on CPRI (Common Public Radio Interface) together with Ericsson, NEC, Nortel, Siemens and Huawei. He was involved in several EU FP 7-projects, has published about 50 technical papers and is the initiator/editor of the book “ICT shaping the world”. He is a lecturer at the Technische Universitaet Muenchen, member of the IEEE Board of Governors, of the Key Enabling Technologies working group of the EC, the Innovations dialog of the German Government and of the Aalborg University Industry Advisory Council.

Dirk Hamelinck, Director "Strategy"&"Innovation" iMEC

Dirk Hamelinck acted since mid 2014 as Deputy Secretary General for BDVA until today. This morning his candidacy as new BDVA Director was approved. At imec he heads Strategy and Innovation for DataScience, to connect the imec expertise to the needs of external partners.

During the first 15 years, Dirk's career at Philips followed the same adoption cycle as the Optical Recording business he was working for. First as technical manager, later in business roles to drive market adoption, and finally as Product Strategy manager partnering with all PC industry leaders.

When Philips formed a joined venture in Taiwan, Dirk chose for not to move to Asia, but engaged in a new mission as Strategic Partnerships Director for Embedded Systems at imec. In 2014 he joined iMinds, and now 2 years later, the merger of iMinds with imec feels like a back home coming to Dirk.

Title of talk: Research to embrace a better life

Summary: On October 1st, iMinds and imec have joined forces to create a new imec. These Strategic Research Centers located in Flanders will now build together an even stronger research provider in Semiconductor and Digital technology.
By combining State-of-the-Art Hardware and Software expertise in DataScience - Everything Connected and Digital Trust, solutions unimaginable a few years ago now come available at your doorstep. Whether it as research partner, technology provider or incubator with Industry, Smart Cities, or SME's & Startups, imec will support you to embrace a better Life.

Dirk Hamelinck, Head of Strategy & Innovation at imec, will showcase some recent success stories of research cooperation in the BigData domain.

Jean-Marie Spaus. Coordinator of the IPCEI initiative on High Performance Computing and Big Data enabled Applications at the Ministry of Economy Luxembourg

Jean-Marie was Deputy Director-General of POST Luxembourg and Director of the Telecommunications Division of POST Telecom Luxembourg from 2005 to 2016. He is now the coordinator of the IPCEI initiative on High Performance Computing and Big Data enabled Applications at the Ministry of Economy Luxembourg.

He started his professional career as a Telecom engineer. From 1995-2005, he was in charge of POST Telecom Luxembourg’s CRM software team. In 2005, he became team leader of a group providing ICT facilities to the Luxembourg government in the context of the Luxembourg Presidency of the European Council.

In 2005, he became a member of the management board of POST Luxembourg. He was also a member of the Board of Directors of different IT companies in Luxembourg.

In April 2016 he changed to the Luxembourg Ministry of Economy to coordinate the HPC - IPCEI initiative launched by Italy, France, Spain and Luxembourg.

Lea Shanley, co-Executive Director, South Big Data Hub @ RENCI
Dr. Lea Shanley is the co-Executive Director of the South Big Data Innovation Hub at the University of North Carolina at Chapel Hill, which is one of four hubs sponsored by the US National Science Foundation. Previously, Dr. Shanley served as a White House Presidential Innovation Fellow at NASA, where she designed and guided open innovation and open source research strategies for planetary and Earth science. Dr. Shanley also co-founded and led the US Federal Crowdsourcing and Citizen Science Community of Practice and the Washington-based Wilson Center's Commons Lab, building and strengthening public-private-academic partnerships to accelerate strategic research in big data, social computing, and crowdsourcing. She holds a PhD in geographic information science and remote sensing from the University of Wisconsin-Madison.

**Title of talk: US Big Data Regional Innovation Hubs: Accelerating the US Big Data Innovation Ecosystem**

**Summary:** The US Big Data Innovation Hubs, a network of four regional hubs launched by the US National Science Foundation in 2015, build and strengthen partnerships across industry, academia, and government that apply data science and analytics to address socio-economic and scientific challenges in priority verticals. The Hubs work to (1) grow networks of data scientists, domain scientists, industry and practitioners to bridge the gap between research and practice, and share resources, best practices, and standards; (2) build partnerships across sectors and with cloud services and cyberinfrastructure providers to facilitate distributed data sharing and computing, and drive data-related demonstration projects and pilots; and (3) develop data literacy and data science capacity through education, training, workforce development. The US Big Data Innovation Hubs seek to collaborate with and learn from the best practices, success stories, and activities of the BDVA.

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**Yannick Legré, Managing Director of the EGI Foundation**

Yannick is the director of the EGI Foundation since February 2014. He was formerly a senior research engineer at the French National Scientific Research Centre – Grid and Cloud Institute (CNRS-IIdGC). He holds a Master of Science in Information Technology and a degree in Law (LL.L). Over the last 15 years, Yannick has been involved in more than 30 projects in the areas of healthcare and biomedical research, as well as biodiversity and environmental research. Yannick was also the president of the international HealthGrid association and the director for International Relations of a French SME.

**Title of talk: EGI: Advanced Computing Services**
Summary: EGI portfolio of compute, storage and data services, and how they support research and innovation in Europe.

Kush Wadhwa, Director - Trilateral Research

Kush Wadhwa provides strategic leadership within the Trilateral team across a diverse set of technology, policy, and socio-economic areas of expertise. He leads teams that specialise in research and advisory services focused upon data sciences, including big data, data analytics, predictive analytics, social media analytics, data visualisation and data-driven innovation. His work in these technology areas is complemented by his prior work in social science focused projects related to data protection and privacy, crisis and disaster management, and by his work in the private sector in technology development organisations where he has extensive experience in business modelling, economic modelling, pilots and trials design and development, and innovation management.

Rachel Finn, Practice manager - Trilateral Research.

Rachel leads the Data Science team at Trilateral. She manages projects and participates in research related to the privacy, data protection and social impacts of current and emerging data technologies and practices, including issues relevant to big data, open data, open government, security technologies (especially drones) and standardisation. She provides regulatory and policy advice for European, national and institutional policy-makers on the responsible implementation of new technology systems. She is widely published in relation to all of these issues, and has a number of often-cited publications, including "Unmanned aircraft systems: Surveillance, ethics and privacy in civil applications" and "Seven types of privacy". Her latest book, Open Data
in the Knowledge Society, will be published by AUP in 2016. She has a PhD in Sociology from the University of Manchester.

Title of talk: Capturing the benefits of big data: The BYTE project

Summary: The BYTE project was tasked with developing a plan to enable Europe to capture the benefits of big data by addressing the potential negative impacts of large-scale data analytics. BYTE has created a series of good practice recommendations and roadmap steps to address privacy, copyright, business model disruption, etc. while enabling better decision-making, resource efficiency and other benefits. This presentation will share our learnings.

Roberto Paredes. PRHLT Director. Universidad Politécnica de Valencia

Roberto Paredes is an Associate Professor at Departamento de Sistemas Informáticos y Computación DSIC of the Universidad Politécnica de Valencia UPV. He belongs to the Pattern Recognition and Human Language Technologies Research Centre PRHLT. Roberto Paredes is the Director of the PRHLT. He is also the co-founder and CTO of Solver Machine Learning an spin-off of the UPV. His main research interests are around the statistical learning, machine learning and more recently neural networks and deep learning.

Title of talk: Deep Learning for Big Data

Summary: Deep Learning is becoming a big tsunami in the Machine Learning community. This talk introduces briefly the Deep Learning, its motivations and solutions. Special attention is taken around the learning concept that rely on the data available. Under a Big-Data perspective Deep Learning is a perfect partner in order to face modern and complex problems.
Roberto Martínez. Deputy Director of the European R&I Office at the Technical University of Madrid (UPM)

Roberto Martínez is the Deputy Director of the European R&I Office at the Technical University of Madrid (UPM), where he coordinates the participation of UPM in several areas of Horizon 2020, including the Big Data Value PPP. He was graduated as Telecommunication Engineer for UPM, and he has a Master Degree in Economy and Innovation management and Technology Policy. His research interests are linked to innovation ecosystems driven by universities.

Title of talk: BDVA inputs to Workprogramme 2018-2020

Summary: The European Commission has opened the process to collect inputs for the next Workprogramme 2018-2020. This presentation will give an overview of the position of BDVA towards this new Workprogramme and will introduce what are the key areas proposed for funding.

Kimmo Rossi, Head of Sector CNECT.G3.001. European Commission

Title of talk: PPP Infoday Call 2
Fernando Martín Galende. Spanish ICT National Contact Point. CDTI

Fernando Martín Galende is MSc in Telecommunication Engineering (ETSIT – University of Valladolid, Spain). He is specialist in Signal Processing applied to digital audio signals. He has two-year experience doing basic digital audio research and three-year experience of advanced R&D in the fields of Multimedia and Video over the Internet. He joined CDTI in 2002, at the end of FP5, and has been taking roles as ICT NCP and member of the ICT Committee along the different Framework Programmes, currently being ICT-LEIT NCP for H2020.

Title of talk: Opportunities for Big Data Activities beyond the PPP

Summary: The presentation will show how Big Data technologies are producing a paradigm shift that goes beyond the IT sector itself and will produce a high impact in many other verticals which, in any case, is expected to be aligned with the technological advances and approaches described in the Strategic Research and Innovation Agenda of Big Data Value. Examples and recommendations to approach these opportunities beyond BDV Calls will be given.
5 Sessions
5.1 Session Backgrounder

Parallel Sessions take place on Thursday 1st December around multiple themes, including vertical scenarios for applying Big Data Technologies, Scientific challenges for Big Data, Social and Legal and Standardisation Aspects and Community matters.

Most sessions are allocated in one of the Task Forces and chaired by the subgroup responsible and the objectives are:

- Collect suggestions for improving the Strategic Research and Innovation Agenda
- Detect the trends and barriers for Big Data Technologies in vertical sectors.
- Write whitepapers around Big Data and its applications.
- Establish contacts and networking for H2020 proposals

5.2 Session Plan

See over
Day 2. 1st December

ROOM/People
AMARILLO Cube / 140
ROJO Cube / 140
INNOVA Room / 60
CAMBIA Room / 35
IMAGINA Room / 30
DESCUBRE Room / 35
APRENDE Room / 30
DEBATE Room / 30
CREA Room / 25

Sponsor

10:45
Emerging Research Themes in Big Data

Federico Barthe / Guillaume Gruyer
Dominic Ramos

10:55
Big Data and Smart Manufacturing Industry

Bart van de Kerkhove / Jorga Quiroz

11:05
Fully Benefiting from Big Data from Space

Eric Gaüzère
Carlos Villar
Robert Small

11:15
How Big Data is transforming the Telecommunication Industry

Bart van de Kerkhove / Jorga Quiroz

11:25
BYTC Big Data Community Workshop

Lorenzo Bigi / Olga Pouwels
Jone Mikel Baeza

11:35
Why should industry believe in Big Data now?

Maria Capdevila
Barneke Gregersen / Jorga Quiroz

11:45
Big Data and Smart Health

Deep Learning / Predictive Analytics

11:55
Big Data and Smart Manufacturing Industry

Media and Big Data – Challenges Ahead

12:05
Big Data Challenges in Energy

12:15
Big Data Architectures / Infrastructures

Making the best of big data – How do data economy actors adapt their strategies to changing framework conditions in Europe

12:25
BYTC Big Data Community Workshop

Lorenzo Bigi / Olga Pouwels
Jone Mikel Baeza

12:35
Community & Stakeholder platform

LUNCH (12:45)

14:45
BDVA l’Spaces at work

Scientific methods for Big Data

Smart Cities

Data Protection - privacy-preserving Big data technologies

15:45
Shifting Retail Operations from Reactive to Proactive using Big Data analytics

15:55
Languages as a Data Type and Key Challenge for Big Data

16:05
Policy and societal implications of Big data

16:15
Big Data: Europe’s Imaginative Platform: A One-stop solution for Big and Smart Data Management

16:25
Data Science Skills in Europe

Organized by

Hosted and organized by

Special Contribution
## 5.3 AMARILLO Cube

<table>
<thead>
<tr>
<th>Room</th>
<th>AMARILLO Cube</th>
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</table>
| Sessions | Emerging Themes in Big Data  
Big Data and Smart Health  
BDVA i-Spaces at work  
BDVA Strategic Research & Innovation Agenda |
Name of Promoter / Coordinator | Guillaume Gravier  
| Freek Bomhof  
Organization | Inria  
| TNO  
Email address | guig@irisa.fr  
| freek.bomhof@tno.nl  
Current BDVA Membership Status | full  
| full  
Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3 | TF6 technical  
| TF7 applications  

Title of the Parallel Session/Working Group:

Emerging topics: looking forward to future challenges, research themes, and application areas

Objectives and speakers:

The objective of the session is to create an inspiring and actionable set of topics around Big Data Value that are expected to become important in the future. The idea is to discuss and organize a long-term vision, identifying emerging applications and how they will impact business and society, and discussing how emerging technology will change existing applications and foster new ones.

The session will start from a list of potential topics for discussion, compiled by the session organizers based on input from BDVA members. Additions to the list can be made at the beginning of the session, possibly followed by selection of the main topics to be discussed. For each topic selected, a quick pitch (ca. 3 minutes) from the proposers of this topic will initiate a plenary discussion. As a conclusion of the session, we will synthesize the topics discussed and start organizing a long-term vision paper.

Expectations:

In this session, participants will be able to:

- Contribute with their views on future themes in Big Data
- Learn from other participants how they perceive the subject
- Get involved in the process within BDVA to draft a vision paper on the subject

Outcomes at Summit:

The expected tangible outcomes of this session are:

- The session will provide 3 to 5 topics that will be among the most important ones to influence future versions of the SRIA
- For each of the topics, the session will identify the challenges for Big Data Value research, the opportunities for application domains, the implications for policy makers, and the expected impact on society.
Outcomes beyond summit:

The expected tangible outcomes following this session are:

- A BDVA long-term vision paper on future challenges, research themes, and application areas; including their implications
Title of the Parallel Session/Working Group:

Health (TF7 Healthcare)

Objectives and speakers:

The main objective of this session is to discuss and identify opportunities of applying big data in the health domain. In this session we will present recently finalized whitepaper on big data technologies in healthcare. Furthermore, several speakers from hospitals (e.g. Valencia Hospital), industry (e.g. Philips and GMV) and research institutes/academia (e.g. Imec, UPV, UPF) will present impactful application of big data.

Expectations:

In this session, participants will be able to:

- Get an overview on whitepaper and the opportunity to give comments
- Discuss and share best practices of applying big data in health domain
- Discuss opportunities (use cases) on big data in health care
- Discuss and identify big data challenges in this domain

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Approved whitepaper on big data technologies in healthcare
- List of appealing use cases for applying big data in the health domain
- List of technologies and challenges in the health domain

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Prioritised list of potential use cases that could be addressed by a health Lighthouse project
Name of Promoter / Coordinator: Dirk Mayer/Pierre Pleven
Organization: Software AG/Teralab
Email address: dirk.mayer@software.ag.com / pierre.pleven@gmail.com
Current BDVA Membership Status: Full member, BOD member
Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3: TF1 SG4

Title of the Parallel Session/Working Group:

BDVA i-Spaces at work

Objectives and speakers:

This session should show in which way i-Spaces work by presenting projects, infrastructure and work from 3 different i-Spaces. It also point out how participation at i-Spaces could create value and give an outlook for federation of i-Spaces

Dirk Mayer, Pierre Pleven, Dr. Till Riedel, tbd

Expectations:

In this session, participants will be able to:

● See current and successful Projects and work at existing i-Spaces
● Get information on how to participate and work with/at i-SPACE
● Get information on which way we think a federation of European i-Spaces should look like

Outcomes at Summit:

The expected tangible outcomes of this session are:

● Discussion on how to get more companies to be involved in projects at i-Spaces
● Discussion on how trust in i-Spaces can be enhanced without first projects
● Discussion on how federation could look like and how to bring forward

Outcomes beyond summit:

The expected tangible outcomes following this session are:

● Participants to encourage their (large) companies to share data for projects at i-Spaces
● Participants get into contact to existing i-Spaces
● New projects at i-Spaces
● Identify new European i-Spaces
Title of the Parallel Session/Working Group:

*BDV PPP Strategic Research and Innovation Agenda*

Objectives and speakers:

The Big Data Value Association (BDVA) is responsible for providing regular (yearly) updates of the SRIA defining and monitoring the priorities as well as metrics of the cPPP. In this context, we want to engage with the wider BDVA community to ensure a comprehensive perspective concerning the technical and business impact of the SRIA technical and non-technical priorities.

Expectations:

In this session, participants will be able to:

- get an overview of the BDV Strategic Research and Innovation Agenda (SRIA)
- learn about results of the community survey encompassing BDVA member responses
- discuss the business impact of the technical priorities covered within the SRIA

Outcomes at Summit:

The expected tangible outcomes of this session are:

- develop a comprehensive perspective concerning the technical and business impact of the SRIA technical and non-technical priorities
- identify emerging priorities with high impact for the European big data economy

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- to understand whether the SRIA – e.g. the technical and non-technical priorities -- needs to be changed
### 5.4 ROJO Cube

<table>
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<th>Room</th>
<th>ROJO Cube</th>
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<td>Deep Learning / Predictive Analysis</td>
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<td>Scientific methods for Big Data</td>
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<td></td>
<td>Advanced Visualisation and User Experience</td>
</tr>
</tbody>
</table>
**Name of Promoter / Coordinator** | Dumitru Roman
---|---
**Organization** | SINTEF
**Email address** | dumitru.roman@sintef.no
**Current BDVA Membership Status** | Full member
**Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3** | TF6.SG1

**Title of the Parallel Session/Working Group:**

*Data Management*

**Objectives and speakers:**

The goal of this session is to present and discuss ongoing and emerging trends (technical and business challenges, approaches, tools, etc.) in the data management area. The agenda is organized in two sessions, one consisting of presentations related to data management, and one dedicated to discussions, as follows:

Data Management presentations (approx. 15 min / presentation):

- **Big Data from Space - challenges, opportunities and data management related needs** by Dr. Florin Serban (TERRASIGNA, Romania)
- **Smart Agriculture, Marine & Environment, Big Data Management Scenarios** by Mariano Navarro (Grupo TRAGSA – TRAGSA, Spain) and Jesús Estrada (Grupo TRAGSA – TRAGSATEC)
- **Big Data Management for Precision Medicine** by Prof. Dr. Oscar Pastor (Universitat Politecnica de Valencia, Spain)
- **Big Data for Smart Grids: A New Hope** by Assoc. Prof. Dr. Juan Miguel Gomez Berbis (Universidad Carlos III de Madrid, Spain)

Discussions (approx. 30 min):

- BDVA TF6.SG1 group status and plans
- Status TF6.SG1 white papers
- Potential contributions to the BDVA TF6 Book
- Potential H2020 big data management proposal
- SRIA Big Data Management topics
- AOB

**Expectations:**

In this session, participants will be able to:
• Share experiences from work in "Data Management" (challenges, solutions, projects, products, business cases, etc.)  
• Shape future TF6.SG1 activities  
  o Discuss the scope of "Data Management", and the relationship to the other TF6 groups  
  o Identify "Data Management" challenges that should be addressed in the context of BDVA  
  o Identify potential contributions to the planned TF6 Book  
  o Discuss potential joint data management related proposal for H2020

Outcomes at Summit:  
The expected tangible outcomes of this session are:

  • Learn about ongoing and emerging trends in the data management area and the current activities of TF6.SG1  
  • Identify concrete proposals for data management chapters to be included in the TF6 book, possibly based on the ongoing group whitepapers  
  • Identify the possibility of a H2020 proposal related to data management (e.g. H2020 ICT 14)

Outcomes beyond summit:  
The expected tangible outcomes following this session are:

  • Involve relevant parties in future activities of TF6.SG1  
  • Identify synergies of with other BDVA groups
Title of the Parallel Session/Working Group:

Deep Learning / Predictive Analysis

Objectives and speakers:

This session will comprise two parts: first some introductory views on what Deep Learning and Predictive Analysis is and is not, second a moderated discussion session targeted towards future directions for updating the Strategic Research and Innovation Agenda (SRIA).

Roberto Paredes, Universidad Politécnica de Valencia: “Industrially driven research in Deep Learning and Predictive Analytics”.

Jon Ander Gómez Adrián, Universidad Politécnica de Valencia: “Anticipating Failures in Productive Environments”.

Bjarne Kjær Ersbøll, Technical University of Denmark: “Deep Learning – and then what?”

Expectations:

In this session, participants will be able to:

- Hear about some of the most recent advances in the topic
- Express their views and influence the direction the SRIA is moving

Outcomes at Summit:

The expected tangible outcomes of this session are:

- A list of novel areas for research which are influenced by the needs of industry and society

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- An agenda for future networking and collaboration to strengthen the work in TF6.SG3 on the SRIA
Title of the Parallel Session/Working Group:
Scientific Methods for Big Data

Objectives and speakers:
This session will explore the interplay between big data and the scientific method and its application with different fields of scientific discovery. The session will discuss challenges, best practices, and implications for the BDV community.

Speakers – (TBC – Awaiting confirmation)

Expectations:
In this session, participants will:

- Receive an overview of the Theory vs. Data-driven approaches to scientific investigation
- Explore how advanced data science methods can be used to derive scientific inferences from massive, distributed scientific measurements and models
- Share practical experiences of overcoming challenges and best-practices approaches to applying big data techniques for scientific experimentation.
- Discuss the implication the BDV community and the fore-coming PPP projects.

Outcomes at Summit:
Participants with gain knowledge of the evolution of the scientific method to include big data techniques and discuss the implications for the BDV Community.

Outcomes beyond summit:
This session will facilitate the future dialogue and collaboration between scientific members of the BDV Community to advance discussion on the challenges and approaches for scientific methods using big data.
The expected tangible outcomes following this session are the formation of a working group on scientific methods for big data.

**Name of Promoter / Coordinator**
Carlos A. Iglesias

**Organization**
Universidad Politécnica de Madrid

**Email address**
carlosangel.iglesias@upm.es

**Current BDVA Membership Status**
Full member

**Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3**
TF6.SG5

**Title of the Parallel Session/Working Group:**
Advanced Visualisation and User Experience

**Objectives and speakers:**

The objectives of this session is to organise and to structure the WG, so that the participants can contribute to develop the research agenda of visualisation and advanced interfaces. The session will present current activities of the WG, which consists of (I) a collaborative chapter about this topic in a BDVA book and (ii) the WG contribution to develop and validate the BDVA research agenda roadmap. Moreover, the session aims to revitalize networking in the light of establishing new, profitable collaborations and synergies for next calls.

**Expectations:**

In this session, participants will be able to:

- Understand objectives of the working group
- Participate to the management of the working group
- Participate in the activities of the working group
  - Contribution to a book on BDVA
  - Contribution to SRIA
- Networking for next calls

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- Definition of structure and activities of the WG
- Definition a schema for participation in the BDVA book

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:
• Participation in activities of the WG
• Participation in the BDVA book
• Contribution to SRIA

5.5 INNOVA Room

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<th>Room</th>
<th>INNOVA Room</th>
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<tr>
<td><strong>Sessions</strong></td>
<td><strong>Big Data and Smart Manufacturing Industry</strong></td>
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<td>Big Data and Smart Cities: who are the beneficiaries, who leads and which are the main barriers?</td>
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<td></td>
<td>Cognitive Computing</td>
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</table>
Title of the Parallel Session/Working Group:

Big Data and Smart Manufacturing Industry: requirements and challenges

Objectives and speakers:

The EC Communication of April 19th “Digitising European Industry. Reaping the full benefits of a Digital Single Market” is casting new light on the mutual interactions between ICT and Manufacturing Industry. EU-borne Open Digital Platforms in three main domains, i.e. IoT – physical meets digital -, Big Data – value for knowledge – and Artificial Intelligence – autonomous systems -, are expected to drive the transformation of Manufacturing Industry towards innovation in products, processes and business models. On the other side, Manufacturing Industry is constantly evolving towards its fourth revolution (Industry 4.0) characterised by the full adoption of Cyber Physical Systems in Factories. Big Data and Factories of the Future PPPs need to find common challenges and joint collaboration channels towards the full implementation by 2020 of the Digitising Industry communication.

The main objective of the session is to interpret and adapt the BDV SRIA technical and non-technical priorities in line with Industry 4.0 scenarios in the Factory, in the Supply Chain and in the Product lifecycle.

The first slot (90’) is dedicated to position statements by research and industry practitioners in both domains, while the second slot (90’) will identify the most urgent R&I priorities and challenges in the intersection of both domains.

20’ The BDV SRIA priorities in the Digitising Industry perspective (Sonja Zillner - SIEMENS)

15’ The Factories of the Future PPP and EFFRA 2020 Roadmap (Sergio Gusmeroli - ENGINEERING)

20’ Industry 4.0 and Digitising Industry: the two sides of the same coin? (Sergio Gusmeroli - ENGINEERING)
25’ Predictive maintenance in Manufacturing. The Ford experience. (Francisco Sánchez - ITI & Eduardo Guillamón - FORD)

10’ Q&A and discussion “Big Data Value in Industry 4.0: disruptive or incremental innovation?”

The second slot (90’) will be an interactive and participative session for identifying and discussing the most urgent R&I challenges for fully adopting Big Data technologies in Manufacturing Industry. Attendants will be split in three groups, which will address in three 25’ shifts the identified Manufacturing Industry Grand Challenges: Smart Factory – factory automation and workplace interaction scenarios -, Smart Product Lifecycle – Beginning, Middle and End of Life scenarios -, Smart Business Ecosystems – Supply and Distribution chain scenarios -. A group rapporteur in 5’ will summarise and expose the main findings of his/her group.

Expectations:

In this session, participants will be able to:

- Become aware of BDV R&I challenges in Manufacturing Industry
- Get informed about Factories of the Future current projects
- Listen to Industrial success stories in the adoption of BD in Manufacturing Industry
- Participate in the definition of R&I priorities in this domain
- Contribute to a position paper on “BD Technologies for the fourth Industrial Revolution”

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Set-up of a community of research and industrial practitioners in BD for Manufacturing
- A definition of R&I priorities for Big Data in three industrial scenarios
- A first draft of a position paper on “BD Technologies for the fourth Industrial Revolution”

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Enlargement and expansion of the communities also in the view of FoF and BD PPP 2017 H2020 calls
- Refinement of the technical and non-technical priorities
- Release of a first version of the position paper by end of December 2016
Title of the Parallel Session/Working Group:

Big Data and Smart Cities: who are the beneficiaries, who leads and which are the main barriers?

Objectives and speakers:

According to the last Big Data Value Strategic Research and Innovation Agenda, there are several dimensions that should be taken into account in order to extract real value from Big Data in Europe (i.e. data, skills, legal, technical, application, business and societal). However, it is well recognized that a central and key role must be played by an interdisciplinary approach and Ecosystems. Besides, from Global Health Observatory data, it is now known that the urban population in 2014 accounted for 54% of the total global population and it is estimated that by 2017 a majority of people will be living in urban areas, where the global population is expected to grow approximately 1.63% (average percentage) per year between 2015 and 2030. This put cities in a crucial position to represent the main stages where to implement a concrete data value chain as another mandatory goal to became smarter. But there are several key questions to solve still: who should drive the process (is there any key role)? Will all the city stakeholder benefit from the process? Is the legal environment of a city ready (i.e. privacy issue)?

The slot (90’) is dedicated to provide a picture about some important initiatives focusing on the use of (Big) data in cities and to provide some of the key R&I priorities and challenges in the domain.

- 5’ welcome and setting the scene
- 20’ The BDV SRIA: the ecosystem “dimension” (?)
- 20’ The OJOALDATA100 initiatives (UPM)
- 30’ Interactive session in order to share lesson learned and identify what “Big Data” really means in a city (lead by ENG)
- 15’ wrap-up, conclusion and next steps
**Expectations:**

In this session, participants will be able to:

- *Become aware of BDV R&I challenges in cities*
- *Listen to use of data success stories in cities*
- *Identify and overcome cliché about Big Data and Smart City*
- *Interoperability and open data frameworks in cities. Dream or a reality?*
- *Main technical challenges to deal with in a city framework. Business: how to create value from data.*

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- *Set-up of a community of stakeholders in BD for cities*
- *A definition of R&I priorities for Big Data in Smart Cities*

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

- *Position paper on Smart cities: the role of data*
Title of the Parallel Session/Working Group:

Cognitive Computing

Objectives and speakers:
This session aims at introducing cognitive computing as a technology for better exploiting structured and unstructured big data towards improving human decision-making.

- Introduction to Cognitive Computing (David Bernstein)
- Cognitive Computing for Healthcare (David Bernstein)
- Cognitive Computing for Intelligence Services (Víctor Rodríguez Doncel)
- Experience of teaching IBM Watson at UPM (Ernestina Menasalvas)
- Discussion

Speakers:
- David Bernstein
- Ernestina Menasalvas
- Víctor Rodríguez Doncel

Expectations:
In this session, participants will be able to:

- Learn the concept of Cognitive Computing
- Discuss the benefits of Cognitive Computing on specific application cases

Outcomes at Summit:
The expected tangible outcomes of this session are:

- To have an introductory knowledge on Cognitive Computing
- To be able to describe an architecture using IBM Bluemix / IBM Watson

Outcomes beyond summit:
The expected tangible outcomes following this session are:

- Contact with different stakeholders (education, research, industrial application) around cognitive computing technologies.
### 5.6 CAMBIA Room

<table>
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<tr>
<th>Room</th>
<th>CAMBIA Room</th>
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</table>
| **Sessions** | **Fully Benefiting from Big Data from Space**  
| | **Media and Big Data – Challenges Ahead**  
| | **Data Protection - privacy-preserving big data technologies**  
| | **High Performance Data Analytics: Big Compute and Big Data Working Together For European Success** |
Name of Promoter / Coordinator | Florin SERBAN
---|---
Organization | TERRASIGNA
Email address | Florin.serban@terrasigna.com
Current BDVA Membership Status | Full member / BoD member/ EO / Geospatial SG (within TF7) leader
Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3 | EO / Geospatial SG (within TF7)

Title of the Parallel Session/Working Group:

*Fully Benefiting from Big Data from Space*

Objectives and speakers:

Given the incredible volumes of open data available from COPERNICUS Programme and the latest EU open data policy, Earth Observation domain faces multiple challenges in tackling big data related issues. Most of these challenges are similar with the ones the community is facing in any other domains when we talk about big data. But there are some particularities, specific to Earth Observation area, that are less visible to IT community. In the same time, using EO data in applications and services in domains that are not related to space and Earth Observation, can bring multiple benefits on short, medium and long term in many industries. Therefore, collaboration is needed between the EO and IT communities to exploit at maximum the information hidden within the overwhelming amount of EO data. The objective of the present session is to bring the IT community close to EO, for a common understanding of the related challenges and market opportunities, and to find complementarities and synergies to tackle the respective challenges in the actual context.

Speakers:

- **10:45 – 10:50** Welcome and introduction – TERRASIGNA (5min)
- **10:50 – 11:00** EO Big Data - European-level architecture and implementation initiatives – Günther LANDGRAF, Head of Ground Segment Infrastructure, Engineering Section, Directorate of EO Programmes ESA (10 min)
- **11:00 - 11:10** COPERNICUS data: strategies, initiatives and needs – Martina SINDELAR, EC, DG GROW (10 min)
- **11:10 – 11:20** EO exploitation - R&I within Societal Challenge 5 of Horizon 2020 – Gilles Ollier, Head of Sector Earth Observation, DG R&I, EC TBC (10 min)
- **11:20 – 11:30**  
  *EO Market Place Concept* – Geoff SAWYER, Secretary General, EARSC (10 min)

- **11:30 – 11:40**  
  *Necessity of addressing EO from the IT perspective* – Mihai DATCU, German Aerospace Center (DLR) - TBC (10 min)

- **IT industry view**

  - **11:40 – 11:50**  
    *EO industry – challenges* – Frederic Valois, Space Sales Manager, THALES (10 min)

  - **11:50 – 12:00**  
    *IT industry – present understanding of EO opportunities*  
    - IBM / SAP – TBC (10 min)

- **12:00 – 12:15**  
  *Open discussions*

**Expectations:**

In this session, participants coming from the IT community will be able to:

- Have a better understanding of:
  - EO domain - technologies, market, policies, needs;
  - On-going and planned initiatives;
  - EO domain needs that IT community could address;
- Present their current understanding of EO domain and plans / barriers to address it;
- Find concrete opportunities for common projects.

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- Input regarding complementary technical areas to address in projects putting together the two communities;
- Sectors where the two communities can cooperate for a better exploitation of EO data (e.g. Agriculture, Health, Natural hazards, new un-traditional domains);
- Follow-up steps.

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

- Closer contact between IT and EO communities;
- Project ideas to be developed together within different open ITTs / calls addressing related issues;
- Potential input to EC (DG GROW / DG CONNECT) and ESA regarding assigning roles in different initiatives;
- Draft business models and data exploitation concepts.
Title of the Parallel Session/Working Group:

*Media and Big Data – Challenges Ahead*

**Objectives and speakers:**

The media industry is changing. Like so many other industries, big data is seen as an opportunity to innovate into two fields: a data-driven workflow and personalizing products. Firstly, the media sector feels the need to adopt a data-driven mindset to fuel editorial teams. We want the teams to make decisions based on insights derived from data and not on creative gut feeling. Also, we want to use data insights to make better content and discover new topics to make content about. Secondly, we believe there is great value in personalizing products to deliver rich experiences to our viewers and listeners. We have a lot of content available and we need to figure out how to bring it to the right person at the right time. For these opportunities, we are looking into technologies like content recommendation engines, deep content analysis, automatic metadata extraction, customer profiling, social media monitoring, context-aware algorithms and pattern detection.

The session will feature presentations from invited speakers followed by a discussion time to identify new topics, and common interests for future projects in the field.

**Tentative program:**

- **Real-time analytics dashboards and content personalisation**
  - Steven Thys and Paul-Armand Verhaegen, VRT
- **Title to be announced**
  - Spiros Nikolopoulos, CERTH / ITI
- **Big data for content delivery adaptation (TBC)**
  - Marta Mrak and Saverio Blasi, BBC
- **Towards media content hypergraphs for interactive analytics**
  - Guillaume Gravier, Inria

**Expectations:**
In this session, participants will be able to:

- *Gain knowledge on the future of media and big data*
- *Help shape up research directions for media analytics*
- *Get to know the players in the field*

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- What roles are needed to change the media industry?
- What kind of infrastructure is needed?
- What are the opportunities the media sector is looking at?
- Who is involved?

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

- How can we work together?
- What kind of collaborations can we set up?
Title of the Parallel Session/Working Group:

Data Protection - privacy-preserving big data technologies

Objectives and speakers:

The goal of this session is to present and discuss ongoing and emerging trends (technical and business challenges, approaches, tools, etc.) in the data protection area, focusing on privacy-preserving big data technologies.

The agenda is organized in two parts, one consisting of presentations related to a newly granted privacy-preserving data analytics project and the second part consisting on discussion on different privacy enhancing technologies ranging from anonymization and statistical de-identification via consent/usage specification and control to secure multi-party computation and homomorphic encryption.

Project presentations (approx. 15 min / presentation):

- SODA project (PHILIPS, Netherlands)

Discussions (approx. 30 min):

- Discussions on different privacy related technologies
- BDVA TF6.SG4 group status and plans
- Status TF6.SG4 white papers
- Potential contributions to the BDVA TF6 Book
- Potential H2020 big data management proposal
- SRIA Data Protection topics
- Data Protection and Standardisation strategies/opportunities
- Data Protection and relationship to HPC
- AOB

Expectations:

In this session, participants will be able to:

- Share experiences from work in "Data Protection, Privacy and Anonymisation" (challenges, solutions, projects, products, business cases, etc.)
● **Shape future TF6.SG4 activities**
  - Discuss the scope of "Data Protection", and the relationship to the other TF6 groups
  - Identify "Data Protection" challenges that should be addressed in the context of BDVA
  - Suggested updates to the SRIA v2.0 and input to the H2020 Work programme for 2018-2020
  - Identify potential contributions to the planned TF6 Book
  - Discuss potential joint data protection related proposal for H2020

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- **Lear about ongoing and emerging trends in the data protection and privacy area and the current activities of TF6.SG4**
- **Identify concrete proposals for data protection chapters to be included in the TF6 book, possibly based on the ongoing group whitepapers**
- **Identify the possibility of a H2020 proposal related to data privacy (e.g. H2020 ICT 14)**

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

- **Involve relevant parties in future activities of TF6.SG4**
- **Identify synergies of with other BDVA groups**
Name of Promoter / Coordinator | Jim Kenneally
---|---
Organization | Intel Corporation
Email address | jim.kenneally@intel.com
Current BDVA Membership Status | Full

**Title of the Parallel Session/Working Group:**
High Performance Data Analytics: Big Compute and Big Data Working Together For European Success

**Objectives and speakers:**

One of Europe’s main challenges in the coming years will be to seize the opportunities of the digital economy. Europe must identify the strategic assets that need to be further developed to remain competitive on a global scale. Looking at such priorities, the development of high-performance computing (HPC) infrastructures and expertise in big data are of essential importance to the modernisation and the continued competitiveness of European industries.

**Title:** The benefits of increased collaborations between BDVA and ETP4HPC PPPs

**Speaker:** Jim Kenneally, Intel Corporation and BDVA BoD member.

**Overview:** The BDVA (Big Data Value Association) and the ETP4HPC (European Technology Platform for High-Performance Computing) recently announced an increase in collaborations to strengthen Europe's position in these two domains. Jim will highlight how cooperation between ETP4HPC and BDVA will exploit all the synergies between them including influencing of respective technical roadmaps regarding interdependencies and complementary aspects. Additionally, the collaboration will facilitate joint interactions between both communities such as joint supportive actions (e.g. Lighthouse Projects, Centre of Excellences, Extreme Scale Demonstrators, etc), workshops, conferences and so forth.

**Speakers:**

**Title:** European HPC Technology Roadmap

**Speaker:** Marcin Ostasz, ETP4HPC Office Expert

**Overview:** Marcin will present the European HPC Exa-scale technology roadmap (Strategic Research Agenda, [www.ftp4hpc.eu/sra](http://www.ftp4hpc.eu/sra)) and how it relates to the Big Data
Marcin will also talk about European HPC prototypes (Extreme-Scale Demonstrators, EsDs) which will serve the purpose of integrating and validating the European HPC technologies and allowing users (e.g. the Big Data Community) to participate in the design of the future HPC systems. The talk will conclude with highlighting the main developments in the European HPC eco-system and its overall ambitions.

**Title**: High Performance Computing and Big Data Enabled Applications (IPCEI-HPC-BDA)

**Speaker**: Jean-Marie Spaus, Minister of Economy Luxembourg, coordinator of the IPCEI initiative on High Performance Computing and Big Data.

**Overview**: HPC, big data and ultra-fast internet access are enabling technologies for all European industrial sectors. Europe has a unique opportunity to act now and invest in the development and deployment of HPC technology, Big Data and Applications. Failure to do so will seriously undermine European competitiveness and Europe will miss an important opportunity to ensure its industries compete on a global level. In order to address these European e-infrastructure challenges, to provide a springboard for new economic growth, Luxembourg, Italy and France have initiated an Important Project of Common European Interest on High Performance Computing and Big Data enabled Applications. This talk will share insights on the IPCEI-HPC-BDA three pillars, in support of the above objectives: Technology (pillar 1), Infrastructure (pillar 2) and Large Scale Applications (pillar 3).

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**Title**: High-Performance Modelling and Simulation for Big Data Application (cHiPSet)

**Speaker**: Horacio González-Vélez, cHiPSet Vice Chair

**Overview**: This presentation will demonstrate how one of the largest COST Actions in Horizon 2020 (encompassing partners in 38 countries) is creating a long-lasting, sustainable, reference network of research and innovation links amongst the HPC and the multiple Modelling and Simulation research communities addressing Big Data problems. This talk will demonstrate how this Action is systematically fostering interconnected research on Big Data through the organisation of meetings, workshops, visits, and summer schools with the participation of HPC and Modelling & Simulation researchers from Europe and overseas. The talk will conclude with overview of the four cHiPSet working groups (infrastructure, programming, life sciences, and physical/social sciences).

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- Overview of the BDVA and ETP4HPC cross-PPP collaboration and how to participate
- How to input into Big Data requirements in the design of future HPC systems and other HPC technology components
• Understand how the ‘High Performance Computing and Big Data Enabled Applications (IPCEI-HPC-BDA)’ plans to accelerate the deployment of high-performance computing by European industry and Big data enabled applications.

• Access cHiPSet to coordinate activities (e.g. ICT bid preparation for European funding) to advance the European software industry competitiveness.

Outcomes beyond summit:
• Enhance collaborations between the HPC and Big Data Communities in the development of research roadmaps and innovation endeavours of common interest to both communities.
## 5.7 IMAGINA Room

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<td><strong>Sessions</strong></td>
<td>How Big Data is transforming the Finance sector</td>
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<td>Big Data Challenges in Energy</td>
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<td>Shifting Retail Operations from Reactive to Proactive using Big Data analytics</td>
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<td>Big Data Standardisation</td>
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Title of the Parallel Session/Working Group:

How Big Data is transforming the Finance sector

Objectives and speakers:

The objective of the session is to present the challenges and opportunities of Big Data for transforming the financial sector. The session will be structured through a set of presentations:

- Big Data and the Financial Sector, Carlos A. Iglesias, UPM
- Big Data in Banco Santander, Jesús Ruiz, Banco Santander
- Securing outsourced financial data in untrusted domains, Elsa Prieto, Atos
- Finance in BDVA, Alfredo Favenza, ISMB

Expectations:

In this session, participants will be able to:

- Get an overview of how financial institutions are taking advantage of Big Data
- Understand how Finance is managed inside BDVA
- Networking for next EU calls

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Description of several use cases regarding the use of Big Data in Finance
- Organisation and networking for participating in BDVA Finance SG
- Participate in discussion about the problems and challenges of Big Data in Finance

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Participation in BDVA Finance SG
- Participation in EU proposals, in particular a proposal for a lighthouse in Finance
Name of Promoter / Coordinator | Nathalie Lambert
---|---
Organization | CEA LIST
Email address | Nathalie.lambert@cea.fr
Current BDVA Membership Status | Full member
Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3 | TF7. Application

Title of the Parallel Session/Working Group:

*Big Data Challenges for the Energy Domain*

Objectives and speakers:

- Objectives: share challenges and priorities for the energy domain, and possibilities of applications and pilot studies in the long-term. Discussion of possibility of Lighthouse Project on Energy
- Speakers: open to contributions from participants

Expectations:

In this session, participants will be able to:

- Share their vision of the main Big Data Challenges for the Energy domain
- Share their technology needs, offer and research priorities
- Explore the possibility of convergence towards one or more concrete projects

Outcomes at Summit:

The expected tangible outcomes of this session are:

- A list of Data priorities, needs and technologies for the Energy domain
- List of actions to pursue the discussions initiated in the session

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Convergence towards one or more projects to apply Big Data technologies to the energy domain
Title of the Parallel Session/Working Group:

Shifting Retail Operations from Reactive to Proactive using Big Data analytics

Objectives and speakers:

Objectives:

Big Data shows great potential to significantly increase the operating margins of retailers, causing an industry-wide operational shift of IT from a back-office function to the forefront, as an engine for business growth. The convergence of more data and more sources than ever, is no longer confined to the realm of technology. It also represents a cultural shift in the way retailers connect with their consumers. This bottom-line impact of Big Data is what makes it a business imperative and why retailers around the world are leveraging it to transform their processes, their organizations and, soon, the entire industry. Big Data volume for retail is immense: at a macro level, thousands of stores house hundreds of thousands of products, serving tens of millions of customers over billions of transactions, reaching 500 Petabytes at the US alone. At a micro level, each customer is a walking data generator: dozens of transactions are made over multiple online or offline communication channels, such as web, mobile, kiosk, phone and social, generating massive amounts of unstructured data. Our objective in this special session is to discuss how taming these Big Data can bring competitive advantage in terms of speed, efficiency and intelligence.

Structure:

• 4 talks (15-20 minutes each)
• Round table discussion including the audience

Speakers:

• Dr. Spiros Nikolopoulos (Senior Research Fellow, CERTH-ITI, Multimedia Knowledge and Social Media Analytics Laboratory): Dr. Spiros Nikolopoulos received his diploma degree in Computer Engineering and Informatics and the MSc degree in Computer Science & Technology from university of Patras, Greece in 2002 and 2004 respectively. He also holds a PhD degree on Semantic multimedia analysis using knowledge and context, Queen Mary University of London (2012). He is currently a post-doctoral research fellow in Information Technologies Institute (ITI) at the Centre for Research & Technology Hellas (CERTH). He has participated in a
number of EC-funded ICT projects (i.e. X-Media, GLOCAL, CHORUS+, Live+Gov, i-Treasures, Pericles and DigiArt) and his research interests include image analysis, indexing and retrieval, multimodal analysis, virtual and augmented reality, as well as EEG processing for Brain Computer Interfaces. He currently serves as the deputy coordinator of the H2020 project MAMEM that deals with multimedia authoring and management using your eyes and mind. His scientific work has been published in peer-reviewed journals, international conferences and book chapters.

**Prof. Leo Wanner (ICREA Research Professor at Universitat Pompeu Fabra, Barcelona):** Prof. Leo Wanner earned his Diploma degree in Computer Science from the University of Karlsruhe and his PhD in Linguistics from the University of The Saarland. Prior to joining ICREA and UPF, he held positions at the German National Centre for Computer Science, University of Waterloo, and the University of Stuttgart. As a visiting researcher, he was also affiliated with U of Montreal, U of Sydney, U of Southern California's Institute for Information Sciences, and the Columbia University, New York. Throughout his career, Dr Wanner has been involved in various large scale national, European, and transatlantic research projects. He has published eight books and over 150 refereed journal and conference articles, and serves as regular reviewer for a number of high profile conferences and journals. Dr. Wanner is working in the field of computational linguistics, teaching the computer how to supply people with information that might be useful to them in their language and how to serve as interpreter between people who do not speak a common language. His research foci include automatic multilingual text analysis and generation, automatic summarization of written material and paraphrasing. Furthermore, he is interested in lexicology and lexicography, and in particular, in the recognition, representation and use of lexical idiosyncrasies by both native speakers and learners of a language.

**Javier Lima (Business Development & Innovation at Gigigo, Spain):** Digital Strategist & Innovation Director at Gigigo. Business Degree and MBA by ICADE Madrid. +10 years of experience as Product Lead in several SaaS platforms and Data Visualization under FP7 & H2020 participating in projects Green-T, NEWCLOUD - MO-BIZZ, Urban Sensing and Malcom Monetize your Game. Currently leading SME Instrument Phase 2 Orcheextra as well as the global Coca-Cola account for Coca-Cola where this technology is being implemented in order to disrupt the way brands can engage with customers through digital.

**Javier Arribas (Business Development Manager at Gigigo, Spain):** Business Development Manager and Chief Marketing Officer at Gigigo. Business and Marketing degrees by Universidad Rey Juan Carlos de Madrid. Ten years of experience working as product marketing manager in IT companies as Microsoft. He has led several software platform launches in Spain; the last one was a worldwide SaaS platform for mobile publishers. Now I’m working with leading companies in their sector as Grupo VIPS, HP, Repsol or EURO 6000 defining their digital strategy from a mobile perspective developing innovative products and services for their customers.

**Expectations:**

In this session, participants will be able to:

- Acquire an understanding of the problems/challenges that are currently faced in the retail sector
- Get to know the main problems arising in the process of extracting value from the vast volume of data that are being collected and maintained in the retail industry
- Introduced into a number of novel applications that can revolutionize the existing retail operations
- Understand the regulatory and standardisation issues that are expected to arise during this shift on big-data analysis
● Discover how external sources of information like social media and open data can be vital in designing the future retail operations.

Outcomes at Summit:

The expected tangible outcomes of this session are:

● A summary of the talks and the discussion that will place afterwards on the value of using big data technologies in the retail sector.
● Bring together interested stakeholders from the retail sector and facilitate networking

Outcomes beyond summit:

The expected tangible outcomes following this session are:

● Working group with emphasis on big data and retail that could be embedded in the activities of the BDVA association
● A set of guidelines discussing the requirements of big data technologies from the retail sector that could be exploited in drafting the update of the Strategic Research Agenda.
### Name of Promoter / Coordinator
Abdellatif Benjelloun

### Organization
HUAWEI

### Email address
Abdellatif.Benjelloun@huawei.com

### Current BDVA Membership Status
Full member

### Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3
TF6.SG6

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**Title of the Parallel Session/Working Group:**

*Big Data Standardisation*

**Objectives and speakers:**

The goal of this session is to present and discuss topics related to interoperability and standardisation. Before the summit, a survey among BDVA members on priorities for interoperability and standardisation will have been launched. The session will show the intermediate outcomes of the survey and will gather further feedback from the session participants. The agenda is structured as follows:

**Current state of TF6.SG6 (30 minutes)**

- Background and state of the BDVA TF6.SG6 on standardisation
- Motivation and overview of the survey on priorities for interoperability and standardisation
- Presentation of survey results

**Lightning talks by participants (max. 30 minutes)**

- Participants who want to present a 5 minute lightning talk can contact <Abdellatif.Benjelloun@huawei.com> and <felix.sasaki@dfki.de>. The lightning talk should 1) highlight activities in industry which would benefit from increased interoperability, 2) include examples with an estimate of potential efficiency gains, and 3) provide suggestions what could be done at the European level to increase interoperability in the selected area.

**Discussions (approx. 30 min):**

- BDVA TF6.SG6 group status and plans
- Potential H2020 interoperability and standardisation proposal
- AOB

**Expectations:**

In this session, participants will be able to:
Share experiences from work in "Standardisation" (challenges, solutions, projects, products, business cases, etc.)

Shape future TF6 SG6 activities
  - Discuss the scope of "Interoperability and Standardisation", and the relationship to the other TF6 groups
  - Identify "Interoperability and Standardisation" challenges that should be addressed in the context of BDVA
  - Discuss potential joint Interoperability and Standardisation related proposal for H2020

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Provide feedback to the survey on interoperability and standardisation
- Learn about ongoing and emerging trends in the area of interoperability and standardisation and the current activities of TF6 SG6
- Identify the possibility of a H2020 proposal related to interoperability and standardisation (e.g. H2020 ICT 14)

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Involve relevant parties in future activities of TF6 SG6
- Structure the activities and priorities of TF6 SG6 based on the input from participants
- Influence the strategic planning in the EU with regards to interoperability and standardisation
### 5.8 DESCUBRE Room

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<td>Big Data Architectures/Infrastructures</td>
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<td>Language as a Data Type and Key Challenge for Big Data</td>
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<td></td>
<td>The Big Data PPP and its alignment with National Initiatives on Big Data: Opportunities</td>
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</tbody>
</table>
Title of the Parallel Session/Working Group:

Data Analytics and Big Data in the Telecommunication Industry

Objectives and speakers:

Given the high volumes of data available within the telecommunication industry and the ever increasing amount of sensor/IoT data, the telecommunication industry is in the unique position to possess data from manifold sources that can be leveraged for data analytics. Combining these additionally with data from various domains allows companies to benefit from Big Data to its full. Whereas some of the challenges are similar with the ones the community is facing in any other domain when we are talking about big data, there are some particularities, specific to the telecommunication area, e.g. acting in a strongly regulated environment. This session is meant to discuss research ideas and innovative business models in an interactive way, to highlight research challenges and market opportunities.

Speakers:

- 10:45 – 10:50  Welcome and introduction
  Robert Seidl, NOKIA Bell Labs (5min)

- 10:50 – 11:05  Managing & Measuring Corrupt Data & Anomalies for Predictive Modelling & Business operations in the telecommunication sector
  Emrah Anayurt, Organonanalytics (15 min)

- 11:05 - 11:20  Potential application areas and improvements of predictive modelling in telecommunication sector
  Emrah Anayurt, Organonanalytics (15 min)

- 11:20 – 11:35  Distributed Big Data for telco networks
  Thierry Nagellen, Orange (15 min)

- 11:35 – 11:50  Network data monetization
  Roberto Gonzalez / Saverio Niccolini, NEC (15 min)

11:50 – 12:05  New business for the telecommunication sector:
“Analytics as a Service” provider
Emrah Anayurt, Organonanalytics (15 min)

- 12:05 – 12:15 EU funded project SHIELD (project focus on cybersecurity): An overview and its specific focus for the telecommunication market
Bernat Gaston, i2cat (10 min)

Expectations:

In this session, participants will be able to:

- Become aware of Big Data challenges in the Telecommunication Industry
- Get an understanding of potential business models for Data Analytics and Big Data in the Telecommunication sector
- Get an understanding of the regulatory framework in the Telecommunication sector

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Potential research and innovation fields for Big Data
- Potential business cases for Big Data
- Set-up of a community of research and industrial practitioners in Big Data for Manufacturing

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Closer contact between telecommunication industry and academia communities
- Draft business models and data exploitation concepts
<table>
<thead>
<tr>
<th>Name of Promoter / Coordinator</th>
<th>Souleiman Hasan</th>
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<tbody>
<tr>
<td>Organization</td>
<td>Insight Centre for Data Analytics</td>
</tr>
<tr>
<td>Email address</td>
<td><a href="mailto:souleiman.hasan@insight-centre.org">souleiman.hasan@insight-centre.org</a></td>
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<tr>
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<td>TF6.SG2</td>
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Title of the Parallel Session/Working Group:

*Big Data Architectures and Infrastructures*

Objectives and speakers:

- The Status of TF6.SG2 Group and its Topics
  - Souleiman Hasan, Insight
- Data Analytics over Decentralized Architectures
  - Davide Frey, INRIA
- On Big Data Infrastructures
- Realtime Big Data Architectures

Expectations:

In this session, participants will be able to:

- Understand the role of the TF6.SG2 and its position within BDVA
- Get a breadth view of the topics of the Big Data architectures group
- Get in-depth view of selected example topics in the Big Data architectures and infrastructures

Outcomes at Summit:

The expected tangible outcomes of this session are:

- *The Big Data architectures technical priority is emphasized and participants can establish links between their work and interest and this technical priority*

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Participants can actively participate in defining the technical priority and its topics in future activities and artefacts such as white papers, SRIA, and the work programme
Objectives and speakers:

Data expressed in natural language in written or spoken form is incredibly valuable source of information and knowledge. Yet new approaches are needed to unleash the value of this unstructured data that can be expressed in many languages. Ability to process natural language is also essential in presenting the data, communicating with users and providing answers to user’s questions.

At this session we will continue an inspirational discussion started at the BDVA Small Summit in Hague. We will share visions, exchange ideas and agree on future steps. The discussion will raise awareness about multilingual data processing within the data community and show language technologies can unleash the power of unstructured data, as well as contribute to current EU strategies and agendas (such as BDVA SRIA and H2020 WP2018-2020) for innovation, growth and social cohesion.

Panelists:

- Andrejs Vasiljevs, Tilde (panel chair)
- Kimmo Rossi, EC
- Sonja Zillner, Siemens
- Georg Rehm, DFKI
- Paul Buitelaar, Insight
- Francisco Casacuberta, Universitat Politècnica de València
- Ondrej Bojar, Charles University in Prague

Expectations:

In this session, participants will be able to:
- Explore challenges and opportunities in processing multilingual data
- Promote cooperation of big data and language technology communities
- Facilitate new collaborations for the next H2020 calls
- Contribute to the discussion on the updated BDVA SRIA and H2020 WP2018-2020
Outcomes at Summit:
The expected tangible outcomes of this session are:
● Feedback for the next update of BDVA SRIA
● Feedback for the SRIA on Multilingual Digital Single Market
● Contribution to the preparation of H2020 WP2018-2020

Outcomes beyond summit:
The expected tangible outcomes following this session are:
● An interest group to further develop the topic within BDVA
Title of the Parallel Session/Working Group:

The Big Data PPP and its alignment with National Initiatives on Big Data: Opportunities.

Objectives and speakers:

One of the most important goals for the European Commission nowadays is the coordination between the EU and National policies as a way to maximize the potential impact and efficiency in the use of resources. Coordination with Member States and Associate countries appears indeed explicitly as part of the Digitizing European Industry policy. PPPs are one of the instruments to make it happen- This session intends to understand the current landscape of Big Data national initiatives, as well as the opportunities behind the collaboration with the Big Data PPP, especially through the Big Data Value ecosystem (BDVe) action that will start in January 2017.

16:15-16:20 Welcome and objectives of the session (Nuria de Lama; Atos, Deputy-Secretary General BDVA)

16:20-16:30 The political context: coordination of European, National and regional initiatives at the “Digitizing European Industry” policy (Nuria de Lama)

16:30-17:15 Examples of ongoing Big Data National initiatives
   Big Data initiative in Spain (Clara Pezuela; Planetic)
   A Swedish Big Data Value perspective (Björn Hovstadius; Business Development at SICS: Swedish Institute for Computer Science)
   The Emilia Romagna BigData Community: main features and potential (Roberta Turra; Head of Big Data Analytics team - Cineca)
   European Network of National Big Data Centers of Excellence (Stefanie Lindstaedt, Paul Czech; Know-Center)

17:15-17:25 Views of the Big Data PPP and Opportunities NOW: The Big Data Value ecosystem Action (BDVe)
   Big Data National, regional and local dimension (Nuria de Lama, Atos)
   Skills (Ed Curry, Insight)

17:25-17:45 Overall discussion (all):
   Identification of potential initiatives out of our radar
   Concrete actions to feed the implementation plan of BDVe and the PPP
   Coordination of Resources to maximize impact
   First countries willing to take part in the initiative in 2017
Expectations:

In this session, participants will be able to:

- Get insights on what’s going on at EU level (DEI strategy, PPP Big Data) and National level (national initiatives with a special focus on Big Data)
- Understand the opportunities behind the BDVe CSA (Big Data Value ecosystem), an action that will kick off in January 2017 and has resources to foster coordination with national and regional initiatives
- Be part of the definition of an Implementation Plan for the Coordination between EU and National efforts in the field of Big Data.

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Identification of a number of Big Data initiatives and plans at different levels (EU, national and regional)
- Draft ideas to foster coordination between the EU and MS as well as regional initiatives and investments in Big Data, including activities targeted at education and training, entrepreneurship and technical development, among others. The BDVe action will support the implementation of some of those ideas in alignment with the wider strategy of the Big Data PPP.

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- The results of this session will feed the implementation plan for the coordination between Big Data plans and investments at EC, national and regional levels. They will also influence the strategy of the Big Data PPP.
## 5.9 APRENDE Room

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<td>Policy and societal implications of big data</td>
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<td>Why should Industry believe in Big Data now?</td>
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</table>
Title of the Parallel Session/Working Group:

BYTE Big Data Community Workshop

Objectives and speakers:

This is the first meeting of the BYTE Big Data Community, a new community designed to ensure that industry and other big data practitioners are aware of and able to integrate societal concerns into existing and emerging big data practices.

The community is open to civil society organisations, academics and legal experts and provides them with a platform to feed their concerns into industry and other practitioners, in order to transition into a responsible data-driven economy in Europe.

In the past years, the BYTE project has conducted a series of case studies to understand the positive and negative impacts of the “big data revolution” on European society. It has defined a vision for big data in Europe in 2020, a policy and research roadmap to achieve it, and is now building the community to implement the roadmap.

Speakers: Aggelos Liapis (Athens Univ., BYTE Advisory Board), Wenbo Chu (GEO Secretariat), Kush Wadhwa & Rachel Finn (Trilateral Research, BYTE Consortium), Lorenzo Bigagli (CNR, BYTE Consortium), and others.

Expectations:

In this session, participants will be able to:

- Discuss the societal implications of Big Data with the main European industry and policy stakeholders. This year our focus will be on the sectors of smart cities, environment and health;
- Cooperate creatively to strengthen the community, so as to increase its impact with time.

Outcomes at Summit:

The expected tangible outcomes of this session are:
Validated findings from the BYTE case studies on smart cities, environment and health: the risks and opportunities of big data from a legal perspective, and the potential social benefits it can bring. The session outcomes will be reported to the following session on Social & Legal aspects.

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- The BYTE Big Data Community will continue its activities beyond the Summit, and continue to present a deeper discussion on what and where are the gaps and challenges each sector faces in the “Big Data revolution”, and recommend good practices, specific research and policy needs to fill these gaps.
Title of the Parallel Session/Working Group:

Policy and societal implications of big data

Objectives and speakers:

The objective of this session is to address a number of important topics in the field of policy and societal implications in Big Data. Additionally, the session is meant to contribute to an outline for future work of the Policy&Societal taskforce (TF5) within BDVA.

The session will contain
• A summary of the BYTE workshop on policy implications of big Data (Lorenzo Bigagli)
• A very overview of the current state of the discussions on the topic of Data Ownership (Freek Bomhof, Natalie Bertels, Corinna Schulze); this will include the involvement of the audience (voting, discussing)
• A brief investigation into the most important future topics that TF5 should address

Expectations:

In this session, participants will be able to:

• Learn on the findings of a European research project that addressed policy implications of Big Data
• Get insight in the state of the discussion on Data Ownership and share his/her views on this topic with other participants and with the BDVA
• Voice their insights on future topics that are of key importance to developing policy&societal implications of Big Data
Outcomes at Summit:

The expected tangible outcomes of this session are:

- Identification of collaboration opportunities with the BYTE Project
- Input for a BDVA position on the topic of Data Ownership
- A draft work program for TF5

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- *Practical follow-ups on the session outcomes (above)*
## 5.10 DEBATE Room

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<th>Room</th>
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<td>Making the best of big data – How do data economy actors adapt their strategies to changing framework conditions in Europe</td>
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<td>Big Data Europe’s Integrator Platform: A one-stop solution for Big and Smart Data Management</td>
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<td></td>
<td>Big Data Europe and the 7 Societal Pilots</td>
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</tbody>
</table>
Name of Promoter / Coordinator: Clara Pezuela
Organization: Atos
Email address: Clara.pezuela@atos.net
Current BDVA Membership Status: Full member
Name of TF/SG which is most related to this in BDVA structure – eg TF1.SG3: TF6.SG2 and TF6.SG3

Title of the Parallel Session/Working Group:
EIT Digital contribution to Big Data domain

Objectives and speakers:
Session is focused on explaining the EIT Digital view and work related to Big Data field. A short introduction about what EIT Digital is and the innovation lines that are included in its roadmap will be presented, especially the ones related to BVDA topics.

Then, two examples of running projects at EIT Digital that are dealing with Big Data matters will be demonstrated. They are about a scalable and fault-tolerant infrastructure for data analytics as a service solution (MCloudDaas project) and data analytics of social networks information (Sense Making project).

The session will be conducted by Clara Pezuela (Atos), activity leader of MCloudDaas EIT Digital project and the other invited speakers are Fabio Pianesi, Research Director at EIT Digital and Lars Hamberg, CEO at Gavagai, a SME specialized in sentimental analysis of social networks and customer of Sense Making project.

Expectations:
In this session, participants will be able to:

- Know more about EIT Digital and its innovation map related to Big Data
- Attend two presentations and demos of two Big Data related projects running under EIT Digital program
- Interact with speakers for more details or information

Outcomes at Summit:
The expected tangible outcomes of this session are:

- Presentations and additional material provided by speakers
- Contact details of speakers
- Leaflets about EIT Digital and presented projects

Outcomes beyond summit:
The expected tangible outcomes following this session are:

- Contact for future projects
- Innovative solutions for future customers
Title of the Parallel Session/Working Group:

*Making the best of big data – How do data economy actors adapt their strategies to changing framework conditions in Europe*

Objectives and speakers:

*European policy makers took several measures in the last couple of years with the aim to facilitate the establishment of a data-driven economy. While some of these measures have led to improvements for most data economy actors, others have created challenges for at least some actors who cannot easily adapt their strategies accordingly. The objective of this workshop is to investigate how data economy actors in Europe adapt their strategies to changing framework conditions, what challenges they face when doing so and how these challenges can be overcome. The workshop will be kicked-off by a short introductory presentation on the measures that European policy makers took recently with the aim to establish a data-driven economy (5-10’). The presentation will be followed by two case presentations (representing different company sizes, preferably a start-up and a large company view), which are expected to show differences in terms of strategies and reactions to measures (20’). The case presentations will be followed by a moderated discussion, involving not only the speakers but also the other participants of the workshop, on individual experiences, further cases, common challenges faced and potential solutions to them (55’). Suitable speakers are currently being identified and invited.*

Expectations:

In this session, participants will:

- get a quick overview of what political measures have been taken recently with the aim to facilitate the establishment of a data-driven economy in Europe
- discuss rationales behind data sharing strategies and reactions to political measures
- exchange views on challenges faced in connection with changing framework conditions and potential solutions to overcome them
- share best practises and learn from others

Outcomes at Summit:
The expected tangible outcomes of this session are:

- **two case studies**
- **a list of challenges that European data economy actors face when trying to adapt their strategies to changing framework conditions**
- **potential solutions for the identified challenges**

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

The workshop is expected to contribute to the development of the EuDEco model of the European data economy as well as to recommendations that EuDEco will issue to policy makers as well as to data economy actors.
Title of the Parallel Session/Working Group:

Big Data Europe’s Integrator Platform: A one-stop solution for Big and Smart Data Management

Objectives and speakers:

Sören Auer, Simon Scerri

- Introduce the generic Big Data Integrator Platform and its plug-and-play architecture as available per open-source prototype
- Explain the benefits of a Dockerized approach, and demonstrate how it facilitates the stacking of existing BD components for various applications

Expectations:

In this session, participants will be able to:

- Learn about the BDE technical (open-source) contributions (Big Data architectures, related to TF6 sub-group), and how to freely use them
- Learn about the Big Data Integrator Platform, its support and semantic layer, and get a feel of how it can be flexibly customised to support various data management use-cases

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Share open-source technical results of an H2020 project on the theme of Smart and Big Data management with the community
- Collect feedback from the community about the provided Big Data Platform prototype demonstrated, the underlying architecture, and general approach (dockerised BD components)

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Raise awareness about availability of a free-to-use, open-source Big Data platform and its various existing components
- Identify how project results can also influence outputs of the BDVA’s technical task force and the relevant subgroups (Big Data Architectures, Management)
Title of the Parallel Session/Working Group:

*Big Data Europe and the 7 Societal Pilots*

Objectives and speakers:

*Sören Auer, Simon Scerri*

- Demonstrate the societal value of the generic Big Data Integrator Platform as available per open-source prototype
- Communicate progress in seven pilot use-cases tied to the seven societal challenges
- Identify common objectives with the BDVA Societal Task Force, and how the two efforts can be linked

Expectations:

In this session, participants will be able to:

- See how the BDE technical (open-source) contributions (Big Data platform and supported components) can be flexibly deployed for a variety of use-cases
- Observe how the Big Data Platform is being implemented for 7 specific instances across multiple domains, aligned with the societal challenges

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Share open-source technical results of an H2020 project on the theme of Big Data and Societal Challenges with the community
- Collect feedback from the community about the pilots demonstrated, and the perceived value for different kinds of participants

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Raise awareness about availability of a free-to-use, open-source Big Data platform and its various existing components
- Extend communities (stakeholders) following and using results of the Big Data Europe project
- Connect the Coordination Support Action (7 Societal-specific needs) with the BDVA’s Societal efforts.
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<th>Sessions</th>
<th>Why should Industry believe in Big Data now?</th>
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<td>Community &amp; Stakeholder platform</td>
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<td>Data Science Skills in Europe</td>
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<tr>
<td>proDataMarket Project</td>
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Title of the Parallel Session/Working Group:

Community & Stakeholder platform

Objectives and speakers:

This activity is focused on the definition and implementation of the community platform in support to the work to be developed as part of the BDVe PPP.

The main objective of the Community platform will allow to be used as the reference meeting point for European actors focused in specific sectors/areas (sectorial approach) and/or horizontal areas (cross-sector approach) for the whole European community (industries, SMEs, R&D institutions and Academia). A community consist on private spaces for both internal and external partners.

The Community platform will permit the creation and management of these communities, according to the type of the organisations (SMEs, large industries, academia members, etc.) even for third parties as well as other non-European actors (for European technology export and selling) for example:

- **By Organization’s type**
  - SMEs will be our main focus for getting their involvement
- **By Sectors (incl. Cross sectors)**
  - Health, Smart Cities, Manufacturing, Finance & Insurance, ...
- **By Country/Region (e.g. Portugal, LATAM countries, ...)**
- **Third parties: link with other European initiatives**
  - JTIs & PPPs (ECSEL, SPARC, HPC, FoF, 5G, Photonics, ...)
  - KICs (EIT ICT Labs) → link with Education
  - ...

The Stakeholder platform will provide specific tools for manage these communities like, projects/initiatives repositories, open data repositories (sectorial information depending on the community focus) even big data frameworks, services, ontologies and tools for processing and exploit the information. The communities will be able to share this information only for a specific community or for the whole European community (open innovation)

Expectations:
In this session, participants will be able to:

- *Bring requirements to the definition and design of a Community Platform on Big Data.*

**Outcomes at Summit:**

The expected tangible outcomes of this session are:

- *Collect requirements for a Community Platform on Big Data.*

**Outcomes beyond summit:**

The expected tangible outcomes following this session are:

- *Provide inputs to the BDVe Community Platform.*
Title of the Parallel Session/Working Group:

Data Science Skills in Europe: moving fast to feel the gap between offer and demand

Objectives and speakers:

The main objective of the session will be to analyze the paramount role that skill in Data Science has in Europe so companies can develop innovative data science product. As a consequence this session will have a part in which advances so far made by European initiatives will be given. Also we will dedicate some part to analyze programs that are already running and in particular EIT-Digital will be present. Another slot will be dedicated to analyze the alignment of academy with companies and in particular. To end with the session will summarize with future steps.

Speakers:

- Fabio Pianessi EIT-DIGITAL
- Robert Sedl- Nokia
- Steve Brewer-EDISON Project

Expectations:

In this session, participants will be able to:

- Discover the european initiatives on Data Science Skills in Europe
- Discuss on the ways to align companies demand with Academy offer
- Know the european initiatives on skills for the next 5 years
- contribute with ideas and discussion

Outcomes at Summit:

The expected tangible outcomes of this session are:

- Contacting the persons in charge of the data science skill initiative in europe
- find the way to collaborate in decreasing the gap between offer and demands in data science skills in Europe

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Contacts with leaders in Europe on Data Science skills
Title of the Session:

proDataMarket

Objectives:

The goal of this session is to present ongoing activities and results from the proDataMarket project (Enabling the property data marketplace for novel data-driven business products – [http://prodatamarket.eu](http://prodatamarket.eu)). The agenda will be centred on presentations and demos related to innovative data-driven business products and services, and technologies developed in the project, as follows:

- Using the proDataMarket marketplace: Transforming, enriching, publishing, visualizing and consuming property-related data
- Innovative business cases
  - The Next Disruptive Innovation Product on the Italian Real Estate Market
  - Innovative Common Agriculture Policy (CAP) funds assignment service
  - State of the estate - the dynamic report of state-owned properties and their risk and vulnerability in Norway
  - Innovation with Augmented Reality: Visualization of subterranean infrastructure and buildings
- proDataMarket marketplace: Technical innovations (DataGraft, DBaaS, Amerigo, datamarket)
- Open discussions

Expectations:

In this session, participants will be able to:

- Learn about innovative data-drive business cases, products and services developed in proDataMarket
- Experiment with emerging tools for data preparation, cleaning, knowledge graph generation, visualization, and publication in a data marketplace
Outcomes at Summit:

The expected tangible outcomes of this session are:

- Inspire development of novel data-driven products and services based on experiences and results from proDataMarket
- Use and provide feedback on the use of proDataMarket technologies

Outcomes beyond summit:

The expected tangible outcomes following this session are:

- Identify potential collaborations with proDataMarket
- Develop innovative data-driven products and services using proDataMarket technologies
6 Sponsorship
6.1 Titanium Sponsors

6.1.1 HUAWEI

Who is Huawei?

Huawei is a leading global information and communications technology (ICT) solutions provider.

Driven by responsible operations, ongoing innovation, and open collaboration, we have established a competitive ICT portfolio of end-to-end solutions in telecom and enterprise networks, devices, and cloud computing. Our ICT solutions, products, and services are used in more than 170 countries and regions, serving over one-third of the world's population. With more than 170,000 employees, Huawei is committed to enabling the future information society, and building a Better Connected World.

Starting its business in Europe in 2000, Huawei has continuously invested in local markets. Since customer value is driven by a strong local presence, localization is seen a key strategy in maintaining Huawei's sustainable business development. Huawei has been growing progressively and quickly in Europe in the last years, employing more than 5800 people in 37 subsidiaries today.

What do we do?

We create value for our customers. Together with telecom carriers, Huawei has built over 1,500 networks, helping over one-third of the world's population connect to the Internet. Together with our enterprise customers, we employ agile enterprise networks, including open cloud networks, to drive efficient operations and agile innovation across domains like Safe City, finance, transportation, and energy. With our smart devices and smartphones, we are improving people's digital experience in work, life, and entertainment.

Innovation as the cornerstone of Huawei's business and sustainability

Huawei has consistently invested over 10% of its revenue in R&D&I every year. In 2015, approximately 79,000 employees were engaged in R&D, comprising 45% of our total workforce. Huawei's R&D expenditures totaled over € 8.000 M in R&D&I, accounting for 15.1% of the company's total revenue.

Some of our main references on R&D ecosystems are:

Accelerating 5G development through extensive innovation

5G development has entered a critical phase. Accelerating 5G development requires deeper technological innovation and cross-industry collaboration. We have invested heavily in innovation and emerged as a major contributor to and leader of global 5G development. While making significant breakthroughs in key 5G technologies, we have been an active player in major global 5G organizations such as the EU's 5G Infrastructure Public Private Partnership (5G-PPP).

We have also launched joint innovation projects with our partners. One example is our partnership with NTT Docomo, Japan's largest mobile communications carrier, with
whom we launched the world’s first multi-user 5G testing site in Chengdu, China. The real-world testing environment provided at the site enables us to systematically verify 5G air interface technology and network architecture.

Building a cloud ecosystem

We have launched our cloud ecosystem strategy, under which we focus on IaaS, enable PaaS, aggregate SaaS, and develop a leading cloud operating system, Big Data platform, and PaaS platform based on software platforms and enterprise cloud services to create an open cloud ecosystem. At the end of 2015, the number of Huawei's enterprise cloud partners exceeded 500. Working together, we have provided cloud services to over 2,500 customers in the government & public utility, telecom, energy, and finance sectors across 108 countries and regions, deploying more than 1.4 million virtual machines. We have also built 660 data centers worldwide, including 255 cloud data centers.

Accelerating digital transformation

The extent to which a company, organization, or a country embraces digital technology will determine its future competitiveness. This is common knowledge – if not common sense. Many countries are thus using the Internet, cloud computing, IoT, Big Data, and other technologies to make their industries, governments, and enterprises smarter, thereby future-proofing the competitiveness of physical industry and real economy. Digital infrastructure, as the foundation of all these applications, is critical to their success. In an effort to expand digital infrastructure, Huawei looks to partner up with carriers. By fully leveraging each other’s strengths in technology and services, we can set a new benchmark for public cloud services used in verticals and large enterprises, and help carriers transform their business more efficiently. In addition, Huawei collaborates with customers from a number of other industries, such as public security, finance, transport, energy, and manufacturing, providing the technological foundation for their smart city, smart finance, smart transport, smart grid, and smart manufacturing initiatives. By doing so, we enable their digital transformation and help ensure that they remain competitive in future markets.

Our Value Propositions

The convergence of ICT technologies continues to accelerate. New technologies, particularly cloud computing and Big Data, are becoming key enablers for ICT innovation and development. These new innovations are not only reshaping the CT industry, but also creating enormous business opportunities through the convergence of IT and CT. In response to these revolutionary changes, Huawei continues innovating based on customer needs and leading technology. Through open partnerships, Huawei focuses on providing future-oriented information pipes to build a Better Connected World and continuously create value for customers and society. Huawei aims to become a strategic partner that assists carriers in their future transformations, a leader in providing enterprise ICT infrastructure, and a top smart device brand preferred and trusted by consumers.

The European Research Institute (ERI)
The Huawei ERI is the European research organization of Huawei Technologies. It comprises currently 1600 researchers, based in 18 different locations within 8 countries of the European Union. ERI supports with European state of the art research the innovations of the global products of Huawei. In order to do so it cooperates with more than 80 partners in Europe, mainly from universities and research institutes as well as European industry. The key research areas of ERI are in the domains of wireless communication networks, cloud and big data HW and SW, optical systems, Internet of Things and terminals such as smart phones or wearables. The goal of ERI is to contribute to the European ecosystem and to create win-win-partnerships in the fields of telecommunication and as enabler in the strong European industry sectors of autonomous vehicles, Industrie4.0, smart cities, smart grids and e- and m-health.
Innovations are the foundation of our company and ensure its long-term success.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world’s largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, which ended on September 30, 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion. At the end of September 2016, the company had around 351,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

For nearly 170 years, ground-breaking technologies and business models built upon these technologies have been the cornerstone of our success – innovations that, by their very nature, do not simply offer new ideas but actually set new market standards for products, solutions, and services. Innovations are what allowed our company to expand from a start-up in a Berlin courtyard to a leading-edge global enterprise, and innovations are the ingredients of a successful future – for our company, for our customers, and for society.

Shaping the future – with passion for research, technology and innovation – this is the mission of Siemens Corporate Technology (CT). With major facilities in Germany, the United States, China, Russia, India, and Hungary, CT is a global network. More than 7,800 employees contribute not only a deep understanding of fundamental technologies but also methods and trend analyses as well as extensive knowledge of software and processes to CT’s work. While Siemens’ business units focus their R&D efforts primarily on the next generation of their products and solutions, CT researchers work with the units to develop technologies and innovation strategies primarily for the generation after that one. In addition, CT secures Siemens’ future market position through initiatives developed jointly with the businesses. To achieve this, CT is also involved in many government-funded research programs.

Together with its global network of experts, CT is a strategic partner to Siemens’ operative units. It provides important services along the entire value chain – from research and development to production and quality assurance, as well as optimized business processes. The support provided to the businesses in their research and development activities is ideally balanced with CT’s own future-oriented research.

CT is networked with leading universities and non-university research institutes throughout the world – an essential part of Siemens’ open innovation concept, which
strengthens the company’s power of innovation through important contributions by internal and external experts. Open innovation replaces silo mentality and opens up the potential of a networked, open company – also through close contact with startups. CT furthermore acts as a broker by commercializing technologies in markets in which Siemens itself is not active. CT forms startups in business fields that are potentially attractive to Siemens.

CT provides comprehensive research, development, and consulting services for Siemens businesses. Approximately 1,600 researchers and 5,300 software developers work for CT in locations in Asia, Europe, and the United States. They support Siemens’ businesses – from the first idea to the deliverable product. CT also strategically manages Siemens’ intellectual property. Around 400 experts assist the company with registering, establishing, and marketing its industrial property and trademark rights.

Corporate Technology (CT), as the central research and development arm of Siemens, has a critical role to play here. Under the leadership of the Chief Technology Officer and in partnership with the operating units, CT develops the technology and innovation strategy of Siemens, creates and industrializes basic technologies, promotes business excellence through consulting and engineering services, and protects the company’s intellectual property.

Scientists and engineers of all stripes, mathematicians, and software developers at CT work hand in hand with the business units to identify the technologies of tomorrow and leverage them in support of our businesses. Our aim is to ensure that our developments prevail in the marketplace and become true innovations.

Corporate Technology is both a creative driver of disruptive innovations and a partner to the Siemens businesses with high-quality research, development, and consulting services. In many research projects, we work closely with scholars from leading universities and research institutions. These partnerships, along with our close collaboration with start-ups, are an important element of our open innovation concept developed to make the company even more innovative.
6.1.3 EGI

EGI: advanced computing for research

EGI is an e-Infrastructure build as a federation of data centres and set up to deliver advanced computing services to scientists, multinational projects and research infrastructures. The federation is coordinated by the EGI Foundation and governed by the EGI Council.

As of November 2016, EGI has over 800,000 logical CPUs available as compute resources and over 500 Petabytes for archive and online storage. EGI currently serves about 40,000 users distributed in around 200 Virtual Organisations (communities of shared interest).

SERVICES

The EGI Services currently in production are:

- **Compute:** Cloud Compute, Cloud Container Compute, High-Throughput Compute
- **Data and Storage:** Archive Storage, Online Storage, Data Transfer
- **Training:** FitSM Training and Training Infrastructure

The scientists relying on EGI services can be part of large international flagship organisations, of a research infrastructure, a project, a university lab, or they can be just individual users.

USE CASES

A few examples of what they are accomplishing with EGI services include:

**High Energy Physics at CERN**

The Worldwide LHC Computing Grid (WLCG) is a global collaboration of more than 170 data centres set up to provide the computing resources needed to store, distribute and analyse the data generated by the Large Hadron Collider (LHC) at CERN. During 2016, WLCG transferred on average 80 Petabytes of data per month, with peaks at 96 Petabytes during summer. This corresponds to more than 1 billion files per month transferred to thousands of particle physicists working across the world.

The WLCG rely on Data Transfer and Online Storage services to manage their data and make discoveries such as the Higgs Boson possible.

**Cherenkov Telescope Array**

The CTA is an initiative to build the world’s largest and most sensitive very high-energy gamma ray observatory to detect high-energy radiation with unprecedented accuracy. CTA will search for dark matter particles, will look into deviations from Einstein’s theory of relativity and conduct a census of particle in the Universe.
CTA relies on EGI's High-Throughput Compute and Storage services to run massive Monte Carlo simulations in analysis pipelines. Over the past three years, CTA has consumed the equivalent of 360 million CPU hours and executed around 11 million computing jobs.

**Bioinformatics at Würzburg University**

A group of researchers from the University of Würzburg in Germany, used Cloud Compute to run READemption, a pipeline for the computational analysis of RNA sequencing data. Cloud Compute helped them to handle computational demand peaks when new data sets arrived and that sped up the whole process significantly.

Their results were published in Nature (doi:10.1038/nature16547) and show that a small piece of RNA has a say on both the infection process and the immune response.

EGI services can also support research indirectly, for example as the backbone of thematic platforms. A few examples:

The **National Bioinformatics Infrastructure of Sweden** uses Cloud Compute to provide bioinformatics tools to their researchers, including high-profile tools to predict 3D protein structures, for example. So far, more than 6,700 unique users in 73 countries have made the most of these resources.

The **EXTraS project** is harvesting 13 years of data collected on-board the ESA’s X-ray space observatory XMM-Newton. The project is using Cloud Compute to implement four lines of analysis with ad-hoc software pipelines.

The **Virtual Imaging Platform (VIP)** is a web portal for medical simulation and image data analysis. It can be used by academic researchers worldwide, thanks to the computing resources made available through the biomed Virtual Organisation. VIP relies on High-Throughput Compute and Online Storage to support hundreds of scientists.

**OPEN FOR BUSINESS**

EGI is committed to sharing the benefits of e-Infrastructure technology and services with industry, especially SMEs. With EGI, businesses can:

**Access the EGI e-infrastructure and platforms** and obtain computing capacity to test workflows, models, and applications that will be part of a future advanced ICT product or service with dedicated support and consultancy.

**Reuse open research data sets, tools and applications for product or service development.** And make the most of the increasing amount of research data sets connected to EGI resources to assist in building your own added-value services.

**Benefit from EGI's events, publications and international network** to get recognition within the EGI ecosystem.
Team up with experts on distributed computing systems and all scientific domains to deploy technological solutions using distributed infrastructure or co-develop new products and services.
6.1.4 CEA List

**CEA List institute, a digital systems’ expert**

Based in Saclay (Paris region, France), CEA List Institute is one of CEA Tech three technological research institutes constituting CEA technological Division.

Dedicated to smart digital systems, our mission is to achieve technological development of excellence for our industrial partners and create value.

**200 industrial collaborations per year**

The List’s 800 people staff conduct R&D with French and foreign industrial companies on applied research projects in four main topics:

- Advanced Manufacturing
- Embedded systems
- Data intelligence
- Health

As « Carnot Institute », List invests every year 25% of its budget into scientific resourcing actions in order to identify better tomorrow’s technological breakthroughs.

**At a world class state-of-the-art**

Our activity is based on three main pillars

**Scientific excellence**

List’s research engineers dedicate a 100% of their time to R&D activities and publish their results into international leading conferences and scientific journals. Keeping a strong link with academic research, they base their research on world-wide state of the art.

**The culture of Industry**

Our research teams are enlightened and motivated by a results-driven culture of projects, fixing themselves clear objectives to reach within committed deadlines and budgets. Research results confidentiality and intellectual property (patents) are defined by the parties in the collaboration agreement.

**Opening to the world**

List Institute is fully integrated into a local and national particularly dynamic ecosystem through strategic academic, institutional and industrial partnerships. In order to maintain the best level internationally in its fields of activity List institute is also involved in more than 200 European collaborative projects, collaborates with leading foreign academic laboratories and conducts research activities at an international level, especially in the USA.
Data intelligence

List Institute has a strong research record in almost the complete chain of Data Intelligence. Research in AI has a long history, spanning from machine learning, natural language processing and expert systems to robotics and vision. List Institute is a world leader in Image processing, testified by its success in the Media Eval campaign.

Research in Data Intelligence covers the main thematics:

- Raw data processing
- Scene analysis
- Distributive self-adaptive systems
- Data modelling and visualization
- Close-to-vision sensors architecture
- Bio-inspired architectures
- Critical real-time design

About CEA and CEA Tech

A leader in research, development and innovation, the CEA, French Alternative Energies and Atomic Energy Commission, is active in four main areas: defense and global security, nuclear energy (fission and fusion), technological research for industry and fundamental research (matter sciences and life sciences). Based on a capacity of recognized expertise, the CEA takes part in the establishment of collaborations with numerous academic and industrial partners.

CEA Tech is the CEA’s technology research unit. CEA Tech’s three institutes—Leti, Liten, and List—develop a broad portfolio of technologies for ICTs, energy, and healthcare. CEA Tech leverages a unique innovation-driven culture and unrivalled expertise to develop and disseminate new technologies for industry, effectively bridging the gap between the worlds of research and business. CEA Tech also provides businesses with access to Key Enabling Technologies developed by other CEA operating divisions.

Contact

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BYTE Project

BYTE aims to assist European science and industry to gain a greater share of the big data market by 2020. In order to do so, BYTE identifies measures that will help big data users to capture and amplify the positive externalities associated with big data (e.g., efficiency, innovation, data sharing, etc.) in a manner that enables them to diminish the associated negative externalities (e.g., privacy, data protection, discrimination, etc.). Examples of such externalities include:

**Economic**
- Boost to the economy
- Innovation
- Increase efficiency
- Smaller actors left behind
- Shrink economies

**Legal**
- Privacy
- Data protection
- Data ownership
- Copyright
- Risks associated with inclusion & exclusion

**Social & Ethical**
- Transparency
- Discrimination
- Methodological difficulties
- Spurious relationships
- Consumer manipulation

**Political**
- Reliance on services abroad
- Services have become utilities
- Legal issues become trade issues

BYTE has conducted primary and secondary research on a series of seven big data case studies in the following sectors: environmental data, commercial data, utilities/smart cities, cultural data, energy, health and transport. By using these case studies, BYTE has examined how big data is actually being used for a range of purposes, what externalities are in evidence and what strategies are being used to capture or diminish these externalities.

BYTE has used these case studies and its advisory board to create a vision and roadmap for big data in Europe. The roadmap is broken down into the necessary policy and research steps to achieve a greater share of the big data market.

BYTE is also building a big data community to implement the roadmap and build on the gains achieved in the project. The final result of BYTE will be a healthier, more effective big data economy in Europe that addresses the needs and concerns of science, industry, policy-makers and citizens as well as a steering group to build on those gains and drive the big data economy forward.
BYTE is funded by the European Union under the 7th Framework Program. Grant agreement no: 619551. Funded by DG-CNCT: €2.25 million
March 2014 – February 2017

The BYTE team

Trilateral Research (UK)
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National Research Council of Italy – Institute of Atmospheric Pollution Research (Italy)
University of Oslo (Norway)
Digital Enterprise Research Institute, National University of Ireland, Galway (Ireland)
National Information Infrastructure Development Institute (Hungary)
STI Innsbruck, University of Innsbruck (Austria)
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Imec is the world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of imec's widely acclaimed leadership in microchip technology and profound software and ICT expertise is what makes imec unique. By leveraging our world-class infrastructure and local and global ecosystem of partners across a multitude of industries, we create groundbreaking innovation in application domains such as healthcare, smart cities and mobility, logistics and manufacturing, and energy.

Last September 2016 the nano-electronics research centre, imec, and the digital research and incubation centre, iMinds, merged into a unique high-tech R&D hub under the brand name imec.

As a world-leading R&D hub, imec aspires the impossible and aim for radical innovation. Imec maximizes societal impact by creating smart sustainable solutions that enhance life.

- The combination of the most advanced microchip technologies and state-of-the-art software expertise is what makes us unique. The evolution in microchip technology towards more powerful and smaller chips allows us to make every object intelligent and to bring tons of data at our fingertips. By combining and translating the collected data from billions of connected sensors into meaningful information, we help our partners create truly smart applications that enhance our life – all while putting digital privacy and security center stage.
- Worldwide – and especially in Flanders, Belgium – we employ close to 3,500 highly skilled researchers from over 70 nationalities who deliver industry relevant and life enhancing solutions. We thereby make use of world-class infrastructure, including 12,000 square meters of cleanroom capacity containing the most advanced collection of microchip processing tools in the world, and state-of-the-art (bio, wireless, imaging, …) labs.
- Yet, we cannot innovate just by ourselves. Hence, collaborations are vital to what we do. That is why we work together with key industrial partners and academia across a variety of industries such as healthcare, smart cities and mobility, logistics and manufacturing, and energy. We stimulate entrepreneurship and kick-start technology start-ups.
- Through imec's technology leadership, our ecosystem of partners, the excellence of our researchers and our high-tech infrastructure, we make a difference in shaping the future – notably when it comes down to:

**Driving microchip miniaturization**
- Imec has been driving the advances in microchip technology for over 30 years.
- Together with our global partners, we perform groundbreaking research on materials, devices and chip processing to make chips smaller, faster, cheaper, and with increased functionality.
- Every computer/smARTphone includes microchip technology invented by imec.
- We collaborate with all the leading microchip companies in the world (e.g. Intel, Samsung, TSMC, …) and we bring together the entire nanoelectronics ecosystem

**Enabling the intuitive Internet of Things**
- Thanks to microchip technology, every object – machines, buildings, vehicles, personal appliances – can be connected to the Internet to provide us with a continuous flow of useful information. It is expected that by 2020, this Internet of Things will connect billions of devices.
Imec develops the building blocks and digital technology for an “intuitive” IoT – an Internet of Things that discretely runs in the background, yet is instrumental to increasing our wellbeing and comfort.

Concretely, imec’s intuitive IoT consists of ‘thinking objects’ – networked sensors that constantly monitor the environment, provide status reports, receive instructions, and take short-term and long-term actions based on intelligent processing of the gathered data. This intuitive IoT will interact with us and learn from our habits, preferences and health, ... It will make better-informed decisions and take the right actions while taking our privacy and security concerns into account. And it will help us create a more sustainable and safer world at large.

These are some examples of application domains where imec’s research makes the difference:

**Smart health - Revolutionizing healthcare**
We bring diagnostics and healthcare within the reach of everybody. By combining knowledge of the patient’s DNA and comprehensive disease and therapy data, precision medicine becomes within our reach, delivering the most effective treatments at reduced cost with the least amount of side effects.

**Smart mobility - Enabling smart mobility**
We envision comfortable and safe transportation for everybody. To realize this vision of smart mobility, imec develops key technologies for connected, driverless cars.

**Smart cities - Increasing quality of life in smart cities**
Imec’s City of Things project aims to bring the intuitive Internet of Things to the city, improving the quality of living for its citizens. Concretely, we are transforming the city of Antwerp (Belgium) into one of Europe’s largest smart city laboratories where we put key technologies for smart cities to the test.

**Smart industries - Smart logistics and manufacturing**
Tracking and tracing of food (quality and freshness) from production until delivery in the shop, as well as the storage and stock management of other consumer goods – and even medical supplies to the hospital – can make logistics more efficient and cost effective. And also in the manufacturing domain, digital technologies have tremendous potential, a notable example being imec’s sensor research for smart robotics and the way in which robots can work together more closely with their human co-workers in production environments.

**Smart energy**
Distributed energy generation from renewables such as sun and wind will become one of the greatest enablers of a sustainable future. Imec performs research into sustainable energy with main focus on solar cells and hardware and digital technologies for a smart energy system.

As a trusted partner for companies, start-ups and universities imec brings together close to 3,500 brilliant minds from over 70 nationalities. Imec is headquartered in Leuven, Belgium and also has distributed R&D groups at a number of Flemish universities, in the Netherlands, Taiwan, USA, China, and offices in India and Japan. In 2015, imec's revenue (P&L) totaled 415 million euro and of iMinds which is integrated
in imec as of September 21, 2016 52 million euro. Further information on imec can be found at www.imec.be.

Imec is a registered trademark for the activities of IMEC International (a legal entity set up under Belgian law as a "stichting van openbaar nut"), imec Belgium (IMEC vzw supported by the Flemish Government), imec the Netherlands (Stichting IMEC Nederland, part of Holst Centre which is supported by the Dutch Government), imec Taiwan (IMEC Taiwan Co.) and imec China (IMEC Microelectronics (Shanghai) Co. Ltd.) and imec India (Imec India Private Limited), imec Florida (IMEC USA nanoelectronics design center).
6.2 Platinum Sponsors

6.2.1 Thales

Thales is a global technology leader in the Aerospace, Transportation, Defence and Security markets. In 2014, the company generated revenues of €13 billion with 61,000 employees in 56 countries. With more than 25,000 engineers and researchers, Thales has a unique capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements. Thales has an exceptional international footprint, with operations around the world working with customers and local partners.

Thales and Big data: unique positioning

As a key player in security markets, our role is to protect people, countries, critical infrastructure and data. To do that, we work closely with our customers — governments, cities, essential operators, companies and major national and international organisations — to address their specific concerns and develop solutions that meet the needs of their stakeholders.

As a data processing specialist, Thales sees Big data as a natural development of its core business. Thales brings a unique value proposition to the Big data market. In addition to high-security storage solutions scaled to accommodate huge datasets, we have invested consistently in research and development to write the complex algorithms needed to process that data.

To develop operational solutions that enable customers to tap deep into their fabulous reserves of data, Thales has set up a dedicated R&D lab known as CeNTAI (Centre de Traitement et d'analyse de l'Information). Today, CeNTAI is developing the next generation of Big data, Big Analytics and Visual Analytics methods and technologies, with a primary focus on cybersecurity, space, public safety and transportation.

A comprehensive approach

- Big data infrastructure to collect and store data
- Big Analytics and Visual Analytics to extract meaning and create value

Meeting operational needs of customers

Thales systems generate and process vast quantities of data. Thales offers proven expertise in security and cybersecurity to protect data of all kinds.

Major investments in R&D

The nature of Thales's businesses has always made data acquisition and processing a key area of focus for our research and development teams.

For more information, visit: https://www.thalesgroup.com/fr
6.3 Platinum Sponsors

6.3.1 ATOS
Atos SE (Societas Europaea) is a leader in digital services with pro forma annual revenue of circa € 12 billion and circa 100,000 employees in 72 countries. Serving a global client base, the Group provides Consulting & Systems Integration services, Managed Services & BPO, Cloud operations, Big Data & Cybersecurity solutions, as well as transactional services through Worldline, the European leader in the payments and transactional services industry. With its deep technology expertise and industry knowledge, the Group works with clients across different business sectors: Defense, Financial Services, Health, Manufacturing, Media, Utilities, Public sector, Retail, Telecommunications, and Transportation.

Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and is listed on the Euronext Paris market. Atos operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline.

For more information, visit: https://atos.net/

6.3.2 EuDECo
EuDEco covers an international consortium consisting of legal, technological and socio-economic experts as well as a European funded project (www.data-reuse.eu), which aims at assisting European science and industry in understanding and exploiting the potentials of data reuse in the context of big and open data. To be able to extract the benefits of data reuse, it is crucial to understand the underlying economic, societal, legal, and technological framework conditions and challenges to build useful applications and services. EuDEco moves beyond the classical approaches by applying the approach of complex adaptive systems to model the data economy to identify value networks, use cases and business models for data reuse. During the project the data economy model of Europe is developed and refined in several steps by case studies on previous pilots on data reuse, by in-depth analysis from legal, socio-economic and technological points of view, and by extensive tests of industrial use cases and business models. Finally, EuDEco will deliver a model of the data economy including viable use cases and business models as well as suggestions and recommendations addressing the main legal, contractual, societal and technological concerns and challenges such as contractual framework or data protection. Above that, EuDEco will develop an observatory for policy makers enabling them to track the development of the data economy.

The EuDEco community is open to any stakeholders of the European data economy who are willing to share experiences, best practices and use cases on data reuse with each other and supporting beyond the objectives of EuDEco the development of the data driven economy in Europe.
For more information, visit http://data-reuse.eu/
6.3.3 Inria

Inria, the French National Institute for computer science and applied mathematics, promotes “scientific excellence for technology transfer and society”. Graduates from the world’s top universities, Inria's 2,700 employees rise to the challenges of digital sciences. Research at Inria is organised in “project teams” which bring together researchers with complementary skills to focus on specific scientific projects. With this open, agile model, Inria is able to explore original approaches with its partners in industry and academia and provide an efficient response to the multidisciplinary and application challenges of the digital transformation. The source of many innovations that add value and create jobs, Inria transfers expertise and research results to companies (startups, SMEs and major groups) in fields as diverse as healthcare, transport, energy, communications, security and privacy protection, smart cities and the factory of the future.

Among its 170 research teams, at least 42 have particular expertise in Data Science and Big Data technology. Their often pioneering work directly contributes to the resolution of the key Big Data challenges identified today. These include, Real-Time Data Management, Smart Analytics, Advanced architectures and Cloud Computing, Interactive Data Visualization, as well as Privacy and Security.

For more info: https://www.inria.fr/

6.3.4 IK4

The IK4 Alliance was formed in 2005 in line with a federal model, whereby its members share strategies and combine capacities without giving up their sovereignty.

Through a shared strategy, the sum of the capabilities of the nine centres provides the alliance with the flexibility it needs to adapt to the characteristics of any company. In other words, this strategy qualifies it technologically to provide a global response to the needs of large companies, while simultaneously fostering its capacity to maintain a close and committed relationship with SMEs.

Today, IK4 is a benchmark on the European scene and is among the continent's principal private scientific and technological corporations. Attention should be drawn to IK4's leading role in the European Union's H2020 and 7th Framework programmes, in which it has participated in over 200 research projects and coordinated more than 60 of them.

IK4 is in an ideal position to establish long-term relationships as a strategic innovation ally of company. This makes IK4 a benchmark in participation in research projects promoted by public administrations.

For more info: http://www.ik4.es/
6.3.5  VTT

VTT Technical Research Centre of Finland Ltd is the leading research and technology company in the Nordic countries. We use our research and knowledge to provide expert services for our domestic and international customers and partners. We serve both private and public sectors.

We have 73 years’ experience supporting our clients growth with top-level research and science-based results.

We develop new smart technologies, profitable solutions and innovation services. We cooperate with our customers to produce technology for business and build success and well-being for the benefit of society.

We use 4,000,000 hours of brainpower a year to develop new technological solutions. The benefit you gain from this spearhead research comes when we work with you to create new products, production processes, methods, and services. VTT ensures efficient utilisation of science and technology with the aid of broad international cooperation and networking.

2,470 people are working at VTT (31.12.2015). Of these, about 200 researchers are pursuing activities related to Big Data and Data Analytics.

For more info: www.vttresearch.com/

6.3.6  Mozaika

Mozaika, The Humanizing Technologies Lab, is an SME and a Research Center providing since May 2013 research and solutions in the field of data science, natural interfaces (human-computer interaction), and knowledge management tailored to human behavior, attitudes and comprehension. Mozaika specializes in building information infrastructures serving a variety of applications in data as a service mode in domains like business information delivery, human resources management, cultural heritage, smart cities, earth observation.

Mozaika’s DaaS facilities
• IndustryInform, a commercial offering of Mozaika, is intended to help business owners and CEOs better target and forecast their markets, investors to evaluate the potential of a company, business consultants to bring value to their customers in a more efficient way. IndustryInform is designed as a data as a service facility based on a semantic information infrastructure, harvesting and integrating data from diverse sources, and delivering analytic reports in multiple languages. It also supplies data to other data intensive software applications to enrich their services or improve their offerings.
• SkillField is another information infrastructure of Mozaika, designated to help human resources management systems to improve their job description to CVs matching capabilities by offering semantic selection of skills, industries and locations.

Mozaika also sells information services, powered by IndustryInform, project consulting and publishes scientific book series for the Bulgarian reader.
• Member of BDVA, LT-Innovate, Europeana
• International clients and partners, good relationships with academia
• **Mode of operation**: project teams, a pool professionals in fields ranging from graphic design through business consulting to linguistics and software development
• **Growth strategy**: Organic growth
• **Research interests**: idea generation, linked data for space industries, NLP, ontologies

**Website**: [http://www.mozajka.co](http://www.mozajka.co)

### 6.4 Silver Sponsors

#### 6.4.1 Tilde

Tilde is a leading European language technology company, specialising in machine translation, terminology management, speech processing, and other technologies. As a highly innovative SME with 130 employees in the three Baltic states (Estonia, Lithuania, and head office in Latvia), for over 25 years, we have created products and services, enabling languages in the digital era.

Tilde is a full BDVA member, elected to the Board of Directors and EU Partnership Board. Tilde also serves on the board of LT-Innovate (European Language Technology Industry Association), META-NET (Multilingual Europe Technology Alliance), and ELRA (European Language Resource Association).

During the BDVA Valencia Summit, Tilde CEO Andrejs Vasiļjevs will lead the session "Language as a Data Type and Key Challenge for Big Data".

[www.tilde.com](http://www.tilde.com)

#### 6.4.2 Insight

Insight is Ireland’s national research centre for the study of Data Analytics. In a joint initiative between Dublin City University, NUI Galway, University College Cork and University College Dublin, Insight brings together more than 300 researchers from these and other Higher Education institutions, with 150+ industry partners, to position Ireland at the heart of global data analytics research.

Supported by Science Foundation Ireland and industry partners, Insight focuses on new ways to capture and understand data from the world around us, make better decisions for people, communities and industry, and create a more informed society in a healthier, more productive world. Insight has extensive experience in project coordination and participation in FP6, FP7 and H2020.

Insight is a founding member of BDV Association and is leading Task Force 1 – Programme.

[https://www.insight-centre.org/](https://www.insight-centre.org/)

#### 6.4.3 TNO

TNO is a Dutch independent not-for-profit applied research organization.
TNO is organized along 5 Themes addressing the Societal Challenges: Industry; Healthy Living; Defence, Safety & Security; Urbanisation; and Energy.

Big Data is one of the topics that is applied in almost all domains and TNO addresses data analytics in a multi sectoral way.

https://www.tno.nl/nl/

6.4.4 Paluno
Paluno (The Ruhr Institute for Software Technology), University of Duisburg-Essen, Germany

The University of Duisburg-Essen is one of the youngest universities in Germany and ranks 17th in the Times Higher Education Ranking of the world’s 150 best universities that were founded in the past 50 years. paluno, the Ruhr Institute for Software Engineering (https://paluno.uni-due.de/en/), was founded in 2010. Here, seven professors and their teams join forces. With more than 100 academic staff members, paluno conducts application-oriented research in important areas of software engineering, including requirements engineering, variability management, adaptive systems, security-privacy-trust, and big data. The research activities are performed in close cooperation with prominent partners from industry and research. As a partner of the European Technology Platform NESSI and founding full member of the BDVA, paluno is actively involved in key European initiatives and research projects. paluno offers young researchers and post-docs a stimulating, international research environment. Its offices are located in the city of Essen, the centre of a multi-cultural metropolitan area, while also offering excellent connections to all major European cities.

https://www.uni-due.de/

6.4.5 INMARK
INMARK is a business and marketing consulting company based in Madrid and operating throughout Europe and Latin America. INMARK has branches in 7 countries, totalling +200 qualified staff members. INMARK delivers fieldwork, analytic and strategic market research studies for leading financial banking institutions, governments and ICT industry analysts, covering the different market segments: hardware, software and services in IT and telecommunications (voice and data), digital media, channels of distribution, security, SOA and ICT in vertical markets (bank, insurance, e-Government, e-learning and health). INMARK offers management skills, ICT and on-line marketing eLearning and gamification solutions for corporate clients, Universities, public administration and SMEs. Furthermore, INMARK has a proven track record in ICT research, specialising in driving processes for successful technology transfer.

INMARK Innovation Management Department team has specialized in technology transfer, go-to-market strategies, data management (IPR management + Data Protection) and behavioural-social science research applied to usage of emergent technologies (tablets, wearables, sensor based wearables, cloud), education, environment, policy making participation, telecommunications, banking and other business sectors.
6.4.6 CENTIC

The Technological Centre of Information and Communication Technologies (CENTIC), is a non-profit business association, promoted by the Regional Government, founded in 2004 sponsored by the ICT sector companies of the Region of Murcia (Southeast Spain).

The main scope is the technological improvement of the companies in the ICT sector and other companies related to Information Technology, Telecommunications, Contents and Electronics through Research, Development and Innovation activities. Therefore, CENTIC can be considered as an interface or point of reference to the whole ICT regional sector: “We have an excellent know how, is our….duty”. Moreover, CENTIC develops binding or collaboration agreements for the development of its activities with national or foreign entities related to the aims of the Association.

www.centric.es

6.4.7 SICS

SICS Swedish ICT is a leading research institute for applied information and communication technology in Sweden, founded in 1985. SICS Swedish ICT is a research institute in the most expansive area of industry this century: the total digitalization of products, services and businesses. SICS is in the midst of this revolution, boosting the competitive strength of Swedish industry and the quality and efficiency of Sweden’s public sector. We contribute with cutting edge technology within the fastest growing and most relevant areas for this revolution to happen, including big data analytics, automation, security, and internet-of-things. SICS Swedish ICT is non-profit and carries out advanced research in close collaboration with Swedish and international industry and academia. We constantly seek partnerships in which new technology can be turned into smart innovation, giving our customers and partners a competitive edge. SICS is part of leading many Swedish strategic initiatives, including IoT, Big Data and Automation. SICS is a core member of EIT Digital and a member of BDVA. SICS employs approx. 160 researchers, including 83 PhDs whereof 21 professors, and hosts another 30 researchers from KTH, consultants and students working on their Master's Thesis.

https://www.sics.se/

6.4.8 SINTEF

SINTEF, situated in Trondheim and Oslo, is the largest independent research organisation in Scandinavia. Our 2000 employees support every year the development of around 2000 Norwegian and overseas companies via our R&D activities. Participation in NESSI is conducted by SINTEF ICT - one of 8 research divisions within SINTEF. SINTEF ICT, with 300 employees and 9 research departments, offers integrated research-based knowledge via access to a broad platform of technology and expertise
in ICT. A wide range of topics are covered, including micro and nano technology, photonics, communication technology, computational software, information systems, human factor/HCI, software and service engineering, security and safety.

http://www.sintef.no/

6.4.9 PLANETIC

PLANETIC mission is to provide an integrated overview of innovation in the Spanish ICT sector, combining efforts and complementarities. PLANETIC aims to attend the demand of the diverse Spanish economic sectors, promoting the ICT sector and acting as a common workplace for the different research agents. It has the following objectives:

- **Representation of the Spanish research and innovation ICT sector** by sticking together academia, industry and research organizations
- **Promotion of the innovative technologies** available in ICT sector that can provide added value in vertical sectors and supporting their competitiveness and growth
- **Definition of mid-term research challenges** in different thematic areas included in the platform (micro-nano technologies, embedded systems and software development)
- **Making the Spanish ICT sector more visible** in Europe and worldwide

The platform is involved in three key initiatives at national level:

- **Smart Cities Initiative**: Spanish cross-platform group fostered by Economy and Competitiveness Ministry aiming at defining the vision and research agenda of Spain on Smart Cities
- **Big Data Initiative**: a multi-agent Spanish working group to implement the European Agenda for Big Data in Spain aiming at positioning Spain into Big Data arena, at defining the strategic Big Data innovation spaces and at advising companies (specially SMEs) in business generation around Big Data
- **Multi-KET Initiative**: an alliance with other Spanish KETs to provide a joint offer to vertical sectors by promoting ICT as an industrial enabler and a cross-road for different Key Enabling Technologies (KET)

At international level, Planetic is the Spanish link with initiatives like Artemis, BDVA, EFFRA, EPoSS, ENIAC, NESSI, and some others. A close collaboration has been also achieved with Latinoamerican platforms.

www.planetic.es

6.4.10 TECNALIA

TECNALIA is the first privately funded applied research and technological development centre in Spain and one of the leading such centres in Europe. Key challenges for society and the economy are turned into business opportunities for collaborating company. These
challenges and opportunities are related to Advanced Manufacturing, Low-carbon Energy, Health and Ageing, Digital and Hyperconnected World, Urban Habitat, Climate Change and Lack of Resources and, in short, anything related to the economic and social development. Our team is made up of more than 1,400 experts who work to transform technology into GDP. Experts from 30 different countries spread over 22 headquarters are responsible for visualising, identifying and developing comprehensive technological solutions for over 4,000 clients, and offering comprehensive solutions paying personalised and multi-disciplinary individualized attention. We have five branches abroad: Colombia, Ecuador, France, Italy, Mexico and Serbia; three associated innovation centres in Bulgaria, Egypt and France; as well as an extensive network of partners worldwide. OPTIMA (Optimization, Modelling and Analytics) business area within the ICT Division focuses its activity and know-how on the derivation of optimization, clustering, forecasting, data mining, and in general, artificial intelligence techniques to model and solve highly complex problems unable to be tackled by means of conventional mathematical approaches.


6.4.11 Boeing

Boeing is the world’s largest aerospace company and leading manufacturer of commercial jetliners and defense, space and security systems. As America’s biggest manufacturing exporter, the company supports airlines and U.S. and allied government customers in more than 150 countries. Boeing products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.

Boeing has a long tradition of aerospace leadership and innovation. The company continues to expand its product line and services to meet emerging customer needs. Its broad range of capabilities includes creating new, more efficient members of its commercial airplane family; designing, building and integrating military platforms and defense systems; creating advanced technology solutions; and arranging innovative customer-financing options.

With corporate offices in Chicago, Boeing employs approximately 160,000 people across the United States and in more than 65 countries. This represents one of the most diverse, talented and innovative workforces anywhere. Our enterprise also leverages the talents of hundreds of thousands more skilled people working for Boeing suppliers worldwide.

Boeing is organized into two business units: Commercial Airplanes and Defense, Space & Security. Supporting these units are Boeing Capital Corporation, a global provider of financing solutions; Shared Services Group, which provides a broad range of services to Boeing worldwide; and Boeing Engineering, Operations & Technology, which helps develop, acquire, apply and protect innovative technologies and processes.

http://www.boeing.com/
6.4.12 Trilateral Research

Trilateral Research, founded in 2004, is a leading London-based multi-disciplinary consulting and technology development services company. Our teams collaborate across social sciences and technology development, deriving insights that support data driven innovation. We design, develop and evaluate data science and analytics tools with a special emphasis on transforming data into actionable information for industrial, institutional and government clients. In parallel, we assist organizations in managing their information risks via data governance frameworks (such as risk, privacy, ethics, and data protection impact assessments). We work across sectors such as smart cities, transportation, security and crisis management, emerging ICT and government to develop innovations in open data, big data and machine learning. As part of this work we build public-facing dashboards and other visualisation tools that are underpinned by our research and data analytics solutions. We leverage the knowledge of our social sciences research team to evaluate the social, ethical, economic and legal impacts of new data practices, and all aspects of data-driven innovation.

More information about Trilateral’s projects, clients and publications can be found at the following link: [www.trilateralresearch.com](http://www.trilateralresearch.com)
7 Logistics, Transport, Maps, Events
7.1 Coaches services

Coaches from BDVA Summit to Valencia Airport
A free transfer service will be available from the Summit to the Airport on Friday 2\textsuperscript{nd} December.

The following schedule is planned:

Friday 2\textsuperscript{nd} December at 11:00, 13:00 and 15:30.

The contact point will be informed during the Summit. The journey takes about 30 minutes from the Summit to the airport (40 on Friday due to traffic).

IMPORTANT: all attendees interested in using this free service will need to notify in the Registration Desk before the coffee break in the morning of the day of departure.

7.2 Taxis

From Valencia Airport to BDVA Summit event (and vice-versa)

Google Maps (Airport – Summit BDVA)

There are several official taxi companies in Valencia. Taxis in Valencia are very convenient and not too expensive.

Ask the driver to drive you to:

\begin{itemize}
  \item Ingeniero Fausto Elio Street door in Universitat Politècnica de Valencia.
  \item Ciudad Politécnica de la Innovación
\end{itemize}

Flat fare from/to the airport \textit{------ 25€}
For services from or to the airport and from or to BDVA Summit Valencia.

Pick – Up Service from Airport minimum fare \textit{------12€}

Supplement for luggage or extra people \textit{------ 5’40€}

The journey takes about 30 minutes from the place to the airport (40 on Friday due to traffic).
To get a taxi you can use for example the following companies (same official fares):

**RADIO TAXI**

Web site: http://www.radiotaxivalencia.es/reservar-taxi/

Telephone: +34 963571313

**TELE TAXI**

Web Site: http://www.teletaxivalencia.com/

Telephone: +34 963703333

**Fares 2016**

<table>
<thead>
<tr>
<th></th>
<th>Monday to Friday</th>
<th>Saturday, Sunday and holidays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fare 1</td>
<td>1,08 €/km</td>
<td>1,24 €/km</td>
</tr>
<tr>
<td>Fare 2</td>
<td>1,18 €/km</td>
<td>1,24 €/km</td>
</tr>
<tr>
<td>Fare 3</td>
<td>0,18 €/km</td>
<td>1,24 €/km</td>
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<tr>
<td>Fare 4</td>
<td>0,68 €/km</td>
<td>1,70 €/km</td>
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<tr>
<td>Minimum Charge</td>
<td>4 €</td>
<td>6 €</td>
</tr>
<tr>
<td>Minimum Charge</td>
<td>4 €</td>
<td>4 €</td>
</tr>
</tbody>
</table>

**IMPORTANT**: Taxi’s should be readily present but attendees can ask for help at the Registration Desk to call a Taxi.

### 7.3 Metro

**From the airport to Serreria Station - Travel time 50 minutes**

**Line 3.** Rafelbunyol (15 stops) station **Benimaclet**

**Line 6.** Marítim – Serreria (5 stops) station **Serreria**

**From metro station walking distance approx.**: 350 meters - 4 minutes to Ciudad Politécnica de la Innovación – Universidad Politécnica de Valencia – Ingeniero Fausto Elio Street – Auditorium Azul Cube.
Web site of Metro Valencia: http://www.metrovalencia.es

Metro tickets can be acquired at: Ticket booths at any station in the Metro network. Automatic ticket machines located in the entrance halls of the Metro network stations.

Fares 2016

Getting around with Metrovalencia - Fares

<table>
<thead>
<tr>
<th>Tickets</th>
<th>1 zone A, B, C or D</th>
<th>2 zones AB, BC or CD</th>
<th>3 zones ABC or BCD</th>
<th>4 zones ABCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single ticket</td>
<td>1.50 €</td>
<td>2.10 €</td>
<td>2.80 €</td>
<td>3.90 €</td>
</tr>
<tr>
<td>Return fare</td>
<td>2.90 €</td>
<td>4.00 €</td>
<td>5.30 €</td>
<td>7.40 €</td>
</tr>
<tr>
<td>Bonometro</td>
<td>7.20 €</td>
<td>10.40 €</td>
<td>14.00 €</td>
<td>20.00 €</td>
</tr>
</tbody>
</table>
From the hotel AYRE ASTORIA PALACE

How to get with google maps

Take METRO LINE 3 + TRAM LINE 6
From the hotel ZENIT VALENCIA

How to get with google maps

Take METRO LINE 3 + TRAM LINE 6
From the hotel EUROSTARS REY DON JAIME

How to get with google maps

Take BUS Line 1
From the hotel NH LAS ARTES & NH LAS CIENCIAS

How to get with google maps

TAKE BUS LINE 1
From the hotel CIUDAD DE VALENCIA

How to get with google maps

10:00 AM Hotel NH Ciudad de Valencia
Avinguda del Port 214, 46023 Valencia, Valencia
Walk
✓ About 6 min, 500 m

10:16 AM Serradora - Port
la Malva-rosa
✓ 10 min (6 stops) - Stop ID: 1747

10:26 AM Fausto Elio (par) - Universitat Polit...
Walk
✓ About 6 min, 450 m

10:32 AM ITI - Instituto Tecnológico de Informática
Camino de Vera, S/N, Edif 86 - Acc. B - 4ª Planta, 46022 Valencia

Tickets and information
EMT Valencia - 963 15 85 15
7.4 How to get to the event and the dinner – Wednesday, 30th November

A free transfer service will be available from the Summit to the social event and the dinner.

Social Event
Visit to the Museum of the FALLAS

The present activity aims to make the visitor live a unique experience, learning what our most typical festivals consist of:

How are the FALLAS made?
What materials and techniques do we use?
Why we burn them?

The visitor will be able to understand this peculiar activity and will live a unique experience in the most authentic workshops where our FALLAS are made.
It is usual that the visitor to our city only knows the Fallas once planted in the street, but we will intend with this experience that you know the interior and the particularities of this traditional job.
See, touch, hear and even smell the FALLAS.

Address:  Av. San José Artesano, 17 46025 VALENCIA
Website:  http://www.gremiodeartistasfalleros.com/
Dinner
Jardines la Hacienda Restaurant

Dinner and surprise show. I-Spaces label awards ceremony will be celebrated in the dinner.

Address: Camino de la Tanca s/n, 46540 El Puig de Santa Maria, Valencia
Website: http://jardineslahacienda.com/

7.5 How to get to the dinner – Thursday, 1st December
The Day 2 dinner will be served in the historic center of Valencia, near the Central Market, the Cathedral of Valencia and the Plaza de la Virgen, emblematic areas of the city.

Address: Plaza Virgen de la Paz, 3, 46001 València
7.5.1 How to get in TAXI
The journey takes about 17 minutes from the Summit to the restaurant.

RADIO TAXI

Website: http://www.radiotaxivalencia.es/reservar-taxi/
Telephone: 963571313

TELE TAXI

Website: http://www.teletaxivalencia.com/
Telephone: 963703333

Fares 2016

<table>
<thead>
<tr>
<th></th>
<th>Day</th>
<th>Night</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday to Friday</td>
<td>Fare 1: 1,08 €/km</td>
<td>19,15 €/each waiting hour</td>
</tr>
<tr>
<td></td>
<td>Minimum fare: 145 €</td>
<td>Minimum charge: 4 €</td>
</tr>
<tr>
<td>Saturdays, Sundays and holidays</td>
<td>Fare 2: 1,13 €/km</td>
<td>12,45 €/each waiting hour</td>
</tr>
<tr>
<td></td>
<td>Minimum fare: 2 €</td>
<td>Minimum charge: 4 €</td>
</tr>
</tbody>
</table>

IMPORTANT: Taxi’s should be readily present but attendees can ask for help at the Registration Desk to call a Taxi.

7.5.2 How to get the Dinner by METRO + BUS

TAKE TRAM LINE 6 + BUS LINE 70
8 BDVA
8.1 Big Data Value Association

The Big Data Value Association (BDVA) is a private, industry-led non-profit association with the mission of **boosting European BIG DATA VALUE research, development and innovation** and fostering a positive perception of BIG DATA VALUE. The aim is to maximize the economic and societal benefit to Europe, its businesses and its citizens, and enabling Europe to take the lead in the global data-driven digital economy.

BDVA membership is composed of large industries, SMEs, research organizations and data users to **support the development and deployment of the EU Big Data Value Public-Private Partnership** with the European Commission. BDVA represents the private side of the PPP. BDVA is **open to new members** to further enrich the data value ecosystem and play an active role. These include Data Users, Data Providers, Data Technology Providers and Researchers.

BDVA organizes its work in Task Forces, where its members engage and influence with the aim for BDVA to be the European Big Data reference point.

BDVA is an international non-profit association under Belgium law. As a member you should read and be aware of the following documents (Public documents on the bdva.eu website):

- BDVA Statutes
- BDVA Bylaws
- BDVA Contractual Arrangement

8.2 BDVA organisational structure and contacts

<table>
<thead>
<tr>
<th>Group</th>
<th>Comments</th>
<th>Mailing list/Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secretary General (SG)</td>
<td>The person responsible for the day-to-day management of the organisation. He/she is assisted by Deputy Secretary Generals. As of September 1st, 2016, Ana Garcia is BDVA</td>
<td><a href="mailto:Secretarygeneral@core.bdva.eu">Secretarygeneral@core.bdva.eu</a></td>
</tr>
<tr>
<td><strong>Secretary General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secretariat</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operational people who take care of administrative tasks and report to the Secretary General.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:Secretariat1@core.bdva.eu">Secretariat1@core.bdva.eu</a> (BDVA Office – meeting, minutes, agendas, high-level actions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="mailto:Secretariat2@core.bdva.eu">Secretariat2@core.bdva.eu</a> (BDVA Administration – e.g. mailing lists, repository, CRM issues)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Treasurer** |
| Person responsible for invoicing and Financial matters. |
| Tonny Velin (Answare) is Treasurer |
| [Treasurer@core.bdva.eu](mailto:Treasurer@core.bdva.eu) |

| **Communications** |
| Group of people in charge of Dissemination matters. |
| [communications@core.bdva.eu](mailto:communications@core.bdva.eu) |

### 8.3 Public dissemination channels

<table>
<thead>
<tr>
<th><strong>Channel</strong></th>
<th><strong>Address</strong></th>
<th><strong>Information and interaction</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Twitter</strong></td>
<td>@BDVA_PPP</td>
<td>Official twitter account for BDVA. To follow, mention. #Bigdata</td>
</tr>
<tr>
<td><strong>Youtube</strong></td>
<td>Search BDVA channel in youtube.com</td>
<td>Videos. Subscribe</td>
</tr>
<tr>
<td><strong>LinkedIn</strong></td>
<td><a href="https://www.linkedin.com/company/big-data-value-association?trk=top_nav_home">A company page</a> A group has also been created where relevant discussions are posted <a href="https://www.linkedin.com/grp/home?gid=8299467">https://www.linkedin.com/grp/home?gid=8299467</a></td>
<td>Follow</td>
</tr>
<tr>
<td><strong>Flickr</strong></td>
<td><a href="https://www.flickr.com/photos/133720881@N08/">https://www.flickr.com/photos/133720881@N08/</a></td>
<td>Pictures (mainly from BDVA events)</td>
</tr>
<tr>
<td><strong>Slideshare</strong></td>
<td><a href="http://www.slideshare.net/BDVA">http://www.slideshare.net/BDVA</a></td>
<td>Public slide packages</td>
</tr>
</tbody>
</table>
Note: TF5 and TF9 have recently merged in a new TF5 called “Policy and Societal” (BoD approval last July 1st). Updates in distribution lists, mandate and information about owners are being updated. Contact secretarygeneral@core.bdva.eu for further information.

### 8.5 Join Us

Membership of the Association gives the following **benefits**:  

- Part of the **European Big Data industry initiative which will have** high impact on the deployment of Big Data technologies and thus business competitiveness and economic growth  
- Influencing the **Big Data challenges and needs** in the following years by contributing to the Strategic Research and Innovation Agenda (SRIA)  
- **Direct access to discussions with EU Commission and Member States** thus gaining access to and influencing strategic direction  
- **Networking and partnering** with industrial and research partners in the European Data Value Chain, for setting-up collaborative research and innovation activities

As a member you have the following **rights** (defined in the BDVA statutes):  

- Attending the meetings of the General Assembly (Associated members without voting rights)  
- Voting at the General Assembly (only Full members)  
- Calling for an extraordinary GA (only Full members)  
- Participate in the activities of the Association  
- Being elected to the Board of Directors (only Full Members)  
- Resign from the Association (conditions defined in the BDVA Statutes)
As a member you have the following obligations:

- Actively participate in the Association’s activities and proactively contribute to the deliverables
- Provide relevant non-confidential data necessary to fulfil monitoring obligations resulting from Big Data Value Public-Private Partnership Contractual Agreement
- Notify the Secretary-General of any changes regarding your status as a member.
- Obey at any time the statutes, bylaws and decision of its governing bodies
- Pay the annual membership fee (within 60 calendar days from the receipt of the invoice)
BDVA Full Member Application Form (Type D)

This Form is for Full Member interest. Please SCAN through the form FIRST to ensure you have all details to hand. In particular we recommend not to start filling it in until you have a signed and scanned application form to upload and have correct information on formal company name, VAT number etc.

Name Prefix *
First Name *
Middle Name
Last Name *
Job Title *
Individual (work) Email *
Individual Phone Number
Individual Web Address

Street Line 1
Street Line 2
City *
Post Code
Country *

Organization Used Name
Organization Legal Name
Organization Short Name
VAT Number

If no VAT number state 'No VAT Number'

Organisation Type *

PAN-European Yes No

Organisation Size (Total) *

Start-Up? * Yes No

This should represent the number of employees in the entire organisation or entity. Not the department or for example country unit but neither include linked organisations which are relatively independent and may separately join.

User login

Username *
Password *

- Create new account
- Request new password

All correspondence will be sent to this email

Please enter a telephone number including the international prefix

Typically the website of a department or work unit involved with BDVA
<table>
<thead>
<tr>
<th>Interest</th>
<th>Engagement</th>
<th>Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Interested party – Mailing List</td>
<td>Low level – reactive. Receiving mails from BDVA general mailing lists</td>
<td>Complete the form for subscribing to the Mailing List. Documents referenced below can be of interest but you do not need to commit to them</td>
</tr>
<tr>
<td>B Interested party – Stakeholder</td>
<td>A + Invited to workshops and events; possible participant in BDVA stakeholder platform</td>
<td>Complete form for expressing Stakeholder Interest. Documents referenced below can be of interest but you do not need to commit to them</td>
</tr>
<tr>
<td>C Associate Member</td>
<td>B + Attend workshop and Task forces, and General Assembly as observer</td>
<td>Complete form for applying as Associate Member. You will need to read Documents referenced above since you need to understand the implications and commit to the BDVAs governance and vision and prepare information to upload</td>
</tr>
<tr>
<td>D Full Member</td>
<td>C + Significant Commitment and General Assembly as a voting participant</td>
<td>Complete form for applying as Full Member. You will need to read Documents referenced above since you need to understand the implications and commit to the BDVAs governance and vision and prepare information to upload</td>
</tr>
<tr>
<td>E Full Member plus BOD candidate</td>
<td>D + Be considered as a candidate to be an active member of the Board of Directors when a vacancy arises</td>
<td>Complete form for applying as Full Member. You will need to read Documents referenced above since you need to understand the implications and commit to the BDVAs governance and vision and prepare information to upload. You will need to update the 'Board of Directors interest' field on this form</td>
</tr>
</tbody>
</table>
9 Participants List
<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Company/Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abella</td>
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<td>desidedatum</td>
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<td>Abels</td>
<td>Sven</td>
<td>Ascora GmbH</td>
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<tr>
<td>Aerts</td>
<td>Katia</td>
<td>VRT</td>
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<tr>
<td>Aizpuru</td>
<td>Felipe</td>
<td>Osakidetza/Basque Health Service</td>
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<tr>
<td>Akerkar</td>
<td>Rajendra</td>
<td>Vestlandsforsking</td>
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<tr>
<td>Aladağ</td>
<td>Aysun</td>
<td>Teknopar</td>
</tr>
<tr>
<td>Aldana Montes</td>
<td>José F.</td>
<td>Universidad de Malaga</td>
</tr>
<tr>
<td>ALEMANY</td>
<td>SANDRA</td>
<td>ASOC. INSTITUTO BIOMECANICA VALENCIA</td>
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<tr>
<td>Alepuz Requena</td>
<td>Marcos</td>
<td>Instituto Valenciano de Infertilidad</td>
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<tr>
<td>Alexopoulos</td>
<td>Kosmas</td>
<td>Laboratory for Manufacturing Systems &amp; Automation (LMS)</td>
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<td>Antonio</td>
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<td>Gina</td>
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<td>Merve</td>
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<td>AMAYA</td>
<td>GMV, Aerospace and Defence SAU</td>
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<tr>
<td>Benito Zafrilla</td>
<td>Rosa María</td>
<td>Universidad Politécnica de Madrid</td>
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<tr>
<td>Benjelloun Touimi</td>
<td>Abdellatif</td>
<td>Huawei Technologies (UK)</td>
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<td>Bernabéu Aubán</td>
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<td>Instituto Tecnológico de Informática</td>
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<td>David</td>
<td>IBM Haifa Research Lab</td>
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<tr>
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<td>imec</td>
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<td>Fabian</td>
<td>Vodafone Global Enterprise</td>
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<td>CNR-IIA Florence Division</td>
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<tr>
<td>Bivas</td>
<td>Avi</td>
<td>Consultant to Israel Innovation Authority</td>
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<tr>
<td>Last Name</td>
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<td>Saverio</td>
<td>BBC</td>
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<tr>
<td>Bojar</td>
<td>Ondrej</td>
<td>Charles University</td>
</tr>
<tr>
<td>Bomhof</td>
<td>Freek</td>
<td>TNO</td>
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<tr>
<td>Bontcheva</td>
<td>Kalina</td>
<td>The University of Sheffield</td>
</tr>
<tr>
<td>BOUCHET</td>
<td>Jean-Michel</td>
<td>Thales Communications &amp; Security</td>
</tr>
<tr>
<td>Brewer</td>
<td>Stephen</td>
<td>University of Southampton</td>
</tr>
<tr>
<td>Briese</td>
<td>Christian</td>
<td>EODC</td>
</tr>
<tr>
<td>Buitelaar</td>
<td>Paul</td>
<td>Insight Centre for Data Analytics</td>
</tr>
<tr>
<td>Caballero</td>
<td>Pedro</td>
<td>Fundacion CARTIF</td>
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<tr>
<td>Cacheiro</td>
<td>Emilio</td>
<td>TTS de OHL</td>
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<tr>
<td>Calipienso Martínez</td>
<td>Ricardo</td>
<td>Indra Sistemas, S.A.</td>
</tr>
<tr>
<td>Cameron</td>
<td>David</td>
<td>University of Oslo</td>
</tr>
<tr>
<td>Campbell</td>
<td>Stuart</td>
<td>Information Catalyst for Enterprise</td>
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