Joining Sub-Platform

to Manufuture

General Assembly

Rob Scudamore – Secretariat Chair



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Agenda

Time	Topic	Lead
09.00	*Registration & Refreshments*	
09.30	Welcome from: Deputy Head of DG Research & Innovation Management Committee Secretariat and Meeting Chair	 Andrea Gentili - EC Robert Scudamore – Chair
10.00	Introduction and Update from the European Commission	Neophytos Neophytou - EC
10.10	Joining News on H2020 & Draft Calls	Sébastien Mortier – EC
10.30	Factories of the Future' PPP and Horizon 2020	Chris Decubber - EFFRA
11.00	Industry's Key Enabling Role for Sustainable Growth and Jobs	Heinrich Flegel - DAIMLER AG
11.30	Joining Sub-Platform Strategic Research Agenda	Kristian Martinsen - Industrial Chairman Robert Scudamore - Chair
12.15	*Networking Buffet Lunch*	
13.15	Joining Opportunities – Round Table Discussion	EC / Manufuture / EFFRA / IIW / Industry
14.15	Case Studies - FP7 Projects	TBC
15.30	Summary and Future Actions	Robert Scudamore - TWI
16.00	*Meeting Close*	



Introduction



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Joining Sub-Platform Background

- **Sub-Platform to ManuFuture**
- **Joining Sub-Platform launched in June 2012**
- **Committee Members:**
  - **DVS, Germany**
  - **EWA, France**
  - **EWF, Portugal**
  - **Industrial Institute of Slovak Republic, Slovakia**
  - **Swerea IVF AB, Sweden**
  - **SINTEF Raufoss Manufacturing AS, Norway (Ind Chair)**
  - **Tecnalia Corporación Tecnológica, Spain**
  - **TWI Ltd, UK (Secretariat Chair)**

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JOINING

‘Fit’ with Europe



JOINING

Joining Sub-Platform Philosophy

Joining, including traditional welding methods, is a core element to innovative and sustainable manufacturing

"The value added by Joining technology in Europe amounted to around EUR 65 billion in 2010.

Over 1.25 million employees were connected with this added value within Europe in 2010"

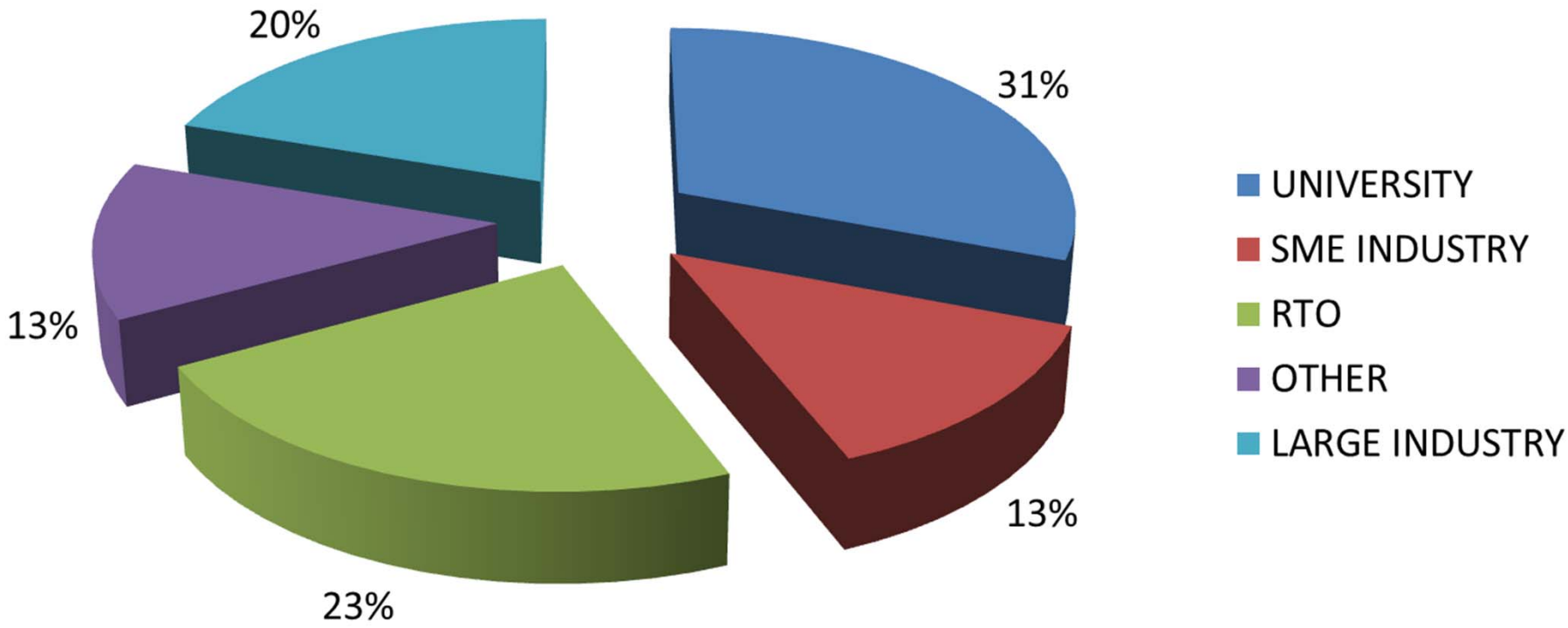
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Three Main Aims of Joining Sub-Platform

- Gain Joining network support through Membership of Platform
- Draft Strategic Research Agenda consultation document
- Clustering for Economical, Societal and Environmental benefit/impact

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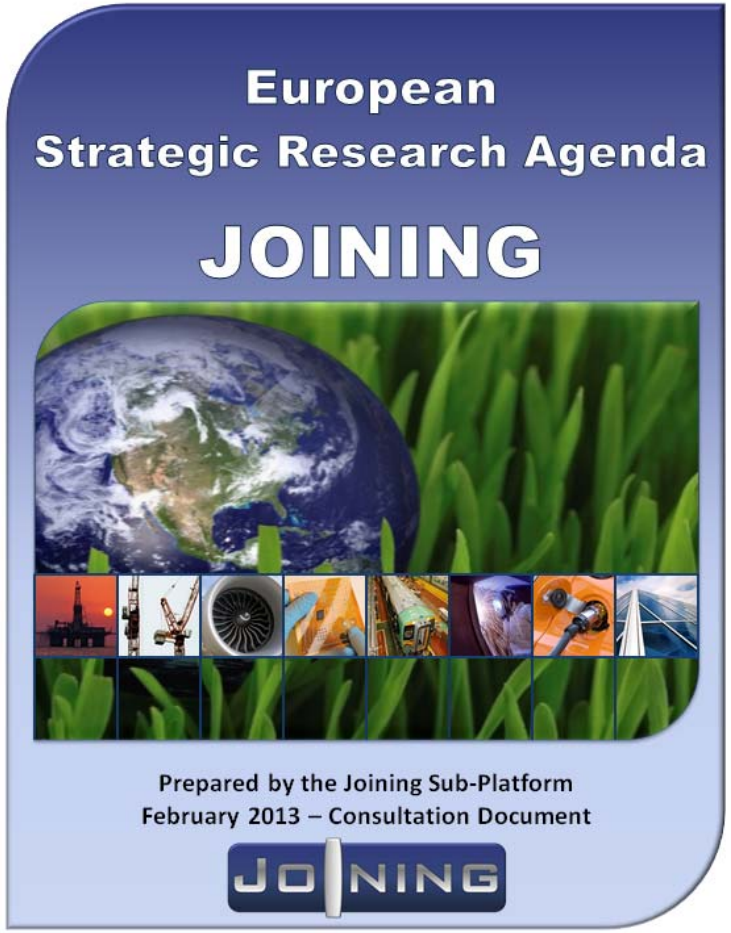
Joining Sub-Platform Members



Total to date – 305

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Joining Sub-Platform Strategic Research Agenda





7. Challenges and Opportunities for Joining

In order to ensure the future of Joining within Europe it is vital that the EU is significantly ahead in the development and exploitation of Joining processes. The underpinning knowledge to support this is also of significance and Europe needs to ensure this is secured for generations to come. This in turn will generate opportunities for increased business turnover and the number of jobs not only safeguarded but created.

The importance of the Grand Challenges highlighted by the EU are significant and the uniting of European industry, governments and institutes alike is required in order to bring together an understanding of the key areas of research and to guide the future direction of Joining technology development.

Responsibly driven economic growth is a prerequisite for societal sustainability, addressing the needs of the citizen and the environment and as such is deemed as a key enabler to the success of the EU Grand Societal Challenges (EFFRA, 2012).

Manufacturing needs to incorporate sustainability, from planning and design, to repair and recycling, and the end of a product life cycle. It is these aspects which have a direct influence on Joining technology. Only energy-efficient, environmentally favourable fabrication can create products that are needed by a sustainable EU economy (Middeldorf & Jerzembeck, 2012).

Outlined in the following sections are some of the key PESTLE drivers for individual industry sectors and some of the current industry products, within these drivers, that relate to Joining. Emphasis is then drawn down to technology development areas where Joining plays a critical part of overcoming the technical barriers seen in industry products. This technology development can therefore be used to address the drivers. This is not an exhaustive list of technology areas. Figure 3 provides a schematic of the process methodology used.

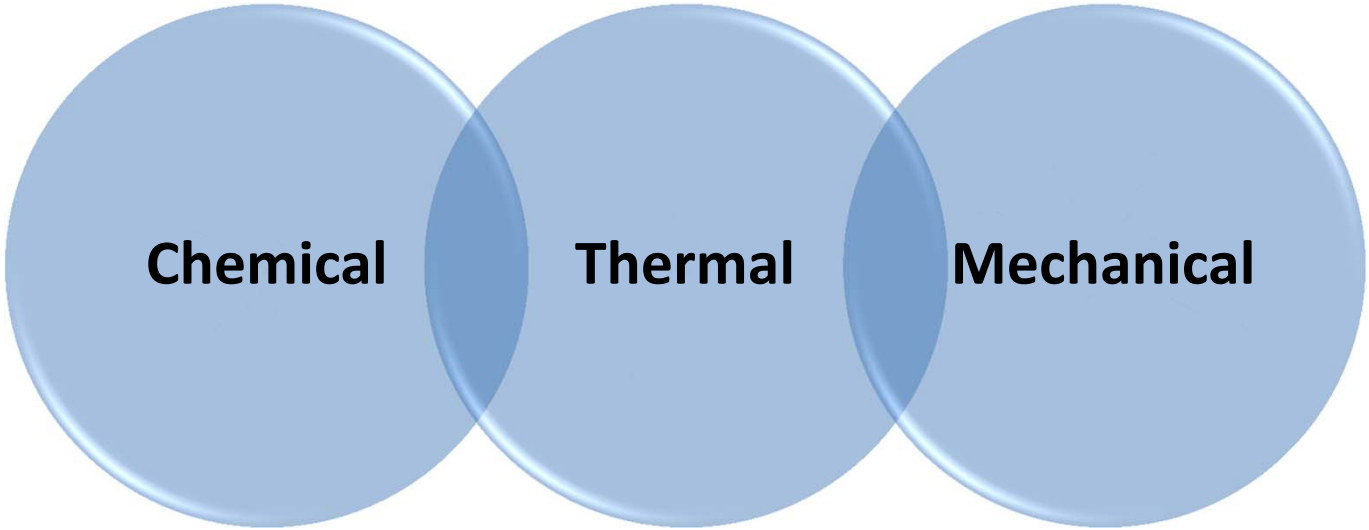
Figure 3: Schematic of the process methodology used for mapping the Joining themes.

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JOINING

Joining Sub-Platform Definition of Joining

Creating a bond of some description between materials or components to achieve a specific physical performance. Described as being generated by one or more of the following effects:



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Joining Sub-Platform Update

- **Committee & EC Meetings:** EWA, TWI, EWF, Raufoss, Norway
  Frequent conference calls including with Sebastien Mortier
- **Raised Profile:**
  - IIW White Paper supporting Joining
  - Joining detailed within H2020 (2014 – sub-category; 2015 – call topic)
- **Sub-Platform Promotion at:**
  - EuroNanoforum 2013 Conference (Jun)
  - IIW (Sept)
  - Essen Fair (Sept)
  - EC EFFRA IRAG / AIAG (Oct)
  - DIN German Institute for Standardization- CEN/TC 121 “Welding and allied processes” Meeting, Paris (14 Oct)

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Stakeholder Engagement

- **Members sign up via: www.joining-platform.com**
- **General Assembly: Thursday 28 November, EC Brussels**
  - Supported by and representation from the EC
  - Welding and joining community
  - Case studies
  - Networking/collaboration
- **Future Activities:**
  - Continue to increase sub-platform members
  - Continue Stakeholder engagement
  - SRA consultation document updated for 2014
  - Clustering

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Joining Sub-platform Information

Thank You!

Further information available at:

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