News from EFFRA



Chris Decubber
Brussels, 4 July 2014

EFFRA
EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION
a MANUFUTURE initiative

- Get inspired
  - 151 projects
  - > 1000 participants
  - Demonstration of technologies

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- Get inspired
- Get involved
  - Call 2015 with a budget of 145 Meuro

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- Get inspired
- Get involved
- Get involved in steering the programme
  - Consultation WP 2016-2017

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Quality Control of Aluminium Laser-welded Assemblies

Challenges & Opportunities

- Manufacturing Future Products
- Economic
- Social
- Environmental

Sustainability

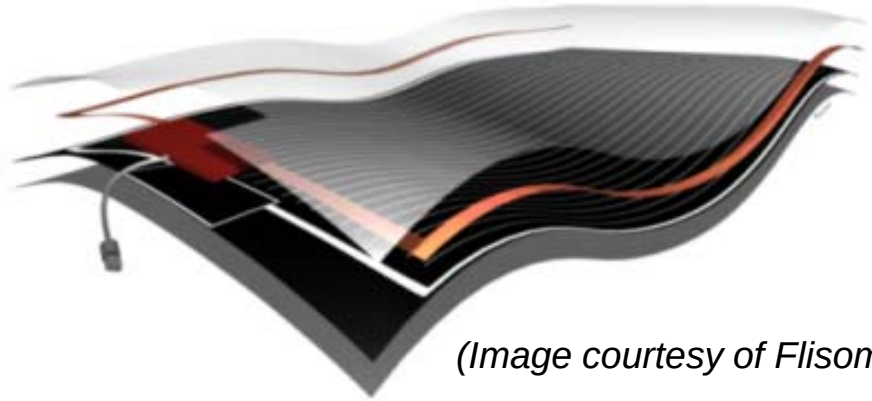
Electric car battery interconnections



(Image courtesy of Volkswagen).

Technologies & Enablers

- Advanced Manufacturing Processes
- Mechatronics for Advanced Manufacturing Systems
- Information & Communication Technologies
- Manufacturing Strategies
- Knowledge Workers
- Modelling, Simulation & Forecasting



(Image courtesy of Flisom).

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RLW NAVIGATOR

Remote Laser Welding System Navigator for Eco & Resilient Automotive Factories

Challenges & Opportunities

- Manufacturing Future Products
- Economic
- Social
- Environmental

Sustainability

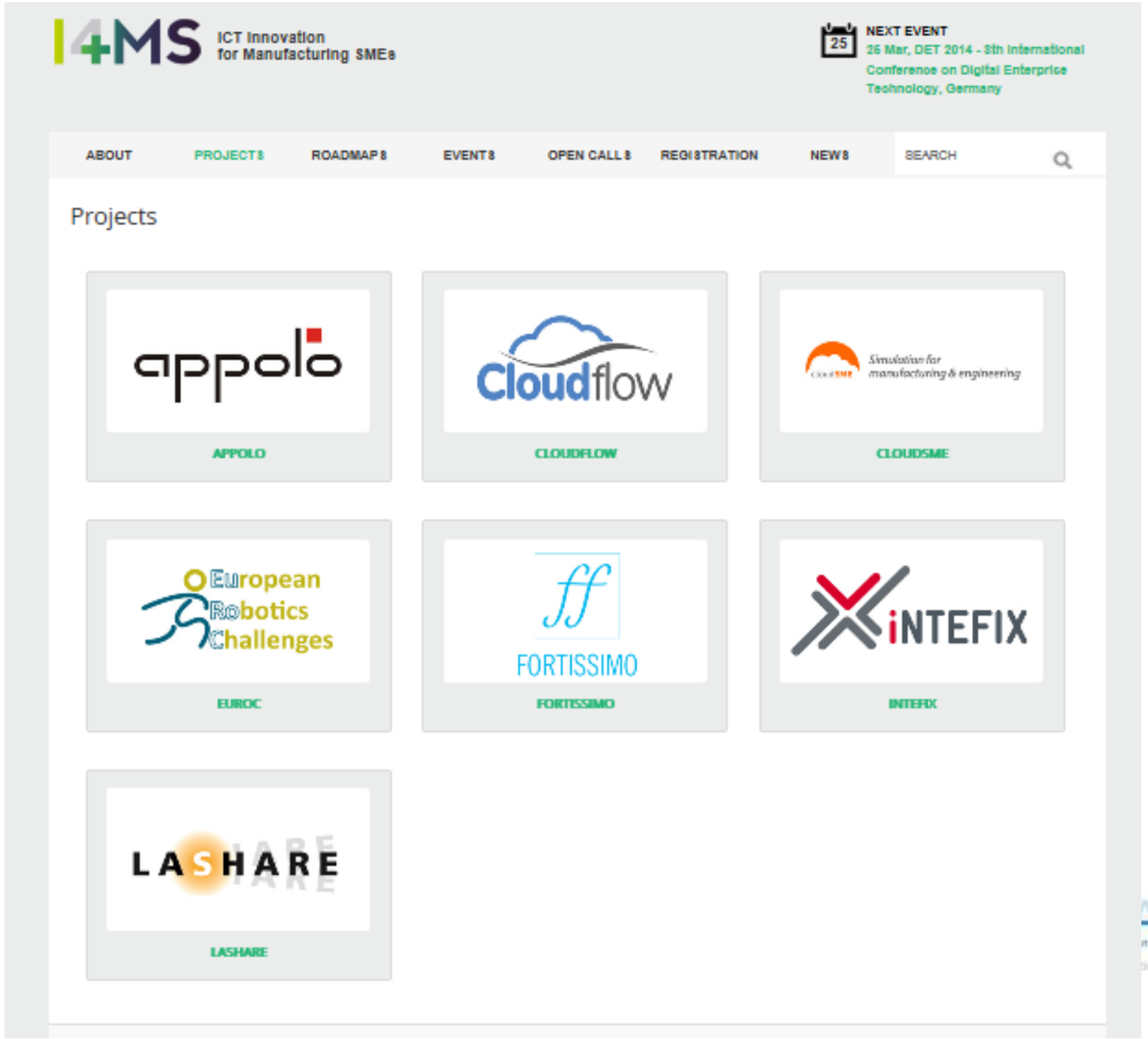


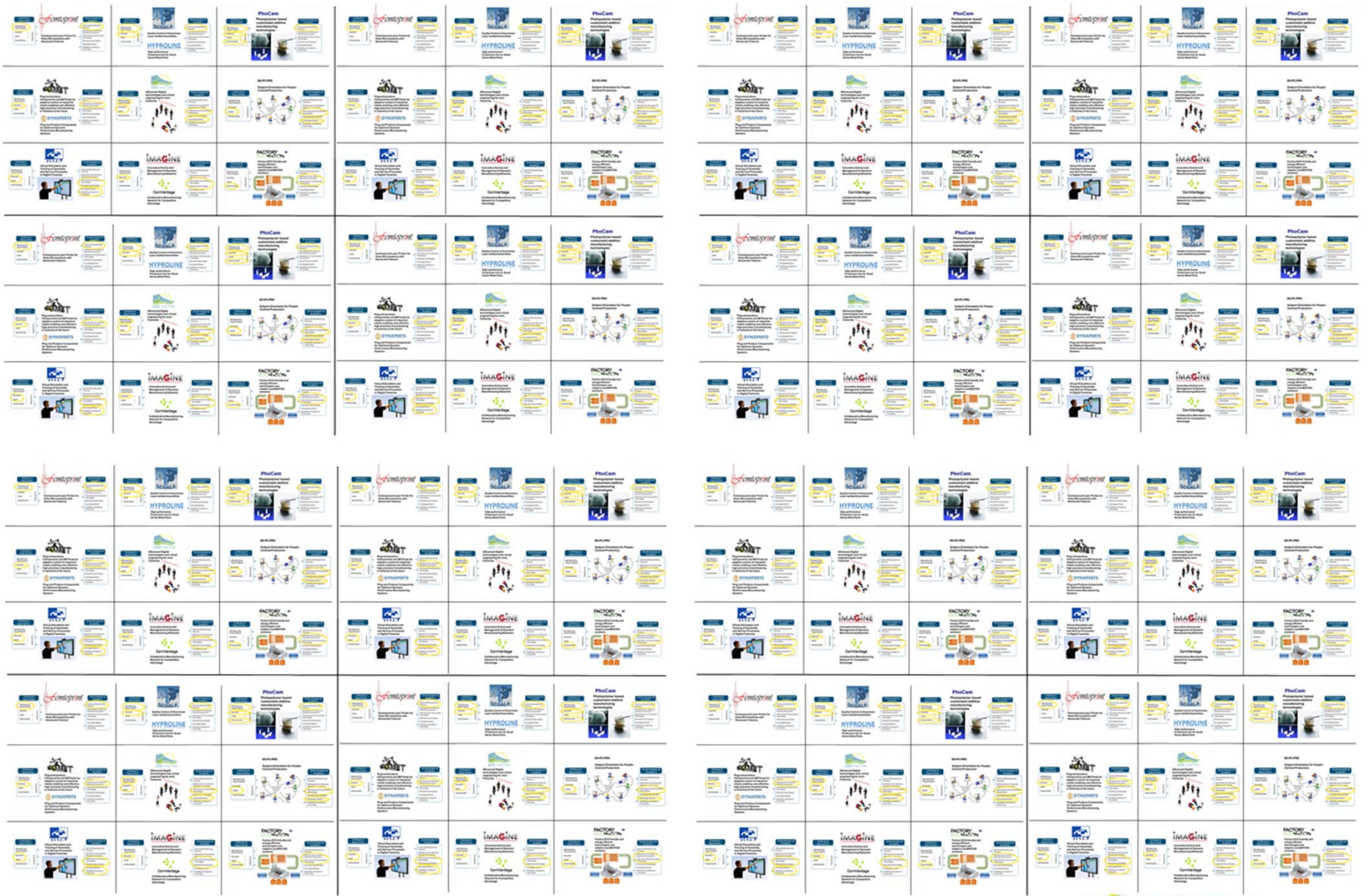
RLW Navigator – an engineering platform to introduce new emerging RLW joining technology into existing assembly systems

Technologies & Enablers

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I4MS
ICT Innovation for Manufacturing SMEs
NEXT EVENT
26 Mar, DET 2014 - 8th International Conference on Digital Enterprise Technology, Germany
ABOUT
PROJECTS
ROADMAPS
EVENTS
OPEN CALLS
REGISTRATION
NEWS
SEARCH
Projects
appolo
APPOLO
Cloudflow
CLOUDFLOW
Simulation for manufacturing & engineering
CLOUDSME
European Robotics Challenges
EUROC
ff
FORTISSIMO
FORTISSIMO
iNTEFIX
INTEFIX
LASHARE
LASHARE



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Portfolio management and monitoring



General project information

Link to project website

…

Exploitable results overview

Project demonstrators overview

Addressed challenges and technologies

Project participants



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FoF 8 – 2015: ICT-enabled modelling, simulation, analytics and forecasting technologies 79

HORIZON 2020

WORK PROGRAMME 2014 – 2015

HORIZON 2020 – WORK PROGRAMME 2014-2015

Leadership in Enabling and Industrial Technologies

Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing

FoF 9 – 2015: ICT Innovation for Manufacturing SMEs (I4MS) 80

FoF 10 – 2015: Manufacturing of custom made parts for personalised products 82

FoF 11 – 2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots 83

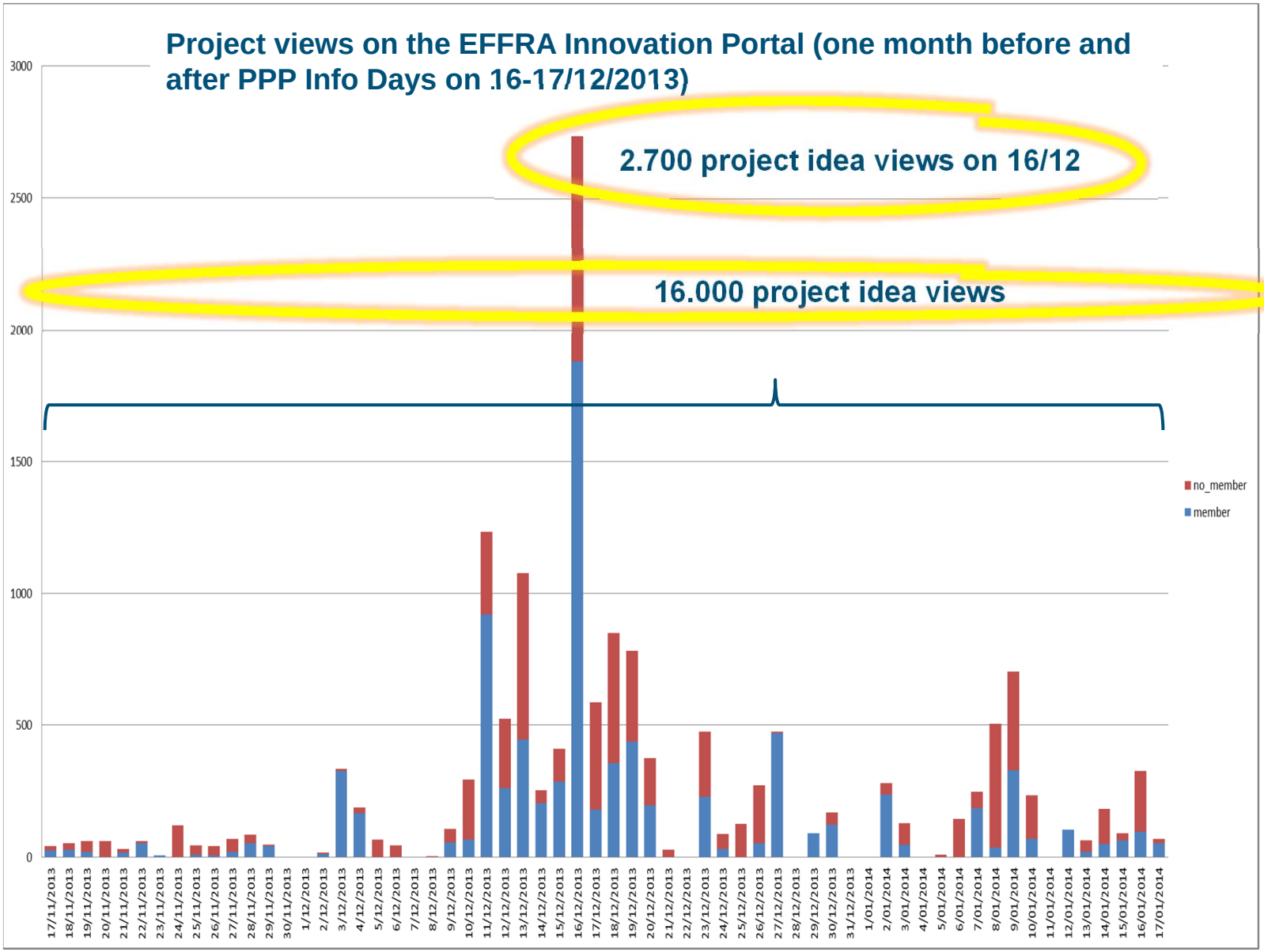
FoF 12 – 2015: Industrial technologies for advanced joining and assembly processes of multi-materials 84

FoF 13 – 2015: Re-use and re-manufacturing technologies and equipment for sustainable product lifecycle management 85

FoF 14 – 2015: Integrated design and management of production machinery and processes 87

www.effra.eu/portal



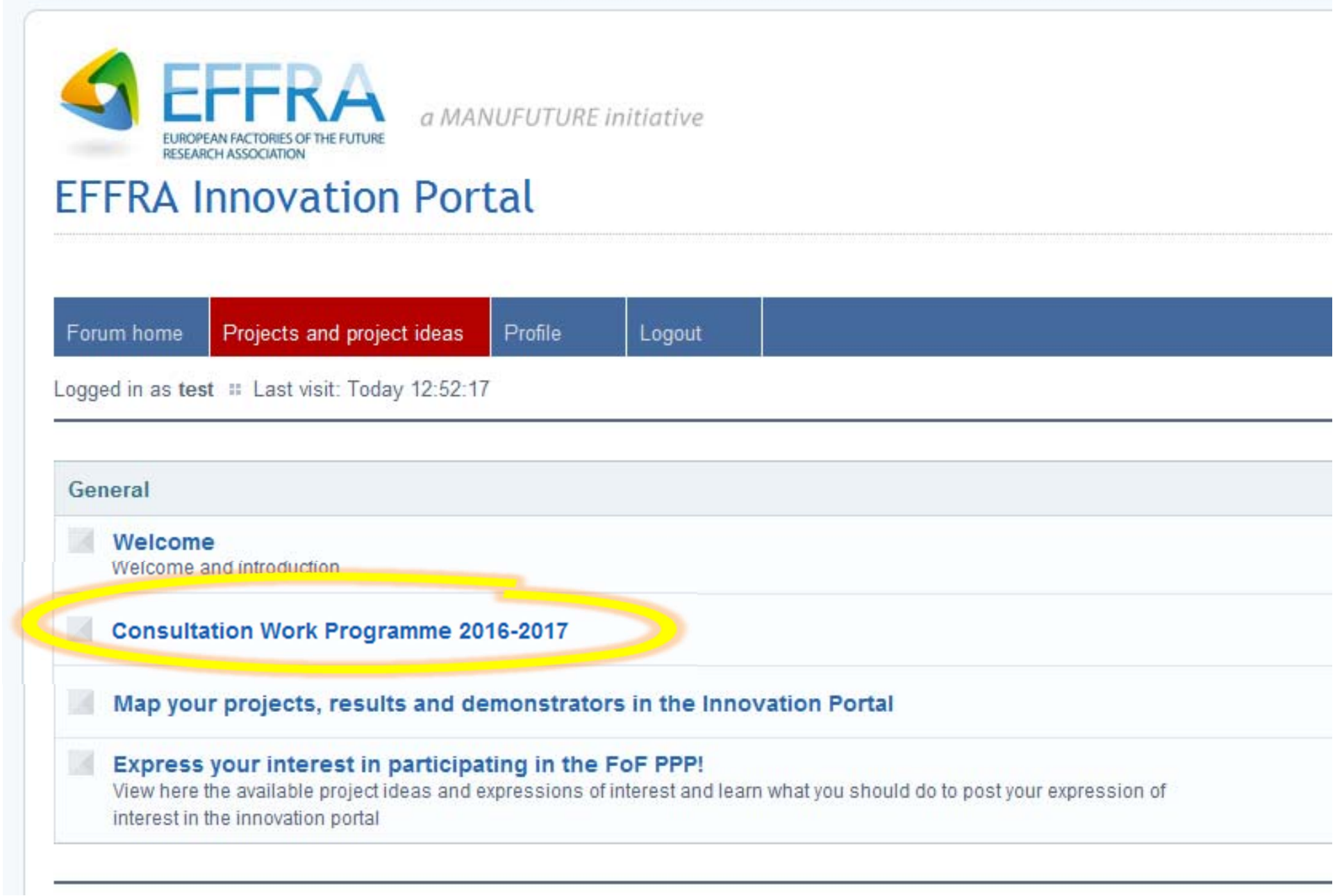

Project views on the EFFRA Innovation Portal (one month before and after PPP Info Days on 16-17/12/2013)
2.700 project idea views on 16/12
16.000 project idea views
3000
2500
2000
1500
1000
500
0
no_member
member
17/11/2013
18/11/2013
19/11/2013
20/11/2013
21/11/2013
22/11/2013
23/11/2013
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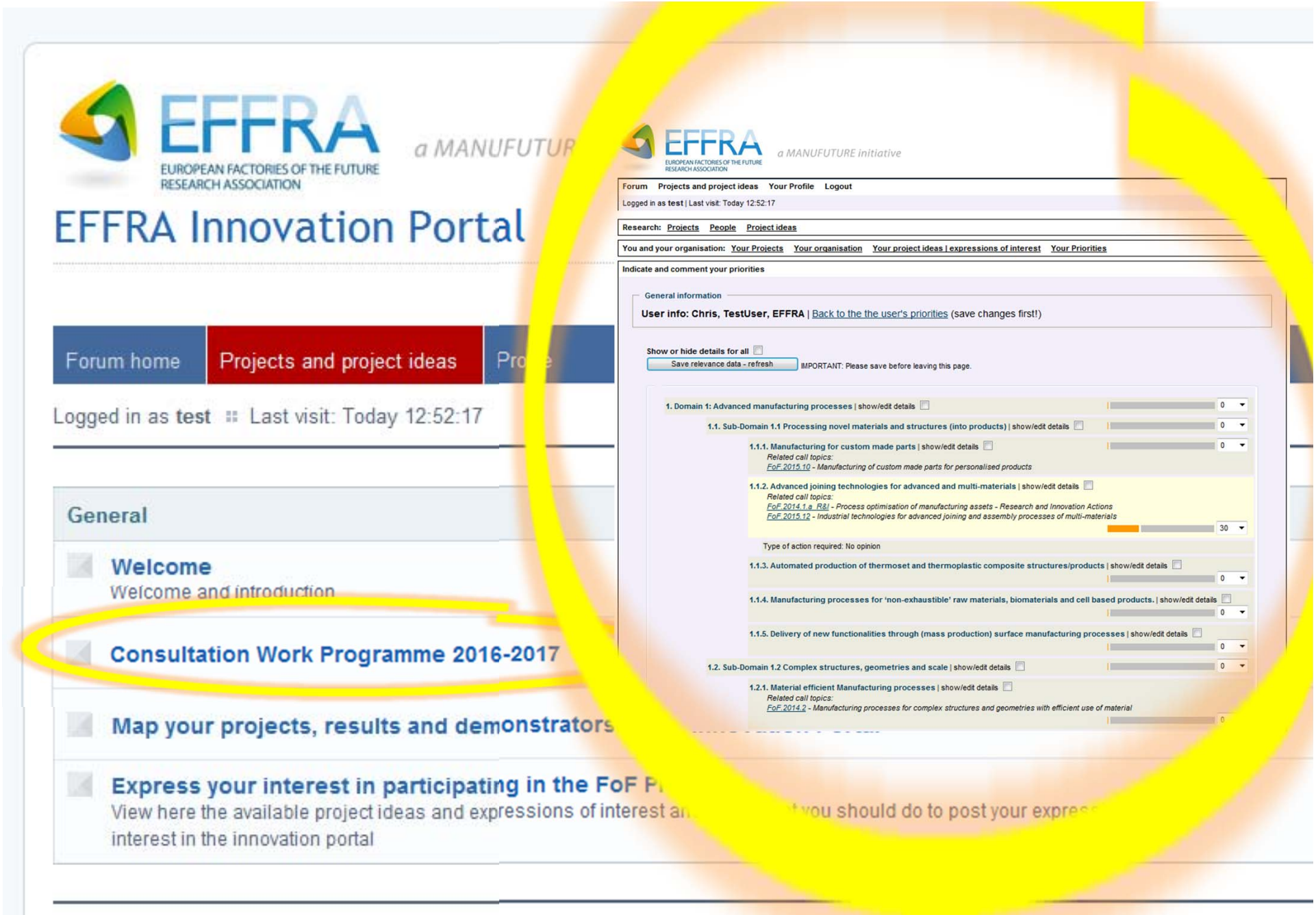
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Last visit: Today 12:52:17
General
Welcome
Welcome and introduction
Consultation Work Programme 2016-2017
Map your projects, results and demonstrators in the Innovation Portal
Express your interest in participating in the FoF PPP!
View here the available project ideas and expressions of interest and learn what you should do to post your expression of interest in the innovation portal


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Logged in as test | Last visit: Today 12:52:17
Research: Projects People Project ideas
You and your organisation: Your Projects Your organisation Your project ideas | expressions of interest Your Priorities
Indicate and comment your priorities
General information
User info: Chris, TestUser, EFFRA | Back to the the user's priorities (save changes first!)
Show or hide details for all
Save relevance data - refresh
IMPORTANT: Please save before leaving this page.
1. Domain 1: Advanced manufacturing processes | show/edit details
1.1. Sub-Domain 1.1 Processing novel materials and structures (into products) | show/edit details
1.1.1. Manufacturing for custom made parts | show/edit details
Related call topics:
FoF.2015.10 - Manufacturing of custom made parts for personalised products
1.1.2. Advanced joining technologies for advanced and multi-materials | show/edit details
Related call topics:
FoF.2014.1.a R&I - Process optimisation of manufacturing assets - Research and Innovation Actions
FoF.2015.12 - Industrial technologies for advanced joining and assembly processes of multi-materials
30
Type of action required: No opinion
1.1.3. Automated production of thermoset and thermoplastic composite structures/products | show/edit details
1.1.4. Manufacturing processes for 'non-exhaustible' raw materials, biomaterials and cell based products. | show/edit details
1.1.5. Delivery of new functionalities through (mass production) surface manufacturing processes | show/edit details
1.2. Sub-Domain 1.2 Complex structures, geometries and scale | show/edit details
1.2.1. Material efficient Manufacturing processes | show/edit details
Related call topics:
FoF.2014.2 - Manufacturing processes for complex structures and geometries with efficient use of material

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Ready for



Thank You

chris.decubber@effra.eu

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