

e-CUSTOM

A Web-based Collaboration System for Mass Customization

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Summary: This document contains the dissemination material and activities of the e-CUSTOM project. It includes the workshops and presentations performed in the project's framework, the journal and conference papers as well as the project's flyers and booklet among other material. Moreover, it documents the success factors, the disseminations and channels.

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1 MANAGEMENT BRIEF

The purpose of this deliverable is to report the dissemination activities carried out during Months 24-36 (June 2012 – May 2013) of the e-CUSTOM project and summarised the realised dissemination activities for the whole project period.

As an industrial oriented project, e-CUSTOM addressed the engineering manufacturing branch, related scientific community and identified potential end users through promotional events, internal meetings and spread demo videos. The key project target groups – industrial end users in the three reference markets (automotive, orthotics, CNC machines) have been addressed through several industrial and research events. Special attention has been given to the cooperation with other FP7 projects in the PPP programme in order to maintain the sustainability of the project results. The community of projects, part of the “Factories of the Future” initiative, has been regularly informed about on-going and planned developments.

The project website has been regularly updated by all partners.

This report is structured as follows:

- Chapter 1 is focused on the dissemination channels and key results of the project and success factors, containing information about the goal of the project in terms of recognition that remained during the project life cycle
- Chapter 2 contains the 3rd year dissemination actions, namely the performed / attended workshops, presentations, journal and conference papers and other activities
- Chapter 3 includes analysis of the realised actions for the whole project period.

Primary conclusions / results include the following:

- Dissemination Goals for 3rd year have been achieved and even improved.
- The focus of the activities during the last project year has been to promote the e-CUSTOM platform, establish connections with similar FP7 projects and communities and disseminating the e-CUSTOM results and objectives towards industry and research.
- An increase of the wide industrial sector targeting events could be seen compared to the first two years;

2 INTRODUCTION TO THE FINAL YEAR DISSEMINATION

2.1 Aim of dissemination

The aim of the dissemination activities is to create awareness of the project scope and activities, to communicate the obtained results to both scientific partners and other FP7 funded projects (to establish the basis for further research) and to European industrial partners.

This report describes the dissemination strategy, dissemination tools, achieved results and target success factors. e-CUSTOM has been active and successful in disseminating the research results and in raising awareness for e-CUSTOM results at academic and industrial level. Dissemination is considered as managing the knowledge being acquired during the project and its wide sharing contributes to the decision making we want to trigger towards the adoption of e-CUSTOM solutions. It is a clear objective of the consortium that the ability to manage and share the knowledge attained in the e-CUSTOM project is one of the measurements of its success.

The overall objectives of the dissemination of the e-CUSTOM are:

- making the results of the project well-known throughout the European industrial and scientific community
- provide necessary information to the academic and industrial community through conferences, seminars, exhibitions and workshops with related themes
- identify favourable market conditions concerning the research results for personal and organizational use at the end of the project
- provide the end users involved with a certain competitive advantage, related to the systematic recording of the expertise, gained during the project, which will actually act as a protection of their time and money investments in the research
- establish links with other projects. These links will be encouraged through the project duration. They include national and international activities involving academic industrial and professional organisations

The concrete set-up Objectives for the 3rd period can be summarised as follows:

- at least two journal publications ;
- participation to at least 2 FP7 (Factories of the Future) related events ;
- participation of at least 5 International Conferences (targeting wide spread manufacturing sector)
- organisation of at least 2 joint workshops with industrial partners

2.2 Dissemination Channels

Based on the established dissemination strategy in D7.2a, the high quality research output from the project is being disseminated through an appropriate set of channels, e.g. the internet, publications, workshops, presentations at conferences and liaisons with related projects, and especially, with the open source community and related projects. Channels

adopted for dissemination purposes are summarized below. The Table 1 includes the Passive Dissemination Activities for the 3rd year .

Passive dissemination activities	
Project booklet	The project booklet summarises the e-CUSTOM achievements for the total project period. The booklet will be printed in the end of the project and will be distributed after its end. The booklet will be distributed as main “deliverable freezing” the e-CUSTOM achievements during future events of the Factories of the Future initiatives, internal workshops by each of the participating organisations and industrial seminars where the consortium takes part. The objective is to use the project booklet as source for ensuring the sustainability of the project, and also as a base for further research and development activities in the context of manufacturing planning.
Internet Portal	Details on the web information portal are presented at D7.2a. After the end of the project, the portal will continue functioning, providing information about the project’s results and products. The URL of the project is: http://www.ecustom-project.eu
2 PhD thesis	2 PhD theses have been submitted for review during the last project year. The research dissertations reference to some of the e-Custom research activities (information management and services configurator) as source for validation and additional studies performed.
Final project video	The final project video presents the e-CUSTOM platform and demonstration scenario for all three of the e-CUSTOM use cases. The video will be used also as main information source for the project in future workshops and industrial trade participations. The video can be found at this link .

Table 1. Passive Dissemination Activities

Table 2 below includes the Active Dissemination Activities.

Active dissemination activities	
Seminars	The RTD performers as well as the users organized economic and technical seminars and events during which they presented results of e-CUSTOM. In these seminars, they report any possible pitfalls as well as any industrial sector specific problems.
Success stories	The e-CUSTOM project has been selected to present a Success Story at the FoF Impact Workshop held in Brussels at 11-12 March 2013.
Workshops, conferences, journals	Research results and technologies have been promoted at various international conferences, workshops and seminars. Results of the project are disseminated through scientific papers and contributions to journals.

Active dissemination activities	
Liaisons with related projects and initiatives	Research activities, related to the objectives of e-CUSTOM have been investigated in the preparation phase of the project in order to properly define the state of the art and mark sources that could provide useful information to e-CUSTOM. Such activities could be at National, European or International level. More specifically, there are research projects funded by the European Community under the 6th and 7th framework that can provide useful input for the technological background of e-CUSTOM. Most of the consortium members are currently involved in several EU or national funded projects and the existing liaisons will be used for dissemination. Moreover, connections with major European initiatives have been established. The consortium took part at three events, organised by the “FoF” community.

Table 2. Active Dissemination Activities

The interactive dissemination channels, like workshops, talks and lectures, networking events, symposia, and fairs are targeted for groups with a high interest and requirement for information transfer. Furthermore, feedback is gathered from industry specialists outside of the project partners, to be used for the subsequent industrialization of the project’s results. The project is also being presented at the meetings and clustering events of the European Commission. It is anticipated that *e-CUSTOM* findings and results will be value-added for adjacent research communities.

2.3 Target audience

As stated in D7.2a, the e-CUSTOM Consortium dissemination policy is targeting both the European scientific and research communities (to establish the basis for further research) and the European industrial players in the fields of Automotive, Healthcare and CNC machines.

The following table details the targeted audience for different dissemination activities planned in the project (Table 3).

Dissemination Mean	Audience
Public website	Consortium, Wider public
Publications	Academia
International Conferences	Academia and Industry
Internal presentations	Consortium and key industrial partners
Industrial Workshops	Professionals from automotive, orthotic and CNC machining

Table 3. Target audience

2.4 Dissemination Success Factors

Table 4 shows the e-CUSTOM dissemination success factors as described in e-CUSTOM Output and Impact Indicators within the knowledge-oriented impacts. The success factors have been stated at the project beginning and describe how the consortium is implementing the dissemination of e-CUSTOM project results. As depicted by this table, the e-CUSTOM consortium had been very active during the 3rd year of the project, both in the research / academic field, as well as in public events and promotion activities, resulting in a dissemination picture that by far exceeds the initial expectations.

In addition, **one of the consortium papers has been granted with “best paper award”**.

Type of Dissemination Activities	Knowledge-oriented Impact Target (Months 25-36)	Overall Achievements
Research papers at Conferences or in Journals	5/7	40% increase
Presentations at conferences or workshops	8/13	60% increase
Trade Fairs and workshops	18/22	20% increase
Number of persons visiting the e-CUSTOM Web portal	79.000/2000	390% decrease

planned / achieved

Table 4. Knowledge Oriented Impact

3 DISSEMINATION ACTIONS

3.1 e-CUSTOM Portal

As stated at D72.a, the *e-CUSTOM Project Portal* (URL: www.ecustom-project.eu) is designed in order to provide an online platform for efficient circulation of information among the partners. It is used as the central information system for all project related information and activities. It was developed on Month 06 (November 2011) of the project by LMS, according to Task 7.1 of the project (M01 - M06) and maintained and improved during the third year as well.

The website is based on the ZONE / PLONE platforms and distributed under the GNU GPL Licence. The e-CUSTOM web server consists of a private and a public part. The private part is restricted to consortium members and is utilized for internal data storage and exchange. The public part is published, advertised and accessible to non-consortium parties. The privileges (access rights) are vested to the user upon login. The goal of this portal is to promote and disseminate the project's results. The consortium will continue improving the web portal all through the duration of the project. After the end of the project, the portal will continue functioning, providing information about the project's results and products.

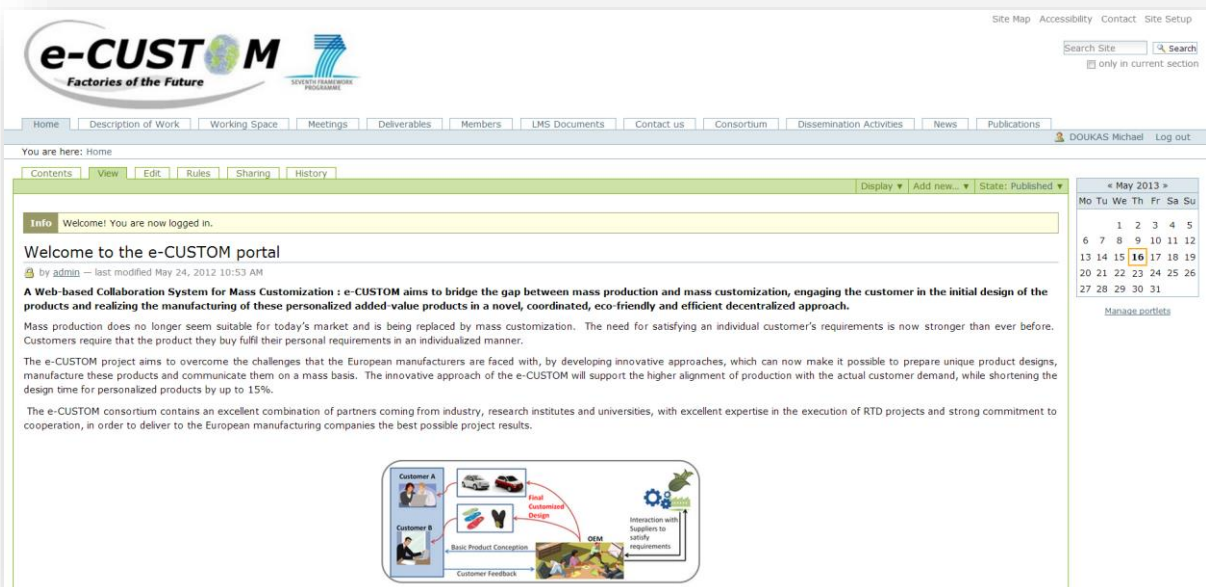


Fig. 1. e-CUSTOM Project Portal Home Page

A special section is devoted for the dissemination activities of the project and is open to the public at this [link](#)

As one of the main project objectives (ref. DoW) is to address its methodology and software to established industrial practice, the methodology needs to be disseminated among potential users. In the following sections the dissemination activities of the e-CUSTOM partners during the last project year are presented.

During the last year of the e-CUSTOM project three journal papers (Table 5) and several conferences proceedings have been submitted (Table 7). One conference paper has been awarded with “Best Paper Award” at the **Advances in Production Management Systems** Conference. A research audience of more than 1,000 scientists has been reached through direct presentations or information sharing.

In addition, research methodologies performed in the field of information integration and need for sustainable customer solutions analysis have been validated in the frame of the e-CUSTOM final phase, which enabled the finalization of 2 dissertations within the IMI (Table 6).

The consortium took part in more than 20 joint workshops or meetings with industrial partners and organised more than 5 similar events with parties from the manufacturing industry.

The relation to other EU projects and proper communication to the European Institutions has been improved through the e-CUSTOM participation in 3 joint events. At one the consortium has been invited as example for “success story” which clearly shows the recognition for the project achievements.

Additional to the plan established in D7.2.b, the project members initiated the creation to a project booklet that will serve as main information source for wide public after the project end.

Detailed on the presented activities are stated in the following tables.

3.2 Research targeting dissemination activities

3.2.1 Journal Publications

No	Title of the periodic	Title of the publication	Authors list	Publisher	Link	Partners involved
1	CIRP Annals - Manufacturing Technology	A multi-criteria evaluation of centralized and decentralized production networks in a highly customer-driven environment	D. Mourtzis, M. Doukas, F. Psarommatis	Elsevier	http://www.sciencedirect.com/science/article/pii/S0007850612000376	LMS
2	Logistics Research	Decentralized Manufacturing Systems Review: Challenges and Outlook	D. Mourtzis, M. Doukas	Springer	http://link.springer.com/article/10.1007%2Fs12159-012-0085-x	LMS
3	CIRP Annals - Manufacturing Technology	Design and Operation of Manufacturing Networks for Mass Customisation	D. Mourtzis, M. Doukas, F. Psarommatis	Elsevier	http://www.sciencedirect.com/science/article/pii/S0007850613001273	LMS

Table 5. Journal Papers

3.2.2 PhD thesis

Title	Author	Status	Partner
Semantische Informationsintegration - Konzeption eines auf Beschreibungslogiken bazierenden Integrationssystems für die Produktentwicklung	V.Bittel	submitted; waiting for review	IMI
Design for Customer: Methodik für nachhaltige Kundenlösungen unter Zuhilfenahme eines bedürfnisorientierten Leistungskonfigurators	Al. Burger	submitted; waiting for review	IMI

Table 6. Submitted Dissertations

3.2.3 International Conferences papers and presentations

No	Conference Name	Location, Date	Title of the paper/presentation	Author	Type of audience	Size of audience	Partners involved	Comments
1	Advances in Production Management Systems (APMS 2012)	Rhodes, Greece, 24-26 September 2012	Best Paper Award: Simulation-based design of production networks for manufacturing of personalised products	D. Mourtzis, M. Doukas, F. Psarommatis	Academia - Industry	500	LMS	http://www.mckn.eu/2012/10/s-mc-s-at-the-apms-2012/
2	ProSTEP iViP symposium	Hamburg, Germany, 09-10.05.2012		S. Minhas	industry, science	50	BTU Cottbus, LMS	http://www.prostep.org/en/events/symposium/symposium-2012.html

No	Conference Name	Location, Date	Title of the paper/presentation	Author	Type of audience	Size of audience	Partners involved	Comments
3	Robust Manufacturing Control (RoMaC 2012)	Bremen, Germany, 18-20 June 2012	Environmental impact of centralised and decentralised production networks in the era of personalisation	D. Mourtzis, M. Doukas, F. Psarommatis	Academia - Industry	200	LMS	http://old.cirp.net/index.php?option=com_jcalpro&Itemid=27&extmode=view&extid=143
4	J&M Executive Conference	Karlsruhe, 10.05.2012	Study: Competition by diversifying services	Al.Burger	Industry	15	IMI	http://www.imi.kit.edu/1241.php
5	Robust Manufacturing Control (RoMaC 2012)	Bremen, Germany, 18-20 June 2012	Full paper: Decentralized Manufacturing Systems Review: Challenges and Outlook	D. Mourtzis, M. Doukas	Academia - Industry	200	LMS	http://old.cirp.net/index.php?option=com_jcalpro&Itemid=27&extmode=view&extid=143
6	4rth International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management	Barcelona Spain , October 4-7 2012	Development of Intelligent Assistance System to Support Eco-efficient Planning	S. Minhas, U. Berger	Research and Academia	270-350	BTU Cottbus	http://www.ic3k.org/

No	Conference Name	Location, Date	Title of the paper/presentation	Author	Type of audience	Size of audience	Partners involved	Comments
7	Procedia CIRP, 45th CIRP Conference on Manufacturing Systems 2012	Athens, Greece, 16-18 May 2012	Design and planning of decentralised production networks under high product variety demand	D. Mourtzis, M. Doukas, F. Psarommatis	Academia - Industry	200	LMS	http://www.sciencedirect.com/science/article/pii/S2212827112002090
8	World Academy of Science WASET 2012 Berlin	Berlin Germany, Sep. 19-20, 2012	Elicitation of Requirements for a Knowledge Management Concept in Decentralized Production Planning	S. Minhas, C. Juzek, U. Berger	Research, Industry and Academia	160-200	BTU Cottbus	http://www.waset.org/programs/Berlin12.pdf
9	Procedia CIRP, 45th CIRP Conference on Manufacturing Systems 2012	Athens, Greece, 16-18 May 2012	Full paper: A web-based platform for customer integration in the decentralised manufacturing of personalised products	D. Mourtzis, M. Doukas	Academia - Industry	200	LMS	http://www.sciencedirect.com/science/article/pii/S2212827112002090
10	Procedia CIRP, 46th CIRP Conference on Manufacturing Systems 2013	Setubal, Portugal, 29-31 May 2013	Manufacturing Network Design for Mass Customization using a Genetic Algorithm and an Intelligent Search Method	D. Mourtzis, M. Doukas, F. Psarommatis	Academia - Industry	300	LMS	http://www.lms.mech.upatras.gr/LMS/publications/proceedings
11	23rd International Conference Flexible Automation and Intelligent Manufacturing	Porto, Portugal, 26-28 June 2013	Full paper: Design of multi-stage manufacturing networks for personalisation using meta heuristics	D. Mourtzis, M. Doukas, F. Psarommatis, N. Panopoulos	Academia - Industry	500	LMS	http://www.faim2013.org/

No	Conference Name	Location, Date	Title of the paper/presentation	Author	Type of audience	Size of audience	Partners involved	Comments
	(FAIM 2013)							
12	ProSTEP iViP symposium	Hannover, Germany, 16-17.04.2013		S. Minhas	industry, science	60	BTU Cottbus	http://www.prostep.org/en/events/symposium/symposium-2013.html
13	Information day for R&D transfer through norms and standards	Berlin, Germany, 18.02.2013		S. Minhas	industry	30	BTU Cottbus	N/A

Table 7. Conference and workshops proceedings

3.3 Industry and wide public targeting dissemination activities

3.3.1 Industrial Trades and Workshops

No.	Event	Location, Date	Title of the presentation	Partner involved	Type of audience	Size of audience	Link
1	“Patras Innovation Quest” (Patras IQ 2012),	Patras, Greece, 8-9 December 2012	e-CUSTOM Project Presentation and Poster	LMS	Industry, Academia	200	http://www.enorasis.eu/news/24
2	Automotive CAE Grand Challenge 2012	Hanau, Germany, 03-04.04.2012		LMS	Automotive industry	50	http://www.carhs.de/de/training/seminar_functions.php?sem_code=2071
3	International Fair for Automation in Production and Assembly (31nd Motek)	Stuttgart, Germany, Oct.2012	Stand Participation: e-CUSTOM Poster presentation and leaflets distribution	IMI	Production and product engineering	1100	http://www.motek-messe.de/en/news/detail/ansicht/31-motek-peilt-ueber-1000-aussteller-an/
4	MS 2012: Mass Customization Conference	Salzburg, 28-29.06.2012	Stand Participation and project leaflets distribution	IMI	personalised products industry	120	http://www.amiando.com/mc2012.html
5	Trójmiejskie Targi Pracy	Gdańsk, Poland, 23-24.04.2012		LMS	industry	20	N/A
6	Internal workshop with key industrial partners	Karlsruhe, 20.01.2012	e-CUSTOM Project and results presentation	IMI	production planning consulting industry	10	http://www.imi.kit.edu/1241.php

No.	Event	Location, Date	Title of the presentation	Partner involved	Type of audience	Size of audience	Link
7	Simvec	Baden-Baden, Germany, 20-21.11 2012		LMS	Automotive industry, production engineering	30	http://www.esi-group.com/corporate/events/2012/simvec-2012
8	Orthotics technology forum, organized by DELCAM	Georgia Institute of Technology, Atlanta, 2012		DELCAM	Orthotics industry	350	http://www.orthotics-technology-forum.com/
9	Information day for R&D transfer through norms and standards	Berlin, Germany, 18.02.2013		BTU, LMS	Industry, EU institutions	30	N/A
10	Internal meeting: Visit by Unity AG	Stuttgart, Germany, April 2012	e-CUSTOM Project presentation	PdTec	industry	5	N/A
11	PD Tec University	Bad Dürkheim, Germany, 21-23.08.2012	e-CUSTOM Project Results presentation	PdTec	Academia, industry	25	N/A
12	Hannover Exhibition 2013	Hannover 08-12 April 2012	e-CUSTOM Project: A web based collaboration system for mass customization	BTU	Professionals, Researchers, Students	50	http://www.hannovermesse.de/en/about-the-trade-show/facts-figures/profile/hannover-messe-2013-overview
13	Join workshop with key partners from the Automotive industry: Daimler and Audi	Karlsruhe, 10.01.2012	Presentation title: Trends in the research for personalized cars	IMI	Automotive industry	8	N/A

No.	Event	Location, Date	Title of the presentation	Partner involved	Type of audience	Size of audience	Link
14	Symposium "Interconnected Automation "HTW Berlin - University of Applied Sciences	Berlin Germany, 22.02.2013	Future of Automation (Zukunft der Automatisierungstechnik)	BTU	Academic Staff and related researchers	12	Internal meeting
15	Joint Meeting with Fraunhofer Institute for Factory Operation and Automation	Magdeburg Germany, 11.03.2013	Smart Production	BTU	Scientific Researchers, Academic Staff	20	Internal meeting
16	BIEHM	BILBAO, Spain May 28th- June 2th, 2012	Leaflets distribution	TECNALIA	automation of production systems; quality control services	150	http://www.biemh.com/
17	Internal presentation	PRIMA Collegno, Jan 2012	Project update Presentation and Company work set	PRIMA	Production Manager Production Engineer Manager Logistic and Purchasing Manager	3	Internal meeting
18	Internal presentation	PRIMA Collegno, Sep 2012	Project presentation and Proposal of the CNC Pilot Case add on	PRIMA partners	R&D 2D and 3D Managers	2	Internal meeting

No.	Event	Location, Date	Title of the presentation	Partner involved	Type of audience	Size of audience	Link
19	Internal presentation	PRIMA Collegno, Dec 2012	Project Presentation and Company exploitation analysis and work set	PRIMA partners	ICT Manager Laser System Product Manager Logistic and Purchasing Manager	5	Internal meeting
20	Internal presentation	PRIMA Collegno, Feb 2013	Project Presentation and use of SW platform	PRIMA partners	Production Engineer Manager	3	Internal meeting
21	Integrierte Werschöpfungs Planung Workshop	Karlsruhe, Germany, 12.12.2012	Integrated value chain planning workshop, organized by IMI	IMI	Academia, regional automotive and engineering industry	50	Internal meeting
22	Joint Workshop with FDIBA	Karlsruhe, Germany, 17-18. Dec.2012	Workshop with scientific staff from Eastern Europe, organized by IMI	IMI	Academia	25	Internal meeting

Table 8. Industrial workshops

3.4 Networking activities

3.4.1 Joint activities with other FP7 Initiatives

No.	Event	Location, Date	Activity/ Topic	Type of audience	Size of audience	Partners involved	Link
1	Success story event	Brussels, Belgium, 11-12 March 2013	The e-CUSTOM project (A web based collaboration system for mass customization), which he currently manages (Project Manager) was evaluated together with 98 other FP7 FoF research projects and was selected as a Success Story that was presented at the FoF Impact Workshop	Industry, Academia, Commission	500	LMS	http://ec.europa.eu/research/industrial_technologies/events-fp7-draft-programme-2010_en.html
2	2nd Workshop on Impact of the Factories of the Future PPP	Brussels, Belgium, 15-16 March 2012	e-CUSTOM Project Presentation in Session 1: Sustainable Manufacturing and Session 6: Effectiveness of Results take-up	Industry, Academia, Commission	500	LMS	http://ec.europa.eu/research/industrial_technologies/pdf/fof-ppp-workshop-march-2012_en.pdf
3	2nd FP7 NMP Manufacturing Management Projects Workshop	Glasgow, Scotland, 20-22 March 2012	Clustering of the e-CUSTOM project with six other projects. Presentation: "e-CUSTOM: Unique Products for Unique Customers"	Industry, Academia, Commission	20	LMS	http://www.ecustom-project.eu/events

Table 9. Networking events

4 CONCLUSIONS

This document described the dissemination activities of the third year of the e-CUSTOM project. The designed material (booklet) will be used also after the project end to raise awareness of the e-CUSTOM achievements and inform the European community of the research and industrial results of the project.

Error! Reference source not found. summaries the performed activities per category and shows the dominate role of industry oriented dissemination activities during the period. Considering the ratio between the planned and realised activities and the excellent performance of the consortium during the last project year, as stated in Table 4. Knowledge Oriented Impact, the consortium achieved at more than 150% it objectives for the final project year.

In additional to the plan for the final year:

- a project booklet has been initiated (after the submission of the Dissemination report for Year 2) and produced by the end of the project;
- One of the consortium's conferences papers has been awarded with "Best paper" ;
- 2PhD thesis have been submitted;
- Film and Demo video published;
- Specific efforts to increasing the networking with other projects and EU initiatives have been done in order to ensure the project sustainability and promotion;
- Scientific audience with more than 1000 researchers has been reached.

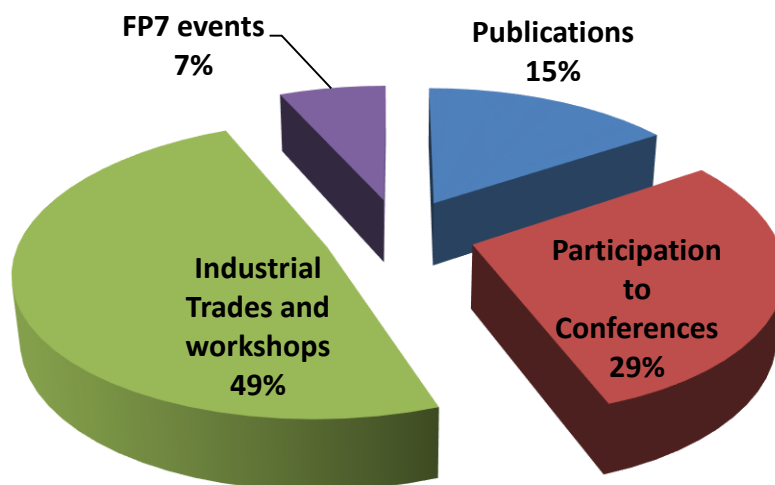


Fig. 2. Ratio between activities

5 CONCLUSION FOR THE E-CUSTOM DISSEMINATION ACTIVITIES

5.1 Knowledge-oriented impact

As depicted by Table 10, the e-CUSTOM consortium had been very active in these 3 years of the project, both in the research / academic field, as well as in public events and promotion activities, resulting in a dissemination picture that by far exceeds the initial expectations.

The analysis of the overall achievements of key dissemination events shows a constant improvement of the performance. The effectiveness of the overall performed activities has been recognized by the excellent research results and invitation as “success story” at the annual FoF conference.

Type of Dissemination Activities	Knowledge-oriented Impact Target vs. Achieved (Months 01-12)	Knowledge-oriented Impact Target vs. Achieved (Months 13-24)	Knowledge-oriented Impact Target vs. Achieved (Months 25-36)	Overall Achievements
Research papers at Conferences or in Journals	2/3	9/6	7/7	18/16
Best paper award	n.a	n.a	1/1	1/1
Presentations at conferences or workshops	13/8	7/8	13/8	33/24
Trade Fairs and workshops	-/-	4/1	22/18	26/19
Number of persons visiting the e-CUSTOM Web portal	8.000/400	35.000/800	79.000/2000	152.000/3.200

achieved / planned

Table 10. Overall Knowledge-oriented impact

5.2 Geographical distribution of the activities

The e-Custom consortium has been active to cover as maximum presence at European conferences and industrial congress. Some participation in non-European countries has been also performed, however it remains minor to the overall dissemination activities. The countries in blue from the following figure represent the one where dissemination actions have been concentrated. They include not only national countries of the consortium members but also such from Central and East Europe. Activities in Brussels have been also primer during the project life cycle.



Fig. 3. European dimension of the performed activities

5.3 Realised actions

The realised dissemination activities during the e-Custom life in a numerical form are presented on Fig. 4. Dissemination actions per target **group**. Efforts to combine all actions from the three years in common categories have been done in order to provide a systematically approach for the final analysis.

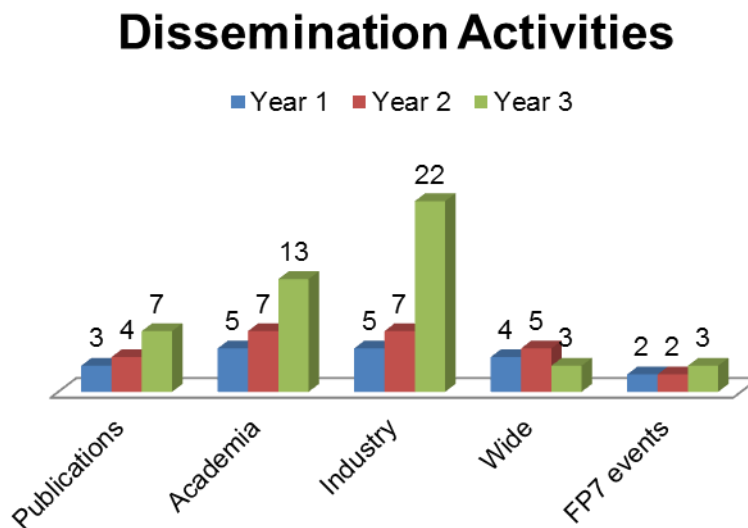


Fig. 4. Dissemination actions per target group

The first year of the project has been concentrated at participation at research conferences and meetings with organisations from the manufacturing sector. The second year increased the publications, participation to FoF events and participation international industrial congresses and workshops where e-Custom results have been demonstrated. The third year of the project marked a considerable increase in publishing and networking activities. An attempt to target more the three project markets can be observed also during the third project year of execution.

In total, more than 3,500 scientists and engineering professionals have been reached through dissemination activities.

As shown in Fig.5, the visits on the e-Custom portal have been also considerably increased during the last project period.

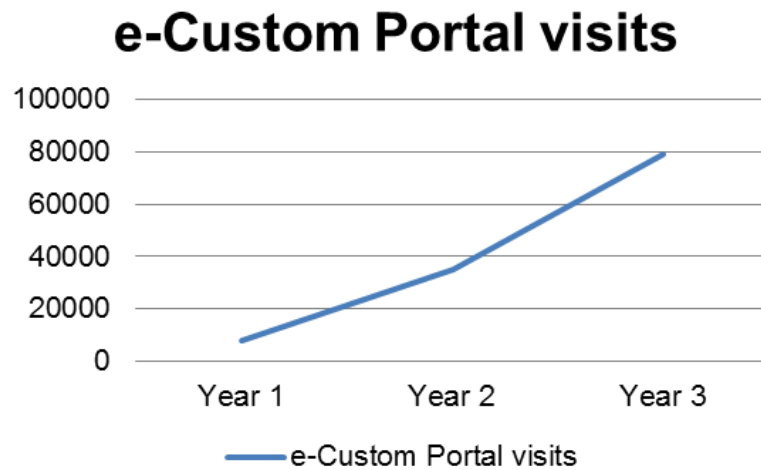


Fig. 5. Realised visits on the project website

ANNEX

The hyperlink below directs to the e-CUSTOM dissemination booklet. Please note that the annexed PDF and the current one must be placed in the same local folder at your PC, in order for the hyperlinks to be functional.

[e-CUSTOM Dissemination Booklet](#)