

PROJECT FINAL REPORT

Grant Agreement number: 229935

Project acronym: PLASTIVAL

Project title: *RTD-based Cluster initiative to target future challenges of the Valencia plastic processing industry*

Funding Scheme: CSA

Period covered: from 01/01/2009 to 31/12/2010

Name of the scientific representative of the project's co-ordinator¹, Title and Organisation:

Mr. Francisco Ferrando Casanova. Head of the International Department. IMPIVA (Instituto de la Pequeña y Mediana Industria de la Generalitat Valenciana).

Tel: +34 963 986 230

Fax: +34 963 986 201

E-mail: francisco.ferrando@impiva.gva.es

Project website address: www.plastival.org

¹ Usually the contact person of the coordinator as specified in Art. 8.1. of the Grant Agreement.

4.1 Final publishable summary report

Executive Summary

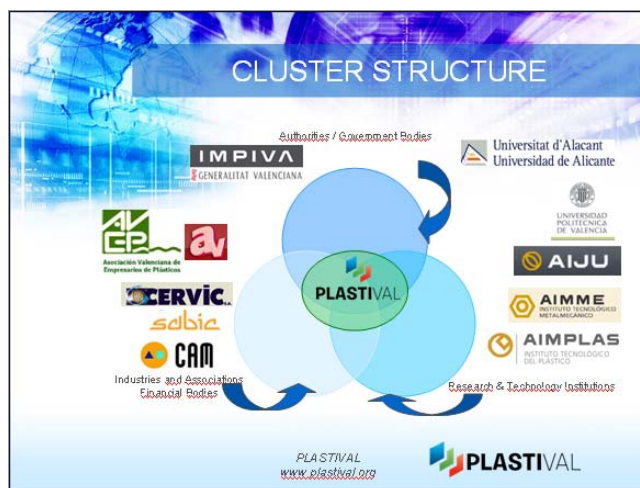


The PLASTIVAL project started in 2009 as an EU funded project in the domain of Regions of Knowledge in order to enhance competitiveness and innovation among the plastic sector of the Valencian Region. The project focused on the creation of a cluster structure with the aim of being the seed of an RTD (Research and Technology Driven) Cluster. What started as a project consortium finished as a legal constituted cluster in the Valencian Region (December 2010), which can be assessed as the biggest impact of this project.

Through the PLASTIVAL project, the bases for the already constituted cluster were settled. The project, in general terms, performed activities in two phases. The first one gathered information about the plastic sector environment from different points of view (from industry to research and technology centres) and issued a set of Technical Reports and a RTD Roadmap with proposed actions for the next future.

These Technical Reports consisted in reviews of: Technology Needs, Market Trends, State of the Art of the Technology and CO2 and environment related issues. These reports included the point of view from the different stakeholders in the plastic sector and they represent the starting point for the cluster activities. It is worth mentioning that the aim has always been to enhance competitiveness and innovation in plastic sector and plastic industries through RTD activities and projects. All these technical reports lead to a final RTD Roadmap document which is the starting point for the cluster. With the actions stated in the RTD Roadmap, the PLASTIVAL cluster can start working on different axis which are of interest for the future of the regional industry.

The second phase was focused on the dissemination and promotion of the cluster structure, the results of the technical reports and the actions to be taken in order to improve competitiveness and innovation in the plastic sector. Apart from publication of articles and promotion through bulletins, magazines and other tools from any of the partners, national and international activities were carried out: congresses, fairs, conferences and workshops.



In order to complete the cluster creation process some mentoring activities were performed in order to find best practices from experienced European plastic clusters as PLASTIPOLIS (French cluster) or CLUSTERLAND (Austrian cluster). A visit to PLASTIPOLIS was organised in order to learn about the creation and the daily management of an RTD Cluster.

EU funding has been a key factor in the creation of the PLASTIVAL cluster. EU support boosted the process by helping in setting the basis to the cluster. It is relevant to start cluster activities having a defined RTD Roadmap and a real sight of the plastic sector environment. Hopefully, this cluster will help to improve competitiveness and innovation in the Valencian Region plastic sector

Summary description of project context and objectives

The plastic industry faces many challenges, although the use of plastics grows with news opportunities and applications. To take advantage, SMEs have to innovate and diversify business offer. Clusters assist this process by joining technical centres to monitor technological development, and suppliers of equipment and materials to improve competitiveness.

The plastic processing industry in the Valencian Region supplies to a large number of industries such as the toy, footwear and textile sectors who face the same issues; fierce competition forces these industries to invest heavily to develop new and innovative products and processes, compete on an international level and with more high-tech companies.

The creation of a **Research Driven Cluster, PLASTIVAL**, enables dialogue between different actors, transfer good practice and common strategy development. Besides, the plastic processing industry requires little initial capital, is labour intensive and is not tied to a particular location unlike the plastic production industry. It is an industry to develop and stabilise economies and create local jobs.

PLASTIVAL general objective is to **unite the main regional actors of the plastic processing industry to develop specific actions which will drive to a research driven cluster**, in order to target and **face the future challenges of the Valencian plastic processing industry**

Following the approach of working with leading organisations in the plastics industry, the main objectives for the PLASTIVAL project are:

- Elaborate an RTD roadmap for the next years
- Identify concrete RTD projects, taking into consideration environmental aspects related to the reduction of CO2 emissions
- Create the operational framework for the cluster
- Guarantee its financial sustainability

The above-mentioned activities are aimed at generating strategic RTD cooperation projects that help SMEs to develop new products and processes and herewith boost the competitiveness of the Valencian SMEs that will lead to an increase of the economic development of the region, in order to participate fully in an industrial sector with great growth potential in Europe taking into account the potential future applications of their products

Description of the work performed and main results achieved

Activities leading to an RTD (Research and Technology Driven) Roadmap for the PLASTIVAL cluster were planned and performed. Most important activities in this sense have been:

- **Development of an Internet Portal:** The internet domain www.plastival.org was set up as the PLASTIVAL project website. It is an introduction to the project and a tool for the promotion strategy of the cluster. It also includes a private intranet part with further features for the cluster management.



- **Organisation of a Steering Group and an Advisory Committee:** Through partners of the consortium, meetings and contacts, a Steering Group for the management of the project was established. An Advisory Committee was also set up in order to receive their opinions and advices for the strategy and activities of the project.
- **Development of a Strategy and Dissemination Plan:** A plan for performing the dissemination of the PLASTIVAL cluster project was set up. Different activities were performed under this plan: Press releases, event participation, articles in specialized magazines, presentations, etc. A Final Plan for Dissemination and Use has been issued (Deliverable 3.7) at the end of the project. This Final Plan shows the high number of actions and activities carried out by all the partners of the PLASTIVAL project.

Some figures are:

- o Regarding events, more than 800 people attended, so brochures were directly distributed to people attending from industry, research centres or other institutions. Indirect distribution has also been done regarding brochures (e.g.:fairs).

- o Regarding fairs and international events, more than 500 people are estimated that have visited the stands from any of PLASTIVAL partners at different fairs.
- o Regarding Articles, websites and bulletins (paper or electronic) the audience receiving these promotional issues is very wide. It can be said that more than 10 000 people receives issues of any of the tools used by the PLASTIVAL partners, so the cluster itself can guarantee a good dissemination and marketing performance.
- **Development of Promotional Material:** A logo, brochures, the website, a template and a brief presentation for the PLASTIVAL consortium have been developed. With these resources, a promotional material support package is available for the strategy and dissemination plan. 1500 brochures were printed in 2009 and 1500 magnetic blackboards have been issued at the end of the project, December 2010, as promotional material.



* Real scanned brochure final version



* PLASTIVAL Logo set Design.

Participation in events promoting PLASTIVAL cluster project: In order to be present at events and to perform promotional strategies some events have been included in the strategy and dissemination plan. Representatives from PLASTIVAL have attended, events like Manufuture (Sweden), MIDEST (France), Cphi (Madrid), INTERCLUSTER (Brussels) and K-Fair 2010 (Dusseldorf). At national and regional level two events have been organised, an international congress held in the region BIOPOL 09, and several conferences & workshops organised in the frame of the PLASTIVAL cluster project.

Technical activities gathering information from the sector:

Identification of Technology Needs: A report identifying needs of some activity subsectors from the plastic field in the Valencian Region was realized together with representatives from different plastic industries in the region. An Expert Panel activity was organized for gathering information and assessing technology needs. Subsectors (in the plastic field) considered are *Wood plastic composites, Recycled plastic for food packaging, New plastic materials, Opportunities for the medical sector, Injection moulding and Rapid Manufacturing*. (See Dvble. 2.1)

Identification of Market Trends: Research report about plastic market trends identifying the most important markets of the sector, with the aim of providing plastic sector SMEs a useful guide to their strategic decisions. In the report there is a detailed analysis of the current situation and of the most relevant trends for each one of the most important markets of the sector according to the more important statistic data known on the sector. (See Dvble. 2.2)

Identification of State of the Art technologies: The report includes an introduction corresponding to an overall view of the Valencian Region plastic industry. Then, the report shows different technologies to identify the state of the art of different plastic subsectors considered. These subsectors are key factors for the polymer converting industry in the region, and they are: Packaging, Building & Civil Engineering Plastics, Automobile industry Plastics, Health and Medical Industry Plastics, Injection Moulding and Rapid Manufacturing. (See Dvble. 2.3)

Environmental / CO2 Emissions Report: A report including the Valencian Region Strategy regarding CO2 emissions and a research on how the regional industry is working against environmental problems (Energy Saving, CO2, recycling, use of recycled material, etc.). (See Dvble. 2.4)

RTD Roadmap: With the information gathered in previous reports, a Research and Technology Driven Roadmap is being drafted these days. It will include a set of proposals for concrete RTD projects and actions that aim to transfer technology between the project partners and agents (mainly focused on technology transfer from R&D centres to SMEs). For drafting this RTD Roadmap, the same six technology axis for previous reports have been followed and actions proposed were classified under these axis. (See Dvble. 2.5)

As a brief summary, the following topics have been identified through this RTD Roadmap. These topics will be the basis to set up actions and RTD projects:

- o Axis 1: Recycled Plastic for food packaging
- o Topics:
 - Technological Support
 - Investment. Costs
 - Human resources, technical and specific training.
 - Regulations, standards and legal issues.

- o Axis 2: Wood Plastic Composites (WPC)
- o Topics:
 - Technological requirements
 - Marketing and commercial issues
 - Regulations, standards and legal issues.
 - Investment. Costs
 - Human resources, technical and specific training.

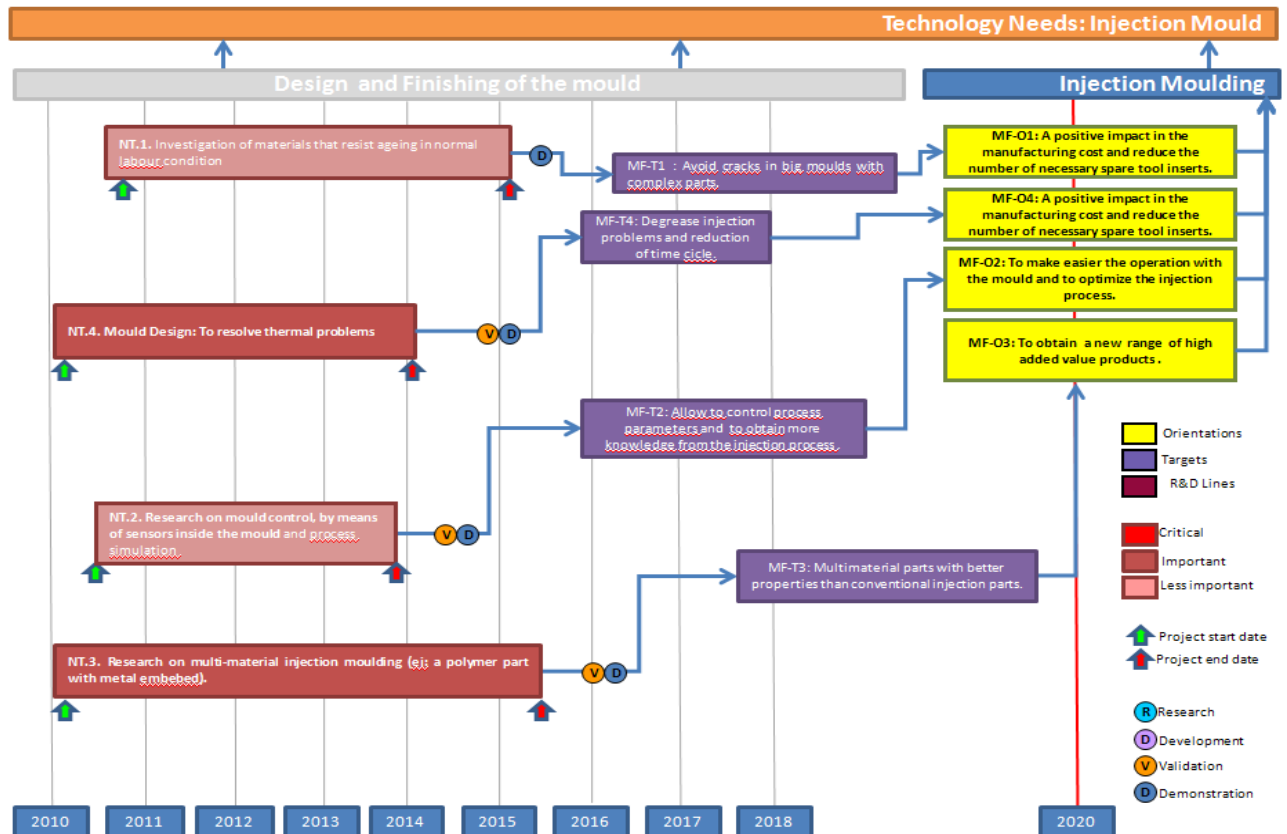
- o Axis 3: Automobile Industry
- o Topics:
 - Biomaterials
 - Human resources, technical and specific training.
 - Cooperative projects
 - Innovation in management and operation processes (Procurement)

- o Axis 4: Health and Medical Industry
- o Topics:
 - Facilities and requirements.
 - R&D in healthcare products
 - Empowering human resources
 - Company-customer communication channels
 - Company-customer business channels
 - Regulations, standards and legal issues.

- o Axis 5: Injection Moulding
- o Topics:
 - Automation
 - Mould design
 - Multimaterial injection

- o Axis 6: Additive Manufacturing
- o Topics:
 - R&D in traditional injection materials
 - R&D new materials
 - Technology development independently of providers
 - Repetitiveness technologies

PLASTIVAL Injection Moulding Roadmap (1 de 2)



Example of RTD topics and actions from the Deliverable 2.5 RTD Roadmap

Plastic Industry Outlook: A report with information about the plastic sector in the Valencian Region. There is a study of the national context, a study about the Valencian Region situation and an overview of the international business in relation to the Valencian Region (trade balance, import, exports, etc.). The report is completed with information about the authorities and research entities in the region and with the case of the Valencian Plastic Association Members. (See Dvble. 3.4)

Visit to PLASTIPOLIS: As a mentoring activity and with the aim of learning from an experienced cluster in the plastic sector, a visit to the French cluster PLASTIPOLIS was performed. During the visit, good practices were detected and discussed with PLASTIPOLIS representatives in order to assess about its implementation. The visits were also very interesting for establishing international contacts and for finding potential partners and projects. (See Dvble. 4.1).

The visit was performed aiming at the following objectives:

- o Knowing the relationship of the French cluster with technology centres
- o Establishing contact with PEP (Pôle Européen du Plastique)
- o Knowing international activities that are being performed by PLASTIPOLIS
- o Acquiring information regarding organisational issues for setting up the cluster.
- o Finding good practices from an experienced cluster
- o Receive some “mentoring” regarding the setting up of the cluster and applying good practices to the actions under PLASTIVAL Cluster in Valencian Region.
- o Assessing with PLASTIPOLIS how to put into practice these good practice taking into account Valencian Region special features.
- o Establishing international contacts with different institutions and plastic companies.
- o Finding synergies and possibilities of cooperation with potential partners.



Visit from PLASTIVAL representatives to CIRFAP Training Centre



Visit from PLASTIVAL representatives to CIRFAP Mobile training unit



Plastipolis meeting with Patrick Vuillermoz and David Sasso, at their Headquarters in Oyonnax.

Good practice Report: A good practice report was drafted in order to gather all the good practices detected through the visit to the French cluster. A short analysis about the implementation of these good practices in the Valencian Region was also included in the report. (See Dvble. 4.2)

Cluster Set Up: At the end of 2011, **the cluster was established as a legal entity**. During the project, regional government has given full support to manage and coordinate the creation of the cluster. (See Dvble. 4.3)

To carry out these activities, coordination meetings, technical meetings, participation in events for promotion, conferences and workshops with companies have been organized. These activities have been supported with the promotional material developed (logos, brochures, presentation templates and a website).

Potential Impact. Main dissemination activities and exploitation of results.

As a summary and assessment for the impact of main dissemination activities carried out, different metrics can be analysed. Below, there are figures and results regarding different actions performed (*Tools, Technical Reports, Events and Visits, Publications and Dissemination*):

Tools: The following items were developed during the project:

- Website (Including Intranet for partner communication): The website includes all the public deliverables issued by the project. (www.plastival.org)
- Logos and presentation templates were designed for the promotional material and further dissemination activities performed
- Promotional material was designed:
 - o 1500 brochures in both English and Spanish (First promotional material release)
 - o 1500 magnetic blackboards (End project promotional material release)



Sample of Magnetic Blackboard designed.

Technical Reports: Technical Reports were not a tool itself to increase awareness but, as the consortium collaborated with the industry and research institutions in order to draft good technical reports, an awareness effect derived from these reports.

More than 100 people and more than 35 companies were involved in the drafting process for these technical reports.

Events and Visits: Regarding events and visits, this is the most powerful tool for an effective awareness because they involve people attendance to an event, fair or visit focused on PLASTIVAL's issues.

As a result, the following items can be highlighted:

- Three thematic conferences were organized
- Meeting with high level regional authorities
- 19 events were attended (fairs, congresses, presentations and conferences, at national and international level. See *Deliverable 3.7 Final Dissemination Plan*)
- Visit to the French cluster PLASTIPOLIS.
- Meeting with the Austrian cluster CLUSTERLAND during a Fair.

More than 500 hundred people at national and international level have been contacted through fairs and international events. If we consider people attending to other events, it has been estimated around 800 people.



PLASTIVAL Presentation and Expert Panel

Fairs and Events (National and International):

Date	Event	Details
05/03/09	New materials Forum – Alicante, SPAIN.	Event for presenting new materials to Industry, Researchers and any other institution attending.
24-25/09/09	European Tooling Forum – Milán, ITALY.	Event organized by the european technology platform Manufuture.
30 Sept – 2 Oct 2009	BIOPOL - Alicante, SPAIN.	International Congress on biodegradable polymers. Promotion of PLASTIVAL project.
13-15/10/09	CPhI Worldwide – Madrid, SPAIN	International Convention on Pharmaceutical Ingredients and intermediates. Horizontal areas like packaging, blisters and plastic-pharma related technologies are also covered in this International convention.
15/10/09	International Congress on Composites – Valencia, SPAIN.	Congress on plastic composites as key factor for the plastic industry.
16-18/10/09	Feria China Pec - Taizhou, CHINA	International trade fair for Plastic and rubber

3-6/11/09	MADERALIA – Valencia , SPAIN.	International fair in the wood sector.
04/11/09	IDINOVA Fair – Valencia, SPAIN.	Innovation, research and development applications fair.
05/11/09	MIDEST - Paris, FRANCE.	Industrial international fair
30/11/09-1/12/09	MANUFUTURE – Goteborg, SWEDEN.	Manufuture Technology Platform Annual Event.
3-4/12/09	INTERCLUSTER – Brussels, BELGIUM.	Cluster event. More than 30 clusters involved at european level.
June 2010	How to save Energy in your company. Valencia, SPAIN.	Event for plastic companies
Sept 2010	Funding opportunities for plastic industries in the 7FP. Valencia, SPAIN	Event for plastic companies
Sept 2010	Plastic Packaging for agrofood applications. Valencia, SPAIN.	Event for plastic companies
14/10/10	Recycling, energetic valorisation and plastic wastes. Valencia, SPAIN.	Event for plastic companies
20/10/10	Wood Plastic Composites. Valencia, SPAIN.	Event for plastic companies
27/10/10 – 3/11/10	K FAIR 2010 – Dusseldorf, GERMANY	International Fair on plastics. Promotion of the cluster. Partner Search. Meeting with other clusters (PLASTIPOLIS, CLUSTERLAND)
11/11/10	Cost Reduction using extrusion. Valencia, SPAIN.	Event for plastic companies
22-23/11/10	Applied Nanotechnology. Alicante, SPAIN.	Event for companies, researchers and other institutions. http://jornadasnanoua.es



BIOPOL 2009

International conference on biodegradable polymers and sustainable composites



BIOPOL International Congress 09

BIOPOL 2009

International conference on biodegradable polymers and sustainable composites

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MENU

ORGANIZATION

- Scientific Committee
- Organizing Committee

CONFERENCE VENUE

- Location
- Arrivals

REGISTRATION

- Fees/Method of payment
- Registration Form
- Cancellations and changes

ACCOMMODATION

- Accommodation and location
- Request for Accommodation

SCIENTIFIC PROGRAMME

- Scientific Programme
- Invited Speakers
- Oral Communications
- Poster Presentations
- Abstract Template and Submission Publications

SOCIAL PROGRAMME

- September 29th
- September 30th
- October 2nd
- October 3rd

WELCOME

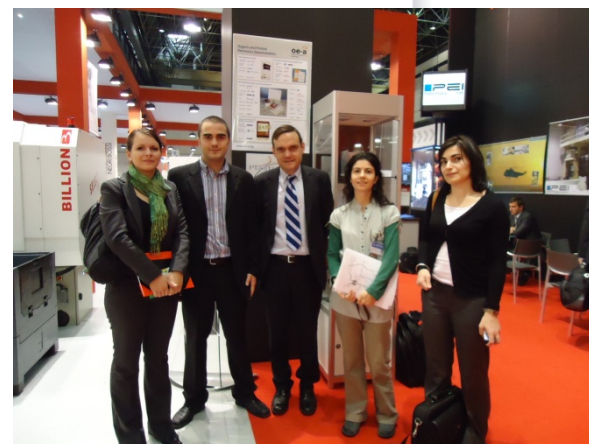
You are cordially invited to participate in the 2nd International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2009) to be held from September 30 to October 2, 2009, at the University of Alicante, Spain. Scientists from both academic and industrial laboratories who are interested in biodegradable polymers and biocomposites are encouraged to participate with the aim to exchange up-to-date ideas on current research and new applications.

BIOPOL conferences were launched in 2007 with a first edition where 170 researchers met in Alicante to present their latest results in the field of biodegradable polymers and biocomposites. The success of this first edition aimed the Organising Committee to go on with the second edition. Our challenge would be to improve the already excellent scientific program of the first edition as well as to organize social activities to promote contacts between participants in a relaxed and pleasant environment.

The conference has the aim to provide a forum for researchers and engineers from all over the world to exchange up-to-date ideas and opinions on current research and new applications of biodegradable polymers and biocomposites.

Alfonso Jiménez
Chairman of BIOPOL-2009

SPONSORS



Av Plastics, CLUSTERLAND, AVEP and PLASTIPOLIS representatives at K Fair 2010 (Dusseldorf)

Thematic Conferences:

Date	Event	Details
12/11/09	PLASTIVAL Presentation and Expert Panel – Valencia, SPAIN.	Promotional event for PLASTIVAL: Presentation and Activities of Expert panel and Advisory Committee included in the event.
07/04/10	PLASTIVAL - Thematic Conference. Presentation of Activities Carried Out.	Public Authorities, Research Centres, Technology Institutes. Lobbying actions.
07/04/10 (Afternoon)	PLASTIVAL - Thematic Conference. Presentation of Activities Carried Out.	Presentation to Plastic Industry representatives.
21/04/10	Meeting with Regional DG Industry	Meeting for discussing with government about best structure for setting up and possibilities of public funding towards 2011

Publications and Dissemination: Regarding publication of articles and dissemination of the project results and tasks it can be said that more than 10 000 people received issues from any of the dissemination tools used by the PLASTIVAL partners, so the cluster itself guaranteed a good awareness level and marketing performance.

More than 20 different magazines, bulletins or electronic bulletins have been used for increasing awareness about the PLASTIVAL cluster project.

Address of the public website and relevant contact details.

The public website address is www.plastival.org . This website will be, from now on, managed by the new cluster organization. It will continue as a tool to promote PLASTIVAL activities, news, information and services available for the plastic industry.

Below, relevant contacts from partner institutions in the project are listed:

INSTITUTION	PERSON	CONTACT DETAILS
IMPIVA – Instituto Mediana y Pequeña Industria de la Generalitat Valenciana	Mr. Francisco Ferrando Casanova – Head of the International Department	Postal Address: Pza. del Ayuntamiento 6, 46002 Valencia. Tel: 963 986 200 Email: francisco.ferrando@impiva.gva.es
UA – Universidad de Alicante	Mr. Iván Rodríguez Roselló – Technology Transfer Office	Postal Address: Campus San Vicente, Technology Transfer Office, 03690 Alicante Tel: 965 909 959 Email: ivan.rodriquez@ua.es

UPV – Universidad Politécnica de Valencia	Professor Juan López Martínez	Postal Address: Plaza Ferrándiz y Carbonell, nº. 2. Dep. Ingeniería Mecánica y Materiales Tel: 966 528 400 Email: jlopezm@mcm.upv.es
AVEP – Asociación Valenciana de Empresarios del Plástico	Ms. Cristina Monge Frontiñán – General Manager	Postal Address: Avda. Barón de Cárcer 38, 2ª, 46001, Valencia Tel: 963 516 159 Email: cmonge@avep.es
AIMPLAS – Instituto Tecnológico del Plástico	Ms. Liliana Chamudis – Head of Projects Area. Deputy Director.	Postal Address: C/ Gustave Eiffel 4, 46980, Paterna, Parc Tecnològic, Tel: 961 366 040 Email: lchamudis@aimplas.es
AIMME – Instituto Tecnológico Metal Mecánico	Ms. Noelia Antequera – International Projects	Postal Address: Avda. Leonardo Da Vinci, Parque Tecnológico, 46980 Paterna Tel: 961 378 559 Email: nantequera@aimme.es
AIJU – Instituto Tecnológico del Juguete	Mr. Jaime Vilaplana – International Projects	Postal Address: Avda. De la Industria 23, 03440 Ibi Tel: 965 554 475 Email: Jaime.vilaplana@aiju.info
CAM – Caja Mediterráneo	Mr. David Senabre – International & Welfare Projects	Postal Address: Avda. Dr. Gadea 1, 03003, Alicante Tel: 965 90 56 39 Email: dsenabre@cam.es
SABIC IP Plastics	Mr. Jordi de Tera – Account Manager	Postal Address: C/ Frederic Mompou 5, 4º4ª, 08960 Sant Just Desvern (Barcelona) Tel: 932 521 621 Email: jordi.detera@sabic-ip.com
AVENIDA PLASTICS	Ms. Julia Vicedo – Deputy Director	Postal Address: Pol. Industrial Alfaç III, C/ Palencia 3, 03440 Ibi Tel: 966 55 40 50 Email: Julia@avenidaplastics.com
CERVIC	Mr. Gustavo Cerdá – General Manager	Postal Address: Avenida del Juguete 14, 03440, Ibi Tel: 965 550 267 Email: gustavoc@cervic.com

4.2 Use and dissemination of foreground

Section A (public)

This section includes two templates

- Template A1: List of all scientific (peer reviewed) publications relating to the foreground of the project.

The project issued different types of deliverables. Among these types there are not scientific articles but reports regarding Technology Needs, Market Trends, State of the Art, CO₂ emissions, RTD Roadmap, etc. The dissemination foreseen does not fit in pure scientific publications, so the Template A2 will be the only one to fill for this project.

- Template A2: List of all dissemination activities (publications, conferences, workshops, web sites/applications, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters).

TEMPLATE A2: LIST OF DISSEMINATION ACTIVITIES								
NO.	Type of activities ²	Main leader	Title	Date	Place	Type of audience ³	Size of audience	Countries addressed
1	Website	UA	Plastival Website www.plastival.org	January 2009		All		Spain mainly. EU Countries.
2	Image & Communication Set	UA	Project Logo	January 2009		All		Spain mainly. EU Countries.
3	Image & Communication Set	UA	Spain mainly. EU Countries.	February 2009		All		Spain mainly. EU Countries.
4	Conference / Brochures / Posters	UA	New materials Forum	March 2009		Researchers, Industries and other public institutions.	50	Spain mainly. EU

² A drop down list allows choosing the dissemination activity: publications, conferences, workshops, web, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters, Other.

³ A drop down list allows choosing the type of public: Scientific Community (higher education, Research), Industry, Civil Society, Policy makers, Medias ('multiple choices' is possible).

								Countries.
5	Article in AIJU's e-Bulletin	AIJU	The Plastic Cluster in the Valencian Region: PLASTIVAL	April 09		Industry	AIJU's associates (>500)	Spain.
6	Article at UA website.	UA	UA participates in the creation of the Plastic Cluster in the Valencian Region	July 09				Spain
7	Article at INFORUVID e-Magazine.	UA	UA participates in the creation of the Plastic Cluster in the Valencian Region	July 09		All	>500	Spain
8	Article at AIMPLAS Bulletin (31)	AIMPLAS	"I+D+i para afrontar los desafíos del sector del plástico"	September 09		Industry	1800	Spain
9	Congress / Conferences / Sponsorship activities / Promotional activities	UA	Biopolymers Congress "2nd International Conference on biodegradable polymers and sustainable composites" Sponsorship activities. Plastival image in BIOPOL 09 website and other promotional material for the congress.	September 09	Alicante	Researchers, Industry and experts.	250	Spain and EU countries
10	Clusterplast: European Intercluster Initiative	AVEP, UA	Event	September 09	Milan	Industry, Cluster organisations, research and technology centres.	120	EU Countries
11	European Tooling Forum Milan - Italy	AVEP, UA	Event	September 09	Milan	Industry, Cluster organisations, research and technology centres.	120	EU Countries
12	Press release about PLASTIVAL project. E-Bulletin AIMME.es	AIMME	AIMME participa en la creación del cluster valenciano del plástico.	September 09		Researchers, Industry, administration and experts.	11400	Spanish Subscriptions
13	AIMME Website News. Project description and PLASTIVAL link into the institutional website.	AIMME	AIMME participa en la creación del cluster valenciano del plástico.	September 09		All	>500	Spanish audience.
14	CPhI Worldwide Fair - International Convention on Pharmaceutical Ingredients and intermediates.	UA	Cluster Promotion	October 09	Madrid	Mainly industry, experts and professionals.		National and International audience

15	<i>International Congress on Composites</i>	AVEP	<i>Presentation and Cluster Promotion</i>	<i>October 09</i>	<i>Valencia</i>	<i>Industry and technical professionals</i>	120	<i>National and International audience</i>
16	<i>China PEC Fair</i>	AVEP	<i>Presentation and Cluster Promotion</i>	<i>October 09</i>	<i>Taizhou</i>	<i>Industry</i>	>200	<i>International Audience</i>
17	<i>K-2009 Dusseldorf- International trade fair for plastic and rubber</i>	AVEP	<i>Presentation and Cluster Promotion</i>	<i>October 09</i>	<i>Dusseldorf</i>	<i>Industry</i>	200	<i>International Audience</i>
18	<i>Maderalia Fair</i>	AVEP	<i>Presentation and Cluster Promotion</i>	<i>November 09</i>	<i>Valencia</i>	<i>Industry</i>	>500	<i>National and International Audience.</i>
19	<i>MIDEST (Paris)- Industrial Subcontracting international fair</i>	AVEP	<i>Presentation and Cluster Promotion</i>	<i>November 09</i>	<i>Paris</i>	<i>Industry</i>	250	<i>International Audience</i>
20	<i>Press release about PLASTIVAL project. (WP2 PLASTIVAL Results) E-Bulletin AIMME.es</i>	AIMME	<i>Presentation Technology Needs, Market Trends, State of the Art, RTD Roadmap</i>	<i>November 09</i>		<i>Researchers, Industry, administration and experts.</i>	11400	<i>Spanish audience.</i>
21	<i>IDINOVA Fair</i>	AIMME	<i>Presentation and Cluster Promotion</i>	<i>November 09</i>	<i>Valencia</i>	<i>Researchers, Industry, administration and experts.</i>	>200	<i>Spanish audience.</i>
22	<i>Thematic Conference - Valencia</i>	<i>CAM, IMPIVA and all partners</i>	<i>Thematic Plastic Conference in order to present PLASTIVAL cluster, activities and reports to regional audience. Expert panel activity. SG Meeting.</i>	<i>November 09</i>	<i>Valencia</i>	<i>Public Authorities, Industries, Reseachers, etc.</i>	60	<i>Spanish audience.</i>
23	<i>INTERCLUSTER, EU Cluster Event</i>	<i>AIMPLAS, IMPIVA</i>	<i>Presentation and Cluster Promotion</i>	<i>December 09</i>	<i>Brussels</i>	<i>Cluster members and representatives from all the industrial sectors.</i>	>100	<i>International Audience</i>
24	<i>OTEA Technological Observatory – PLASTIVAL Publishable report from WP2</i>	AIMME	<i>Press Release and promotion</i>	<i>December 09</i>		<i>Researchers, Industry, administration and experts.</i>	11.400	<i>Spanish audience.</i>
25	<i>Innovation Bulletin FEMEVAL</i>	AIMME	<i>Promotion press release about PLASTIVAL project.</i>	<i>December 09</i>		<i>Industry</i>	2000	<i>Spanish audience.</i>
26	<i>Bulletin "Info AIMME"</i>	AIMME	<i>Project report and progresses made up to date.</i>	<i>January 10</i>		<i>Researchers, Industry, administration and experts.</i>	1000	<i>Spanish audience.</i>
27	<i>VALMETAL Magazine</i>	AIMME	<i>Project report and progresses made up to date.</i>	<i>January 10</i>		<i>Researchers, Industry, administration and experts.</i>	4200	<i>Spanish audience.</i>
28	<i>Article at AIMPLAS Bulletin (33)</i>	AIMME	<i>Title "AIMPLAS</i>	<i>January 10</i>		<i>Industry</i>	1800	<i>Spanish</i>

			<i>miembro del cluster que afrontará los futuros desafíos de las industrias del sector plástico"</i>					<i>audience.</i>
29	<i>PLASTIVAL.ORG Website. Disclosure of the WP2 public reports in the website. Preparation of material to be disclosed at thematic conferences</i>	<i>All partners</i>	<i>Technology Needs Report</i>	<i>February 10</i>		<i>General audience and all website visitors.</i>		<i>Spanish audience and EU Countries.</i>
30	<i>PLASTIVAL.ORG Website. Disclosure of the WP2 public reports in the website. Preparation of material to be disclosed at thematic conferences</i>	<i>All partners</i>	<i>Market Trends Report</i>	<i>February 10</i>		<i>General audience and all website visitors.</i>		<i>Spanish audience and EU Countries.</i>
31	<i>PLASTIVAL.ORG Website. Disclosure of the WP2 public reports in the website. Preparation of material to be disclosed at thematic conferences</i>	<i>All partners</i>	<i>State of the Art Technology Report</i>	<i>February 10</i>		<i>General audience and all website visitors.</i>		<i>Spanish audience and EU Countries.</i>
32	<i>PLASTIVAL.ORG Website. Disclosure of the WP2 public reports in the website. Preparation of material to be disclosed at thematic conferences</i>	<i>All partners</i>	<i>Environmental/CO2 emissions report</i>	<i>February 10</i>		<i>General audience and all website visitors.</i>		<i>Spanish audience and EU Countries.</i>
33	<i>PLASTIVAL.ORG Website. Disclosure of the WP2 public reports in the website. Preparation of material to be disclosed at thematic conferences</i>	<i>All partners</i>	<i>RTD Roadmap</i>	<i>February 10</i>		<i>General audience and all website visitors.</i>		<i>Spanish audience and EU Countries.</i>
34	<i>Bulletin Info AIMME</i>	<i>AIMME</i>	<i>Follow up and results of the PLASTIVAL project</i>	<i>February 10</i>		<i>Researchers, Industry, administration and experts.</i>	<i>1000</i>	<i>Spanish audience.</i>
35	<i>Electronic Bulletin FEMEVAL</i>	<i>AIMME</i>	<i>Follow up and results of the PLASTIVAL project</i>	<i>February 10</i>		<i>Industry</i>	<i>4200</i>	<i>Spanish audience.</i>
36	<i>Thematic Conference</i>	<i>CAM</i>	<i>Thematic Plastic Conference in order to present PLASTIVAL</i>	<i>March 10</i>	<i>Valencia</i>	<i>Public Authorities, Research Centres, Technology Institutes. Lobbying actions.</i>	<i>50</i>	<i>Spanish audience.</i>

			<i>cluster, activities and reports to regional audience.</i>					
37	Thematic Conference	CAM	Thematic Plastic Conference in order to present PLASTIVAL cluster, activities and reports to regional audience.	April 10	Valencia	Plastic Industry	50	Spanish audience.
38	Website	AVEP	Promotion of PLASTIVAL cluster, activities and reports to regional audience.	April 10		General public, industry, researchers		Spanish audience.
39	Report (Website PLASTIVAL.ORG)	AVEP	Plastic Industry Outlook	May 10		General public, investors, industry		Spanish audience and EU Countries.
40	Event - Workshop	AIMPLAS	Title: How to save Energy in your company	May 10	Valencia	Industry.	20	Spanish audience.
41	Article – AVEP Magazine	AVEP	PLASTIVAL cluster, activities and reports to regional audience.	July 10		Researchers, Industry and experts.	250	Spanish audience.
42	Event - Workshop	AIMPLAS	Title - Funding opportunities for plastic industries in the 7FP	September 10	Valencia	Industry	30	Spanish audience.
43	Event - Workshop	AIMPLAS	Title - Plastic Packaging for agrofood applications	September 10	Valencia	Industry	100	Spanish audience.
44	Article at Plásticos Modernos Mag. Vol 100. Num. 649	AIMPLAS	PLASTIVAL	September 10		Industry and other institutions. National level.		Spanish audience.
45	Event - Workshop	AIMPLAS	Title - Recycling, energetic valorisation and plastic wastes	September 10	Valencia	Industry, Research Centres and other institutions	100	Spanish audience.
46	Event - Workshop	AIMPLAS	Title - Wood plastic composites	September 10	Valencia	Industry, Research Centres and other institutions	40	Spanish audience.
47	K-2010 Dusseldorf- Germany	Avep	International trade fair for Plastic and rubber worldwide	November 10	Dusseldorf	Managing director/board member/ head of an authority, Entrepreneur/partner/freelancer, Department head/group leader	200	International Audience
48	K-2010 Dusseldorf- Germany	AIMPLAS	International trade fair for Plastic and rubber worldwide	November 10	Dusseldorf	International promotion of the cluster. Partner Search. Cooperation possibilities.		International Audience

49	K-2010 Dusseldorf- Germany	AV PLASTICS	International trade fair for Plastic and rubber worldwide	November 10	Dusseldorf	Promotion of the cluster and meeting with PLASTIPOLIS French Cluster, with CLUSTERLAND (Austrian Cluster) and possible cooperation with their plastic associated companies.		International Audience
50	Event - Workshop	AIMPLAS	Title - Cost Reduction using extrusion	November 10	Valencia	Industry	40	Spanish audience.
51	Event - Workshop	UA	Title - Applied Nanotechnology http://jornadasnanoua.es	November 10	Alicante	Industry and research institutions.	40	Spanish audience.
52	Promotional Material – PLASTIVAL	All partners	Magnetic Blackboards	December 10		Industry, research centres, other institutions.	1500	Spanish audience and EU contacts for promotion.
53	Press Release	Cervic	Promotion of the Creation of the legal estructure of the cluster and CERVIC's participation as a founder.	December 10		Industry, research centres, other institutions.		Spanish audience

General Tools and Regular Media that will continue being used after the end of the project

General tools	UA	UA Website	www.ua.es/otri www.ua.es	-	
	UA	EEN Network	www.enterprise-europe-network.ec.europa.eu/public/calendar/home.cfm?type=future	-	
	AVEP	National sector magazines		5000	Scientists, industrials, managers, journalists from polymer industry sector
	AVEP	E-Mailing system		400	Cluster members and potential new members
	UA	Plastival Website	www.plastival.org	-	General audience
	AIMPLAS	Website	www.aimplas.es	-	General audience
	AIMPLAS	AIMPLAS Bulletin	-	-	Plastic industry

Regular Media		Cervic	Website	http://www.cervic.com/idf/		General audience
		All partners	Project communication set			General audience. SMEs.
			Website			General audience. SMEs.
			Leaflet			General audience. SMEs.
			General Presentation			General audience. SMEs.
		General	AIJU	Technological observatory		General audience.
		General	AIJU	Publication of Plastival project on AIJU's web		General audience.
	Every 3 month	AVEP	AVEP magazine	PDF version on www.avep.es/revista.php	400	Cluster members and potential new members
	Weekly	UA	Electronic Bulletin - EEN (Enterprise Europe Network)	Bulletin which is sent every week to clients in the EEN Network Project. Main content are Technology Related News, Technology Offers and Requests from all sectors	1000	Cluster-members and potential members. Mainly industries.
	Monthly	UA	Info RUVID Bulletin	Bulletin from the Network of Valencian Universities Network	3000	Universities, Researchers, Public Authorities and Public Institutions and Companies.
	Every 3 months	AIJU	News in AIJU bulletin	Magazine sent to AIJU's associates.	600	80% Industrial companies and 20% related institutions as technological centres, research institutions, laboratories, etc.
	Monthly	AIMPLAS	NEws in AIMPLAS bulletin	Magazine sent to AIMPLAS's associates.	2500	International dissemination. Plastic industry. (1800 SMEs)

For 2011, promotion and dissemination actions will follow the trend started in 2009 and 2010. As the Plastival Cluster has been constituted under a legal body, the dissemination actions will be led by the cluster organisation itself. General tool and media stated previously will be still used in order to complement these dissemination activities carried out by the Plastival Cluster.

Dissemination will be focused on the following agents or entities:

- Industrial companies (mainly SMEs from the Valencian Region in the plastic sector)
- Universities, Technological Institutes, other R&D entities.
- Local, Regional and National authorities and European Commission.
- Public entities, associations, non-profit organisations supporting companies;
- General Audience

The following actions will be envisaged for this Dissemination Plan:

- Promotional and communication material: Cluster Logo, Website, Brochures, Flyers and Template for presentations.
- Presentation at specialized conferences.
- Presentations and attendance to fairs, brokerage events and other events: CHINAPLAS 2011, PLASTIVISION 2011 K Trade Fair, JEC Composites, BOPPOL 2011, Midest, IDINOVA, Manufuture 2011, etc.
- Press conferences. Press releases. E-Bulletins.
- Articles in specialised magazines.
- Special effort in participating in international level events in order to promote the cluster, to promote Valencian Region industry and to find possible partner for cooperation.

Section B (Confidential⁴ or public: confidential information to be marked clearly)
Part B1

No patents or trademarks have been registered yet as a result of the project. For year 2011 it is foreseen to register the trademark (under the new cluster structure constituted) with the name of the cluster and its logo set design.

Part B2

Please complete the table hereafter:

Type of Exploitable Foreground ⁵	Description of exploitable foreground	Confidential Click on YES/NO	Foreseen embargo date dd/mm/yyyy	Exploitable product(s) or measure(s)	Sector(s) of application ⁶	Timetable, commercial or any other use	Patents or other IPR exploitation (licences)	Owner & Other Beneficiary(s) involved
<i>Website</i>	INTERNET PORTAL	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		UA (OWNER) ALL PARTNERS INVOLVED
<i>Report</i>	TECHNOLOGY NEEDS	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		OWNERS: SABIC, AV PLASTICS, CERVIC, AVEP, AIMPLAS, AIMME, AIJU. ALL PARTNERS INVOLVED
<i>Report</i>	MARKET TRENDS	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		OWNERS: SABIC, AV PLASTICS, CERVIC, AVEP, AIMPLAS, AIMME, AIJU, CAM

⁴ Note to be confused with the "EU CONFIDENTIAL" classification for some security research projects.

¹⁹ A drop down list allows choosing the type of foreground: General advancement of knowledge, Commercial exploitation of R&D results, Exploitation of R&D results via standards, exploitation of results through EU policies, exploitation of results through (social) innovation.

⁶ A drop down list allows choosing the type sector (NACE nomenclature) : http://ec.europa.eu/competition/mergers/cases/index/nace_all.html

Type of Exploitable Foreground ⁵	Description of exploitable foreground	Confidential Click on YES/NO	Foreseen embargo date dd/mm/yyyy	Exploitable product(s) or measure(s)	Sector(s) of application ⁶	Timetable, commercial or any other use	Patents or other IPR exploitation (licences)	Owner & Other Beneficiary(s) involved
								ALL PARTNERS INVOLVED
<i>Report</i>	STATE OF THE ART	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		OWNERS: AVEP, AIMPLAS, AIMME, AIJU. ALL PARTNERS INVOLVED
<i>Report</i>	RTD ROADMAP	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		OWNERS: ALL PARTNERS
<i>Report</i>	ENVIRONMENTAL / CO2 EMISSIONS	NO			<i>Industry, R&D, Public Authorities</i>	<i>2011 - 2012</i>		OWNERS: UA, UPVLC. ALL PARTNERS

The previous results from the PLASTIVAL project are the deliverables to be used for promotion, dissemination and for the strategy to be followed by the Cluster. These results are already available as they are not confidential results. They were presented during 2010 to general audience and, in particular, to the plastic industry sector. The idea is to continue fostering these results in order to find the commitment of as many plastic industries as possible in participating in the cluster. With these results, the strategy for the cluster has been set up and the day to day work has already started.

Two working groups have been already set up in the cluster in order to start developing ideas, projects and start R&D cooperations among partners from different stakeholders (companies, authorities, universities, professional associations and technological institutes). These working groups are composed by representatives of all the stakeholders in the plastic industry in the Valencian Region. Activities leading to set up innovation and R&D projects will be focused on the different technology axis that were disclosed in the RTD Roadmap document.

4.3 Report on societal implications

Replies to the following questions will assist the Commission to obtain statistics and indicators on societal and socio-economic issues addressed by projects. The questions are arranged in a number of key themes. As well as producing certain statistics, the replies will also help identify those projects that have shown a real engagement with wider societal issues, and thereby identify interesting approaches to these issues and best practices. The replies for individual projects will not be made public.

A General Information <i>(completed automatically when Grant Agreement number is entered.</i>	
Grant Agreement Number:	229935
Title of Project:	RTD-based Cluster initiative to target future challenges of the Valencia plastic processing industry.
Name and Title of Coordinator:	Mr. Francisco Ferrando Casanova. (Beneficiary: IMPIVA)
B Ethics	
1. Did your project undergo an Ethics Review (and/or Screening)? If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports? Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 'Work Progress and Achievements'	No
2. Please indicate whether your project involved any of the following issues (tick box) :	NO
RESEARCH ON HUMANS	
• Did the project involve children?	
• Did the project involve patients?	
• Did the project involve persons not able to give consent?	
• Did the project involve adult healthy volunteers?	
• Did the project involve Human genetic material?	
• Did the project involve Human biological samples?	
• Did the project involve Human data collection?	
RESEARCH ON HUMAN EMBRYO/FOETUS	
• Did the project involve Human Embryos?	
• Did the project involve Human Foetal Tissue / Cells?	
• Did the project involve Human Embryonic Stem Cells (hESCs)?	
• Did the project on human Embryonic Stem Cells involve cells in culture?	
• Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?	
PRIVACY	
• Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?	
• Did the project involve tracking the location or observation of people?	
RESEARCH ON ANIMALS	
• Did the project involve research on animals?	

• Were those animals transgenic small laboratory animals?	
• Were those animals transgenic farm animals?	
• Were those animals cloned farm animals?	
• Were those animals non-human primates?	
RESEARCH INVOLVING DEVELOPING COUNTRIES	
• Did the project involve the use of local resources (genetic, animal, plant etc)?	
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?	
DUAL USE	
• Research having direct military use	No
• Research having the potential for terrorist abuse	

C Workforce Statistics

3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).

Type of Position	Number of Women	Number of Men
Scientific Coordinator		
Work package leaders		
Experienced researchers (i.e. PhD holders)		
PhD Students		
Other		

4. How many additional researchers (in companies and universities) were recruited specifically for this project?

Of which, indicate the number of men:

D Gender Aspects		
5. Did you carry out specific Gender Equality Actions under the project?	☐ Yes ☒ No	☐ Yes ☒ No
6. Which of the following actions did you carry out and how effective were they?		
☐ Design and implement an equal opportunity policy	Not at all effective ☐ ☐ ☐ ☐ ☐	Very effective ☐ ☐ ☐ ☐ ☐
☐ Set targets to achieve a gender balance in the workforce	☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐
☐ Organise conferences and workshops on gender	☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐
☐ Actions to improve work-life balance	☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐
☐ Other:		
7. Was there a gender dimension associated with the research content – i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?		
☐ Yes- please specify		
☐ No		
E Synergies with Science Education		
8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?		
☐ Yes- please specify		
☒ No		
9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?		
☐ Yes- please specify		
☒ No		
F Interdisciplinarity		
10. Which disciplines (see list below) are involved in your project?		
☐ Main discipline ⁷ : 1.3 – 2.3		
☐ Associated discipline ⁷ :	☐ Associated discipline ⁷ :	
G Engaging with Civil society and policy makers		
11a Did your project engage with societal actors beyond the research community? (if 'No', go to Question 14)	☒ Yes ☐ No	☒ Yes ☐ No
11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?		
☐ No		
☒ Yes- in determining what research should be performed		
☒ Yes - in implementing the research		
☒ Yes, in communicating /disseminating / using the results of the project		

⁷ Insert number from list below (Frascati Manual).

11c In doing so, did your project involve actors whose role is mainly to organise the dialogue with citizens and organised civil society (e.g. professional mediator; communication company, science museums)?	☒	☐ Yes ☐ No
12. Did you engage with government / public bodies or policy makers (including international organisations)		
☐ No ☒ Yes- in framing the research agenda ☒ Yes - in implementing the research agenda ☒ Yes, in communicating /disseminating / using the results of the project		
13a Will the project generate outputs (expertise or scientific advice) which could be used by policy makers?		
☒ Yes – as a primary objective (please indicate areas below- multiple answers possible) ☒ Yes – as a secondary objective (please indicate areas below - multiple answer possible) ☐ No		
13b If Yes, in which fields?		
Agriculture Audiovisual and Media Budget Competition Consumers Culture Customs Development Economic and Monetary Affairs Education, Training, Youth Employment and Social Affairs	X X 	Energy Enlargement Enterprise Environment External Relations External Trade Fisheries and Maritime Affairs Food Safety Foreign and Security Policy Fraud Humanitarian aid
		X X X Human rights Information Society Institutional affairs Internal Market Justice, freedom and security Public Health Regional Policy Research and Innovation Space Taxation Transport
		X X

13c If Yes, at which level? ☒ Local / regional levels ☐ National level ☐ European level ☐ International level				
H Use and dissemination				
14. How many Articles were published/accepted for publication in peer-reviewed journals?		- -		
To how many of these is open access⁸ provided?				
How many of these are published in open access journals?				
How many of these are published in open repositories?				
To how many of these is open access not provided?				
Please check all applicable reasons for not providing open access:				
☐ publisher's licensing agreement would not permit publishing in a repository ☐ no suitable repository available ☐ no suitable open access journal available ☐ no funds available to publish in an open access journal ☐ lack of time and resources ☐ lack of information on open access ☐ other ⁹ :				
15. How many new patent applications ('priority filings') have been made? <i>("Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant).</i>		- -		
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	- -		
	Registered design	- -		
	Other	- -		
17. How many spin-off companies were created / are planned as a direct result of the project?		- -		
<i>Indicate the approximate number of additional jobs in these companies:</i>				
18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project: <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> ☐ Increase in employment, or ☐ Safeguard employment, or ☐ Decrease in employment, ☒ Difficult to estimate / not possible to quantify </td> <td style="width: 50%; vertical-align: top;"> ☐ In small & medium-sized enterprises ☐ In large companies ☐ None of the above / not relevant to the project </td> </tr> </table>			☐ Increase in employment, or ☐ Safeguard employment, or ☐ Decrease in employment, ☒ Difficult to estimate / not possible to quantify	☐ In small & medium-sized enterprises ☐ In large companies ☐ None of the above / not relevant to the project
☐ Increase in employment, or ☐ Safeguard employment, or ☐ Decrease in employment, ☒ Difficult to estimate / not possible to quantify	☐ In small & medium-sized enterprises ☐ In large companies ☐ None of the above / not relevant to the project			
19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (FTE = one person working fulltime for a year) jobs:		<i>Indicate figure:</i> 2 or 3 FTE to run the cluster		

⁸ Open Access is defined as free of charge access for anyone via Internet.

⁹ For instance: classification for security project.

Difficult to estimate / not possible to quantify		X
I Media and Communication to the general public		
20. As part of the project, were any of the beneficiaries professionals in communication or media relations? ☐ Yes ☒ No		
21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public? ☐ Yes ☒ No		
22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?		
☒ Press Release	☒ Coverage in specialist press	
☒ Media briefing	☒ Coverage in general (non-specialist) press	
☐ TV coverage / report	☒ Coverage in national press	
☐ Radio coverage / report	☐ Coverage in international press	
☒ Brochures /posters / flyers	☒ Website for the general public / internet	
☐ DVD /Film /Multimedia	☒ Event targeting general public (festival, conference, exhibition, science café)	
23 In which languages are the information products for the general public produced?		
☒ Language of the coordinator	☒ English	
☐ Other language(s)		

Question F-10: Classification of Scientific Disciplines according to the Frascati Manual 2002 (Proposed Standard Practice for Surveys on Research and Experimental Development, OECD 2002):

FIELDS OF SCIENCE AND TECHNOLOGY

1. NATURAL SCIENCES

- 1.1 Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]
- 1.2 Physical sciences (astronomy and space sciences, physics and other allied subjects)
- 1.3 Chemical sciences (chemistry, other allied subjects)
- 1.4 Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences)
- 1.5 Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences)

2. ENGINEERING AND TECHNOLOGY

- 2.1 Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects)
- 2.2 Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]
- 2.3. Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialised subdivisions; forest products; applied sciences such as

geodesy, industrial chemistry, etc.; the science and technology of food production; specialised technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other applied subjects)

3. MEDICAL SCIENCES

- 3.1 Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology and immunohaematology, clinical chemistry, clinical microbiology, pathology)
- 3.2 Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology)
- 3.3 Health sciences (public health services, social medicine, hygiene, nursing, epidemiology)

4. AGRICULTURAL SCIENCES

- 4.1 Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects)
- 4.2 Veterinary medicine

5. SOCIAL SCIENCES

- 5.1 Psychology
- 5.2 Economics
- 5.3 Educational sciences (education and training and other allied subjects)
- 5.4 Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organisation and methods, miscellaneous social sciences and interdisciplinary, methodological and historical S1T activities relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].

6. HUMANITIES

- 6.1 History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics, palaeography, genealogy, etc.)
- 6.2 Languages and literature (ancient and modern)
- 6.3 Other humanities [philosophy (including the history of science and technology) arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other S1T activities relating to the subjects in this group]