

INTERACT – Interactive Manual Assembly Operations for the Human-Centered Workplaces of the Future

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Summary:

This is the first version of the INTERACT project Dissemination Report.

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EXECUTIVE SUMMARY

The content of this document is the outcome of INTERACT Task 7.1 - “Dissemination.”. The main purpose of this document is to:

- Define the dissemination approach within INTERACT.
- Provide the plan of identified dissemination activities up to project month 12.
- Report the dissemination activities executed so far.

Primary conclusions / results include the following:

- A Dissemination Plan is essential to build awareness of a project results and maximize its commercial exploitation potential. The objective of this Dissemination Plan is to lay down the foundations for effective external communication of INTERACT concept and potential benefits to the interested stakeholders at an international level.
- To align appropriately the interests of all parties within the consortium and the fact that the external communication strategy depends on well-organized internal coordination.
- For dissemination to be effective it must evolve in parallel to project development.
- INTERACT results will be disseminated to a broad audience including private and public organisations, research community, industries, through activities such as workshops, conferences, journal publications and the internet.
- During the 1st year the main result is that the framework for disseminating project activities has been setup. In the following two years to come and as the project will be generating results that can be communicated to external audience the project dissemination activities are expected to multiply.

1. INTERACT DISSEMINATION STRATEGY

1.1. INTERACT dissemination approach

The main steps that constitute the dissemination approach of INTERACT are presented in the following figure.

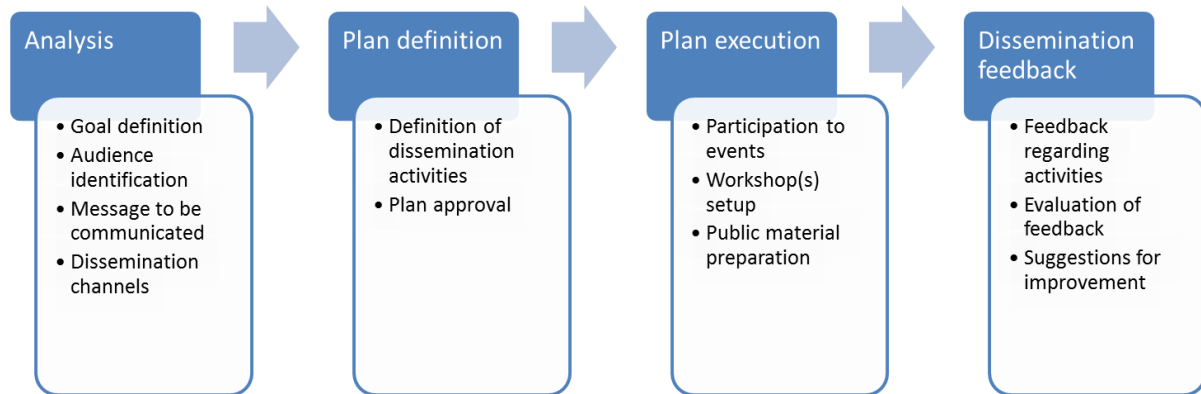


Figure 1: INTERACT dissemination steps

Dissemination Analysis

- **Goal definition:** In order to establish a successful dissemination plan the definition of the consortium goals must be carried out defining the consortium objectives and the mission.
- **Audience identification:** After the goals have been defined it is important to identify the audience that should be targeted with dissemination activities. This is highly important since it will guide the selection of the appropriate means to communicate with the audience. There are different types of audience or groups of interest that could be interested in the developments of INTERACT. External (to the project) audience may include academia members and industry while internal (to the project) audience may include students or teams/units of the INTERACT companies.
- **Message to be communicated:** The messages to be communicated are closely related to the project's goal and objectives. They should be designed taking into account the different groups of interest identified and the phase of the project.
- **Dissemination channels:** Dissemination activities will focus on the use of websites, publication of papers, newsletters, and face to face contacts through meetings and targeted dissemination events, conferences and exhibitions. These events should be public and timely advertised to convey a large audience.

Dissemination Plan Definition

Following there is the official plan approval by the consortium of the Dissemination Plan proposed. The approval phase is required for both the initial and revised versions of the plan. The dissemination plan consists of a set of dissemination activities planned for specific dates, target specific audience, communicating some message(s), contribute to the project objectives.

Dissemination Plan Execution

The execution of the activities implements all the activities described in the Dissemination plan. For each dissemination activity a main leader (key-partner) is identified for leading the preparation and

execution of the activity. From the beginning of the project dissemination phase and in coordination with the exploitation objectives all project partners must contribute to the execution of the activities depending on their field of expertise and interests.

Dissemination Feedback

Following a dissemination activity feedback should be provided by the partner(s) that have performed the activity. The success of dissemination activities should be measureable through objective.

Of course, the dissemination elements (goals, audience, messages etc.) that are identified are monitored and updated regularly also by utilizing the feedback from dissemination activities. This ensures that the activities will a considerable impact.

1.2. INTERACT dissemination goals/objectives

The main objectives of this dissemination plan are to specify the necessary steps and a preliminary set of activities that will contribute to:

- Build awareness around the project.
- Communicate research findings and to stimulate ongoing interest in the work of INTERACT.
- Lay the foundations for establishment and reinforcement of a wide network of potential users (customers).
- Maximize exploitation opportunities of the INTERACT solution throughout and beyond its development. The project is not ‘closed’ at the end of the project; its results and products are planned to be further used and marketed.

The baseline to make the above objectives a reality is set by the project’s Description of Work (DoW) document, which addresses:

- The project’s objectives’, main benefits and goals.
- A preliminary reference on INTERACT’s potential users (e.g. industry with complex manual operations).
- A list of dissemination activities that fit to the objectives of the project.

Further to this preliminary information provided by the DoW, the present plan elaborates on the following elements:

- INTERACT target audience identification (which is a necessary step to identify the most effective ways to communicate with it).
- Definition of messages/subjects to capture the attention of the targeted audience.
- Selection of communication channels and media that will bring the messages to the target audiences.
- Definition of internal collaboration approach to improve the effectiveness of dissemination activities
- Evaluation of achieved results through appropriate feedback mechanisms and establishing fitting measurable objectives and metrics.

1.3. INTERACT target audience

In order to structure the dissemination activities in the dissemination plan and to be able to analyze the impact of dissemination on a comparable basis a more accurate division of the target audience has been developed in the following table

| Type of audience | Motivations |
|---|--|
| Academic and research community | <p>This group targets all research communities interested in the INTERACT project's developments, results and innovation, which can be beneficiary for their own research activities.</p> <p>Scientific contributions of INTERACT are particularly interesting for researchers working in the field digital human modelling, digital human motion simulation, ergonomics, computer aided process planning, sensors for human motion recognition and process tracking.</p> |
| Industrial sector, Professional Associations (wider audience) | <p>A key objective of INTERACT dissemination is to address and trigger the active involvement of industrial and user communities. INTERACT is of utmost relevance for organizations in various industry verticals. INTERACT has already attracted stakeholders from various industrial sectors (automotive, professional white goods) their potential for INTERACT results exploitation will be analyzed especially in the frame of elaboration of the exploitation plan. Other industry that utilizes manual operations (e.g. assembly) for production (e.g. such as aerospace, bicycle, industry, electrical automation equipment).</p> <p>In the end of the project we plan to elaborate INTERACT's dissemination impact analysis where we will evaluate which industrial segments would be addressed and to compare the response gained from the various segments. It will bring important information for further exploitation of INTERACT project results by particular consortium partners after the end of this project.</p> |
| Industrial target group | <p>An Industrial Interest Group will be created in order to disseminate the most promising results and to provide early commercial uptake. It is expected that they will provide valuable feedback on the project, introduce challenging requirements to be considered and have a major impact on the project's sustainable development.</p> |
| Wider public | <p>The wider public should be aware of INTERACT scope and objectives, owing the innovative character of the developed technologies.</p> |
| EU Technology platforms | <p>INTERACT is going to generate results which are going to be forwarded to the European technology platform (ETP) Manufuture for supporting their road mapping activities. Moreover, INTERACT plans to participation in events organized by European Factories of the Future Research Association (EFFRA) in order to communicate to a mainly industrial group the relevance and impact of INTERACT technology to the industry.</p> |
| EU or national, regional projects working on a similar domain | <p>The participation of project partners in other relevant projects offers the opportunity for establishment of quick links among parties through common participants</p> <p>INTERACT became member of the <i>FInES</i>¹ (<i>Future Internet Enterprise Systems</i>) cluster. Through the participation in this cluster INTERACT will have the opportunity to:</p> <ul style="list-style-type: none"> • Co-create the roadmap to promote future research in the domain based on experiences gained from the project implementation. • Promote the research results towards SMEs and web entrepreneurs. • Provide feature articles in the news alerts that will be circulated every month |

¹ <http://www.fines-cluster.eu/>

| | |
|-------------------|---|
| | <p>through the mailing list and posted online in the community portal and social media.</p> <ul style="list-style-type: none"> • Publish position papers to the annual Enterprise Innovation Magazines. • Participate to jointly organized events and liaise with the other projects in order to exploit synergies through joint working groups. <p>Investigation of possible co-operations with the following research projects:</p> <ul style="list-style-type: none"> • ARVIDA: Angewandte Referenzarchitektur für Virtuelle Dienste und Anwendungen, partially funded by the BMBF (01IM13001B) <ul style="list-style-type: none"> ○ An official statement has been achieved that INTERACT may make use of any architecture e. g. for motion capture data exchange that ARVIDA specifies. ○ One ARVIDA participant promised to investigate if it makes sense to convert the RAMSIS ergonomic model into bvh to use it in both ARVIDA and INTERACT. However, no results have yet to be received from ARVIDA, which is why INTERACT has independently specified a skeleton model. ○ INTERACT has received high quality Motion Capture data for walking from a supplier to the project ARVIDA without charge. • PROMONDI: Prospektive Ermittlung von Montagearbeitsinhalten in der Digitalen Fabrik partially funded by the BMBF (02PJ1111) <ul style="list-style-type: none"> ○ A joint paper has been written and will be submitted to the CIRP ICME 2014 conference until end of March that investigates a solution to keeping the effort to provide process planning information in a controlled natural language low, which addresses one of the risks of the INTERACT methodology to be accepted in industry. |
| Internal audience | <p>Ensuring effective internal communication and dissemination among the Consortium partners represents an important key success element for the INTERACT.</p> <p>Partners' organizations are important for dissemination for two reasons. First they are potential users of INTERACT project results themselves and at second they represent "influencers" because of their huge impact on the associated industrial sectors.</p> <p>Particularly INTERACT consortium partners comprise important market players in various segments and this constitutes a natural channel for the dissemination of the project and its results to other potential customers. In this respect, the dissemination activities rely on the effort and the possibility of each partner in exploiting opportunities to present project and its result. Therefore, it is important to communicate information about INTERACT project and its results to partners' management, consultants and people responsible for their marketing and sales. Additionally it is necessary to encourage them to share this information further to their customers and business partners.</p> <p>The internal communication strategy also pursues the objective to maintain all partners fully informed about planning, work in progress and existing or potential problems. Besides the requested EC and Internal reporting, all partners are invited to actively communicate with WP Leaders about technical progresses and issues, as well as WP Leaders are invited to keep PC and PM updated about the activities. All partners are invited to inform PM and PC of any Administrative and Legal issues arising. PM and PC are at the partners disposal respectively for any technical and administrative information/issue.</p> |

Table 1: Target audience

1.4. INTERACT messages

The **main messages** to be disseminated through the project and after the end of the project are mainly the INTERACT exploitable results¹⁴ along with the overall INTERACT approach. More specifically:

1. *INTERACT scope and objectives*
2. *INTERACT pilot case description (excluding confidential information)*
3. *Overall INTERACT approach*
4. *Interactive Planning and Validation of Human Activities in factory floor*
5. *Sensor System for Manual Task Parameters*
6. *Recognition and classification of assembly operations from sensor system*
7. *Enterprise Application Platform (EAP)*
8. *INTERACT technology relevance and contribution to Industry 4.0 (Internet of Things and Virtual Industrialization)*
9. *INTERACT technology impact to industrial pilot cases*

In Table 2 below INTERACT key messages are presented along with information regarding timing, target audience and partners interested in disseminating the key message.

| No | Message/Subject | Description/Abstract | Period the message could be communicated | Target Audience | Partners interested in this |
|-----------|--|---|---|------------------------------|--|
| 1 | INTERACT project aspects | Project structure, objectives, status | Whole project duration | All | LMS, Daimler |
| 2 | INTERACT pilot cases | The challenges set by the pilot cases and how INTERACT is going to address those challenges. The expected impact of INTERACT technology on the pilots should be visible. | First 2 project years | Industrial users worldwide | All |
| 3 | Overall INTERACT approach | The main idea of the project is to utilize workers' knowledge on executing manual assembly tasks and include it in the digital tools used to support design, verification, validation, modification and continuous improvement of human-centred workplaces. | Whole project duration | Research community | LMS, DFKI, IMI, IMK, INTRASOFT, Emphasis, HADATAP, Daimler |
| 4 | Interactive Planning and Validation of Human Activities in factory floor | Efficient generation and modification of accurate manual assembly simulation models. Methodology for reliable, cost-effective and fast ways to generate manual assembly operation | Second half of the project | Research community /Industry | LMS, DFKI, IMI, Daimler, IMK |

| | | | | | |
|---|--|--|----------------------------|---|--|
| | | simulation models from typical CAD and sensors data. This message has two parts: one is related to the methods/algorithms/knowledge generated and the second is related to the tool that can be used by industry for digital validation/planning or human activities simulation in general. | | | |
| 5 | Sensor System for Manual Task Parameters | Shop-floor sensing architectures that incorporate new non-intrusive, low-cost sensor systems for retrieving real-time data about human-based work activities. This message has two parts: one is related to the methods/algorithms/knowledge generated and the second is related to the tool that can be used by industry for digital validation/planning or human activities simulation in general. | Second half of the project | Research community /Industry | IMI, Emphasis, Hadatap, LMS |
| 6 | Recognition and classification of assembly operations from sensor system | Advanced methods and tools for the automated recognition and classification of assembly operations from sensors data. The methods will report the deviations of the executed to the planned assembly process. | Second half of the project | Research community /Industry | DFKI, LMS, Daimler, Emphasis, Hadatap. |
| 7 | Enterprise Application Platform (EAP) | Shop-floor applications will be deployed as “apps” through an Enterprise Application Platform, following the smartphone and tablet device paradigm. | Last year of the project | Industry | INTRASOFT, Emphasis, Hadatap |
| 8 | INTERACT relevance and contribution to Industry 4.0 | INTERACT technology contributes to the new Industry 4.0 paradigm. | Whole project period | Industrial end-users, EU, policy makers | All |
| 9 | INTERACT | INTERACT technology is | Last 6 months of | Industry/ | All |

| | | | | | |
|--|---|---|-------------|-------------------|--|
| | technology impact to industrial pilot cases | expected to contribute to several industry related objectives such as: Increased productivity and higher product quality, Reduced consumption of resources (less physical prototypes), reduced impact of aging workforce. | the project | EU/ Policy makers | |
|--|---|---|-------------|-------------------|--|

Table 2: INTERACT key messages

1.5. INTERACT dissemination tools/channels

Dissemination activities will focus on the use of websites, publication of papers, newsletters, and face to face contacts through meetings and targeted dissemination events, conferences and exhibitions. These events will be public and timely advertised to attract a large audience. Selected channels of communication can be summed up in following:

- INTERACT project's website and intranet to show INTERACT developments
- Social Media Networking (LinkedIn, Twitter)
- E-mails/newsletters/leaflets to specialized stakeholders.
- Press releases/articles published in both the INTERACT's web site and the specialized channels/media.
- Events primarily targeted to specialized stakeholders, and also to the public at large.
- Scientific publications to journals and conferences.
- Open workshop and industrial workshops

Project portal

The INTERACT public Web Portal has been primarily developed and is available online since project M01 for all people around the globe that are interested in the project and also to facilitate some of the project dissemination needs, for publishing news and information about that and communication between the project coordinator with everyone who is interested in the project. Access to the public and private web portal is provided by the link: <http://www.interact-fp7.eu/>

The public space of the portal is useful for dissemination of the knowledge of the project or publishing news and information about the project and the beneficiaries of it or communication between the coordinator with everyone who is interested in the project.

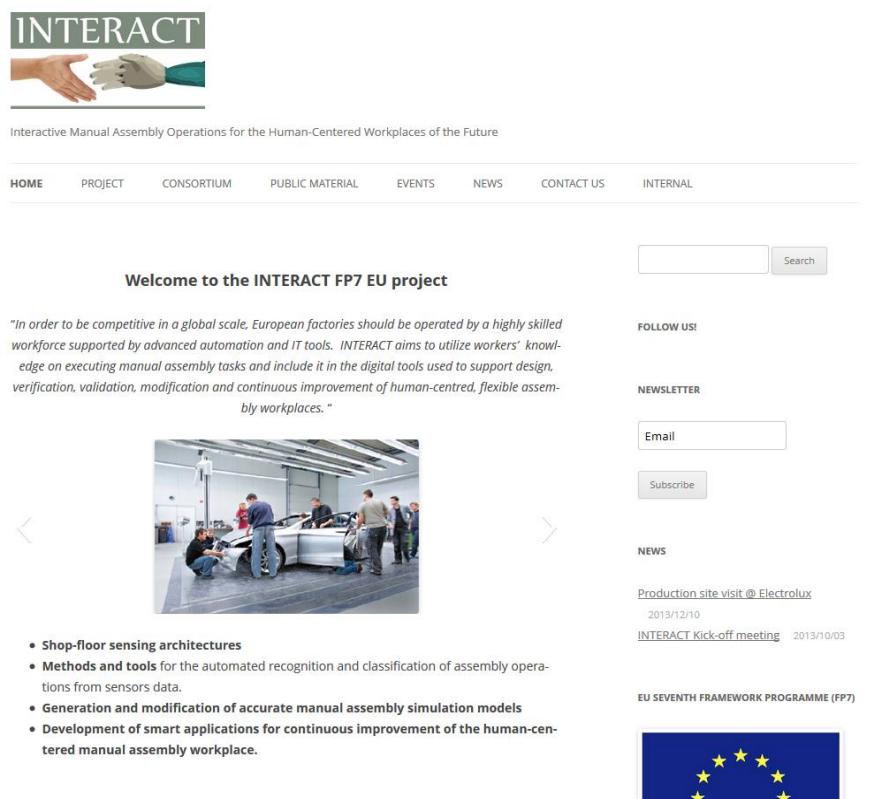


Figure 2: Front page of the INTERACT portal

Social Media

INTERACT has presence in social media and more specifically in LinkedIn and Twitter. These media will be used to promote INTERACT activities to users of those media.



Figure 3: INTERACT front page in LinkedIn and Twitter

Newsletter

A newsletter has been released on April 2014 and new issues will be regularly released in the portal and send via email to newsletter subscribers. The objective of the newsletter is to increase awareness and stimulate interest to the project activities.



Figure 4: INTERACT newsletter

Brochure

A project brochure has been prepared that communicates key-facts for the objective, structure etc. of the project. The brochure is publicly available on the portal and will be printed in high quality paper in several copies so as to be provided to people interest in INTERACT during events that INTERACT participates.

| INTERACT | | |
|--|------------|--|
| Benefits | Consortium | |
| <ul style="list-style-type: none"> Virtual production validation without physical prototypes Improved process quality through early automated plausibility checks Acceptance of virtual technologies through intuitive interaction without need for CAD skills Haptically oriented workers can contribute to digital work place design Efficient design of work places for an aging workforce through immediate ergonomic assessment Reduced planning cost through faster, more accurate process modelling | | <p>Interactive Manual Assembly Operations for the Human-Centered Workplaces of the Future</p> <p>Project coordinator: Dr. Martin Manns Integrated Production Verification, Daimler AG, Germany</p> <p>Project manager: Dr. Kosmas Alexopoulos Laboratory for Manufacturing Systems and Automation, University of Patras, Greece</p> <p>Start: Oct. 2013 Duration: 36 months</p> <p>http://www.interact-fp7.eu</p> |
| <p>INTERACT has received funding from the European Union Seventh Framework Programme (FP7) under grant agreement n° 611007.</p> <p>http://www.interact-fp7.eu</p> | | |

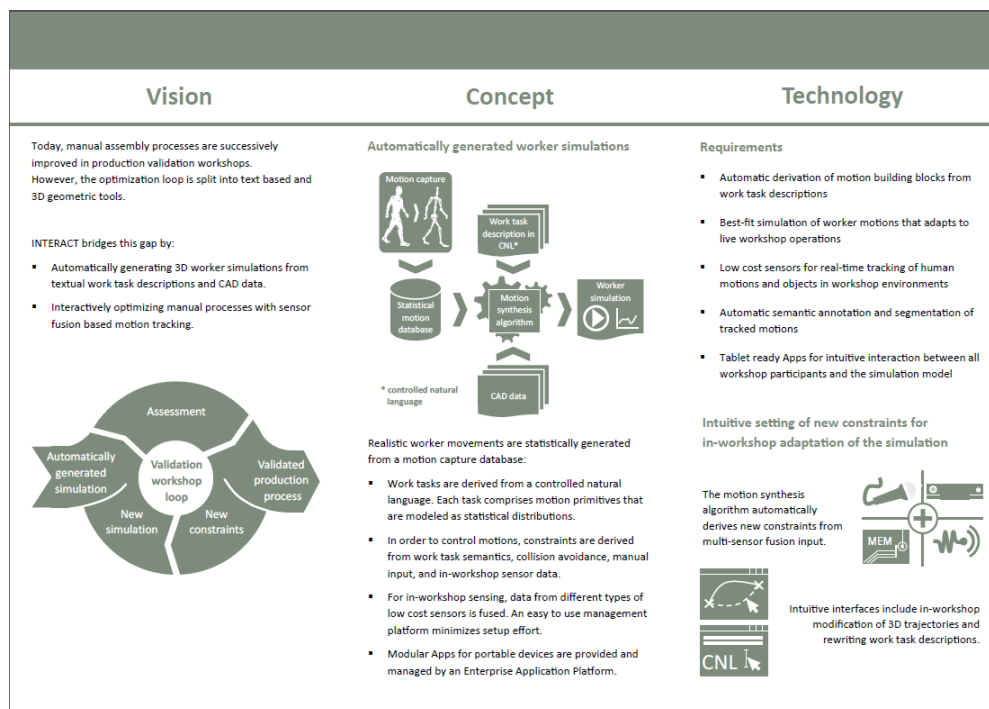


Figure 5: INTERACT brochure

Dissemination channels

In this paragraph we list a number of media partners which can effectively assist the dissemination activities of INTERACT.

| Channel | Site | Description | Audience addressed | INTERACT benefits |
|--------------------|---|---|-----------------------------|--|
| CORDIS news | http://cordis.europa.eu/news/home_en.html | CORDIS is the European Commission's research results portal. CORDIS News looks at recent developments in research and innovation in Europe and beyond with a focus on political matters, interviews, events, and projects as well as other news related to research and innovation in Europe. Suitable stories to be published on the site are selected on a daily basis. | European research community | Advertise events and stimulate European community to INTERACT activities. Increase project awareness |
| CORDIS Wire | http://cordis.europa.eu/wire/ | CORDIS Wire functions as a small press agency, issuing news releases and event announcements submitted by EU funded projects. | European research community | Advertise events and stimulate European community to INTERACT |

| | | | | |
|---|---|---|--|--|
| | | | | activities. Increase project awareness |
| research*eu results magazine | http://cordis.europa.eu/research-eu/magazine_en.html | Publishes highlights from EU-funded research and development projects. It is published 10 times per year in English | Worldwide | Disseminate results |
| Events on the Commission's Research & Innovation website | http://www.ec.europa.eu/research/index.cfm?pg=conferences&filter=all | This website displays research-related conferences and events. | European | Advertise events organized by INTERACT consortium. |
| EU researcher | http://www.euresearcher.com/ | EU Research is a dissemination journal focusing on pioneering frontier research. | Worldwide (33 countries, 50.000 readers) | Disseminate project results. |

Events

A non-exhaustive list of international exhibitions and conferences, which have been identified through previous efforts, and which INTERACT will try to attend for dissemination purposes is given below.

| Event | Type of event | Date | Place | Site | INTERACT benefits |
|-------------------------------------|----------------------|-------------------|-----------|---|--|
| CEBIT 2015 / 2016 | Exhibition /Congress | 16 -20 March 2015 | Hannover | www.cebit.de/home | Representatives from companies within the consortium present results to potential customers |
| SPS IPC Drives 2015/2016 | Exhibition /Congress | | Nuremberg | http://www.mesago.de/en/SPS/ | Partners attendance for project's dissemination (e.g. poster session) and present results to potential customers |
| Hannover Messe Industrie HMI | Exhibition /Congress | 13-17 April 2015 | Hannover | http://www.hannovermesse.de/home | Partners attendance for project's dissemination (e.g. poster session) |

| | | | | | |
|---|-------------------------|-----|--------|---|--|
| Baika Jahreskongress: Zulieferer Innovativ 2015, 2016 | Exhibition /Congress | | Munich | http://www.bayern-innovativ.de/zulieferer2014? | Partners attendance for project's dissemination (possibility for one-to-one meetings) |
| Polski Kongres Logistyczny LOGISTICS 2016 | Exhibition /Congress | TBD | Poland | http://www.logistics.pl/en/ | Partners attendance for project's dissemination (e.g. poster session, leaflets) and present results to potential customers |
| International Exhibition Supply Chain & Logistics 2015, 2016 | Exhibition /Congress | | Athens | http://www.supplychainexpo.gr/ | Partners attendance for project's dissemination (e.g. poster session, leaflet) |

Moreover a list of relevant to INTERACT subject scientific conferences and journals is given below:

- Publications in targeted conferences.
 - GfA-Konferenz (German Association of Ergonomics): every year (next 2014)
 - IEA conference (International Ergonomic Association): every 2 years (next 2016)
 - AHFE conference (Applied Human Factors and Ergonomics): every 2 years (next 2016)
 - HCII (Human Computer Interaction International): every 2 years (next 2015)
 - International Conference on Digital Enterprise Technology (DET),
 - CIRP conference on Manufacturing Systems
 - CIRP Design Conference
 - CIRPe Web Conference
 - International Conference on Computational Linguistics (COLING)
 - ACM Conference on Pervasive and Ubiquitous Computing (UBICOMP)
 - ACM Symposium on User Interface Software and Technology (UIST)
- Publications in scientific journals.
 - Journal of Systems Engineering and Electronic
 - International Journal of Computer Integrated Manufacturing (IJCIM)
 - Human Factors and Ergonomics in Manufacturing & Service Industries
 - Human-Machine Systems, IEEE Transactions on

Open Workshop: One open workshop will be organised at the end of the project to disseminate internationally the project results and main conclusions.

Industrial workshops: Series of workshops will be organised at the industrial partners premises to transfer the knowledge produced in this project and most importantly to capture the industrial feedback on the project developments. These workshops will involve external experts and production specialists.

1.6. INTERACT dissemination activities execution and internal coordination

LMS, as dissemination leader, is responsible for the internal coordination of the dissemination activities and will work on ensuring that some key principles are met when dissemination activities are met:

- At least 45 days prior notice of any dissemination activity shall be given to the other beneficiaries concerned, including sufficient information concerning the planned dissemination activity and the data envisaged to be disseminated.
- All publications or any other dissemination relating to foreground shall include the following statement to indicate that said foreground was generated with the assistance of financial support from EU: *“The research leading to these results has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 611007.*
- The project logo and EC and FP7 logo (to acknowledge the funding) are always included in all dissemination material.

For the preparation and evaluation of each dissemination activity the consortium member(s) that have been identified as the main partner to carry on the activity should provide an analysis of the activity that need to consider the following aspects:

- *Objective:* Define the objective of the activity. Why should INTERACT participate in the event?
- *Start/End Date:* Define when the activity will take place.
- *Target Audience*
- *Message/Abstract:* What will be communicated to the target audience?
- *Material:* What is the material required to communicate the message? Presentation, video, demonstrator etc.
- *Budget:* The estimated budget for the event.

For that reason specific template documents have been provided to the consortium member to fill in before (Dissemination Event Template, INTERACT Intent to publish Template) and after the execution of the activity (Dissemination Activity Report Template). The internal process will be as follows:

1. Project beneficiary: Fills in INTERACT Dissemination Event Template or INTERACT Intent to publish Template (for scientific publications) and sends it to the Consortium mailing list (all).
2. All: E-mail potential objection within two weeks. The publication is considered approved if no objection is communicated. Else, Dissemination Manager must inform and monitor applicant.
3. Dissemination Manager (LMS): Updates the Dissemination Plan.
4. Beneficiary: Performs activity and fills in Dissemination Activity Report Template. Informs Dissemination manager providing any type of publication identification number including link after publication.
5. Dissemination Manager (LMS): Updates Dissemination Log (in the private portal) and portal if appropriate.

1.7. INTERACT dissemination feedback and evaluation

In INTERACT there will be a mechanism to evaluate the success of dissemination so as to continuously improve the effectiveness of the activities. Three mechanisms will be setup in order to enhance the dissemination effectiveness:

- A list of measurable objectives and the associated metrics will be setup to monitor success of different dissemination activities.
- Reports generated after each dissemination activity detailing its real and/or perceived effectiveness and feedback received from the targeted audience.
- Periodic evaluation meetings by the consortium in order to share views on the dissemination work being undertaken.

The following table defines a list of measurable objectives and the associated metrics to the success of several dissemination activities.

| Activity | Measureable Objective |
|---|--|
| Publications | <p>The number of scientific publications prepared by INTERACT partners. The target according to DoW is:</p> <ul style="list-style-type: none"> - 12 publications in journals and leading conferences - 10 publications in conferences (on top of the 12 above) |
| Events | <ul style="list-style-type: none"> - Percentage of audience that has shown interest to the project after the event (can be measured by collecting business cards). - Size of audience attending events where INTERACT will be as speaker. - Feedback obtained from audience (can be measured by emails received or follow-up activities). - Number of INTERACT leaflets distributed. |
| Social Media | <ul style="list-style-type: none"> - Twitter <ul style="list-style-type: none"> o Number of tweets from/to INTERACT o Number of followers. - LinkedIn <ul style="list-style-type: none"> o Number of discussions. o Number of members in INTERACT group in LinkedIn. |
| Portal | <ul style="list-style-type: none"> - Number of visitors and unique visitors to the portal. - Number of page views to the portal. - Demographics of portal visitors (countries). |
| Clustering (collaboration with other projects) | <ul style="list-style-type: none"> - Number of involvements in the organization/participation in joint research forums with other national/international projects - Instances of participation in EU and cluster meetings |
| Newsletter | <ul style="list-style-type: none"> - Number downloads from portal - Number of emails sent with the newsletter. |

INTERACT Portal Activity (for period 1/11/2013 to 1/9/2014)

Google Analytics has been used to monitor the activity in INTERACT public portal². Using Google Analytics the following numbers have been recorded:

| Performance measure | Value |
|-----------------------|---|
| Sessions | 2.175 |
| Users | 1.420 |
| Pageviews | 5.162 |
| Avg. Session Duration | 00:01:36 |
| Bounce Rate | 70% |
| New visitors | 65% |
| Countries/Location | <ol style="list-style-type: none"> Germany 516 (23.72%) Greece 480 (22.07%) Brazil 177 (8.14%) France 128 (5.89%) Sweden 100 (4.60%) Poland 87 (4.00%) United States 80 (3.68%) Italy 62 (2.85%) United Kingdom 56 (2.57%) Switzerland 40 (1.84%) |

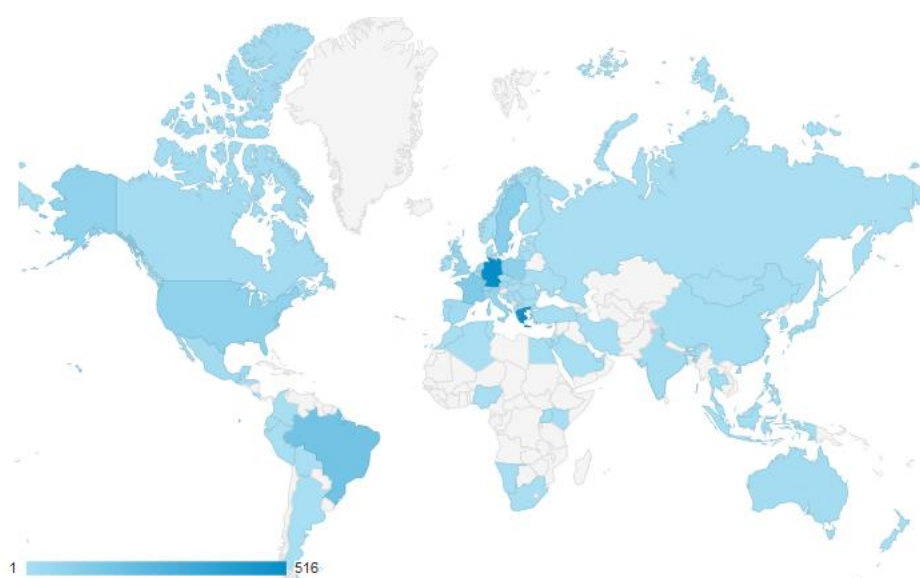


Figure 6: Map of countries (in blue) that have visited INTERACT portal

² The activity reported involves only the INTERACT public portal however it does not exclude the activity of INTERACT partners when they visit the public portal.

2. DETAILED DISSEMINATION PLAN

| Type of activity[1] | Main leader[2] | Title | Planned Date / Period | Place | Type of target audience[3] | Countries addressed[4] |
|-------------------------------------|--------------------------------|--|------------------------------|--------------|--|--|
| Leaflet | LMS | Project leaflet v1 | 30/6/2014 | Portal | All | All |
| Leaflet | LMS | Project leaflet v2 | 1/4/2016 | Portal | All | All |
| Poster | LMS | Project poster v1 | 30/6/2014 | Portal | All | All |
| Poster | LMS | Project poster v2 | 1/4/2016 | Portal | All | All |
| Newsletter | LMS | Newsletter issue 2 | 1/10/2014 | Portal | All | All |
| Newsletter | LMS | Newsletter issue 3 | 1/4/2015 | Portal | All | All |
| Newsletter | LMS | Newsletter issue 4 | 1/10/2015 | Portal | All | All |
| Newsletter | LMS | Newsletter issue 5 | 1/4/2016 | Portal | All | All |
| Newsletter | LMS | Newsletter issue 6 | 1/10/2016 | Portal | All | All |
| Workshop | All | INTERACT open industrial workshop | 1/9/2016 | TBD | Industry | Europe (mainly), international |
| Report | LMS | Report to European Technology Platform (ETP) Manufuture platform | 1/8/2016 | N/A | Manufuture community, industry, academia | Europe (mainly), international |
| Exhibition/Poster | INTRASOFT, EMPHASIS | CEBIT 2015 | 16/3/2015 | Hannover | Industry | International |
| Exhibition/Poster | INTRASOFT | CEBIT 2016 | TBD | Hannover | Industry | International |

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|-------------------|----------------|---|-----------|----------|----------|--------------------------------|
| ster | , EMPHASIS | | | | | |
| Exhibition/Poster | IMK, INTRASOFT | Hannover Messe Industrie 2015 | 13/5/2015 | Hannover | Industry | International |
| Exhibition/Poster | IMK, INTRASOFT | Hannover Messe Industrie 2016 | TBD | Hannover | Industry | International |
| Conference/Poster | INTRASOFT | BAIKA Jahreskongress 2015 | TBD | Germany | Industry | International |
| Conference/Poster | INTRASOFT | BAIKA Jahreskongress 2016 | TBD | Germany | Industry | International |
| Exhibition/Poster | HADATAP | Polski Kongres Logistyczny LOGIGISTICS 2016 | TBD | Poland | Industry | International |
| Exhibition/Poster | EMPHASIS | International Exhibition Supply Chain & Logistics | TBD | Greece | Industry | International |
| Workshop | All | Industrial Interest Group info day 1 | TBD | TBD | Industry | Europe (mainly), international |
| Workshop | All | Industrial Interest Group info day 2 | TBD | TBD | Industry | Europe (mainly), international |
| Reports | LMS | Deliverables D1.1.1, 1.2.1, 1.3.1 | 1/1/2015 | Portal | All | International |
| Report | IMK | Deliverables D2.1.1 | 1/1/2015 | Portal | All | International |
| Report | EMPHASIS | Deliverables D3.1.1 | 1/1/2015 | Portal | All | International |
| Report | LMS | Deliverables D4.1.1 | 1/1/2015 | Portal | All | International |
| Report | INTRASOFT | Deliverables D5.1.1 | 1/1/2015 | Portal | All | International |
| Prototype | INTRASOFT | Deliverables D5.3.3 | 30/4/2016 | Portal | All | International |
| Report | INTRASOFT | Deliverables D5.4.1 | 30/4/2016 | Portal | All | International |

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| Report | INTRASOFT | Deliverables D5.4.2 | 1/1/2017 | Portal | All | International |
| Report | LMS | Deliverable D7.1.1 | 1/1/2015 | Portal | All | International |
| Report | LMS | Deliverable D7.1.2 | 1/1/2016 | Portal | All | International |
| Report | LMS | Deliverable D7.1.3 | 1/1/2017 | Portal | All | International |

3. DISSEMINATION ACTIVITIES UNDERTAKEN

In Table 3 below a list with all project dissemination activities is reported. This list is cumulative starting from the beginning of the project.

| No | Type of activity ³ | Main leader ⁴ | Title | Date / Period | Place | Type of audience ⁵ | Size of audience | Countries addressed ⁶ |
|----|----------------------------------|--------------------------|--|------------------------|------------------|---|------------------|----------------------------------|
| 1 | Project web portal | LMS | INTERACT project web portal | 1/11/2013 – 30/09/2014 | Internet | All types | 1000 | Worldwide |
| 2 | Presentation of INTERACT project | LMS | Brainstorming Workshop “Towards 2030 InterNet Business Innovation | 20 March 2014 | Athens, Greece | Research community | 50 | Europe |
| 3 | Newsletter | LMS | INTERACT Newsletter issue 1. | 5 May 2014 | Internet | All types | 200 | Worldwide |
| 4 | INTERACT Twitter account | LMS | INTERACT Twitter | 1/10/2013 - TBD | Internet | All types | 300 | Worldwide |
| 5 | INTERACT LinkedIn | LMS | INTERACT LinkedIn | 1/10/2013 - TBD | Internet | Professionals | 100 | Europe (mainly) |
| 6 | Brochure/Leaflet | LMS, Daimler | INTERACT brochure | 1/9/2014 | Internet/ Events | All types | 300 (print outs) | Worldwide/ Europe (mainly) |
| 7 | Paper presentation | Daimler | Automatic proposal of assembly work plans with a controlled natural language | 24/7/2014 | Naples | Scientific, international, production engineering | 30 | Worldwide |

³ Possible dissemination activity: workshops, web, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters, Other.

⁴ INTERACT partner: Daimler, Electrolux etc..

⁵ Type of audience: Scientific Community (higher education, Research), Industry, Civil Society, Policy makers, Medias ('multiple choices' is possible).

⁶ Countries addressed: countries' name, Europe, Worldwide, regions

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|----|--------------------|--------------|---|------------|-----------------------|--|-----|--------------------------|
| | | | | | | background | | |
| 8 | Paper presentation | Daimler | Improving A* walk trajectories with B-splines and motion capture for manual assembly verification | 24/7/2014 | Naples | Scientific, international, production engineering background | 30 | Worldwide |
| 9 | Presentation | Daimler | Das EU-Projekt INTERACT – Montageabsicherung mit statistisch erzeugten Werkerbewegungen | 11/09/2014 | Aachen | + Automotive industry + Research + Standardization societies | 100 | German |
| 10 | Presentation | Daimler, IMK | Automatisiert zur 3D-abgesicherten Montageplanung, Fachkongress: Digitale Fabrik@Produktion | 04/11/2014 | Braunschweig, Germany | + Automotive + Aerospace + PLM industry | 200 | German (mainly)/European |

Table 3: Dissemination activities log

In Table 4 the list of project scientific publications is reported.

| No | Title | Main Author | Title of the journal or the conference | Number, date. | Publisher | Place of publication | Year of publication | Relevant pages | Permanent identifiers ⁷ (if available) | Is open access provided to this publication ⁸ |
|----|--|-------------|--|---------------|-----------|----------------------|---------------------|----------------|---|--|
| 1 | Automatic proposal of assembly work plans with a | Manns, M. | 9th CIRP Conference on Intelligent | 24/7/2014 | | | 2014 | | | |

⁷ A permanent identifier should be a persistent link to the published version full text if open access or abstract if article is pay per view) or to the final manuscript accepted for publication (link to article in repository)

⁸ Open Access is defined as free of charge access for anyone via Internet. Please answer "yes" if the open access to the publication is already established and also if the embargo period for open access is not yet over but you intend to establish open access afterwards.

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|---|---|-----------|---|-----------|--|--|------|--|--|--|
| | controlled natural language | | Computation in Manufacturing Engineering - CIRP ICME '14 | | | | | | | |
| 2 | Improving A* walk trajectories with B-splines and motion capture for manual assembly verification | Manns, M. | 9th CIRP Conference on Intelligent Computation in Manufacturing Engineering - CIRP ICME '14 | 24/7/2014 | | | 2014 | | | |

Table 4: List of scientific publications

4. CONCLUSIONS

This document constitutes the first step in the definition framework for the dissemination and spreading excellence of INTERACT main achievements and results. It sets the roots for the joint effort in dissemination of the INTERACT consortium. Publication of the project results, their dissemination through the INTERACT portal and other appropriate scientific media channels, along with the organization of the four INTERACT workshop events with the Industrial Interest Group will help us reach a wide spectrum of audience, and spread the word about INTERACT. A revised version of this plan will be presented in the next WP7 deliverables.