Cyber Physical System based Proactive Collaborative Maintenance

D8.3 Communication and Dissemination Report

WP8 - Dissemination of knowledge and exploitation
Version 1.1
Contractual Date of Delivery 7/11/2016 (M18)
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Dissemination Level Public
Responsible ISEP

Reviewers Michele Albano, Urko Zurutuza
The MANTIS consortium consists of:

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Document Revisions & Quality Assurance

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Abstract

This deliverable describes in detail the dissemination activities of the MANTIS project from Month 1 to Month 18 (1st May 2015-31st October 2016). It provides insights on partners’ actions on Web sites, social networks, research activities such as conferences and Journals, and events where MANTIS participants have been active. This report also updates the dissemination plans of each partner, trying to intensify project dissemination, especially to the general public.
# Table of Contents

1. Introduction .................................................................................................................. 4

2. Dissemination Activities .............................................................................................. 6
   2.1 Public dissemination channels.................................................................................. 6
       2.1.1 Web Site ....................................................................................................... 6
       2.1.2 Social Media ................................................................................................. 10
       2.1.3 Press releases and Blog entries ..................................................................... 13
       2.1.4 Brochures, Flyers and Posters ..................................................................... 16
       2.1.5 Workshops, seminars and exhibitions ........................................................... 16
       2.1.6 Education and Training (E&T) activities ...................................................... 18
       2.1.7 Publications: journals, conferences and thesis ............................................. 18
       2.1.8 Fairs, and events ........................................................................................... 19
   2.2 Internal dissemination channels .............................................................................. 20
       2.2.1 Mailing lists and Internal Newsletter ............................................................. 20
       2.2.2 Teleconferences ............................................................................................ 20
       2.2.3 EMDESK project management tool ............................................................ 20
       2.2.4 Face-to-face Meetings .................................................................................. 20
       2.2.5 Webinars ....................................................................................................... 22

3. Dissemination plan ......................................................................................................... 23
   3.1 Mondragon Goi Eskola Politeknikoa J.M.A. S.Coop. ............................................. 23
   3.2 MONDRAGON - Mondragon Corporacion Cooperativa S.Coop. .......................... 24
   3.3 IKERLAN - Ikerlan S.Coop. .................................................................................... 24
   3.4 TEKNIKER - Fundacion Tekniker ....................................................................... 25
   3.5 FARR - Fagor Arrasate S.Coop. ............................................................................. 26
       3.5.1 KONIKER - Koniker S.Coop. (Fagor Arrasate Third Party) ......................... 26
   3.6 GOIZPER - Goizper S.Coop. .................................................................................. 26
   3.7 ACCIONA - Acciona Infraestructuras ................................................................. 27
   3.8 MSI - Mondragon Sistemas De Informacion S.Coop. ............................................ 27
   3.9 VTT – Teknologian Tutkimuskeskus .................................................................... 27
   3.10 Lapin - Ammattikorkeakoulu Oy ....................................................................... 28

MANTIS

http://www.mantis-project.eu
| 3.11 | NOMÉ – Nome Oy                                             | 28 |
| 3.12 | FORTUM - Fortum Power And Heat Oy                         | 29 |
| 3.13 | SQ - Solteq Oy                                             | 29 |
| 3.14 | WAPICE - Wapice Oy                                         | 29 |
| 3.15 | AAU - Aalborg Universitet                                   | 30 |
| 3.16 | DANFOSS - Danfoss A/S                                       | 30 |
| 3.17 | UNIV - Universal Foundation A/S                            | 30 |
| 3.18 | HGE - Hg Electric A/S                                       | 30 |
| 3.19 | VESTAS - Vestas Wind Systems A/S                            | 31 |
| 3.20 | SIRRIS - Sirris Het Collectief Centrum Van De Technologische Industrie | 31 |
| 3.21 | ILIAS - Ilias Solutions Nv                                  | 31 |
| 3.22 | ATLAS - Atlas Copco Airpower Nv                            | 32 |
| 3.23 | 3E - 3e Nv                                                  | 32 |
| 3.24 | PCL - Philips Consumer Lifestyle B.V.                       | 32 |
| 3.25 | PHC - Philips Medical Systems Nederland B.V.                 | 33 |
| 3.26 | PHILIPS - Philips Electronics Nederland B.V.                | 33 |
| 3.27 | S&T - Science and Technology B.V.                          | 33 |
| 3.28 | TU/E - Technische Universiteit Eindhoven                   | 34 |
| 3.29 | RUG - Rijksuniversiteit Groningen                           | 34 |
| 3.30 | UNINOVA - Instituto de Desenvolvimento de Novas Tecnologías | 34 |
| 3.31 | ISEP - Instituto Superior de Engenharia do Porto            | 35 |
| 3.32 | INESC - Instituto de Engenharia de Sistemas e Computadores do Porto | 36 |
| 3.33 | ADIRA - Metal Forming Solutions S.A.                        | 37 |
| 3.34 | ASTS - Ansaldo STS S.p.A.                                   | 37 |
| 3.35 | CINI - Consorzio Interuniversitario Nazionale per l’Informatica | 38 |
| 3.36 | AIT - Austrian Institute of Technology GmbH                 | 38 |
| 3.37 | HBM - Hottinger Baldwni Messtechnik GmbH                    | 38 |
| 3.38 | INNOTEC - Innovative Technology and Science Limited         | 38 |
| 3.39 | AITIA - International Inc.                                  | 39 |
| 3.40 | BME - Budapest University of Technology and Economics        | 39 |
| 3.41 | JSI - Jožef Stefan Institute                                | 40 |
4 Conclusions

40 XLAB - XLAB d.o.o.

41 FHG - Fraunhofer Institute for Experimental Software Engineering IESE

42 M2X - M2Xpert GmbH & Co KG

42 STILL - Still GMBH

42 BOSCH - Robert Bosch GMBH

42 LIEBHERR - Liebherr-Hydraulikbagger GmbH

44 Conclusions
1 Introduction

The dissemination activities of the project are part of task 8.1 (Communication and Dissemination activities). The main objective of task 8.1 is to make relevant stakeholders aware of project results and guide the dissemination strategy of the project, with the following objectives:

a) Promote and disseminate the results of the project as they become available, targeting with different kinds of audiences.

b) Actively participate in exhibitions and/or organise events (workshops, special issues in magazines / journals) to disseminate the evolving project results.

The dissemination of the project and of its results is an important activity which provides visibility to the project’s activities, increasing the opportunities for public promotion, and fostering exploitation opportunities. Without these activities, the technical achievements of the project would be unnoticed, and thus be unable to achieve the expected impact. There is a double purpose in this actions, raising awareness for the project and its results within specifically targeted communities, among both public and private stakeholders, and informing the general public in order to raise awareness of the MANTIS approach, capabilities and advantages, benefiting the general society. Previously, in [2], we identified a total of 4 strategic audience groups and MANTIS partners will have specific strategies to spread the project results for each one of them:

1. Potential users of the MANTIS technology
2. Artemis and H2020 community
3. Engineers and Scientists
4. General public

These audience groups will be reached by a set of dissemination channels, which target not only the groups stated above, but also to distribute information among project partners (due to the project dimension). The dissemination channels selected were the following:

1. Web Site
2. Social Media (LinkedIn, Slideshare, YouTube, Research Gate and other social media supported by partners)
3. Press releases
4. Brochures, Flyers and Posters
5. Workshops, seminars and exhibitions
6. Education and Training (E&T) activities
7. Fairs, and events
8. Publications in Journals and Conferences
9. Internal dissemination channels
10. Mailing lists and Internal Newsletter, teleconferences, EMDESK project management tool, Face-to-face meetings and webinars
The remainder of this report describes the dissemination activities that have been taken from the start of the project until month 18, (October 2016), This report also contains updated dissemination plans from partners.
2 Dissemination Activities

To reach the stakeholders identified and to increase the potential visibility of the project, a wide variety of dissemination channels have been used by the project partners. This section describes the dissemination activities which have been taken by the project partners. It is split in two main sections, the first being related with public dissemination activities thus constituting the bulk of this report. The second section is related to the internal dissemination activities.

2.1 Public dissemination channels

This section describes the usage of dissemination channels to reach the target audience of the MANTIS project.

2.1.1 Web Site

A website has been created (http://www.mantis-project.eu/) to provide general public access both to the project information (objectives, partners, scope, etc.), and news, events, publications and presentations of the project, but most importantly to information about the products that integrate the MANTIS technology.

The MANTIS website is considered the core tool for information diffusion for external stakeholders. The partners of the project contributed with constant updates to the website, using the home page as a blog with fresh and constantly updated content, which already counts with more than 16 entries, by multiple partners.

To ensure this constant content update of blog posts, a specific template has been created and shared, which ensures that content writers generate the post with a set of keywords in mind, thus facilitating SEO (Search Engine Optimization) tasks, and aiming at positioning the blog contents in early results of the main Search Engines.
Figure 1 – MANTIS template for writing a post in the Web

So far all partners are scheduled to publish MANTIS-related content. Every week, the content is added to the web site. Table 1 shows the published posts.

Table 1 – Web site entries

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2.1.1.1 Web Site Analytics in the M01-M18 Period

The next picture shows the basic parameters of the Web site audience during the period:

![Web Site Analytics](image)

Figure 2 — MANTIS website statistics from M01 – M18
Regarding the countries that have reached the web site, Spain accounts for the 12.31% of the sessions. We can remark that United States accounts for the 4th country:

Table 2 – MANTIS website audience, by country

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<th>Country</th>
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<td>673</td>
<td>12.31%</td>
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<td>2. Netherlands</td>
<td>561</td>
<td>10.08%</td>
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<tr>
<td>3. United Kingdom</td>
<td>526</td>
<td>9.62%</td>
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<tr>
<td>4. United States</td>
<td>463</td>
<td>8.47%</td>
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<tr>
<td>5. Russia</td>
<td>413</td>
<td>7.56%</td>
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<td>6. Germany</td>
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<td>6.57%</td>
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<td>7. Portugal</td>
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<tr>
<td>9. (not set)</td>
<td>236</td>
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<td>10. Belgium</td>
<td>168</td>
<td>3.07%</td>
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But MANTIS web site has reached all the globe, as depicted in Figure 3.

Our objective for the next period is to increase the visibility, target more general audience, and the partners will approach it with targeted keywords, aiming at appearing in the first results of the Search Engines for a set of words like “proactive maintenance”, “predictive maintenance”, “maintenance services research”.

Figure 3 – Worldwide audience of the MANTIS website
### 2.1.2 Social Media

The MANTIS project has selected several social media channels for dissemination activities. In particular, it is focused on: LinkedIn, Slideshare and YouTube.

Apart from that, the partners leveraged their extensive contact network and social media channels to reach out to a targeted wide audience. In fact, results related to MANTIS were disseminated through the partners’ own channels in other social media like, Facebook, Twitter or Instagram.

**YouTube**

Due to the dimensions of the industrial installations to be addressed by the MANTIS project, the partners identified the need to show their use-case to other project partners and to the external public by filming a video describing their problems to be solved by MANTIS, their installation and planned solutions. These videos were first made available, internally, using EMDESK and are some are now available on MANTIS YouTube channel.

This website has a very large audience base, which is used by most of the target audience groups defined on Section 2.

The address of the MANTIS Youtube Channel is: https://www.youtube.com/channel/UC_fVRXZdvcWMj0b25N5Uww.

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<tr>
<td>RUG</td>
<td>Robot ALICE Maintenance task concept</td>
<td>15/10/2016</td>
</tr>
<tr>
<td>3E</td>
<td>MANTIS Project - Photovoltaics Use-case</td>
<td>28/10/2016</td>
</tr>
<tr>
<td>Acciona</td>
<td>Pultrusion Line Use-case</td>
<td>28/10/2016</td>
</tr>
<tr>
<td>Koniker</td>
<td>Press Machine Maintenance</td>
<td>10/07/2016</td>
</tr>
</tbody>
</table>

**Slideshare**

Until the moment no partners used the MANTIS slideshare account.

---

1 Available publicly on Youtube on the 11/11/2016
Research gate

ResearchGate is a website which is used by researchers to share their work: papers, projects, data sets, etc. The ResearchGate website allows to create projects, which are entities used to group together research efforts related to joint work in the context of research projects, and publish updates to subscribed researchers regarding project’s resources (papers, public data, etc.).

We created a MANTIS project in this website (https://www.researchgate.net/project/MANTIS) and it is being used to relate the MANTIS project to the papers published consequently disseminating its results.

Like in the case of LinkedIn, the Research Gate project is updated regularly with selected entries from the website blog, mostly entries which can be of interest to the scientific community.

LinkedIn

A MANTIS group has been created in LinkedIn https://www.linkedin.com/groups/8343629. The LinkedIn group reports the main achievements of the project, the participation in events, the milestones reached, and the press releases that were distributed. In this sense, the LinkedIn group has been a channel to provide stronger visibility to selected items among the news reported on the MANTIS website. The entrance to this LinkedIn group is open, all MANTIS participants have been invited. The LinkedIn group is also used to link with other projects of interest. To maintain a constant activity, the LinkedIn group is updated regularly with selected entries from the website blog, which are listed in Table 1.

Figure 4 shows a view on the content and interactions which occur in this group.
Figure 4 – MANTIS LinkedIn Group

Other social media

This item is related to the usage of other social media, like Facebook, which were not described before. Most of these entries are accounted for on Table 4, which is related to Press releases and Blog entries.
## 2.1.3 Press releases and Blog entries

Table 4 – Press releases and Blog entries

<table>
<thead>
<tr>
<th>Main leader (Owner(s))</th>
<th>Title</th>
<th>Date</th>
<th>Place</th>
<th>Type of Audience</th>
<th>Size of audience</th>
<th>Countries addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUAS</td>
<td>A short press release informing starting of the MANTIS-project and presenting shortly the project and its goals.</td>
<td>12/05/2015</td>
<td>The newsletter was published in 8 different media all over Finland (newspapers, magazines, radio, internet news)</td>
<td>Scientific community, Industry, Civil society, Policy makers, Media</td>
<td>&gt;200.000</td>
<td>Finland</td>
</tr>
<tr>
<td>MGEP</td>
<td>Press release informing the MANTIS Kick Off Meeting</td>
<td>02/06/2015</td>
<td>Newspapers</td>
<td>Scientific community, Industry, Civil society, Policy makers, Media</td>
<td>&gt;100.000</td>
<td>Spain</td>
</tr>
<tr>
<td>Source</td>
<td>Description</td>
<td>Date</td>
<td>Type</td>
<td>Location</td>
<td>Target Audience</td>
<td>Readership</td>
</tr>
<tr>
<td>--------</td>
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<td>------</td>
<td>----------</td>
<td>-----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>ISEP</td>
<td>Mention that MANTIS project was represented at the ICT 2015 Conference</td>
<td>20/10/2015</td>
<td><a href="http://www.cister.isep.ipp.pt/news/290/cister-participates-in-ict-2015/">http://www.cister.isep.ipp.pt/news/290/cister-participates-in-ict-2015/</a></td>
<td>Academia, Industry</td>
<td>1000</td>
<td>Europe, focus on Portugal</td>
</tr>
<tr>
<td>LUAS</td>
<td>Interview for a Finnish magazine regarding IoT and MANTIS-project</td>
<td>03/12/2015</td>
<td>Magazine, Kemi, Finland</td>
<td>Civil society</td>
<td>NA</td>
<td>Finland</td>
</tr>
<tr>
<td>MGEP, IKERLAN, FARR</td>
<td>Press release: &quot;MU lidera un proyecto europeo junto con Ikerlan, Fagor Arrasate y Koniker&quot;</td>
<td>12/04/2016</td>
<td>Newspaper, Basque Country</td>
<td>Industry, Civil society, Media</td>
<td>250.000</td>
<td>Spain</td>
</tr>
<tr>
<td>FARR</td>
<td>Industry 4.0 Evolución o Revolución. Technical article by Oier Alvarez in the Metalindustria Magazine</td>
<td>01/06/2016</td>
<td>N/A</td>
<td>Scientific community, Industry, General Public, Customers</td>
<td>3000</td>
<td>Spain</td>
</tr>
<tr>
<td>Platform</td>
<td>Description</td>
<td>Date</td>
<td>Details</td>
<td>Audience</td>
<td>Reach</td>
<td></td>
</tr>
<tr>
<td>----------</td>
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<td></td>
</tr>
</tbody>
</table>
2.1.4 Brochures, Flyers and Posters

Posters have been used in all Consortium meetings, and also in some events, like in Sirris’ event with the title “On How to optimise operation and maintenance of your fleet of machines? Try a data-driven approach!” Flyers and brochures have also been used to spread the MANTIS project results on several events and used by partners to publicise the MANTIS project near their partners.

2.1.5 Workshops, seminars and exhibitions

Table 5 – List of Workshops, seminars and exhibitions

<table>
<thead>
<tr>
<th>Main leader (Owner(s))</th>
<th>Title</th>
<th>Date</th>
<th>Place</th>
<th>Type of Audience</th>
<th>Size of audience</th>
<th>Countries addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISEP</td>
<td>Industrial IoT, invited talk given by Luis Lino Ferreira, related with MANTIS, Arrowhead, CarCode and ENCOUAGE projects on the Industry day of the WFCS 2016 conference.</td>
<td>03/05/2016</td>
<td>Aveiro University</td>
<td>Scientific community, Industry</td>
<td>60</td>
<td>Portugal</td>
</tr>
<tr>
<td>MGEP</td>
<td>Proactive Maintenance: The MANTIS Project</td>
<td>04/05/2016</td>
<td>Mondragon</td>
<td>Industry</td>
<td>60</td>
<td>Spain</td>
</tr>
<tr>
<td>TEKNIKER</td>
<td>Conference in the Maintenance Innovation Conference by Aitor Arnaiz (IKI-TEKNIKER) “El concepto Big Data’ y su aplicació n prá ctica en el mundo del mantenimiento” (The concept of ‘Big Data’ and it</td>
<td>02/06/2016</td>
<td>Bilbao Exhibition Center</td>
<td>Scientific community, Industry, General Public</td>
<td>80</td>
<td>Spain</td>
</tr>
<tr>
<td>Organization</td>
<td>Event Description</td>
<td>Date</td>
<td>Location</td>
<td>Audience</td>
<td>Country</td>
<td>Country Components</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------</td>
<td>------------</td>
<td>----------</td>
<td>----------</td>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td>ILIAS</td>
<td>Presentation of the MANTIS-based platform during the ILIAS User Community Meeting</td>
<td>06/09/2016</td>
<td>Belgium</td>
<td>Industry, Customers</td>
<td>Belgium, Chile, Netherlands, United States,</td>
<td></td>
</tr>
<tr>
<td>MONDRAGON S COOP</td>
<td>MONDRAGON Innovation and Technology Plenary Session - July 2015</td>
<td>02/07/2015</td>
<td>Arrasate (Spain)</td>
<td>Scientific community, Industry</td>
<td>Spain</td>
<td></td>
</tr>
<tr>
<td>MGEP</td>
<td>Technical Challenges of the MANTIS project, ARTEMIS Technology Conference</td>
<td>06/10/2015</td>
<td>Turin, Italy</td>
<td>Scientific community, Industry</td>
<td>Europe</td>
<td></td>
</tr>
<tr>
<td>WAPICE</td>
<td>Presenting shortly Mantis project and Wapice activities for Vaasa energy cluster companies</td>
<td>19/11/2015</td>
<td>Vaasa</td>
<td>Industry, Policy makers</td>
<td>UK</td>
<td></td>
</tr>
<tr>
<td>MONDRAGON S COOP</td>
<td>MONDRAGON Innovation and Technology Plenary Session - January 2016</td>
<td>14/01/2016</td>
<td>Arrasate</td>
<td>Scientific community, Industry</td>
<td>Spain</td>
<td></td>
</tr>
<tr>
<td>MONDRAGON S COOP</td>
<td>Periodic report with Basque Government office in Brussels</td>
<td>22/02/2016</td>
<td>Brussels (Belgium)</td>
<td>Policy makers</td>
<td>Spain</td>
<td></td>
</tr>
<tr>
<td>FHG</td>
<td>Proactive Maintenance for Commercial Vehicles</td>
<td>10/03/2016</td>
<td>University of Kaiserslautern, Germany</td>
<td>Scientific community, Industry</td>
<td>Germany &amp; Europe</td>
<td></td>
</tr>
<tr>
<td>LUAS</td>
<td>Introducing MANTIS-project in &quot;Rikasta Pohjoista&quot; seminar</td>
<td>15/04/2016</td>
<td>Kemi, Finland</td>
<td>Industry</td>
<td>Finland</td>
<td></td>
</tr>
<tr>
<td>JSI</td>
<td>International Conference on Smart Systems and Technologies (SST 2016), invited talk given by Gregor Papa, to present the MANTIS project.</td>
<td>13/10/2016</td>
<td>Osijek, Croatia</td>
<td>Scientific community</td>
<td>Europe</td>
<td></td>
</tr>
<tr>
<td>Sirris</td>
<td>Fleet-based analytics for data-driven operation and maintenance optimization</td>
<td>24/10/2016</td>
<td>Gent Belgium</td>
<td>Scientific community, Industry</td>
<td>Belgium</td>
<td></td>
</tr>
<tr>
<td>FHG</td>
<td>Konfigurationskonzepte im Bezug auf die Digitalisierung</td>
<td>30/09/2016</td>
<td>Stuttgart</td>
<td>Industry</td>
<td>Germany</td>
<td></td>
</tr>
</tbody>
</table>

http://www.mantis-project.eu
2.1.6 Education and Training (E&T) activities

The MANTIS technology is not mature enough to organize these kinds of events.

2.1.7 Publications: journals, conferences and thesis

Book Chapters:


Journal papers:


Conference papers:


2.1.8 Fairs, and events

<table>
<thead>
<tr>
<th>Main leader (Owner(s))</th>
<th>Title</th>
<th>Date</th>
<th>Place</th>
<th>Type of Audience</th>
<th>Size of audience</th>
<th>Countries addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGEP</td>
<td>Proactive Maintenance: The MANTIS Project</td>
<td>04/05/2016</td>
<td>Mondragon</td>
<td>Industry</td>
<td>60</td>
<td>Spain</td>
</tr>
<tr>
<td>ISEP</td>
<td>The MANTIS project and the Arrowhead Framework</td>
<td>22/10/2015</td>
<td>ICT2015</td>
<td>Scientific community, Industry</td>
<td>80</td>
<td>Portugal</td>
</tr>
<tr>
<td>MGEP, IKERLAN, FARR</td>
<td>Fagor Arrasate, Koniker e Ikerlan participan junto a MU en la segunda reunión del proyecto europeo MANTIS</td>
<td>28/03/2016</td>
<td>Basque Country</td>
<td>Industry</td>
<td>80.000</td>
<td>Spain</td>
</tr>
<tr>
<td>LIEBHERR</td>
<td>MANTIS - Status Forschungsprojekt</td>
<td>07/04/2016</td>
<td>Liebherr</td>
<td>Industry</td>
<td>15</td>
<td>Germany</td>
</tr>
</tbody>
</table>
2.2 Internal dissemination channels

2.2.1 Mailing lists and Internal Newsletter

Mailing list are fully operational, supported by EMDESK, with thousands of messages being exchanged between partners. We account 229 users at EMDESK, and have 62 mail lists:

- A global mail list for general notices, news,...
- Work Group level mail lists (9 mail lists)
- Task level mail lists, for internal and high frequency communication (34 mail lists)
- Use Case oriented mail lists (11 mail lists)
- Government bodies: General Assembly, Executive Board, Management Group, country representatives and all WP and Task leaders (5 mail lists)
- Risk management mail list (all can send, only Risk manager receives)
- Project Office mail list (all can send, only Project Office receives)

Besides the press releases and blog posts, there is also an internal newsletter which has the objective of spreading project advance, making users behave involved in MANTIS, discussing the internal organization of the project and the usage of EMDESK.

2.2.2 Teleconferences

Teleconferences have been organized by the WP and task partners, for both technical and management purposes. A detailed registry of these meetings is available at EMDESK. We can account for:

- 108 meetings in M01-M12
- 54 meetings in M13-M18

Which means that MANTIS partners interact around 9 times a month, to discuss progress, take decisions, and show results.

2.2.3 EMDESK project management tool

After an initial learning phase, the project partners are now using this tool up close to its full power. EMDESK is now supporting, communication among partners.

2.2.4 Face-to-face Meetings

The project organized four consortium meetings, a kick-off meeting in San Sebastian and three full consortium meetings, one in Caparica, Portugal, another in Ljubljana, Slovenia and more recently another
in Eindhoven, Netherlands. The main objective of the first two was to build a common view of the project objectives and the other two were mainly used for task level meetings and presentation of results.

Figure 5 MANTIS Kick-Off meeting at San Sebastian, 3-4 June 2015

Figure 6 MANTIS Full consortium meeting at UNINOVA, Lisbon (February 2016)
2.2.5 Webinars

No internal or external webinars have been realised so far.
3 Dissemination plan

This section lists the dissemination plans provided by each of the MANTIS partners. In case a partner updates the plan, this actions are added.

3.1 Mondragon Goi Eskola Politeknikoa J.M.A. S.Coop.

MGEP, as project Coordinator, will have a strong involvement in the dissemination of the MANTIS project. The dissemination plan from MGEP includes:

- **Internal dissemination**: MGEP will disseminate the MANTIS project activities to all the partners on a monthly basis. An internal newsletter has been designed, and will include technical activities, dissemination news, and tip & tricks for a better and more coordinated project management.

- **Social Media**: MGEP will take part in elaborating Blog posts (for the Web), and content related for the social network tools used in the project such as Twitter, LinkedIn, or Google+. It will also disseminate the project results through MGEP’s own social media channels, which already have a well-established audience. We will also contribute to the MANTIS Social Media channel optimization, providing knowledge on SEO and SEM techniques, building links in order to put the different channels in a leadership position, especially the website.

- **Press releases**: MGEP as the coordinator of the project will regularly publish press releases to all types of media (e.g.: TV, newspapers and radio). MGEP will inform the press about the main achievements of the project.

- **Brochures, Flyers and Posters**: MGEP has printed the poster and uses it at events, or internal visits.

- **Workshops, seminars and exhibitions**: MGEP will organise specific scientific Workshops as part of bigger conferences starting on the second year, for the dissemination of the scientific findings and results. MGEP will make demonstrations in related exhibitions in cooperation with the Spanish industrial partners.

- **Publications in journals, conferences and thesis**: As Project Coordinator, MGEP will position itself to give keynote talks related to MANTIS where possible. MGEP plans to publish from 6 to 9 conference papers, and between 2 and 4 impact journal papers related to MANTIS results. 2 PhD theses have started in relation to MANTIS.

- **Fairs, and events**: MGEP will participate in several events, particularly those carried out by ECSEL, ITEA and the EU.

- **MGEP will intensify project dissemination**, specially to the general public. Using media channels as Radio, TV and printed newspaper will be intensified.
3.2 MONDRAGON - Mondragon Corporacion Cooperativa S.Coop.

- Internal dissemination: MONDRAGON will promote the dissemination of the Spanish use case and project results within the whole corporation (over 280 companies and up to 80,000 employees) through the use of web tools, Corporation magazine “Tu Lankide”, publications, webinars and face-to-face meetings.
- Social Media: MONDRAGON will disseminate the project and use cases results through Linkedin.
- Brochures, Flyers and Posters: MONDRAGON will participate in the preparation of related dissemination materials including specific contents for the project website. It will also distribute brochures and flyers to visitors of the Mondragon Centre, conferences, seminars, other projects meetings, etc.
- Workshops, seminars and exhibitions: MONDRAGON, as a partner of some the projects cited in section 2.2.1 (ARROWHEAD, DEWI), will establish contacts with those projects to explore potential collaborations (e.g. periodic workshops) to share the accumulated knowledge and experience among participating experts looking for synergies. MONDRAGON as headquarters of a corporation of 280 companies with up to 80,000 employees, will evaluate the possibility of organising a workshop to present the objectives and results of MANTIS as well as its potential benefits to industrial companies.
- Fairs, and events: MONDRAGON, as a member of several European (MANUFUTURE-EU, EFFRA, ARTEMIS JU, ECSEL, ECTP-EeBA, SMART CITIES, KIC RAW MATERIALS) and Spanish (MANU-KET, PLANETIC) initiatives, will participate in their events looking for opportunities to disseminate the MANTIS project’s aims and main results.

3.3 IKERLAN - Ikerlan S.Coop.

For IKERLAN, as a Technology Research Centre, dissemination is one of its main activities, spreading the results of our conducted research both to the scientific community and the industry. In this sense, IKERLAN will actively participate in all dissemination activities that will take place during and after the project contributing to WP8 on the following issues:

- Internal dissemination: In the same way as with other projects, IKERLAN will internally disseminate the project results using the existing Intranet at the Centre. Periodical MANTIS news, interviews with researchers involved in the project, videos with project results, tweets, etc., are examples of the type of communications to be made.
- Press releases: IKERLAN regularly publishes in local, regional and national newspapers press releases about relevant projects in which the Centre is involved. Periodic press releases related to MANTIS will be published to inform of the main achievements of the project.
• Brochures, Flyers and Posters: IKERLAN will participate in the preparation of related dissemination materials including specific contents for the project website. Also, it will distribute brochures and flyers to visitors of the Centre, conferences, seminars, other projects meetings, etc.

• Workshops, seminars and exhibitions: IKERLAN as a partner of some the projects cited in section 2.2.1 (ARROWHEAD, C2NET, CREMA, MONDO) will establish contacts with them in order to explore potential collaborations (e.g. periodic workshops) in order to exchange knowledge and experiences among experts looking for fruitful synergies for all of them. Additionally, and as one of the regular activities of IKERLAN the possibility of having a workshop with industrial companies to present objectives and results of MANTIS and the benefits to get as a result of its implementation will be evaluated. The presence in the project of a large number of demonstrators belonging to different industrial sectors as well as our membership of Mondragon Corporation (MCC), another partner of the project, will facilitate the realization of this activity.

• Publications in journals, conferences and thesis: IKERLAN aims to publish between 4 and 6 papers in conferences or congresses and 2 or 3 papers in international scientific and academic journals. Moreover, it is also expected to have a PhD Thesis aligned with the objectives and topics covered by MANTIS.

• Fairs, and events: IKERLAN, as a member of several European (MANUFUTURE-EU, EFFRA, ARTEMIS JU, EpoSS, ECSEL, INTEROP-VLab) and national (MANU-KET, PLANETIC, LOGISTOP, INTERVAL) initiatives, will participate in their planned events looking for disseminating MANTIS aims and main achieved outcomes.

3.4 TEKNIKER - Fundacion Tekniker

• Internal dissemination and Press releases: IK4-TEKNIKER will promote dissemination in meetings, and through own website and publications such as Newtek, produced by IK4-TEKNIKER, and IK4 Newsletter, produced by IK4 Research Alliance, which are informative publications suitable for publicising MANTIS activities in the fields of technology and knowledge.

• Brochures, Flyers and Posters: IK4-TEKNIKER will distribute flyers and brochures to visitors, in conferences, meetings, etc.

• Workshops, seminars and exhibitions: IK4-TEKNIKER is organising or participating in the organisation of several events in which MANTIS can be presented (PHM Europe, BIEMH, Lubmat and IFAC A-MEST).

• Publications in journals, conferences and thesis: A researcher of IK4-TEKNIKER is preparing a PhD Thesis aligned with MANTIS objectives.

• Fairs, and events: IK4-TEKNIKER will participate in several events; such as those to be carried out by ECSEL, BDVA
3.5 FARR - Fagor Arrasate S.Coop.

FAGOR ARRASATE will disseminate the results of MANTIS project through these channels:

- Internal dissemination: FAGOR ARRASATE will internally disseminate the project results using the existing Intranet web page.
- Press releases: Periodic press releases related to MANTIS will be published in regional and national newspaper to inform of the main achievements of the project.
- Social Media: the marketing department of FAGOR ARRASATE uses these media to inform about the news of the company. A general description of the MANTIS project and report on its results will be published in LinkedIn, Facebook, Twitter, Youtube etc.
- Brochures, Flyers and Posters: FAGOR ARRASATE will distribute brochures and flyers to visitors of the company, conferences, seminars, other projects meetings, etc.
- Workshops, seminars and exhibitions: FAGOR ARRASATE as a partner of one the project cited in section 2.2.1 (CREMA) will establish contacts with them in order to explore potential collaborations.
- Fairs, and events: FAGOR ARRASATE and its R&D business centre KONIKER, as a member of several European associations and platforms (MANUFUTURE-EU, EFFRA, EuROBOTICS, ECSEL) and national (MANU-KET) initiatives, will participate in their planned events looking for disseminating MANTIS aims and main achieved outcomes.

3.5.1 KONIKER - Koniker S.Coop. (Fagor Arrasate Third Party)

Koniker does not have any effort in this WP.

3.6 GOIZPER - Goizper S.Coop.

GOIZPER S. COOP., as it is an industrial manufacturing plant, will work in dissemination activities (mainly in the industrial sector), participating in different ways as it is shown below.

- Internal dissemination: Dissemination of the project results will be promoted by face to face meetings and by means of the web. Some publications about the project will be posted in GOIZPER S. COOP. web page.
- Press releases: GOIZPER S. COOP. usually publishes in local newspapers some articles of new and outstanding projects in which it is involved.
- Brochures, Flyers and Posters: GOIZPER S. COOP. will distribute brochure or flyers in attending meetings, visitors to GOIZPER S. COOP. and in some other national and EU projects (CREMA project, for instance).
• Fairs and events: GOIZPER S. COOP. will take part in different fairs and events; many of them related to industry 4.0.

3.7 ACCIONA - Acciona Infraestructuras

• Internal dissemination: ACCIONA will promote the dissemination of results from the use case in which it participates (the Pultrusion Line) due to the impact in the infrastructures construction through the use of webinars and face-to-face meetings
• Brochures, Flyers and Posters: ACCIONA will distribute flyers and brochure to visitors, in conferences, meetings, etc.
• Publication in journals, conferences and thesis: ACCIONA plans to publish papers with MANTIS results related to our Pultrusion Line use case.
• Fairs, and events: ACCIONA will participate in several events, particularly those carried out by ECSEL, ITEA and the EU

3.8 MSI - Mondragon Sistemas De Informacion S.Coop.

• Internal dissemination: MSI will promote the dissemination of results from the use cases through internal seminars and face-to-face meetings. Special focus will be made on how the results can be replicated in other areas where MSI is active (water treatment plants, metal processing lines, etc.)
• Social Media: The commercial department of MSI uses LinkedIn and the MSIgrupo.com website to publish company’s news. Also news releases of R&D activities like the MANTIS project are made public through this channel which is updated periodically.
• Brochures, Flyers and Posters: MSI Grupo will distribute brochures and flyers to visitors of the company, conferences, fairs, etc.

3.9 VTT – Teknologian Tutkimuskeskus

VTT will disseminate the results of the MANTIS project through the following channels:

• Internal dissemination: VTT has and will inform internally about the results of the project.
• Press releases: VTT will produce press releases related to the Mantis project. It will especially benefit of the option of using the channels offered by the Finnish Maintenance Society ProMaint.
• Workshops, seminars and exhibitions: VTT will participate in the workshops, seminars and exhibitions that will be organised by the Mantis consortium.
• Publications: VTT will actively search for suitable opportunities to publish conference papers and journal articles in internationally well know forums. The MANTIS project will support research aimed at Doctor and Master of Science thesis.
3.10 Lapin - Ammattikorkeakoulu Oy

Lapland University of Applied Sciences will participate in WP8 Dissemination of knowledge and exploitation. In Task 8.1 Communication and dissemination activities Lapland UAS will contribute on disseminating MANTIS results through the following actions:

- **Internal dissemination**: Lapland UAS will inform about the MANTIS project and its results to students in our university through maintenance related teaching. Students are also participating lightly in the project through project courses and thesis works. Our staff (teachers and researchers) are informed about project and its results in our monthly meetings among different research groups and teachers.

- **Press releases**: Lapland UAS will make regularly articles and newsletters about progress and results of the project in our webpages. Webpage articles are usually published also in ePressi-service which is a national publishing channel for newsletters. Last newsletter made about the MANTIS project was published through ePressi-service in 8 different media all over Finland (newspapers, magazines, radio, internet news). The goal is also to write articles on a regular basis during the project together with the Finnish consortium in maintenance related magazines like Promaint and MaintWorld. This has been planned together with Editor-in-Chief of Promaint and MaintWorld magazines.

- **Brochures, Flyers and Posters**: Lapland UAS will prepare an introduction about the MANTIS project in our webpages and in brochures of our research team. Posters introducing the MANTIS project will be made and used in laboratory, events, seminars and fairs.

- **Workshops, seminars and exhibitions**: Operation & Maintenance research team in Lapland UAS organizes every year a seminar called *Rikasta Pohjoista* which brings together all the main players from the Northern Finland concerning industry and mining. Introduction and results of the MANTIS project will be presented in the seminar. Also our partners from companies, education and research organisations are informed about project during our everyday co-operation with them.

- **Publications**: journals, conferences and thesis: Lapland UAS plans to publish few papers in international conferences from the field of maintenance based on results of the MANTIS project. A number of bachelor and/or master thesis are planned to be done aligned with the objectives of the MANTIS project.

- **Fairs, and events**: People working in the MANTIS project from Lapland UAS will participate in events organized by ECSEL. In addition, they will participate in maintenance related fairs in Finland. The MANTIS project and its results will be presented and discussed during these events and fairs.

3.11 NOME – Nome Oy

Nome Oy communicates the progress and results mainly through company’s website.
3.12 FORTUM - Fortum Power And Heat Oy

- Internal dissemination: Project progress and most interesting results will be communicated in the company intranet. Normal communication processes are used between project participants.
- Brochures, Flyers and Posters: General presentation material will be prepared for internal communication. Existing documents/material from the MANTIS project will be utilized if possible.
- Workshops, seminars and exhibitions: Fortum will participate in the workshops, seminars and exhibitions that will be organised by the MANTIS consortium.
- Publications in journals, conferences and thesis: Fortum will take part and produce material for suitable conferences. Thesis works will be utilized for MANTIS research tasks if applicable.
- Fairs, and events: Fortum will take in maintenance and energy related events and MANTIS results can be presented when discussing new development work.

3.13 SQ - Solteq Oyj

Solteq Oyj (MainIoT Oy) communicates the progress and results mainly through company's website and during customer meetings and seminars.

- Internal dissemination: Company's official website (www.mainiot.fi)
- Social media: MainIoT Oy will share some information through MainIoT LinkedIn – group. Mainlot Oy will also inform its customers through email news, seminars and through our Product's user forums.
- Publications in journals, conferences and thesis: some results are planned to be published in national magazines (such as Promaint) as case studies.

Solteq is leaving the project, so they will not promote MANTIS anymore. Instead of Solteq, a new partner (Sataservice Oy) will take their role.

3.14 WAPICE - Wapice Oy

Wapice will participate in the following dissemination activities:
• Internal dissemination: We will inform internally about the project’s results.
• Workshops, seminars and exhibitions: Wapice will participate in the workshops, seminars and exhibitions that will be organised by the Mantsis consortium.
• Publications: Wapice plans to search for opportunities to publish conference papers or journal articles.

3.15 AAU - Aalborg Universitet

AAU will be leading task 4.2 on Remaining useful life identification of wearing components, and also contribute substantially to use case 3.1 on Wind Energy Production. Based on this, AAU will put a strong focus on disseminating MANTIS results mostly through:

• Brochures, Flyers and Posters: AAU will distribute flyers and brochures to visitors of the lab, in conferences, meetings, etc.
• Publications in journals, conferences and thesis: AAU plans to publish 3 to 6 papers in conferences and also 1 or 2 Journal papers related to MANTIS results. Additionally, we shall also promote the delivery of PhD and master thesis related to the project.
• Fairs, and events: AAU will participate in several events, particularly those carried out by ECSEL and the EU.

3.16 DANFOSS - Danfoss A/S

• Internal dissemination: Danfoss will promote the dissemination of results from the use case on Wind Energy Production (use case 3.1) through internal seminars and face-to-face meetings. Special focus will be made on relationship between distribution networks and building management system maintenance.
• Publications in journals, conferences and thesis: Danfoss plans to publish papers related to MANTIS results of use case 3.1 on Wind Energy Production.

3.17 UNIV - Universal Foundation A/S

This partner is currently being replaced by another.

3.18 HGE - Hg Electric A/S

This partner is currently being replaced by another.
3.19 VESTAS - Vestas Wind Systems A/S

- Internal dissemination: Vestas will promote the dissemination of results from the use case on Wind Energy Production (use case 3.1) through internal seminars and face-to-face meetings. Special focus will be made on the component lifetime analysis of wind farms.
- Publication in journals, conferences and thesis: Vestas plans to publish papers related to MANTIS results in the use case on Wind Energy Production (use case 3.1).

3.20 SIRRIS - Sirris Het Collectief Centrum Van De Technologische Industrie

Sirris plans to disseminate the MANTIS project results towards both its member companies and the broader Belgian industry by performing awareness creation and knowledge transfer activities. These will happen through:

- Internal dissemination: the presentation of the project results on internal meetings and events
- Social Media: publication of articles in the Sirris Software and ICT blog, Sirris online magazines Techniline and InterAction, and in external online magazines such as Agoria Online (the target audience of these magazines consists of over 6000 ICT professionals)
- Brochures, Flyers and Posters: presentation and distribution of posters and leaflets
- Publications in journals, conferences and thesis: publication of papers at scientific conferences and workshops
- Fairs, and events: presentations of the project results at companies and at relevant industry-oriented events

3.21 ILIAS - Ilias Solutions Nv

ILIAS Solutions NV will focus on topics related to real-life maintenance problems involving special purpose and off-road vehicles, reducing the cost of maintenance and increasing the availability of the fleet. We will disseminate the results related to the above through various proven and effective national and international communication channels including Conferences, Linked-In, newsletters, white papers and other relevant channels.

- Internal dissemination: through face to face meetings with internal stakeholders, internal training sessions and e-mail.
- Social Media
  - Linked-In https://www.linkedin.com/company/ilias-solutions
  - Twitter https://twitter.com/ilias_solutions
  - Vimeo https://vimeo.com/iliassolutions
  - Google+ https://plus.google.com/+Ilias-solutions
• Press releases: Newsletters and press releases published through our website (www.iliassolutions.com)
• Brochures, Flyers and Posters: Use and distribute the posters, brochures and flyers provided by the Mantis project through our normal channels of communication.
• Workshops, seminars and exhibitions: ILIAS will participate and present project results at various workshops and seminars.
• Publications in journals, conferences and thesis: Conferences pertinent to our business focus and white papers around our Mantis solutions.
• Fairs, and events: ILIAS will participate in several events, particularly those carried out by ECSEL, Artemis or other EU driven events, where deemed appropriate.

3.22 ATLAS - Atlas Copco Airpower Nv

• Internal dissemination: Atlas Copco will publish in internal publications to raise awareness, share experiences and achievements from the MANTIS-project over different divisions and business areas.
• Workshops, seminars and exhibitions: as contributor and one of the industrial pilot users of MANTIS technology, Atlas Copco will actively participate in user group conferences. We will be present on MANTIS open meetings and fairs.

3.23 3E - 3e Nv

• Social Media: 3E will use all its standard social media tools (newsletters, twitter, LinkedIn, 3E’s webpage) to enhance the outreach of the project and its results;
• Press releases: 3E will regularly publish press releases related to MANTIS to inform on the project results and achievements.
• Brochures, Flyers and Posters: 3E will distribute brochures and flyers to customers and visitors during events, conferences, workshops and meetings.
• Workshops, seminars and exhibitions: 3E will participate and present project results at various events, e.g. at workshops, seminars and/or conferences.
• Publications in journals, conferences and thesis: Dissemination of obtained results is foreseen through white papers, conference and possibly journal publications.

3.24 PCL - Philips Consumer Lifestyle B.V.

• Internal dissemination: PCL will promote the dissemination of results from use case Shaver production plant via the use of webinars and face-to-face meetings.
• Brochures, Flyers and Posters: PCL will make posters to share our results in conferences, meetings, etc.
• Fairs, and events: PCL will participate in several events, particularly those carried out by ECSEL, Artemis or other EU events.

3.25 PHC - Philips Medical Systems Nederland B.V.

• Internal dissemination: PHC will promote the dissemination of results of the healthcare use cases by means of presentations, webinars and knowledge sharing events.
• Brochures, Flyers and Posters: PHC will make posters to share results in conferences, meetings, etc.
• Publication in journals, conferences and thesis: PHC will contribute to publications by TU/e and other partners, if PHC data are used to apply innovations in the healthcare use cases.
• Fairs and events: PHC will participate in several events, particularly those carried out by ECSEL, Artemis or other EU events.

3.26 PHILIPS - Philips Electronics Nederland B.V.

• Internal dissemination: PHILIPS will promote the dissemination of results of the work done in MANTIS by means of internal colloquia, presentations, webinars, knowledge sharing events and face-to-face meetings.
• Brochures, Flyers and Posters: PHILIPS will make posters to share results in conferences, meetings, etc.
• Publication in journals, conferences and thesis: PHILIPS will contribute to publications by TU/e and other partners.
• Fairs and events: PHILIPS will participate in several events, particularly those carried out by ECSEL, Artemis or other EU events.

3.27 S&T - Science and Technology B.V.

S&T will disseminate the results of the MANTIS project primarily via:

• Brochures, Flyers and Posters: S&T will distribute brochures and flyers to customers and visitors during business to business meetings and events, workshops and conferences;
• Workshops, seminars and exhibitions: S&T will participate and present project results at various events, e.g. at workshops, seminars and/or conferences;
3.28 TU/E - Technische Universiteit Eindhoven

The TU/E will focus on disseminating MANTIS results mostly through:

- **Internal dissemination:** TU/E will promote on a regular basis the dissemination of results from specific tasks through internal group meetings.
- **Press releases:** TU/E will inform of the main achievements of MANTIS in the monthly newsletter which addresses the activities of the EIRICT research centre to its stakeholders.
- **Workshops, seminars and exhibitions:** Invited sessions on data-driven operations management at
  - Informs (Institute of Operations Research and Management Science),
  - annual conferences within MSOM (Manufacturing and Operations Management Society) and/or I-SIM (Informs Simulation Society) clusters,
  - International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR),
  - Service Logistics Summit organized by Service Logistics Forum (SLF), a leading Dutch knowledge platform for service logistics in order to disseminate the results of the MANTIS project on proactive data-driven maintenance optimization.
- **Publications:** journals, conferences and thesis: TU/E plans to publish 3 to 6 papers in conferences and also 1 or 2 Journal papers related to MANTIS results, in particular on machine learning, data mining and maintenance optimization. Additionally, we shall also promote the delivery of PhD, PDEng and Master thesis as well as internships related to the project.
- **Fairs, and events:** TU/E will participate in several events, particularly those carried out by ESCEL, ITEA and the EU.

3.29 RUG - Rijksuniversiteit Groningen

- **Press releases:** at the end of the project via the university’s PR Department.
- **Brochures, Flyers and Posters:** 2015 Presentation on predictive maintenance and service robotics (available on emdesk).
- **Workshops, seminars and exhibitions:** 2017 Workshop on machine learning for predictive maintenance.
- **Publication in journals, conferences and thesis:** until 2018 two conference articles and one journal article.

3.30 UNINOVA - Instituto de Desenvolvimento de Novas Tecnologias

UNINOVA will focus on disseminating MANTIS results mostly through:

- **Press releases:** UNINOVA has a communication office that regularly communicates with local media for promotions of its projects and initiatives. We will give proper attention to MANTIS
with press releases when relevant achievements should be communicated with the public; this includes typically magazines, radios and also specialised TV programmes. UNINOVA will promote the MANTIS project in its own website for external outreach.

- Brochures, Flyers and Posters: UNINOVA will develop Portuguese versions of some of the project brochure, flyer and posters for country-wide and internal dissemination.
- Workshops and Seminars: UNINOVA researchers are involved in the organisation/support of events in IoT and CPS domains (e.g. the IoT Week, Net Futures, etc.) and will promote a series of workshops and seminars devoted to Industrial IoT/CPS where MANTIS and other related projects will be jointly presented and discussed.
- Publication in journals, conferences and thesis: UNINOVA researchers are very involved in the IEEE IoT technical community and IEEE IES (Industrial Electronics Society) and with open channels to their scientific dissemination channels, particularly, Conferences such as IECON, ISIE, INDIN, ETFA, ICIT, DoCEIS, WF-IoT, etc., and Journals such as IEEE Internet of Things Journal (IoT-J), IEEE Transactions on Industrial Electronics, IEEE Transactions on Industrial Informatics, etc. UNINOVA researchers usually also publish in the Computers in Industry Journal. As such, UNINOVA plans to publish 3 to 6 scientific papers related to its work in the MANTIS project.

MSc and PhD Thesis: a series of MSc and PhD research activities will be linked to the work of UNINOVA in the MANTIS project which will further disseminate and outreach the project in the scientific and technical communities with great added-value in human resources valorisation.

3.31 ISEP - Instituto Superior de Engenharia do Porto

ISEP will be leading WP8 on Dissemination of knowledge and exploitation, consequently ISEP we put a strong focus on disseminating MANTIS results mostly through:

- Internal dissemination: ISEP will promote on a regular basis (e.g. every 6 months) the dissemination of results from specific tasks through the use of webinars and face-to-face meetings
- Press releases: ISEP/CISTER usually publishes a monthly newsletter which addresses the activities of the research centre to its stakeholders and, in the context of MANTIS, it will inform of the main achievements of the project. We will also use the news section of our website for that purpose
- Brochures, Flyers and Posters: ISEP will distribute flyers and brochures to visitors of the lab, in conferences, meetings, etc.
- Workshops, seminars and exhibitions: every year ISEP/CISTER organizes the CiWork workshop where the group shows and discusses with its stakeholders ongoing projects and future research directions. We also organize periodic seminars, in which MANTIS results can be presented.
- Publications in journals, conferences and thesis: ISEP plans to publish 3 to 6 papers in conferences and also 1 or 2 Journal papers related to MANTIS results. Additionally, we shall also promote the delivery of PhD and master thesis related to the project.
• Fairs, and events: ISEP will participate in several events, particularly those carried out by ESCEL, ITEA and the EU.

3.32 INESC - Instituto de Engenharia de Sistemas e Computadores do Porto

INESC is a research institute whose main purpose is applied research, advanced training and technological transfer. Our efforts will be focused on 1) the generation and dissemination of academic results; 2) working with the machine tool manufacturer ADIRA to develop and transfer technology that can later be used by the company. We will attempt to disseminate the work and its results as follows:

• Social Media: the communications department of INESC uses these media to publicize activity of the institute. A general description of the MANTIS project and report on its results will be published in LinkedIn, Facebook, Twitter, etc. Additionally, the participants in the project will make this and other kinds of information (e.g. research papers) available on more specific groups in these media.

• Press releases: INESC has a monthly on-line bulletin board that reports on research activities of the institute to its stakeholders. A general description of the MANTIS project and report on its results will be published in this web-page. The communications department of INESC will use these descriptions as the basis to press releases for the general media which are used in promoting the institute and its work.

• Posters and Brochures: INESC’s CESE unit has space reserved for posters that are used to advertise and inform both internal collaborators and external visitors of our work. We will use this space to place a poster about MANTIS and its results. The poster will also be presented in conferences, in which the brochures will be distributed as well.

• Education and Training (E&T) activities: several team members from INESC are involved in teaching activities at multiple institutions, including business schools. Relevant parts of the project and its results will be presented to students.

• Publications in journals, conferences and thesis: INESC has several PhD students and senior researchers participating in the MANTIS research and development activities. INESC plans to publish up to 3 conferences paper and 2 journal papers reporting on the result of these research activities. Additional master thesis may also be published depending on student availability.

• Workshops and seminars: INESC plans to organize a workshop in an international scientific event, with a focus the research areas that are relevant to the project. This workshop will be organized in collaboration with other MANTIS partners. Additionally, INESC has several internal group meetings do divulge and discuss research related work. Furthermore, we will organize one internal seminar every year, both to inform the INESC community of the current developments of the projects, as well as to collect suggestions concerning future developments.
Training and technology transfer: any of the research results that are applicable to the use case will be passed on to the industrial partner ADIRA. We will aid ADIRA in their efforts of disseminating their results in the commercial arena.

### 3.33 ADIRA - Metal Forming Solutions S.A.

As usual with previous projects, ADIRA will communicate the implementation of the Mantis project results on its products through the following channels:

- **Internal dissemination**: Internal Technical News will be available to ADIRA collaborators worldwide so they can share the information with the customers.
- **Social Media**: ADIRA shares relevant company’s news, as well as product updates on the company’s Facebook page [https://www.facebook.com/AdiraPortugal](https://www.facebook.com/AdiraPortugal), it also shares corporate and project videos on the company Youtube Channel [https://www.youtube.com/user/AdiraSAPorto](https://www.youtube.com/user/AdiraSAPorto).
- **Web Site** [http://www.adira.pt/](http://www.adira.pt/). ADIRA usually shares relevant company’s news, as well as product updates on this channel.
- **Brochures, Flyers and Posters**: brochures and posters will be made for displaying the project’s results both on the company’s installations and on fairs and events.
- **Workshops, seminars and exhibitions**: ADIRA will include information on the implemented results on internal workshops for its agents and collaborators.
- **Publications in journals, conferences and thesis**: ADIRA usually shares relevant company’s news, as well as product updates via industrial related publications to reach its customers.
- **Fairs, and events**: ADIRA will be present on International Sheet Metal Metalworking Machinery Events such as EMAF (Porto, Portugal) and EuroBlech (Hannover, Germany) with posters and other visual information as well as a real demonstrator of the implementation of the project’s results, if applicable.

### 3.34 ASTS - Ansaldo STS S.p.A.

- **Publications in journals, conferences and thesis**: ASTS will collaborate together with CINI in disseminating the MANTIS project activities through the publication of papers in national and international settings including workshops, conferences, journals and magazines, as well as the encouragement of new research arguments related to the proactive maintenance.
- **Fairs, and events**: ASTS will perform other dissemination activities during public events organized by ECSEL-JU (presentation of papers/demos for conferences and meetings).
3.35 CINI - Consorzio Interuniversitario Nazionale per l’ Informatica

- Publication in journals, conferences and thesis: CINI will disseminate the results of the project through the publication of papers in national and international settings including workshops, conferences, journals, and magazines. Moreover, the results of the project will also become part of the software engineering courses and research activities of part of the universities that are associated with CINI. As an academic institution, CINI will promote the results of the project through the training of high skilled young people (students, researchers, etc.) that will be able to spread the developed knowledge across the companies in which they will work in the future and in the development of new research activities that will be able to extend the acquired knowledge.

- Fairs, and events: CINI will participate to ECSEL events where the results of the project will be presented to the general public.

3.36 AIT - Austrian Institute of Technology GmbH

No dissemination activities planned.

3.37 HBM - Hottinger Baldwni Messtechnik GmbH

No dissemination activities planned.

3.38 INNOTEC - Innovative Technology and Science Limited

- Internal dissemination: Openly communicating on internal communication tools by providing updates in the mailing lists and internal newsletter, teleconferences and any meetings or webinars, as and when applicable.

- Social Media: Mentioning MANTIS on InnoTecUK’s corporate website, also adding a news item about MANTIS on corporate website and sharing updates on InnoTecUK’s official social media (Twitter, Facebook, LinkedIn, blog)

- Brochures, Flyers and Posters: InnoTecUK is planning to send out press releases to UK based newspapers mentioning the MANTIS project

- Publication in journals, conferences and thesis: presentation and distribution of the brochures, flyers and posters on social media and at events
3.39 AITIA - International Inc.

As an SME with strong research and development drive in the infocommunications field, AITIA aims to get ahead of the market with MANTIS regarding the proactive maintenance of collaborative systems and services.

- Social Media: provide information on advances of the MANTIS project in the company website and will update the marketing material with features specific to proactive maintenance.
- Workshops, seminars and exhibitions: AITIA will initiate a summer workshop or an Artemis Technology conference together with BME.
- Publication in journals, conferences and thesis: AITIA will collaborate together with BME in disseminating the MANTIS project activities through the publication of papers in national and international settings including workshops, conferences, journals and magazines, as well as the encouragement of new research arguments related to fault management, root cause analysis and proactive maintenance.

3.40 BME - Budapest University of Technology and Economics

BME, as an academic institute will focus on the following dissemination means:

- Research activity of BME is reflected in its journal and conference publications, and several research projects. Aiming research efforts at relevant topics of the near future is a key to efficient work in this field, and research projects like MANTIS help to identify the most important directions. BME will contribute to dissemination through the publication of papers in national and international conferences, journals, workshops and magazines.
- Experience and close cooperation with industrial partners strengthens our competence in various telecommunications R&D activities, which on the other hand, indirectly improves quality of education. The education should cover the newest technologies and engineering solutions for telecommunication challenges, therefore cooperation with leading industrial partners is fundamental for the University, and having personal within projects such as MANTIS is the best way to follow technical development. The results of the project will be included in the training material and the relevant parts will become part of the telecommunication management related courses/labs. Furthermore, students will be involved in research and innovation activities that are associated with BME.
- BME, together with AITIA will initiate a summer workshop or an Artemis Technology conference, where the results will be disseminated to a broader audience including other ECSEL project members and students from other faculties or universities.
- BME will also contribute to presentations and tutorial papers to ECSEL and other relevant events where the results of the project will be presented to the general public.
3.41 JSI - Jožef Stefan Institute

JSI is the leading Slovenian scientific research institute, covering a broad spectrum of basic and applied research. The Institute accumulates and disseminates knowledge through the pursuit of research, development, and education. Disseminating and transferring knowledge will be performed by the following activities:

- Internal dissemination channels: as a partner of the COST Action no. IC1204 (Trustworthy Manufacturing and Utilization of Secure Devices) we apply developed security solutions to the area of system maintenance and report experiences in practice vice-versa. Additionally as a member of HiPEAC The European Network of Excellence we report our results in selected workshops.
- Web Site: Jožef Stefan Institute as a member and founder of the Slovenian HCI community reports its current HCI activities on its web site (http://hci.si)
- Workshops, seminars and exhibitions: public seminars: regular public seminars at the JSI provide opportunity for exchange of ideas and setting-up new collaborations, additionally we plan in 2016 to organize the 3rd Conference: Human-Computer Interaction in Information Society — HCI in the frame of annual international multi-conference Information Society, (http://is.ijs.si)/.
- Education and training: courses at the Jožef Stefan International Postgraduate School and at the Faculty of Electrical Engineering and Computer Science at the University of Maribor allow possibility of student participation in activities related to the MANTIS project.
- Publication in journals conferences and thesis: journal and conference papers in the field of human-computer interaction and human-machine interaction

3.42 XLAB - XLAB d.o.o.

XLAB communicates the progress and results of its projects through several channels, including a company blog, Facebook, Twitter, LinkedIn and paid media distribution services:

- Internal dissemination: the company's official website (www.xlab.si), and XLAB Blog (http://www.xlab.si/media/) is used as primary source of information and platform for publishing news about recent development within the project and project’s initiatives.
- External dissemination: During the course of the project XLAB will be involved in cross promotion among partners, end users and the wider community notifying the public about technologies used, conferences, workshops etc
- Social media channels: XLAB promotes the technologies developed within the project on a regular basis with emphasis on targeted, timely content focusing mainly on the following channels:
  - Twitter (https://twitter.com/xlab_research) for quick notifications about current activities, networking
  - LinkedIn (http://www.linkedin.com/company/xlab) building a network of partners and companies — end users
  - Facebook (https://www.facebook.com/xlab.research)
- Press releases: XLAB will publish 1-2 Press Releases, phased along with project key stages and designed with common content, to target audiences — potential users of the MANTIS maintenance platform. The press releases are expected to tell about real benefits for citizens, businesses and administrations. Once the content gets published we use the supporting social media channels to promote the news and make sure it gets read. XLAB distributes project’s press releases via the
Marketwired communications platform ([www.marketwired.com](http://www.marketwired.com)) across Europe and the U.S. reaching major online aggregators, high tech hot spots, online influencers and journalists. We track how the press release performs and its social footprint via real time metric data reports.

- **Paid Media Support:** XLAB distributes project’s press releases via the Marketwired communications platform ([www.marketwired.com](http://www.marketwired.com)) across Europe and the U.S. reaching major online aggregators, high tech hot spots, online influencers and journalists. We track how the press release performs and its social footprint via real time metric data reports.

### 3.43 FHG - Fraunhofer Institute for Experimental Software Engineering ISESE

FHG ISESE will contribute to the dissemination results of MANTIS by pursuing the following actions:

- **Internal dissemination:** FHG ISESE will promote and discuss the (intermediate) results of MANTIS through internal group meetings. MANTIS flyers will be deposited in staff’s collaboration areas.

- **External dissemination:** FHG ISESE will add overview slides on the MANTIS project in the ISESE acquisition slide sets. With this ISESE will promote and discuss the (intermediate) results in acquisition meetings with potential customers.

- **Press releases:** MANTIS will be presented in the FHG ISESE’s annual report. In addition, after the first project year ISESE will distribute a press release on the MANTIS project via ISESE distribution channels including customers and other key contacts.

- **Brochures, Flyers and Posters:** FHG ISESE will distribute MANTIS flyers to visitors, in conferences, meetings, etc.

- **Education and Training (E&T) activities:** FHG ISESE is involved in several teaching activities at multiple institutions, including the University of Kaiserslautern. Relevant parts of the project and its results will be presented to students.

- **Workshops, seminars and exhibitions:** The following activities are planned by FHG ISESE:
  - Workshop with interested industry representatives from the commercial vehicle domain on the MANTIS topic at FHG ISESE
  - Booth and publication at Embedded World exhibition and congress
  - Publication and tutorial at Embedded Software Engineering Congress
  - Publication at International Commercial Vehicle Technology Symposium

- **Publications in journals, conferences and thesis:** FHG ISESE plans to publish 3 papers in conferences, 3 papers in industrial magazines, as well as 1 Journal paper related to MANTIS results. The papers will address in particular the fields of systems engineering, requirements engineering, system design, runtime adaptation and variability management on the background of predictive maintenance in a landscape of smart ecosystems. Additionally, we will supervise bachelor and master theses related to the project.

- **Fairs and events:** FHG ISESE will participate in several events, particularly in the following:
  - Booth at CeBIT fair
  - Joint booth with other German partners at Agritechnica
  - Joint booth with other German partners at Hannover Messe
3.44 M2X - M2Xpert GmbH & Co KG

3.45 STILL - Still GMBH

STILL will show the progress of MANTIS depending on the state of the project and of the quality of results, further dissemination options will be examined during the project. These are the details of the dissemination plan of STILL:

- **Internal dissemination**: STILL will use the corporate communication to show results in the STILL intranet, Internal publications like the STILL journal “Aufgegabelt”, and through the use of video conferences and face-to-face meetings.
- **Workshops, seminars and exhibitions**: every year STILL organizes the so-called “Customer Day”, in which MANTIS results can be shown and discussed with our customers. Additionally MANTIS will be presented on internal conventions for service technicians and sales people.
- **Publications in journals, conferences and thesis**: STILL plans to publish the results on the “Hamburger Staplertagung”, the LOGIMAT fair and the CEMAT fair. Additionally STILL consider to promote the delivery of master thesis related to the project.

3.46 BOSCH - Robert Bosch GMbH

- **Internal dissemination**: to the direct involved German partners within regular consortia meetings, starting with October 2015 and within Mantis/EU consortium for involved work package contributors of deliverables
- **Social Media**: currently no planning
- **Press releases**: via Robert Bosch Group communication, e.g. Boxberg Motorpressekolloquium or IAA Fair announcements
- **Brochures, Flyers and Posters**: via Robert Bosch Group communication and Books e.g. fair announcements, Dieselmotorenhandbuch
- **Workshops, seminars and exhibitions**: Mantis workshop or German consortia workshop
- **Publication**: journals, conferences and thesis: Conference: Bosch Connected World; Diagnosis conference, e.g. SAE Conference, CTI Forum Automotive Diagnostic Systems, Diagnose in mechatronischen Fahrzeugsystemen
- **Fairs, and events**: e.g. IAA (passenger car); IAA (commercial vehicles); Agritechnika

3.47 LIEBHERR - Liebherr-Hydraulikbagger GmbH

LIEBHERR will put a strong focus on disseminating MANTIS results mostly through:
Internal dissemination: LIEBHERR will promote on a regular basis (every 6 months) the dissemination of results from specific tasks through the use of video conferences, face-to-face meetings and Liebherr intranet summaries.

Workshops, seminars and exhibitions: every year LIEBHERR organizes the so-called ‘Profi-Seminar’, in which MANTIS results can be shown and discussed with our customers.

Publications in journals, conferences and thesis: LIEBHERR plans to publish a paper in the tc world conference. Additionally, we consider to promote the delivery of master thesis related to the project.
4 Conclusions

The communication activities were actively developed, by means of publication of press releases on national newspapers, publications in journals and conference, the preparation of videos and using social media. General public was reached by means of Youtube videos, Linkedin, and Researchgate portals, and partner social media publication. Finally, MANTIS partners also participated to 8 fairs/events.

The dissemination activities can be envisioned as a work in progress, and up to now led to the presentation of 6 papers on scientific conferences, and the publication of 2 journal papers and 1 book chapter in a scientific book.

This report also presents an updated version of each partner dissemination plans.