FINAL REPORT ON IMPACT CREATION ACTIVITIES

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Executive Summary

This deliverable consists of two parts – the first part reports on the overall activities performed in Years 1, 2 and 3 and the second part reveals plans for dissemination activities after the project duration.

More specifically, the document reports on ProaSense impact creation activities in the three years of the project, which includes dissemination activities, actions taken to reach target audiences, means to communicate with these audiences and liaison activities with other projects. Planned impact creation activities after the project duration are reported in the second part of this deliverable. This document reports on impact of various actions which raised awareness, enabled knowledge sharing, attracted potential users and explored future commercial use in the context of the ProaSense project through web, printed and oral dissemination means, including the ProaSense website, ProaSense social media channels, promotional videos, distribution of dissemination material, participation in conferences and other relevant events, publications in journals and liaison activities with other related projects.

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Acronyms

Acronym	Explanation
FP7	EU 7th Framework Programme for Research and Technological Development
IoT	Internet of Things
H2020	Horizon 2020 – the EU Framework Programme for Research and Innovation
HSS	Hella Saturnus Slovenia
DoW	Description of Work
Y1	First year of the project (month 1- month 12)
Y2	Second year of the project (month 13-month24)
Y3	Third year of the project (month 25-month39)
M39	month 39
D	Deliverable
ICT	Information and communications technology

1. INTRODUCTION

The aim of D8.1.4 – Final report on impact creation activities is twofold: to report on the results of Task 8.1 (Dissemination) and Task 8.2 (Community building) from M1 –M39 (Years 1, 2 and 3), and present a plan of activities after the project duration.

The overall objective of ProaSense dissemination and community building is: 1) engage people and get insights and feedback, 2) knowledge sharing, 3) project validation (external), 4) build a community that would have a potential interest in the results of the project. This report outlines a report on impact creation activities for the aforementioned four goals focusing on scientific dissemination and the communication channels used to create visibility and engagement.

This deliverable reports and plans for the effective communication of the project concepts and its' outcomes in a timely and efficiently manner to the target communities for the support of the take up of the ProaSense framework in line with the direction of and intertwined co-relation with Task 8.3 (Exploitation). To achieve the aims, specific goals and measurable objectives over three years of the project duration have been set.

Objectives	
Obj. 1:	Engage people and get insights and feedback (Communicate the innovation capacity of the project to the target audience to encourage their engagement) – measuring number of people signing into ProaSense Community at website and social media channels (Facebook, Twitter, LinkedIn, views of videos at YouTube)
Obj. 2:	Knowledge sharing (timely and efficiently disseminate the project concepts and outcomes to the target audience) – measuring of number of conferences and participants where ProaSense was presented and number of scientific and general publications released
Obj. 3:	Project validation (Promote awareness both general and through engagement of stakeholder participation) – measuring number of website visits, number of people reached through events and publications
Obj. 4:	Set in train the foundation for greater exploitation achievements (Task 8.3) – measuring of number of events related to business and number of general presentations related to general and business community

TABLE 1: STRATEGIC OBJECTIVES

Each partner has contributed to the aims and objectives of WP8 both collectively to strengthen the means for take up beyond the life of the project and for each individual partner to benefit from and to generate greater commercial capacity for their organisation.

This document is structured as per the following schema:

The Chapter 2 contains the report on Impact created in the three years of the project with description of the dissemination channels and the collaboration with existing initiatives relevant to the ProaSense context and results. It describes and reports oral, printed and web dissemination means (updated during the current period) to spread ProaSense concepts and results with the already reported strategy and channels (in D8.1.2 and D8.1.3) and the described achievements and outcomes. It illustrates scientific, industrial and general actions planned to spread project results and foster the interest in software and proactive enterprise domains, in order to reach the widest possible impact. It contains reports on scientific papers and publications together with a detailed list of published scientific papers and general publications. It includes the report of ProaSense event participation with identification of ProaSense impact and outcomes and a detailed list of all events attended.

Chapter 3 provides the dissemination planning after the lifetime of the project with an overview of the main considered events and the rationale of dissemination activity proposed together with the distribution source lists (to reach the widest possible targets with the dissemination results).

Chapter 4 finally includes a summary of activities performed over the project duration with summarized plans for the project after it ends.

2. IMPACT CREATION IN THREE YEARS OF THE PROJECT DURATION

The objective of this chapter is to present ProaSense project dissemination activities towards scientific, industrial, ICT and societal communities and to report relevant achievements in the three years of the project. According to the ProaSense Description of Work, the main objective in Year 1 was the Warning phase with the aim to let people know about the project and especially to create general awareness about project objectives and expected results. Phase 2 was Impact phase with the main objective to increase the general awareness created about the project during the first phase to expose mainly elaborated use cases in order to increase the potential impact of the ProaSense project's results. The main materials were prototypes and elaborated use cases. Phase 3 was Results phase with main aim to use the general awareness created about the project in second phase and to expose results in order to attract potential customers of the ProaSense project results. Prototypes and demo provided the main materials for this communication phase. Phase 4 is Valorisation phase and the plan how the final scientific valorisation of the project will be assumed by publications in national and international journals with primary goal to attract potential customers, investors and follow-up research projects.

This deliverable provides an overview of all dissemination activities performed in the three years of the project, not only through traditional communication channels like events' attendance (e.g. conferences, seminars, workshops etc.), project publications (e.g. scientific publications or press releases etc.) and project presentations (e.g. to local stakeholders etc.), but also by disseminating project's contents through the main social networks and platforms (e.g. Facebook, Twitter, LinkedIn, YouTube). Following the guidelines stated in the Description of Work, the main tasks of WP8, dissemination (Task 8.1), community building (Task 8.2) and exploitation (Task 8.3), are to make scientific and industrial communities aware of the project and the results which have been achieved during the third year of the project.

All information released is supported by links to web sites, pictures and annexes in order to clearly show all the dissemination activities performed. Dissemination has been effected at both the consortium and partner level. In order for the dissemination strategy to be effective and provide tangible results, a well-structured methodology presented in D 8.1.2 was followed during the three years of the project.

In Year 1 ProaSense logo in 4 variants was designed (http://www.proasense.eu/media/logotype_colour-3/) and ProaSense website (available through http://www.proasense.eu/) was created as well as ProaSense Twitter (https://twitter.com/ProaSense) and LinkedIn Channels (https://www.linkedin.com/groups/7483187). At the same time a one –page ProaSense flyer was prepared (http://www.proasense.eu/wp-content/uploads/2015/06/ProaSense-flyer.pdf) and the first ProaSense Newsletter – Issue 1 (http://www.proasense.eu/wp-content/uploads/2014/11/ProaSense-Newsletter_2511.pdf) together with a promotion video (https://www.youtube.com/watch?v=VknI_1AT6Lk) and two technical videos (https://www.youtube.com/watch?v=vW5xVIdtGPE and https://www.youtube.com/watch?v=QgGehsi4MXU). The project was presented at 5 relevant conferences during the first year of the project (http://www.proasense.eu/conferences). Moreover, links to related projects were established. In Year 2 ProaSense team upgraded ProaSense website in content and in design, established ProaSense Facebook channel (https://www.facebook.com/proasenseproject/), maintained ProaSense Twitter and LinkedIn pages, prepared new design of ProaSense flyer, design ProaSense roll-up, ProaSense three- fold brochure with detailed description of how ProaSense works, published 5 general articles with high dissemination impact, prepared 2 showcase videos and a technical video and attended 16 scientific and general events and published 7 scientific articles in scientific journals and conferences. What is more, common workshops and links to related H2020/FP7 projects to their respective websites and vice versa were in place.

In Year 3 ProaSense team continued with maintaining ProaSense website, as well as ProaSense Facebook, Twitter, LinkedIn and YouTube channels. ProaSense published its videos on ProaSense Videolectures.NET portal. ProaSense team cooperated at 11 events, among them also CeBIT in Hannover (http://www.proasense.eu/proasense-at-cebit-2016/). Further, 9 scientific papers were published, among them 2 won best paper awards. Articles were published in prominent journals such as Springer and IEEE Journals. Moreover 1 PhD thesis on ProaSense was written and another one is still ongoing. We are proud that ProaSense received Award at “100 Places for Industry 4.0 in Baden-Württemberg” (http://www.proasense.eu/proasense-awarded-by-100-places-for-industry-4-0-in-baden-wurttemberg/). Moreover, ProaSense press releases were published (also in Serbian and Slovenian languages) as well as both ProaSense use case stories.

2.1 ACTIONS TAKEN TO CREATE IMPACT IN DISSEMINATION AND COMMUNITY BUILDING PROCESS

The aim of this section is to report on results of the dissemination strategy reported in D 8.2.1, D 8.1.2 and D8.1.3 especially in view of the recommendation received by the reviewers during the 1st and 2nd project review meetings, held in Brussels in November 2014 and January 2016, respectively.

In general recommendations by reviewers were to:

1) **Improve dissemination strategy**
2) **Improve scientific dissemination** (submissions to publications, conferences, workshops, summer schools, internal dissemination)
3) Perform and maintain **Website maintenance and design** (more attractive – design, more material)
4) Expand **ProaSense Community** (more interactions, usage of existing communities, involve real stakeholder channels)

In this respect, relevant to specific dissemination actions and community building activities we report about the adopted measures how to achieve that. Optimisation of ProaSense dissemination effort is provided by targeting specific, well characterised dissemination streams and managing relevant initiatives.

Approach taken in the ProaSense dissemination and community building activities was based on the following strategic elements:

1) **Identification of the ProaSense main dissemination streams.** This implies the identification of ProaSense target audience reported in D8.1.2 and D8.1.3 , which consists of:
    - **Industries and industry associations**: As potential end users of ProaSense this is the main target group to which most attention was put in. Here also Industrial Districts are targeted i.e. geographic area specific industry sectors and Industrial Associations i.e. industry clusters, formal associations, etc. Industries in general such as Chemical industry (Novartis); Petroleum industry; Automotive industry; Electronic industry (Kolektor); Food and beverages industry (Heineken, small breweries); Software industry; Tool-making industry were identified.

- **Research oriented entities** (associations and individual entities): Individual entities or association of academic and research institutions for developing new knowledge in specific research field. In this case, an updated approach to streamline the production of scientific papers in order to increase both the presence and the scientific recognition of the ProaSense project concepts and outcomes in the scientific community.
- **Consulting Companies and ICT vendors**: Consulting companies and ICT vendors specialised in supporting the establishment of analytics solutions, software companies and companies specialised in big data analytics. The following 19 companies with a specific big data consulting and/or project offering are listed : All for One Steeb , Capgemini, Computacenter, CSC , Cundus , Eoda, Experton Group, Hewlett-Packard (HP), IBM, Microsoft, Neofonie, Pricewaterhouse Coopers (PwC), RELEX, SAP, Steria Mummert Consulting, T-Systems, The Unbelievable Machine (*UM), TIBCO Software, TNS Infratest, USU.
- **Regional Development Agencies:** Entities intended to promote the development of a specific (regional) area with aims of supporting the economic development, improving the competitiveness of the community and attracting investments, especially the foreign capitals.
- **Social & work institution**: Institutional bodies aimed at regulating and supporting the businesses in a region/nation (such as chambers of commerce and industry, professional insurances - Slovenian Chamber of Commerce and Industry, Slovenian –German Chamber of Commerce, British- Slovenian Chamber of Commerce, etc.).

2) Identification and implementation of specific implementation processes for the dissemination strategy, including:

- **Improving scientific and non-scientific dissemination (oral dissemination means)**
  - The specific process for the selection, participation and reporting of the events in which partners of the ProaSense Consortium participated. This included:
    - Characterization of the events (scientific and non-scientific conferences, workshops, exhibitions) for which a ProaSense attendance was proposed to all partners (in terms of type of intervention, expected audience

typologies and size, impact expected to be achieved through the participation).

- Reporting from the event, according to a predefined format, suitable for providing the basis for harmonised and quantitative evaluation of the integrated impact.
- The set up and management of the overall ProaSense project dissemination schedule.

- ProaSense has taken advantage of common synergies with related FP7/H2020 projects. All the consortium partners have been active in the process of collecting information and identifying involvement mechanisms (joint initiatives, action plans, event, and dissemination).
- A specific plan for establishing collaboration with the other projects grouped in the "FInES" Cluster, Digital Business Initiative and OpeningUp Slovenia was also part of the overall dissemination activity.

- **Production and updating printed dissemination means.** The baseline dissemination material, which was produced in Years 1 and 2 was updated with content by outcomes achieved by the project, including the project brochure, flyer, press release and roll-up. Consortium focused on scientific dissemination, which resulted in 19 scientific publications, two awarded with Best paper Awards and 1 PhD thesis and another ongoing. Besides also 7 general publications which gained publicity of around 200.000 people were released.
- **Maintenance and updating of web dissemination means.** The baseline web dissemination channels (project's website and social media channels), which were launched in Year 1 and were updated content and design in Years 2 and 3. Web dissemination means have been maintained by events attended, publications released and outcomes achieved by the project.

2.2 PROASENSE M1 – M39 PERFORMED DISSEMINATION ACTIVITIES – OVERVIEW

This paragraph reports and recall some figures from the 0verall Dissemination Activity performed during period M1 – M39:

- Around **250.000 people** have been reached overall through 32 conferences and **160.000** through an article published in *Računalniške novice, Novice24 and Preberi.Si* Portals

- **19** scientific papers were published
- **2 Best Paper Awards** were gained
- **1 PhD** thesis based on ProaSense was written, while another one is still ongoing
- **Award at "100 Places for Industry 4.0 in Baden-Württemberg"**
- **32 events** were attended with relevant dissemination and impact creation level on ProaSense project and activities:
  - **21** scientific conferences were attended
  - **10 additional events were attended** were ProaSense concepts and results were disseminated and ProaSense partners and networked organizations were involved
  - ProaSense presented at **CeBIT 2016**
- **5 volumes of newsletters** were issued
- **72 news items altogether** were promoted through the ProaSense website to contribute to ProaSense initiatives dissemination over the web
- **230** posts on Facebook ProaSense Channels
- **168** posts on ProaSense Twitter Channel
- **96** posts on ProaSense LinkedIn Channel
- **2511** people were reached through 1 Facebook post (which was shared through Videolectures.net Facebook site)
- **Around 30 external web portals** were addressed to promote publication of ProaSense initiatives and dissemination information distribution
- **Around 2000 individual contacts** were reached with dissemination activity communications through scientific and business oriented events
- **Around 80 press release emails** were sent to relevant media channels during the project
- **161** members were involved and are now active in the ProaSense LinkedIn group
- **257** followers (likes) of the ProaSense Facebook Channels
- **471** followers of ProaSense Twitter Channel
- **103** members of ProaSense Community through ProaSense website

2.3 DISSEMINATION CHANNELS AND MEANS TO COMMUNICATE WITH TARGET GROUPS

In scope of the project duration web, printed and oral communication channels were involved in dissemination and community building of ProaSense. In order to achieve impact on larger scale

multiple communication channels have been used to communicate about the project. To achieve that, ProaSense consortium has used already identified means for disseminating the project achievements to the identified target groups (comprising both online and offline activities) and added more channels which address different public to achieve wider impact (e.g. Facebook, Twitter, LinkedIn, YouTube).

The main ProaSense web dissemination channel has been the public project web site which was upgraded in content and design during the project's life cycle. The website gathers all important material about ProaSense project. Furthermore, social media channels Facebook, Twitter, LinkedIn and YouTube have been constantly maintained.

2.3.1 IMPACT OF WEB MEANS

2.3.1.1 THE PROASENSE WEB SITE

The ProaSense website is available at www.proasense.eu. According to Deliverables 8.1.1, 8.1.2 and 8.1.3, the website is an important factor of project success. In the scope of the project it was extensively upgraded in content and design. In Year 2 the new Wordpress theme was installed. In the header as well as in the footer of the website an invitation and a form to ProaSense Community has been set. The design is also suitable to access the website through smart mobile devices. The main menu was expanded in topics and subtopics for the visitor to get as much information as possible. All in all we kept the website up-to-date with news related to scientific and technical results, events, project meetings, new deliverables and other events that are of interest for the intended audience

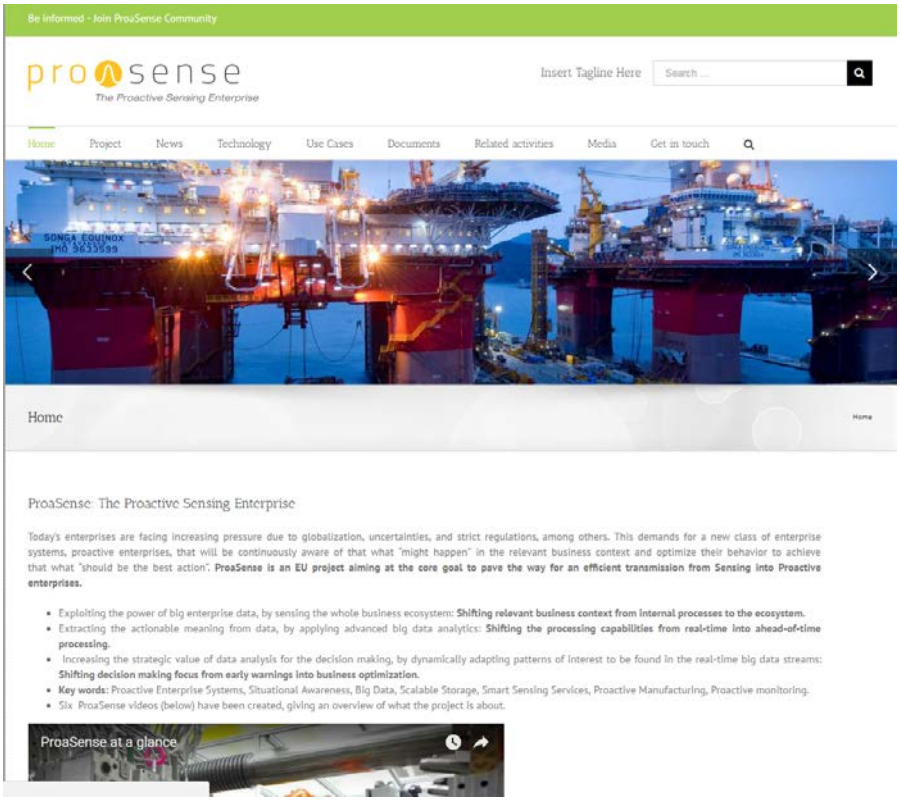

FIGURE 1: PROASENSE WEBSITE – HOME

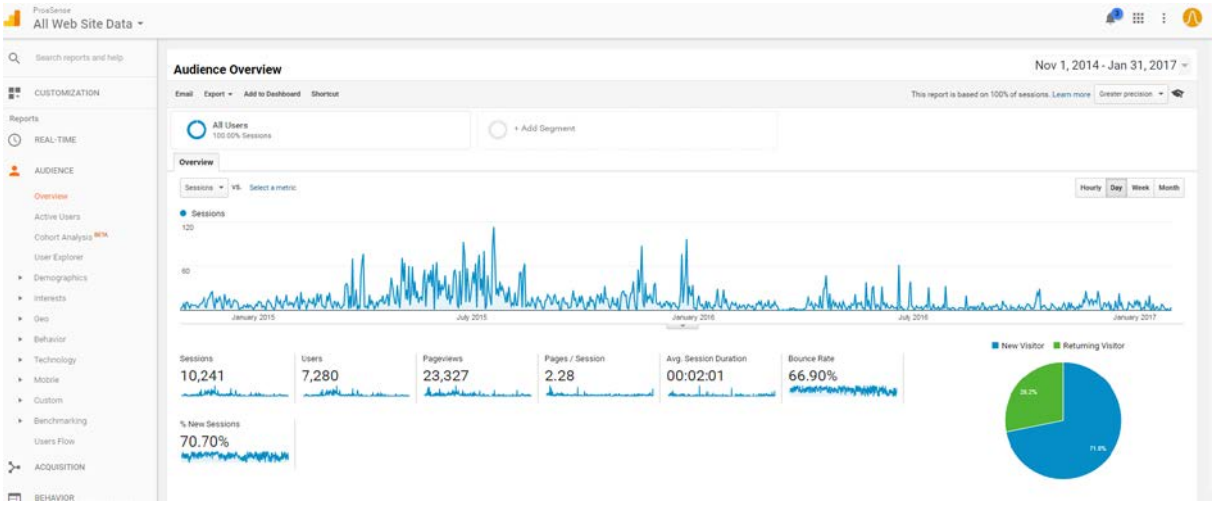

FIGURE 2: PROASENSE WEBSITE STATISTICS SINCE NOVEMBER 2014 – JANUARY 2017 (YEAR 2 AND YEAR 3)

In Year1 from November 2013 to end of October 2014 the number of website sessions was 1342. The number of website sessions in Years 2 and 3 from November 2014 to January 2017 was 10 241. Total number of website sessions was 11 583. The number of page views in Year 1 was 4870. The number

of page views in Years 2 and 3 was 23 327. Altogether in total there were 28 197 page views. In the three years of the project we exceeded our expectations. With this statistics we achieved the goal stated in the DoW which is 10,000 sessions altogether until the end of Year 3. Number of visitors rose in accordance with events attendance, scientific and general publishing, increased activity on social media, using key words and reciprocal links, e.g. link exchanges with related projects.

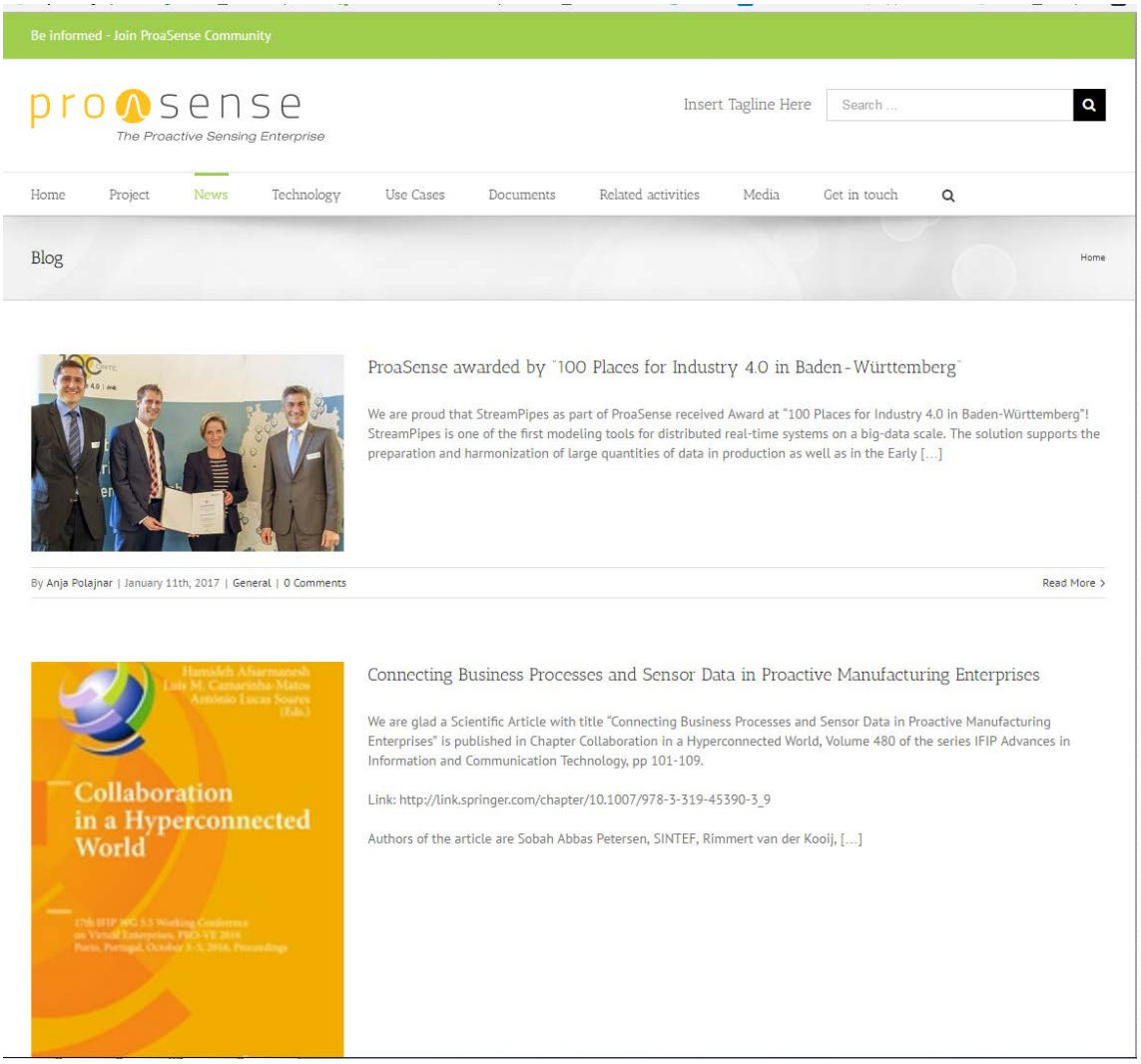

FIGURE 3: PROASENSE WEBSITE -NEWS

Figure 3 shows *news section* at ProaSense website. Altogether **72** news items about activities, events and outcomes of ProaSense were published.

2.3.1.2 PROASENSE FACEBOOK

Plan for Facebook page was to increase the total number of followers up to **200 -250 individuals**. The page has **256 followers (likes)** up to end of January 2017, however with one post we are able to reach approximately up to 400 people. The plan was to publish at least 1 to 2 posts per week, until M36 **100-150 posts** were planned to be imposed at the page. Posts would gain wider visibility through sharing functions. We exceeded our expectations with publishing **230 posts** at the ProaSense Facebook page (approx. more than 2 per week). The page is available through https://www.facebook.com/proasenseproject?fref=ts. ProaSense general video was shared as a facebook post through Videolectures.NET Facebook site. It reached **2511 views**.

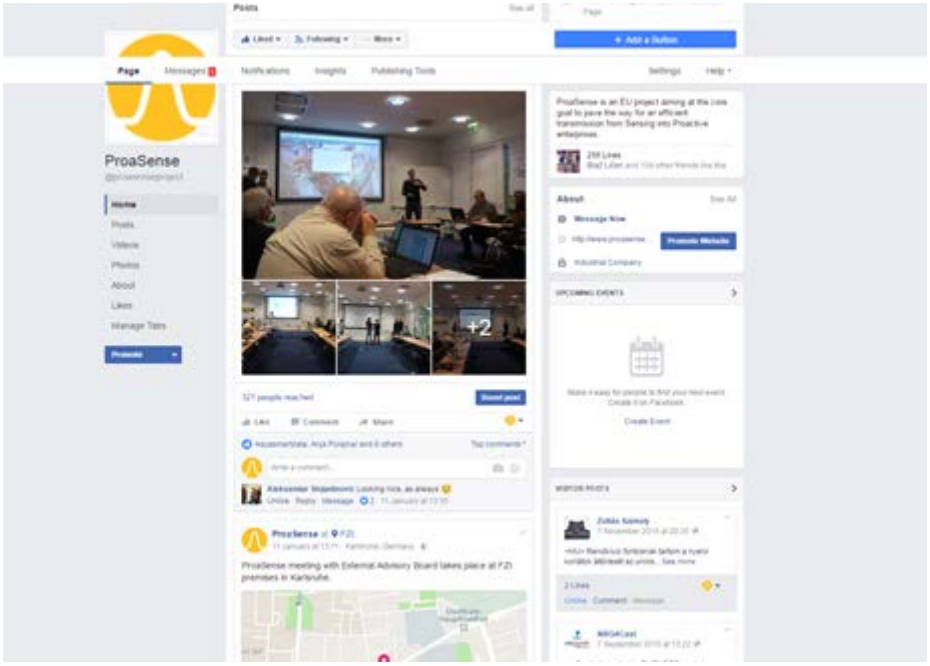

FIGURE 4: PROASENSE FACEBOOK PAGE

2.3.1.3 PROASENSE TWITTER

The target for ProaSense Twitter account was to increase the number of followers up to 500. At the moment the number of followers is **471** and is rising. The plan was to publish at least 1 to 2 tweets per week. The plan was that until the end of the project around 150 -200 tweets altogether would be imposed. Altogether ProaSense tweeted **169** times. The content of tweets was mainly focused on ProaSense outcomes, results and showcases with the main target of potential end users.

All three years of the ProaSense project duration Project Consortium worked excessively on expanding ProaSense Community on Twitter. With usage of Hashtags the intended target audience

was specifically addressed (IE Big Data Club https://twitter.com/IEBigData, Big Data Value Association https://twitter.com/BDVA_PPP, Big Data Europe https://twitter.com/BigData_Europe, Big Data Science https://twitter.com/analyticbridge, Data Science Central https://twitter.com/DataScienceCtrl, DEBS 2015 https://twitter.com/ACM_DEBS, etc.). The ProaSense Twitter community is available at https://twitter.com/ProaSense.

FIGURE 5: PROASENSE TWITTER PROFILE

2.3.1.4 PROASENSE LINKEDIN GROUP

Plan for ProaSense LinkedIn group was to increase the total number of members up to 150. The plan was to publish at least **1- 2 discussions per week**. Until the end of the project there from **100 to 150 discussions** were planned to be arranged. Altogether there are **161 interested individuals from both industry and research** who follow ProaSense LinkedIn group. So far **97 discussions** related to progress of ProaSense, events to be attended and publications released were formed. The group can be found at https://www.linkedin.com/groups/7483187

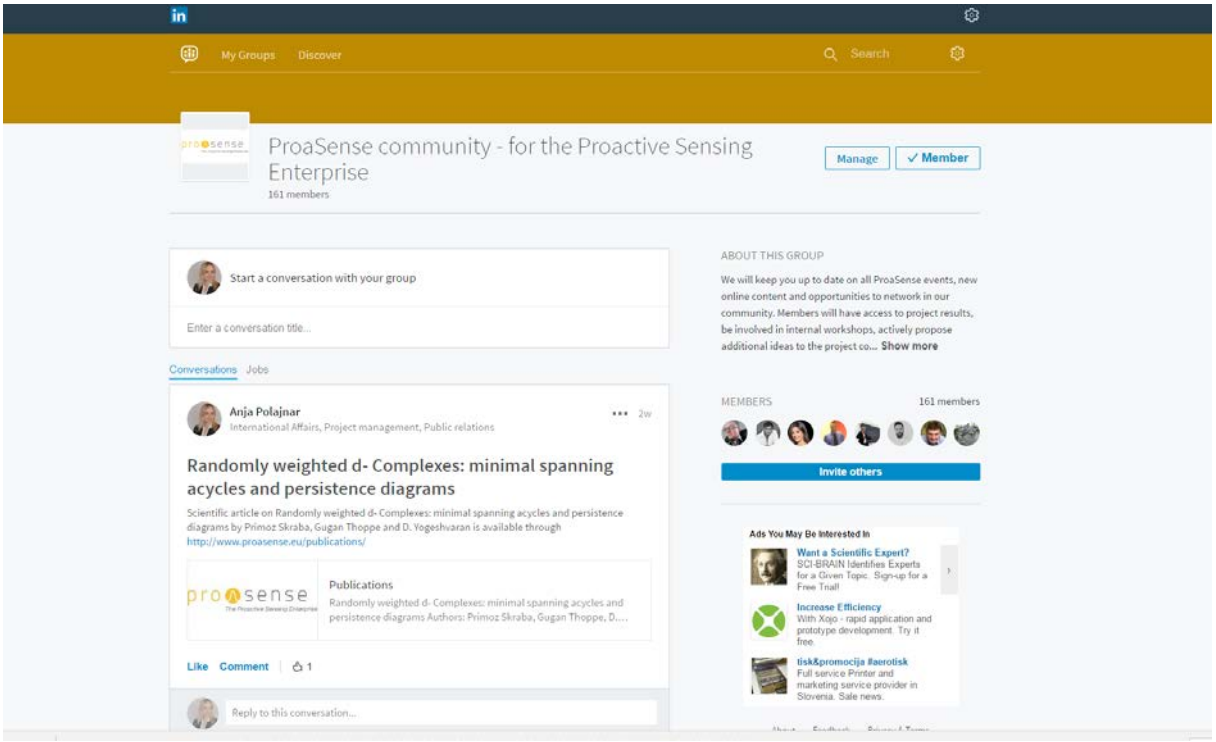

FIGURE 6: PROASENSE LINKEDIN GROUP

2.3.1.5 PROASENSE YOUTUBE CHANNEL

It was planned to publish 2 videos on both ProaSense showcases and a technical video. Over the project duration ProaSense team recorded 6 videos altogether. Among them 3 are promotional, 1 is technical explaining the OODA loop and 2 are showcase videos explaining use cases.

The plan was to reach **1000** views by interested community. By sharing the video on Videolectures.NET site and it Facebook page we reached altogether around **5000** views. ProaSense promotional video was shared through Videolectures.NET Facebook site and gained **2511 views**.

All videos produced by ProaSense are uploaded to YouTube Channel. In the three years of the project altogether **6 videos** which were published at the project's website were uploaded. Altogether we listed **more than 722 views of ProaSense** videos at the YouTube site.

Links to videos:

- ProaSense at a glance: https://www.youtube.com/watch?v=VknI_1AT6Lk
- Part 1 – What is ProaSense about? https://www.youtube.com/watch?v=vW5xVIdtGPE
- Part2 – Technical overview of ProaSense https://www.youtube.com/watch?v=QgGehsi4MXU
- Hella Saturnus Showcase Video - https://www.youtube.com/watch?v=1I2PeT1xZ1k
- MHWirth Showcase Video - https://www.youtube.com/watch?v=Jo4cp3Ii0ys
- ProaSense Technical Video - https://www.youtube.com/watch?v=MNQ2EEDygFo&t=2s

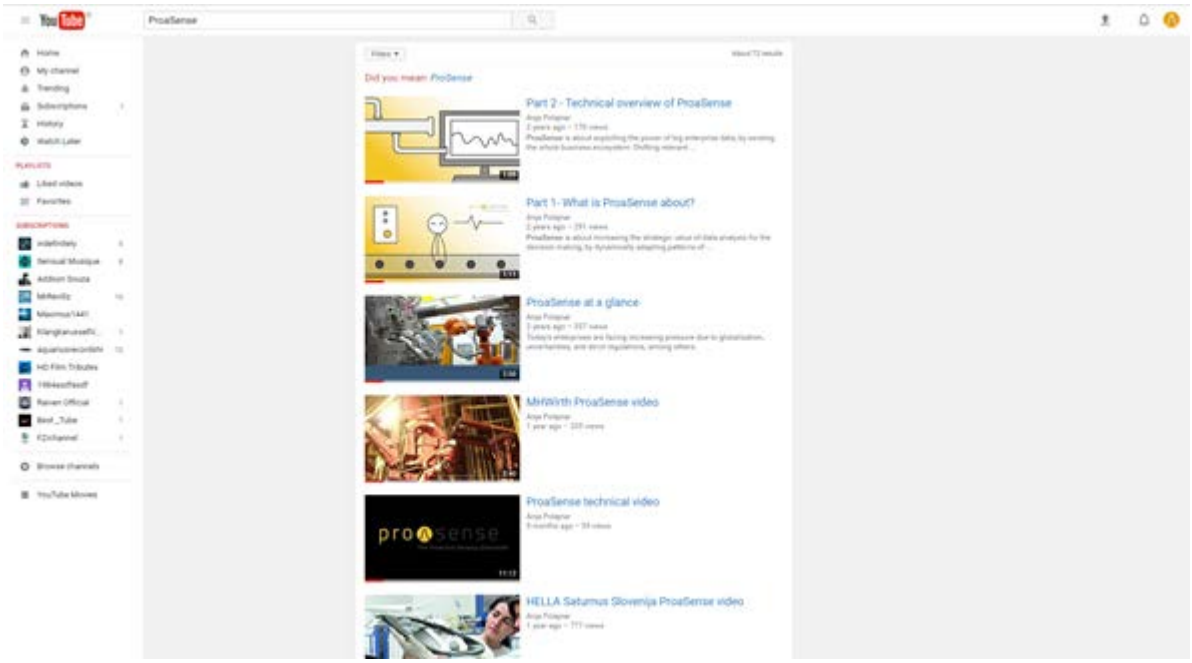

FIGURE 7: PROASENSE YOUTUBE CHANNEL

2.3.1.6 PROASENSE NEWSLETTER

ProaSense team published **5 newsletters**. The main objective of newsletter was to inform public about the project and gain interest and engagement of potential users and to communicate with all stakeholders and partners in order to inform about recent and future development of the project. ProaSense newsletter gave timely information of the project's advancement and contains the latest events attended, technical outcomes and plans for attending events in the future. Furthermore, the newsletter contained contact info (e-mail and web details) as well as the presence of ProaSense on major social networking and content platforms. Newsletters were sent to ProaSense community as well as to partner organisations of the project consortium partners. The format was approximately 2 -4 pages A4 in PDF format, circulated through e-mail lists to the interest parties, and also available on the website to be downloaded by the others interested. ProaSense Newsletters are available at http://www.proasense.eu/media/ .

The standard contents for the newsletter follow the structure:

- Word from the editor-in-chief e.g. editorial
- Information about the progression of the project
- Information of topical events (future and past)
- Contacts, link to the website and social media

FIGURE 8: PROASENSE NEWSLETTER – STANDARD FORM

2.3.2. IMPACT OF PRINTED MEANS

During the project publications of articles and contributions in national and international journals (business and scientific) were submitted. Altogether 19 scientific articles in prominent journals such as Springer and IEEE were published. Two of them won Best paper Awards. We are glad also that 1 PhD thesis based on ProaSense was written, while another one is on-going. Materials such as flyers, brochures and roll-ups were used as dissemination material for conferences and other events. Moreover, press releases on the project were sent out to ICT related, business and general media.

In scope of the project ProaSense flyer, three-fold brochure and roll-up were designed. A project flyer was upgraded during the second year of the project and was widely used at events to give general information about the project with around **1000 printed copies**. General articles about ProaSense were published in 7 general and ICT media addressing broader public and gained approximately 200.000 views according to statistics of the portals.

2.3.2.1 PROASENSE FLYER

ProaSense flyer was widely used for presentation of the ProaSense project at 32 events, seminars, workshops, conferences and meetings. By being both in a printed and electronic form, the flyer

enables the consortium partners to use (Print-On-The-Go) the flyer in dissemination events and workshops, as well as to disseminate it through their respective websites.

The ProaSense flyer's main purpose is to have a document that provides a quick overview of the project in a compressed easy-to-follow format that can be used as an introductory to parties previously unaware of the project. The flyer provides the following information:

- Project title, acronym and logo
- Project summary in terms of explaining the ProaSense metaphor (background, motivation, expected value and market)
- Main innovations of the project
- List of project partners
- Contact information for the project coordinator and link to the project website for further information and social media channel

ProaSense flyer is available at http://www.proasense.eu/wp-content/uploads/2015/06/ProaSense-flyer.pdf .

FIGURE 9: THE PROASENSE FLYER

2.3.2.2 PROASENSE ROLL-UP

ProaSense produced a Stand Roll-up 2.00m x 1.00m that reflects the scope of the project. The Roll-up presents ProaSense concepts and innovations. We printed out two roll-ups and used them to present ProaSense in relevant dissemination events during the project. The roll up will be given to Nissatech and will be used on further exploitation events after the end of project duration.

FIGURE 10: PROASENSE ROLL-UP

2.3.2.3 PROASENSE PRESS RELEASES

General press release on ProaSense was prepared in order to target general and business public.
Press release gives information about the project, significant dates during the life cycle of the project (such as launch date and closing date of the pilots), outcomes of the project; major developments of the project and organization of major events.
ProaSense press release may relate to a milestone or the completion of a major task and related publishing of a public deliverable, but these may also be more focused results that are not directly

linked to a project phase, but rather to the content based achievements. Press release is available at: http://www.proasense.eu/wp-content/uploads/2014/12/ProaSense_Press_Release.pdf.

2.3.2.4 PROASENSE BROCHURE

ProaSense brochure follows the same "professional" appearance the flyer has. It presents the project in more detail, namely ProaSense concept, innovations and usability of the system with illustration of both use cases. ProaSense brochures will be given to Nissatech for further exploitation after the end of duration of the project. ProaSense brochure is available at: http://www.proasense.eu/wp-content/uploads/2015/11/ProaSense-brochure_press.pdf

2.3.2.5 PROASENSE PUBLICATIONS

In the three years of the project 19 scientific papers were published about ProaSense. Furthermore, 7 general articles were published in different media which address computer, business, scientific and general public. Altogether we estimate around 250.000 people were reached. The general article about ProaSense was published in Računalniške novice and was spread to other portals. According to analytics 150.000 people read this article. We estimate another 100.000 people were reached by other articles which were published, social media activity, web site visits, scientific, business and general events.

Looking to D8.1.2 expectations stated were exceeded: *"In Year 2 the Consortium intends to publish about its work in two scientific journals, one conference proceeding, two magazines targeted to international business community and in Hella Saturnus Newsletter."* Expectations were reached and even exceeded with 19 scientific papers and 7 general articles published.

NO.	Title	Main author	Title of the periodical or the series	Publisher	Year	Relevant pages	Links
1	*ProaSense: The Proactive Sensing Enterprise.*	*Dominik Riemer, Ljiljana Stojanovic and Benedikt Kaempgen*	*European Semantic Web Conference 2015*		*2015*		http://2015.eswc-conferences.org/sites/default/files/PN-ESWC-2015_num9.pdf
2	*SEPP-Semantics-Based Management of Fast Data*	*Dominik Riemer, Ljiljana Stojanovic and Nenad Stojanovic*	*2014 IEEE 7th International Conference on Service-Oriented Computing and Applications*		2014	pp. 113-118	http://www.proasense.eu/wp-content/uploads/2015/01/SEPP_Semantics-Based-Management-of-Fast-Data.pdf
3	*Anticipation-driven Architecture for Proactive Enterprise Decision Making*	*Babis Magoutas, Nenad Stojanovic, Alexandros Bousdekis, Dimitris Apostolou, Gregoris Mentzas, Ljiljana*	CAiSE (Forum/Doctoral Consortium)2014	*Pre-proceedings of CAISE'14 Forum*	2014	pp. 121-128	http://ceur-ws.org/Vol-1164/PaperVision16.pdf

		Stojanovic					
4	*Mobile CEP in real-time big data processing: challenges and opportunities*	*Nenad Stojanovic, Ljiljana Stojanovic, Yongchun Xu, Boban Stajic*	*DEBS '2015 Proceedings of the 8th ACM International Conference on Distributed Event Based Systems*	DEBS '2015 Proceedings of the 8th ACM International Conference on Distributed Event Based Systems	2015	pp. 256-265	http://ceur-ws.org/Vol-1164/PaperVision16.pdf
5	*A proactive decision making framework for condition-based maintenance*	*Alexandros Bousdekis , Babis Magoutas , Dimitris Apostolou , Gregoris Mentzas*	*Industrial Management & Data Systems, Vol. 115 Iss: 7*	Emerald Insight	2015	pp.1225 – 1250	http://www.emeraldinsight.com/doi/abs/10.1108/IMDS-03-2015-0071
6	*Supporting the Selection of Prognostic-based Decision Support Methods in Manufacturing*	*Alexandros Bousdekis, Babis Magoutas, Dimitris Apostolou and Gregoris Mentzas*	*17th International Conference on Enterprise Information Systems (ICEIS 2015)*		2015	pp.487 - 494	http://www.proasense.eu/wp-content/uploads/2015/08/Supporting-the-Selection-of-Prognostic-based-Decision-Support-Methods-in-Manufacturing.pdf
7	*Dynamic Monitoring for Improving Worker Safety at the Workplace: use case from a manufacturing shop floor*	*Aleksandar Stojadinovic, Nenad Stojanovic, Ljiljana Stojanovic*	*Proceeding DEBS '15 Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems*		2015	pp. 205-216	http://dl.acm.org/citation.cfm?id=2771881
8	*StreamPipes: Solving the DEBS Grand Challenge with Semantic Stream Processing Pipelines*	*Dominik Riemer, Florian Kaulfersch, Robin Hutmacher, Lilijana Stojanovic*	*Proceeding DEBS '15 Proceedings of the 9th ACM International Conference on Distributed Event-Based Systems*			pp. 330-331	http://dl.acm.org/citation.cfm?id=2776765&dl=ACM&coll=DL
9	*A Multi-Scale methodology for explaining*	*Luka Stopar*	*Conference on Data Mining and Data Warehouses*		2015		http://www.proasense.eu/wp-content/uploads/2015/10/A-Multi-Scale-methodology-for-explaining-data-streams.pdf

	data streams		*(SiKDD 2015) held at the 18th International Multiconference on Information Society IS-2015. October 5th, 2015, Ljubljana, Slovenia*				
10	*A Real-Time Architecture for Proactive Decision Making in Manufacturing Enterprises*	*Alexandros Bousdekis, Nikos Papageorgiou, Babis Magoutas, Dimitris Apostolou , Gregoris Mentzas*	*In OTM Confederated International Conferences" On the Move to Meaningful Internet Systems*	Springer International Publishing	2015	pp 137-146	http://link.springer.com/chapter/10.1007/978-3-319-26138-6_17
11	*Big Data Process Analytics for Continuous Process Improvement in Manufacturing*	*Nenad Stojanovic, Marko Dinic, Ljiljana Stojanovic*	*2015 IEEE International Conference on Big Data (Big Data)*		2015	pp 1398 - 1407	http://www.proasense.eu/wp-content/uploads/2014/12/Big-Data-Process-Analytics-for-Continuous-Process-Improvement-in-Manufacturing.pdf
12	*Review, analysis and synthesis of prognostic-based decision support methods for condition based maintenance*	*Alexandros Bousdekis, Babis Magoutas, Dimitris Apostolou, Gregoris Mentzas*	*Journal of Intelligent Manufacturing. December 14th, 2015. Springer.*	*Springer International Publishing*	2015		http://link.springer.com/article/10.1007/s10845-015-1179-5
13	*A Proactive Decision Support System for Maintenance Cost Minimisation in Manufacturing Enterprises*	*Alexandros Bousdekis, Gregoris Mentzas*	*4th Student Conference of Hellenic Operational Research Society (HELORS) 2015*		2015	pp. 60-65	https://www.researchgate.net/publication/298725999_A_Proactive_Decision_Support_System_for_Maintenance_Cost_Minimisation_in_Manufacturing_Enterprises BEST PAPER AWARD
14	*Continuous Improvement of*	*Alexandros Bousdekis, Nikos*	*Proceedings of the 18th International*		2016	pp. 166-173	http://www.scitepress.org/DigitalLibrary/PublicationsDetail.aspx?ID=kZeiSA6PeC4=&t=1

	Proactive Event-driven Decision Making through Sensor-Enabled Feedback (SEF)	*Papageorgiou, Babis Magoutas, Dimitris Apostolou, Gregoris Mentzas*	*Conference on Enterprise Information Systems (ICEIS 2016)*				
15	*A Multiple Criteria Approach Using ELECTRE for the Selection of Maintenance Strategy in Manufacturing Companies*	*Alexandros Bousdekis, Gregoris Mentzas*	*In 5th International Symposium and 27th National Conference on Operational Research, Hellenic Operational Research Society (HELORS)*		9-11 June 2016		https://www.researchgate.net/publication/305640607_A_Multiple_Criteria_Approach_Using_ELECTRE_for_the_Selection_of_Maintenance_Strategy_in_Manufacturing_Companies
16	*A Probabilistic Model for Context-Aware Proactive Decision Making*	*Alexandros Bousdekis, Nikos Papageorgiou, Babis Magoutas, Dimitris Apostolou, Gregoris Mentzas*	*Information, Intelligence, Systems and Applications (IISA), 2016 6th International Conference on, (2016). IEEE*	IEEE	2016		
17	*A proactive event-driven decision model for joint equipment predictive maintenance and spare parts inventory optimization*	*Alexandros Bousdekis, Nikos Papageorgiou, Babis Magoutas, Dimitris Apostolou, Gregoris Mentzas.*	*In: Proceedings of the 5th International Conference on Through-life Engineering Services(TES Conf 2016)*	Elsevier	2016	pp.1225 - 1250	http://www.emeraldinsight.com/doi/abs/10.1108/IMDS-03-2015-0071?journalCode=imds BEST PAPER AWARD
18	*Connecting Business Processes and Sensor Data in Proactive Manufacturing Enterprises*	*Sobah Abbas Petersen, Rimmert van der Kooij, Primoz Puhar*	*In Chapter Collaboration in a Hyperconnected World, Volume 480 of the series IFIP Advances in Information and Communication Technology*	Springer International Publishing	2016	pp 101-109	http://link.springer.com/chapter/10.1007/978-3-319-45390-3_9

19		*Skraba Primoz, Thoppe Gugan, Yogeshvaran D.*	*Randomly weighted d-Complexes: minimal spanning acycles and persistence diagrams*		2017		https://arxiv.org/pdf/1701.00239.pdf

TABLE 2: PUBLICATIONS ABOUT THE PROASENSE PROJECT

	Media	***Title of publication***	***Number of recipents***	***Website of publication***
1	***Wireless & Design Magazine***	*Smart firms detect their problems in advance*		*https://www.wirelessdesignmag.com/news/2016/01/smart-firms-detect-their-problems-advance#.VrCwgLT5o4E.facebook*
2	***Računalniške novice***	*"Razvija se sistem za proaktivno podjetje"*	***160.000*** *unique visitors per month* *58.000 readers of printed editions*	*http://www.racunalniske-novice.com/novice/sporocila-za-javnost/razvija-se-sistem-za-proaktivno-podjetje.html*
3	***Novice 24***	*"Razvija se sistem za proaktivno podjetje"*		*http://novice24.net/item/288722_razvija-se-sistem-za-proaktivno-podjetje*
4	***eRevija***	*"Razvija se sistem za proaktivno podjetje"*		*http://www.erevija.com/novica/7525587/Razvija-se-sistem-za-proaktivno-podjetje*
5	***Preberi.si***	*"Razvija se sistem za proaktivno podjetje"*		*http://www.preberi.si/content/view/11576022-Razvija-se-sistem-za-proaktivno-podjetje.html*
6	***German – Slovenian Chamber of Commerce Newsletter***	*"Hella Saturnus Slovenija unter den ersten Benutzern von ProaSense"*	***2500*** *German and Slovenian Industries*	*http://slowenien.ahk.de/newsletter-system/ahk-slowenien-newsletter/newsletter-juli-2015/*

7	***Novice IJS***	*Laboratorij za umetno inteligenco in* *Center za prenos znanja na področju* *Informacijskih tehnologij sodelujeta v mednarodnem konzorciju, ki razvija sistem za proaktivno podjetje*	***2400 issues** to scientific institutions in Slovenia and also ex-Yugoslavia countries*	*http://www.ijs.si/ijsw/Novice%20IJS/Desno?action=AttachFile&do=get&target=Novice_zadnje.pdf (page 5, in Slovenian language)*
8	***Gemini***	*Smarte firmaer finner problemet før det oppstår*	***Web based***	http://gemini.no/2015/12/flinke-firma-finner-problemet-for-det-oppstar/ (web, in Norwegian langayfe

TABLE 3: GENERAL PUBLICATIONS

2.3.3 IMPACT OF ORAL DISSEMINATION MEANS

Partners of the ProaSense Consortium participated at **32** events, namely **22** scientific conferences and **10** events intended to business or general public. ProaSense Consortium shared knowledge and results to interested scientific public, exchanged views and discussed about project's technical aspects and knowledge. ProaSense Community rose to **103** members from **24** different countries mainly from industrial, SME, computer and research public. We would expose presentation of ProaSense by its stand at **CeBIT 2016**. Moreover, we are proud that ProaSense was awarded by "**100 Places for Industry 4.0 in Baden-Württemberg**".

2.3.3.1 PROASENSE COMMUNITY

ProaSense community is a group that it combines a larger set of interested individuals, organizations, enterprises and even other FP7/H2020 projects, which benefit from increased awareness, participation and eventually from the adoption and usage of the ProaSense technology. The goal till the end of the project was to have at least 100 members to the ProaSense community. The result is there are 103 members in ProaSense community through ProaSense website.

Moreover, we joined other FP7/H2020 communities of practice, to learn how they are working and to get a platform to recruit users as well (e.g. IoT weeks in London, FInES cluster, LinkedIn groups).

ProaSense Community form has been available at the ProaSense website and sign-ins grew up to **103 interested individuals**. We mainly focused on broadening ProaSense community by joining related FP7 and H2020 projects. Moreover ProaSense joined existing initiatives, namely FInES cluster, DBI Initiative, OpeningUp Slovenia, European Research Cluster on Internet of Things (IERC Cluster), Center for Intergated Operations in the Petroleum Industry (IO Center), HFC Forum on Human factors in Control systems (HFC forum), iNTEeg –Risk, Early Recognition, Monitoring and Integrated Management of Emerging, New Technology related Risks, The Future Internet Assembly (FIA), NESSI (Networked European Software and Services Initiative).

ProaSense community members were attracted through presenting **ProaSense in scientific and industrial events, through social media and general media promotion**. Besides joining through web form at ProaSense website also Facebook, Twitter and LinkedIn channels build strong Community. Related FP7/H2020 projects published news about ProaSense at their websites. By that we created higher visibility for anybody who is searching for information on sensors, sensor analytics, and proactivity, who can find ProaSense on the web and join.

Altogether **103 people** from **24 different countries** signed into **ProaSense Community**.

Out of 103 members, **63** come from various industries and SMEs and **40** from various research and academic institutions (see ANNEX I).

Members of ProaSense External Advisory Board (EAB) have been included into dissemination activities of ProaSense during the whole duration of the project. ProaSense's EAB includes prominent researchers and managers in IT business presented in D8.1.2 (page 27) and D 8.1.3 (page 31).

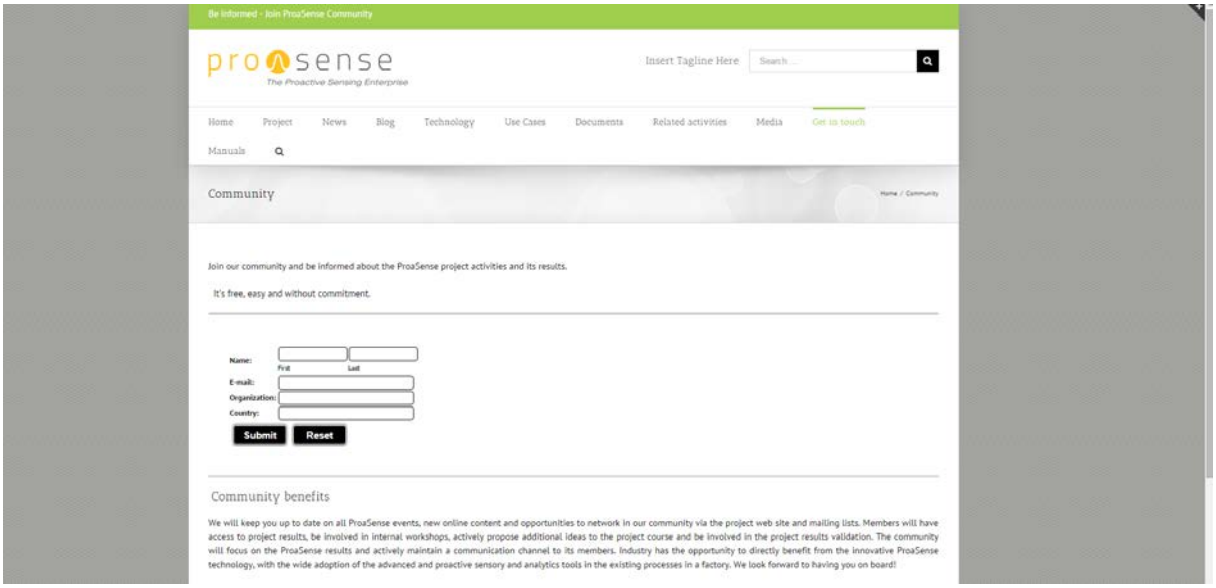

FIGURE 11: PROASENSE COMMUNITY REGISTRATION FORM

2.3.3.2 CONFERENCES AND EVENTS ATTENDED

Over the three years of the project altogether 32 events were attended by the ProaSense team, among them 20 scientific conferences and 12 general events. Altogether around 2000 people were reached.

LIST OF DISSEMINATION ACTIVITIES								
NO.	*Type of activities*[1]	*Main leader*	*Title*	*Date*	*Place*	*Type of audience*[2]	Size of audience	Countries addressed
1	*Conference*	*FZI*	*ICT 2013*	*6.11.2013*	*Vilnius, Lithuania*	*ICT professionals from industry, academia and research*	*100*	EU

2	*Conference*	*FZI*	*IoT Week 2014*	*16.-20. June 2014*	*London, UK*	*ICT professionals from industry, academia and research*	100	EU
3	*Conference*	*JSI*	*Class conference*	*24.September 2014*	*Bled, Slovenia*	*Public administration representatives, ICT professionals from industry, academia and research*	100	EU
4	*Poster presentation*	*JSI*	*Discovery Science*	*8.-10. October 2014*	*Bled, Slovenia*	*Scientists*	100	EU
5	*Conference*	*JSI*	*Ljubljana Forum 2014- Cities of the Future*	*25.-26. September 2014*	*Ljubljana, Slovenia*	*Public administration representatives, representatives from industry, academia and research*	80	EU
6	*Workshop*	*SINTEF*	*Norwegian Centre for Excellence Instrumentation*	*21. November 2014*	*Trondheim, Norway*	*Researchers*	20	Norway
7	*Conference*	*FZI*	*IEEE International Conference on Service Oriented Computing & Applications (SOCA 2014)*	*17.-19. November 2014*	*Matsue, Japan*	*ICT professionals from industry, academia and research*	50	International (Japan, USA, China, India, EU)
8	*Workshop*	*FZI*	*MSEE Final Workshop, Digital*	*27. November 2014*	*Brussels, Belgium*	*Academia and research representatives*	50	EU

			Business Initiative					
9	*Workshop*	*FZI, ICCS*	*Towards 2030 Internet Business Innovation*	*20. -21. March 2014*	*Athens, Greece*	*ICT professionals from industry, academia and research*	100	EU
10	*Workshop*	*SINTEF, ICCS*	*Joint workshop within EDBT/ICDT conference*	*23.- 27. March 2015*	*Brussels, Belgium*	*Academia and research representatives*	25	EU
11	*Workshop*	*FZI*	*Web of things workshop*	*20. April 2015*	*Munich, Germany*	*ICT professionals from industry, academia and research*	100	EU
12	*Workshop*	*JSI*	*SUNSEED workshop*	*25. April 2015*	*Aalborg, Denmark*	*Academia and research representatives*	25	EU
13	*Conference*	*FZI*	*ESWC 2015 – European Semantic Web Conference*	*31. May – 4. June 2015*	*Portorož, Slovenia*	*ICT professionals from industry, academia and research*	100	EU
14	*Workshop*	*MHWirth*	*Specialist Workshop on Condition Monitoring & Condition based maintenance*	*8.- 9. June 2015*	*Grimstadt, Norway*	*Industry, academia and research*	50	Norway
15	*Conference*	*UNINOVA*	*IoT Week in Lisbon*	*16.-18. June 2015*	*Lisbon, Portugal*	*ICT professionals from industry, academia and research*	200	EU
16	*Conference*	*SINTE*	*Big Data*	*7.-19. June 2015*	*Madrid,*	*ICT professionals*	100	EU

		F	*Value Association Madrid Summit*		*Spain*	*from industry, academia and research*		
17	*Conference*	*FZI*	*DEBS 2015: 9th ACM International Conference on Distributed Event Based Systems*	*29. June – 3. July 2015*	*Oslo, Norway*	*ICT professionals from industry, academia and research*	100	Internati onal
18	*Conference*	*JSI*	*Conference on Data Mining and Data Warehouses (SiKDD2015)*	*5. October 2015*	*Ljubljana, Slovenia*	*Representatives of academia and research in ICT*	20	Slovenia
19	*Conference*	*UNINO VA*	*ICT 2015 Innovate, Connect, transform*	*20.-22. October 2015*	*Lisbon, Portugal*	*ICT professionals from industry, academia and research*		EU
20	*Workshop*	*ICCS*	*EI2N 2016: 10th International Workshop on Enterprise Integration, Interoperabil ity and Networking - OnTheMove Federated Conferences & Workshops*	*26.-30. October 2015*	*Rhodes, Greece*	*Representatives of academia and research in ICT*	35	Internati onal

			(OTM 2015)					
21	*Exhibition*	*JSI*	*ESR Dublin 2015*	*4.- 6.October 2015*	*Dublin, Ireland*	*ICT professionals from industry, academia and research*	100	Internati onal
22	*Conference*	*FZI*	*IEEE BigData 2015*	*29. October -1. November 2015*	*Santa Clara, USA*	*ICT professionals from industry, academia and research*	100	Internati onal
23	*Exhibition*	*ICCS*	*The Lab Day in Athens*	*1. March 2016*	*Athens, Greece*	*Students*	300	Greece
24	*Conference*	*JSI*	*"Jožef Stefan Days"*	*19.-26. March 2016*	*Ljubljana, Slovenia*	*General public*	100	Slovenia
25	*Exhibition*	*FZI*	*CeBIT 2016*	*20.-24. March 2016*	*Hannover, Germany*	*General public*	200	EU
26	*Conference*	*SINTE F*	*8th International conference – Interoperabil ity for enterprise systems and applications*	*29. March -1. April 2016*	*Guimaraes , Portugal*			
27	*Conference*	*ICCS*	*18th International Conference on Enterprise Information Systems (ICEIS)*	*25.-28. April 2016*	*Rome, Italy*	*Representatives of academia and research in ICT*	55	Internati onal
28	*Conference*		*IoT Week in Belgrade*	*29. May - 2.June 2016*	*Belgrade, Serbia*	*ICT professionals from industry, academia and research*	100	Internati onal

29	*Conference*	*ICCS*	*5th International Symposium and 27th National Conference on Operational Research, Hellenic Operational Society (HELORS)*	*9.-11. June 2016*	*Athens, Greece*	*Representatives of academia and research in ICT*	45	Greece
30	*Conference*	*ICCS*	*The 7th International Conference on Information, Intelligence, Systems and Application (IISA)*	*13. -15. July 2016*	*Chalkidiki, Greece*	*Representatives of academia and research in ICT*	50	International
31	*Conference*	*ICCS*	*The 5th International Conference on Through –life Engineering Services*	*1.-2. November 2016*	*Cranfield University, UK*	*Representatives of academia and research in ICT*	50	International
32	Conference	Nissatech	IOT Forum	2.-4. November 2016	Belgrade	Representatives of academia and research in ICT		International

TABLE 4: CONFERENCES AND EVENTS ATTENDED

2.4 LIAISON ACTIVITIES WITH OTHER PROJECTS

Over the three years of the project ProaSense Consortium established collaboration with related projects in big data, sensor analytics, Proactive Enterprise Systems, Situational Awareness, Smart Sensing Services domains. NRG4Cast, Speedd, Sunseed, Mobis, Fitman, BigPro, Seramis, Interact, FERARI project, CaaS, Osmosis, Heads and DaPaas projects. ProaSense began to cooperate also with two H2020 projects, namely MANTIS and AquaSmart.

Cooperation with NRG4Cast (Energy forecast) project and Sunseed (Sustainable and robust networking for smart energy distribution) project

NRG4Cast and Sunseed projects have had related activities in WP2 and dissemination. One of them was mutual poster presentation on Big Data Stream Mining with NRG4Cast project on SUNSEED workshop that took place April 25th, 2015 in Aalborg, Denmark (the poster can be found through - http://sunseed-fp7.eu/wp-content/uploads/2015/04/13_SUNSEED-Workshop-Poster-Big-Data-Analytics-for-Smart-Grids-final.pdf).

At SiKDD 2015 workshop in scope of Information Society 2015 conference a paper entitled "*A Multi-Scale Methodology For Explaining Data Streams*" which is mutual to both ProaSense and NRG4Cast projects was published and presented (the scientific article is available through - http://www.proasense.eu/wp-content/uploads/2015/10/A-Multi-Scale-methodology-for-explaining-data-streams.pdf .

ProaSense was presented together with NRG4Cast and SUNSEED projects at 28th and 29th Information Days of Jožef Stefan Institute (year 2015 and 2016) which was intended to present scientific work to general public.

ProaSense was together with NRG4Cast presented to management board of Kolektor, which would be a potential end-user of ProaSense system. Kolektor boasts tradition in highly specialized industrial production. Kolektor is a trans-national company connecting almost 30 companies on strategic world markets. Developmentally as well as business-oriented, the programs are managed in the following business divisions: Components and systems; Building technology and Energy and industrial technology.

Furthermore ProaSense flyers were disseminated also at EMENDER 2015 workshop organised by NRG4Cast, October 6th, 2015, in Ljubljana, Slovenia - http://ct3.ijs.si/emender-2015-energy-management-data-elaboration/.

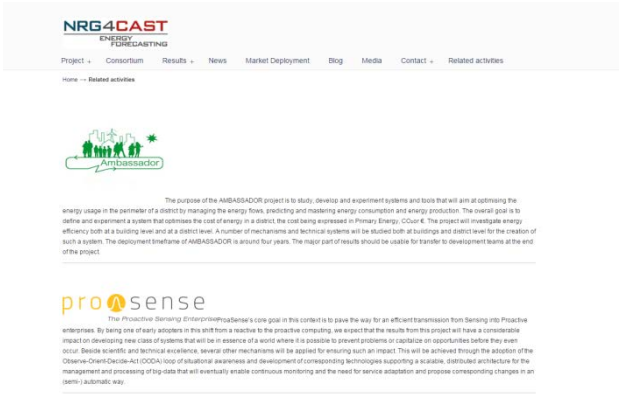

FIGURE 12: NRG4CAST REFERRING TO PROASENSE

SPEEDD - "SCALABLE PROACTIVE EVENT-DRIVEN DECISION-MAKING and ProaSense has cooperated together, since the two projects run in parallel and share common objectives as well as underlying technological choices and research areas. In scope of the project duration Inter-project meetings with representative partners from both projects take place regularly as well as joint dissemination events. SPEEDD and ProaSense were also co-organisers of EI2N workshop in scope of OnTheMove conference which took place from 26th -30th October 2015 in Greece. The workshop 'Event Processing, Forecasting and Decision-Making in the Big Data Era' took place in March 27th, 2015 in Brussels in conjunction with the EDBT/ICDT 2015 conference (http://cer.iit.demokritos.gr/epfordm/)".

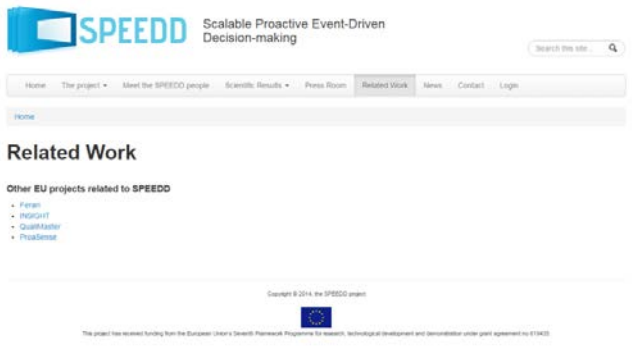

FIGURE 13: SPEEDD REFERRING TO PROASENSE

FERARI - is FP7 project with the goal to address these bottlenecks and to pave the way for efficient and timely processing of Big Data. FERARI project intends to exploit the

structured nature of M2M data while retaining the flexibility required for handling unstructured data elements. Both projects co –organised the workshop **'Event Processing, Forecasting and Decision-Making in the Big Data Era'** took place in March 27th, 2015 in Brussels in conjunction with the EDBT/ICDT 2015 conference (http://cer.iit.demokritos.gr/epfordm/)".

AquaSmart – **AquaCulture Smart and Open Data Analytics as a** Service is a **H2020 project** about enhancing innovation capacity within the aquaculture sector, by helping companies to transform captured data into knowledge and use this knowledge to dramatically improve performance. It also supports production benchmarking through access to global data. AquaSmart published ProaSense as related project at its website - http://www.aquasmartdata.eu/about/related-activities/. ProaSense team presented its work at **European Security Research – The Next Wave** conference, which included topics on big data analytics. It took place on November, 4th-6th 2015 in Dublin, Ireland. More: http://www.esrdublin2015.eu/about/.

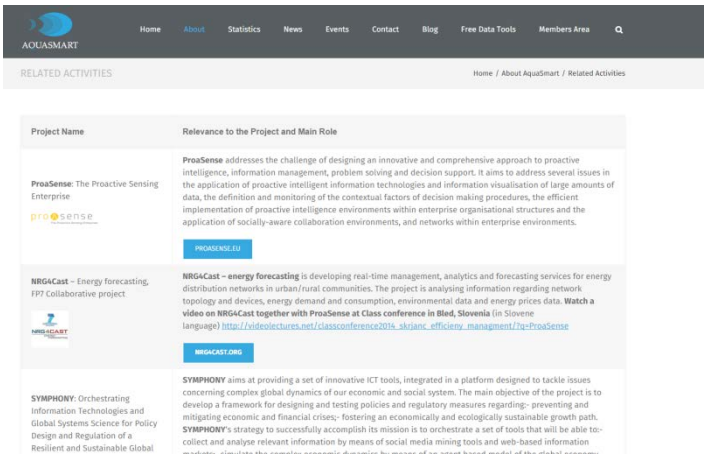

FIGURE 14: AQUASMART REFERRING TO PROASENSE

MANTIS - Cyber Physical System based Proactive Collaborative Maintenance is **a H2020 project** with its aim to provide proactive maintenance service platform

architecture based on Cyber Physical Systems that allows estimations of future performance, to predict and prevent imminent failures and to schedule proactive maintenance. Maintenance is no longer a necessary evil that costs what it costs, but an important function that creates additional value in the business process as well as new business models with a stronger service orientation. ProaSense established connection to MANTIS project and a mutual workshop on October 19th, 2015 in Lisbon, Portugal.

DaPaas combines data-as-a-service theories with the practical transformation and use of open and linked data to create a simple and cost-effective solution which will improve linked open data access. The goal is to reduce the barriers of insufficient resources or experience and allow everyone from developers, to SMEs and small public bodies to contribute to the open data landscape, and expand the linked open data cloud. ProaSense and DaPaas projects established connection and published as related projects at the website - [http://project.dapaas.eu/dapaas-related-projects.](http://project.dapaas.eu/dapaas-related-projects)

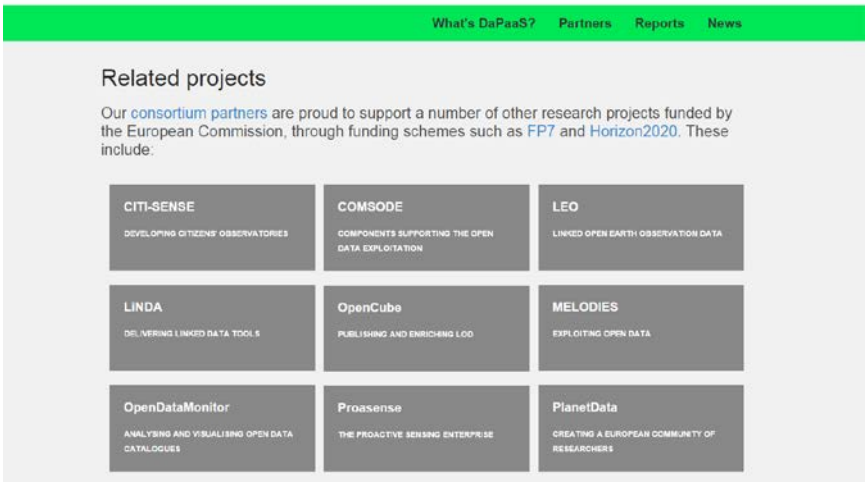

FIGURE 15: DAPAAS REFERRING TO PROASENSE

CaaS – Capability as a Service for Digital Enterprises

The main goal of the CaaS project is to bring about a shift from the service-oriented paradigm to a capability delivery paradigm. This puts particular focus on the context in which digital enterprises make their business, requiring customisation of the business offerings as the context of delivery

changes. ProaSense and CaaS established connection and published as related projects at the website - http://caas-project.eu/related-projects/

FIGURE 16: CAAS REFERRING TO PROASENSE

FITMAN - Future Internet Technologies for MANufacturing industries

The mission of the FITMAN project is to provide the FI PPP Core Platform with 10 industry-led use case trials in the domains of Smart, Digital and Virtual Factories of the Future. FITMAN Trials will test and assess the suitability, openness and flexibility of FI-WARE Generic Enablers while contributing to the STEEP (social-technological-economical-environmental-political) sustainability of EU Manufacturing Industries. The use case trials belong to several manufacturing sectors such as automotive, aeronautics, white goods, furniture, textile/clothing, LED lighting, plastic, construction, and manufacturing assets management-. (More: http://www.fitman-fi.eu/).

BigPro - Big-Data and event-based adjustment for the configuration of resilient production systems

Project's goal is the development of a Big Data platform including algorithms for data pattern detection to implement a proactive disturbance management system in the production. Human data is considered as an additional data source. The disturbance management is further supported by visualization of the disturbances and respective counteractions. Since production systems are

becoming more and more technically mature today's manufacturing industry sees itself confronted with a bigger and bigger pile of data. (More: http://www.fir.rwth-aachen.de/en/research/research-projects/bigpro-01is14011a).

HEADS - Heterogeneous and Distributed Services for the Future Computing Continuum is about future computing continuum, which is composed by a highly heterogeneous interconnection of platforms and devices offering a wide diversity of capabilities. On the one end of the continuum, cloud platforms provide virtually unlimited and “elastic” resources in terms of computation power, storage and bandwidth. On the other end, the already vast and rapidly increasing number of smart objects, sensors, embedded systems and mobile devices connected to the Internet provides close interaction with users and with the physical world. (More: http://heads-project.eu/).

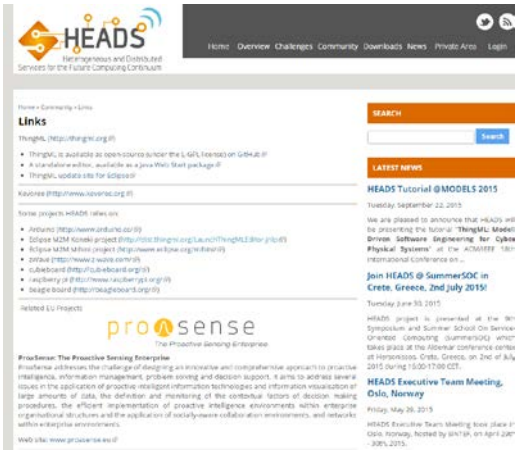

FIGURE 17: HEADS REFERRING TO PROASENSE

INTERACT – Interactive Manual Assembly Operations for the Human Centred operations in the future

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, flexible assembly workplaces. (Source: http://www.interact-fp7.eu/?page_id=6)

OSMOSE – OSMOsis applications for the Sensing Enterprise

The main objective of the OSMOSE project is to develop a reference architecture, a middleware and some prototype applications for the Sensing-Liquid Enterprise, by interconnecting Real, Digital and Virtual worlds in the same way a semi-permeable membrane permits the flow of liquid particles through itself. (Source: http://www.osmose-project.eu/).

SERAMIS – Sensor Enabled Real World Awareness for Management Information systems

SERAMIS aims at covering the entire causal chain from the initial investment in an RFID data collection infrastructure to the impact of data processing on firm performance.

(Source: http://seramis-project.eu/home/).

3 PLAN ON DISSEMINATION AFTER THE END OF THE PROJECT

As part of their exploitation strategy of Nissatech will follow up key elements of the dissemination activities and continuation of social media and dialogue with interested parties. To this end all materials- web (website, social media sites), printed (flyers, brochures, roll-ups, posters) and oral (lists of interested people, lists of events) will still be maintained jointly by JSI and Nissatech. After certain period of time ProaSense community will be transferred to product's website and social media established and maintained by Nissatech.

The material will be used for presenting ProaSense to software companies and SMEs in manufacturing and SMEs interested in big data analytics. Potential customers are from Oil&Gas domain, where predictive maintenance of off-shore assets (oil rigs) requires dynamic adaptation of the models to the frequent changes in the harsh environmental conditions, so that the new system, based on the concept of proactivity.

After the end of the project the focus will especially be to publish in computer and business oriented magazines and newspapers in order to reach wider audiences. To this end, press releases are going to be prepared for specific internet sites as well as ICT and business related magazines.

3.1.1 PLANNED WEB SITE MAINTENANCE

After the end of the project the ProaSense website will be maintained and kept up-to-date with news that are of interest for the intended costumers. Special focus will be on practical use of ProaSense.

After duration of the project, its visibility will be intensified through adding additional content, focusing on business conferences and publishing about the project in magazines intended to potential customers, namely business, ICT and industry public. Nissatech and JSI will jointly take over the responsibility of the web site and social media sites.

3.1.2 PLANNED MAINTENANCE OF TWITTER CHANNEL

ProaSense Twitter account will be maintained and will be focused on ProaSense outcomes, results and showcases with the main target of potential customers, namely business, ICT and industry public.

3.1.3 PLANNED MAINTENANCE OF LINKEDIN CHANNEL

ProaSense LinkedIn account will be maintained and will be focused on ProaSense outcomes, results and showcases with the main target of potential customers, namely business, ICT and industry public.

3.1.4 PLANNED MAINTENANCE OF FACEBOOK CHANNEL

ProaSense Facebook channel will be maintained and will be focused on ProaSense outcomes, results and showcases with the main target of potential customers, namely business, ICT and industry public.
Posts would gain wider visibility through **sharing functions**.

3.1.5 PLANNED MAINTENANCE OF YOUTUBE CHANNEL

ProaSense YouTube Channel will be maintained and will be focused on ProaSense outcomes, results and showcases with the main target of potential customers, namely business, ICT and industry public.

3.1.6 PLANNED PROASENSE VIDEO

So far 6 videos explaining ProaSense were published and will be used for further exploitation of the ProaSense platform. Additional videos will be made as needed by the various partners dissemination and exploitation activities.

3.1 PLANNED PRINT-BASED DISSEMINATION

Also after the project duration publications of articles and contributions in national and international journals (business and scientific) are planned.

3.2.1 PLANNED PRESS RELEASES

After the project duration press releases focused ProaSense outcomes and results as well as business impact will be prepared for general media. Together with press releases also newsletters in its standard format will be focused on business impact of the project.

3.3.1 PROASENSE COMMUNITY

After the project inviting new potential members to the ProaSense community will be continued. After the project links to already established communities will still be maintained (communities.eu network, ICE Conference Community, European Network of Living Labs (ENOLL), within Future Internet initiative, Europe Innova network, eChallenges conference, Innovating Regions in Europe network, the ESoCE network) and especially to attract potential end-users of ProaSense. Sign-in form will still be available at the project's website.

3.3.2 PLANNED ATTENDANCE AND DISSEMINATION AT CONFERENCES AND EVENTS

After the project duration focus will be on presenting ProaSense at academic and business oriented conferences where potential end-users are present.

3.3.3 TEACHING AND GENERAL COMPETENCE BUILDING

The research partners all will carry out teaching and general consultancy where ProaSense results will be presented to students and clients.

4 SUMMARY OF ACTIVITIES PERFORMED: ACHIEVEMENTS AND CONCLUSIONS

Aim of Tasks 8.1 which is dissemination and 8.2 which is community building was to share knowledge about ProaSense and its components and to establish general awareness about project aims and expected results. The goal was to share scientific knowledge about ProaSense with attending 32 events and writing 19 scientific papers also in prominent Journals such as Springer and IEEE publications. We are proud that 2 ProaSense scientific papers were awarded with Best Paper Awards and 1 PhD thesis was written based on ProaSense, while another one is on-going. Further, ProaSense was presented on a stand at CeBIT 2016 and received Award at "100 Places for Industry 4.0 in Baden-Württemberg".

Moreover, ProaSense website was published, maintained and constantly upgraded as a portal where all information about the project together with technology description, manuals, use cases and showcases, public deliverables, events, publications, related activities and media materials were published. Furthermore, flyers, three fold brochure and roll up were designed to illustrate ProaSense functionalities.

Dissemination activities during the three years of the ProaSense project period were oriented to achieve practical results, which can be summarised as follows:

– Dissemination strategy, in order to improve the diffusion of public exposure of ProaSense project concept and achievements and emphasize the novel concept and approach the project is developing, has been revised and improved during the current period. The strategy has been deployed around a paper collection activity reorganized and structured per WorkPackage (with a list of relevant paper information and the abstract) and cross Workpackage paper collection. Great effort has been put finally to guarantee a high level of exposure of ProaSense concepts and a high quality of the material collected.

– Update and maintenance of the relevant ProaSense dissemination material, which includes a project flyer, general presentation, brochures, newsletters and the updated website available at www.proasense.eu. Additional dissemination material (such as promotional, technical and showcase videos) presented the project results and outcomes of the project.

According to the DoW during the third year, the main objective was to expose elaborated use cases in order to increase the potential impact of the ProaSense project's results and to orient towards potential end-users of the project.

After the end of project duration, Phase 4 which is valorisation of the project will be entered. The phase after the end of project duration is focused on disseminating final results of ProaSense and user oriented demonstration which is targeted towards specific technological research, academic communities and end-users and institutional organisations. At the same time the final scientific valorisation of the project will be assumed by publications in national and international journals. The aim of dissemination after the project's end is to attract potential customers and investors.

The focus of dissemination will be presentation of ProaSense towards software companies and SMEs interested in big data analytics and SMEs in manufacturing domain. Participation at various events, B2B meetings, showcase videos, technical video will boost the communication process. Primary goal of Phase 4 is to increase the impact through external collaboration partners and attract attention of potential customers.

In conclusion it should be emphasized that wherever the project and its concept has been presented a great interest arose both within the technical scientific community and industry.

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