

Symbiosis of smart objects across IoT environments

688156 - symbloTe - H2020-ICT-2015

Initial Dissemination Plans

The symbloTe Consortium

Intracom SA Telecom Solutions, ICOM, Greece Sveučiliste u Zagrebu Fakultet elektrotehnike i računarstva, UNIZG-FER, Croatia AIT Austrian Institute of Technology GmbH, AIT, Austria Nextworks Srl, NXW, Italy Consorzio Nazionale Interuniversitario per le Telecomunicazioni, CNIT, Italy ATOS Spain SA, ATOS, Spain University of Vienna, Faculty of Computer Science, UNIVIE, Austria Unidata S.p.A., UNIDATA, Italy Sensing & Control System S.L., S&C, Spain Fraunhofer IOSB, IOSB, Germany Ubiwhere, Lda, UW, Portugal VIPnet, d.o.o, VIP, Croatia Instytut Chemii Bioorganicznej Polskiej Akademii Nauk, PSNC, Poland NA.VI.GO. SCARL, NAVIGO, Italy ATOS Wordline International, WLI, Spain

© Copyright 2016, the Members of the symbloTe Consortium

For more information on this document or the symbloTe project, please contact: Sergios Soursos, INTRACOM TELECOM, souse@intracom-telecom.com

Document Control

Title: Initial Dissemination Plans

Type: Public

Editor(s): Matteo Pardi (NXW)

E-mail: m.pardi@nextworks.it

Author(s): Matteo Pardi (NXW), Sofia Aivalioti (S&C), Michele Bertolacci (Navigo), Pavle Skocir (UNIZG-FER), George Papoutis (ICOM), Sergios Soursos (ICOM), Reinhard Herzog (IOSB), Margarida Campolargo (UW), Davide Monforte (UNIDATA), Marcin Plociennik (PSNC), Svenja Schröder (UNIVIE), Aleksandar Antonic (UNIZG-FER)

Doc ID: D7.1-InitialDisseminationPlans_FINAL_REVIEWED

Amendment History

Version	Date	Author	Description/Comments
v0.1	28/04/2016	Matteo Pardi, NXW	Table of Contents
v0.2	09/05/2016	Matteo Pardi, NXW	Changed ToC
v0,3	10/05/2016	Matteo Pardi, NXW	Added contributions (section 1, 2, 3.1, 4.3, 4.4, 4.5, 5.4, 6)
V0.4	24/05/2016	Sofia Aivalioti, S&C	Contribute to the sections related to the social media and the workshop
V0.5	01/06/2016	Michele Bertolacci, Navigo	Added some industrial events
V0.6	10/06/2016	Pavle Skocir, UNIZG-FER	Added contributions (section 3.2, 5.5), added section 5.6 to the template and one event
V0.7	6/6/2016	George Papoutsis, Sergios Soursos, ICOM	Web site section contribution
V0.8	14/06/2016	Reinhard Herzog, IOSB	Publication planning (section 4.6) and open source contribution (section 4.10)
V0.9	15/06/2016	Matteo Pardi, NXW	First integration of contributions
V1.0	16/06/2016	Margarida Campolargo, UW	Added some industrial events
V1.1	16/06/2016	Davide Monforte, UNIDATA	Added some industrial events
V1.2	16/06/2016	Sofia Aivalioti S&C	Liaison with target groups and Industrial events
V1.3	16/06/2016	Marcin Plociennik, PSNC	Added some industrial and academic events
V1.4	16/06/2016	Svenja Schröder, UNIVIE	Added some academic events
V1.5	16/06/2016	Aleksandar Antonic, UNIZG-FER	Added contributions for academic events
V1.6	24/06/2016	Matteo Pardi, NXW	First draft
V1.7	29/06/2016	Matteo Pardi, NXW	Second draft
V1.8	07/07/2016	Sofia Aivalioti, S&C	Review
V1.9	15/07/2016	Matteo Pardi, NXW	Final version

Legal Notices

The information in this document is subject to change without notice.

The Members of the symbloTe Consortium make no warranty of any kind with regard to this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The Members of the symbloTe Consortium shall not be held liable for errors contained herein or direct, indirect, special, incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Table of Contents

1	Exe	ecutive Summary	5
2	Intr	oduction	7
3	3.1 3.2	Internal communication Face-to-face and remote meetings 3.2.1 Conference calls	8 8 9 9
4	Ext 4.1	External Dissemination Strategy and Plan 4.1 Website	
		4.1.1 Homogeneous Design	11 12
		4.1.2 Structure 4.1.3 Features	13 16
		4.1.4 Analytics	16
		4.1.5 Updates	16
	4.2 4.3	Social Networks Newsletter	16 17
			17
		Communicating technical results	18
	4.6	Publications in conferences, workshops and journals	18
	4.7	Participation in events	20
		4.7.1 Academic events 4.7.2 Industrial events	20 21
	4.8	Workshop organization	23
		Open source contributions	24
	4.10	Liaisons with target groups	26
		4.10.1 Industrial community 4.10.2 Scientific community	26 26
		4.10.3 European commission	26
		4.10.4 IoT EPI	27
	<u>4</u> 11	4.10.5 Cluster Projects Open Calls – Specific dissemination campaigns	27 27
		2 Dissemination risks	28
5	Init	ial report on dissemination activities	30
	5.1	Website	30
		Video	32
	5.3 5.4	Social Networks Dissemination materials	36 37
	5.5	Publications	39
	5.6	Participation at events	40
		5.6.1 SymbloTe at IoT week in Belgrade5.6.2 SymbloTe at CityOS Brave New World Festival	40 42
6	Cor	nclusions and next steps	44
Re	efere	ences	45
7	Acr	ronyms	47
Appendix A		48 48	
	Athens plenary meeting Zagreb plenary meeting		

(This page is left blank intentionally.)

1 Executive Summary

The deliverable D7.1 – Initial Dissemination Plans describes the dissemination strategies that have been initially planned. The symbloTe dissemination activities target a large audience that spans from the academic to the industrial communities, and includes, also, the wider public through dedicated dissemination channels. Other relevant deliverables about dissemination will follow this one, such as the D7.2 - Report on first External Liaisons Workshop, which is closely related to the D7.1, resulting from the planned liaisons with other projects.

This deliverable will address the communication channels to advertise the project outcomes, providing a map of all the public dissemination material that is planned to be produced across the project lifetime. symbloTe's liaisons with stakeholders include both the industrial and the scientific community, and also the active participation in alliances such as the IoT EPI ([2]), and the strict collaboration with other projects in the IoT environment. External scientific and industrial dissemination of the symbloTe vision and concepts is of primary importance for the project consortium. To this objective, several tools have been considered to disseminate the project results; they include the organization of workshops and other technical events, publications in journals, magazines, and online technical periodicals.

The outcomes of the symbloTe project will be externally disseminated mainly through publications, presentations, white papers, and press releases, so dissemination targets are to reach over 15 peer-reviewed publications, complete 1-2 white papers and write at least 5 press releases. Partners intend to participate at prestigious international academic and industrial events, in order to reach large audiences of stakeholders, increasing the awareness and fostering the interest around the symbloTe project, expecting to present at least to 2-3 conferences and 1-2 fairs.

symbloTe's website will recollect and link the dissemination activities, to provide a unique information point; social networks, such as Twitter, can be used to quickly spread information on the project and announce news, activities and events, and help the collaboration both inside the consortium as well as provide visibility to a potentially high number of actors.

Dedicated tools, such as Confluence ([1]), have also been set up to facilitate the internal dissemination and collaboration among the partners in the consortium.

External dissemination will be carried out through publications in international conferences, magazines and journals, as well as participation in industrial events, scientific workshops and panels, organized by symbloTe alone or together with other research initiatives and projects. A workshop focused on IoT technologies and architectures, possibly co-located with a major conference or event, will be organized to present the project outcomes, exchange ideas and create synergies with other major players in the IoT community. Strong presence on the social networks and wide distribution of dissemination material like leaflets, newsletters and white papers will finally contribute to reach a larger audience and create awareness around challenges and potential of IoT solutions. Two Open Calls will be launched, having as target stakeholders like SMEs, providers and developers, in order to improve symbloTe visibility and giving the possibility to the project to be extended and enhanced.

This deliverable describes the strategies planned to ensure the widest possible impact of the symbloTe project outcomes in the most relevant communities, it is clear that it is essential to target the correct audiences, and so, to avoid poor dissemination towards relevant stakeholders, partners must ensure the circulation of clear messages, across all dissemination material.

This document is structured as follows:

- Section 1 is the executive summary;
- Section 2 is the introduction;
- a detailed description of symbloTe dissemination plan is provided in Sections 3 and 4, for internal and external dissemination respectively;
- initial dissemination actions, carried out in the first months of the project, are reported in Section 5;
- as final step, Section 6 reports conclusions and planned forthcoming actions;
- in the Appendix, the topics discussed in the first two plenary meetings are briefly discussed.

2 Introduction

WP7 Dissemination, Exploitation and Standardisation is in charge of coordinating the consortium activities dedicated to guarantee a wide impact of the project results in the most relevant research and industrial communities within and outside the consortium. This deliverable reports on dissemination, which is part of the more general WP7 tasks such as exploitation and standardization; therefore, three main types of activities have been planned, in this direction:

- Dissemination: the project will activate a variety of dissemination channels, from the
 website to publications in international conferences, magazines and journals, up to
 the participation in workshops and industrial events and the presence in social
 networks, to promote symbloTe scientific and technical outcomes to large
 communities in the academic and industrial arenas. Moreover, the project has
 setup tools to facilitate the collaboration among the different partners in the
 consortium and to encourage the internal dissemination.
- Exploitation: the project will define suitable exploitation plans, for individual partners or the consortium as a whole, for both industrial and scientific results.
- Standardization: the project has identified a set of relevant standardization bodies, mostly focused on the IoT field, which will be monitored to ensure the alignment of the symbloTe solution with the latest standards and to identify potential contributions to the ongoing standardization activities.

The aim of deliverable D7.1 is to create a concrete and workable plan for all dissemination actions of the symbloTe project.

3 Internal Dissemination Strategy and Plan

Internal dissemination is the dissemination of information, activities, results and work output produced in the framework of symbloTe between the project consortium members.

3.1 Internal communication

The main tool used for internal symbloTe communication is a team collaboration software called Confluence ([1]), a widely used platform with a long history as an enterprise wiki / content collaboration tool. The symbloTe Confluence platform is maintained by Intracom Telecom (ICOM) that owns the license, has installed the software on one of its machines and handles its daily management.

Confluence is a web-based team collaboration tool, accessible only with registered accounts, and it is widely used in the project to share and assemble ideas, project requirements and documentation in the consortium. The symbloTe team chose to organize Confluence contents following a per-work-package partitioning, with subsections related to deliverables and tasks, each of them indicating the corresponding leader and the work-plan, as a reference point for partners of the consortium about their work (Figure 1). Therefore, WPn named specific pages have been created, which in turn contain task and deliverable views, in order to split discussions and resources across topics. Other pages are: File List, IoT-EPI, Meeting notes, Plenaries, Reviews, Submitted Deliverables and Tech Overview.

This tool also allows users to handle version control of files and documents, and to comment and brainstorm directly on single web pages. Deliverable specific pages are therefore used in order to collect partner contributions for the documents, and also as a hub for ideas, proposals and notes in the comments dedicated space.

As mentioned before, Confluence contains sections with dissemination material (e.g. IoT-EPI section) and supports project management with conference calls and meetings schedules and minutes, too.

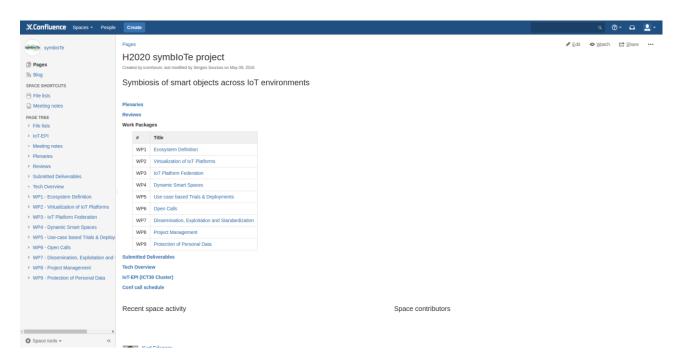


Figure 1 – a view of the symbloTe project Confluence page

Besides this, mailing lists have been set up for all the project participants (*symbiote-all*@ *lists.cs.univie.ac.at*) and for WP-specific recipients (e.g., *symbiote-wp1*@*lists.cs.univie.ac.at*, etc.) to enable the communication among project members.

3.2 Face-to-face and remote meetings

Conference calls are scheduled to take place weekly and plenary meetings are foreseen to take place about every 3 months (both plenary and WP-specific). The aim of both conference calls and meetings will be twofold: on one hand, they will improve the coordination among the different partners and, on the other hand they will help to follow the project evolution towards the achievement of the objectives. Ad-hoc task forces can be activated on specific activities when needed, as another tool to foster the collaboration and work on specific aspects arisen during the project development.

Within the first six months of the project, two plenary meetings were held. The first kick-off meeting was held in Athens, January 19-21, 2016 and the 2nd plenary meeting was held in Zagreb, April 20-22, 2016. In the meantime, a number of conference calls were organized by several partners and WP/Task leaders in order to discuss and coordinate ongoing activities (tasks, deliverables, plenary meetings, etc.).

3.2.1 Conference calls

Conference calls within the project are organized by following the specified procedure:

 Every WP/Task leader is free to schedule conference calls when required to address specific issues and discuss with the rest of the partners. The organizer should announce any conference call at least 3 days before the actual date of the call;

- 2) Doodle polls for coordination of conference calls should happen earlier than the 3-day deadline of 1);
- 3) A reminder of the conference call should be send to the respective mailing list on the previous date;
- 4) The regular slot is for everyone to use. However, conference calls can be scheduled for other dates (see 2));
- 5) By default, no conference call is scheduled for the regular slot. Anyone can use it as long as it announces it at least 3 days before (see 1);
- 6) Regular Project Management Committee (PMC) calls will be scheduled once a month, following the steps 1) 4) (no specific dates will be reserved for PMC calls). Urgent PMC calls can be scheduled on demand;
- 7) All conference calls should be registered in Confluence, under the page "Conference Call Scheduler", so as to keep track of them.

4 External Dissemination Strategy and Plan

External dissemination of the symbloTe concepts and outcomes is of primary importance for the project consortium. To this objective, several channels have been considered to disseminate the project's results; they include the realization of the project website (as detailed afterwards), the organization of workshops/symposia and other technical events, publications in journals, magazines, on-line technical periodicals and scientific conferences, technology transfer seminars, booths at major international events, presence in professional social networks, media and press.

The outcomes of the symbloTe project will be externally disseminated also through publications, presentations, white papers, and press releases. Prestigious international journals and magazines will be considered for publications. Moreover, the symbloTe partners will submit papers based on architectural outcomes and simulation or experimental results to relevant conferences. Workshops and demo sessions will be organized, possibly co-located with other European and international conferences (e.g. the IoT Week). The possibility to organize joint workshops in cooperation with other European projects focusing on similar or complementary technical areas will be a priority in the project dissemination plans.

Particularly relevant to foster synergies with other projects is the symbloTe presence in the IoT-EPI group ([2]), The European Platforms Initiative federating the new H2020 programs regarding IoT platform development (see 4.10.4). SymbloTe project also aims at attracting SMEs, companies and research groups, through the launch of specific Open Calls (see 4.11); this will provide the opportunity for application developers, IoT platform providers, gateway manufacturers and cloud operators to collaborate with the consortium, in order to provide extensions of the symbloTe system.

The project website will recollect and link the dissemination activities, to provide a unique information point. Twitter will be used to quickly spread information on the project and announce news, activities and events, and help the collaboration inside the consortium as well as provide visibility to a potentially high number of stakeholders. Videos and infographics will be released in the YouTube channel of the project ([3]).

Detailed plans for the different dissemination channels planned in symbloTe are reported in the following sections.

4.1 Website

The symbloTe consortium is committed to use information and communication technology in disseminating information to the public, taking advantage of the Internet's ability to host a massive repository of dynamic information to be made available to everyone anywhere at any time. In order to achieve a successful dissemination strategy, the symbloTe consortium decided to develop a public accessible web site.

The symbloTe website ([4]) is the main dissemination tool. It was launched in January 2016 and apart from the basic information related to the symbloTe project, visitors can be informed about all the latest news, technical news and events. Additionally, it provides relevant information in an efficient and effective manner, with a homogeneous structure and design, followed and enriched by a well-documented content.

4.1.1 Homogeneous Design

The web site retains the same look and feel in all web pages during user's navigation. In detail, each web page is divided into four sections that are structured in the same manner through all pages. These sections are:

- a) the upper section called "header" which includes static content like social media buttons and menu navigation bars;
- b) the main content section which is the area that it displays dynamically generated content and is located under the header:
- c) the right sidebar in which are provided small snippets of news content as well as twitter feed news and is located next to main content:
- d) the footer section in which also provided symbloTe link connections with other channels like IoT-EPI and European union.

The header and footer sections provide links to the other symbloTe dissemination channels, listed below:

- Twitter ([5]);
- YouTube ([3]);
- SlideShare ([6]);
- GitHub ([7]).

In this way, several target groups can reach symbloTe's channels and can have a look at symbloTe's environment (Figure 2).



Figure 2 – symbloTe website home page

4.1.2 Structure

The symbloTe web site structure consists in some main web pages categorized by a conceptual and hierarchical manner, in order to provide to the user, the most effective result.

All the web site pages can easily be viewed from the main website navigation menu, which includes the following main pages: The Project, Business Cases, Resources, News, Tech Blog, Partners, Open Calls and Contact Us.

The Project: This is the home page (Figure 2) of the web site and its purpose is to provide to the visitor a quick overview regarding the symbloTe vision, target groups, latest news, social presence, social activity and symbloTe consortium contact points.

It must be mentioned that this page is leveraged in the upper section layer by the embedded symbloTe YouTube ([8]) promotional video. Moreover, this page includes a special section located to the right side of the web site in which the visitor can see and

follow the latest twits relative to symbloTe project with which can easily interact. Submenu items include the *Detailed Overview*, the *Objectives* and *Work Package Structure* of the project.

Business Cases: Under this menu item the visitor can explore the five symbloTe business cases: *Smart Residence, Edu Campus, Smart Stadium, Smart Mobility and Ecological Urban Routing* and *Smart Yachting*. For each business case, a brief text description is provided, accompanied by a descriptive image (Figure 3).

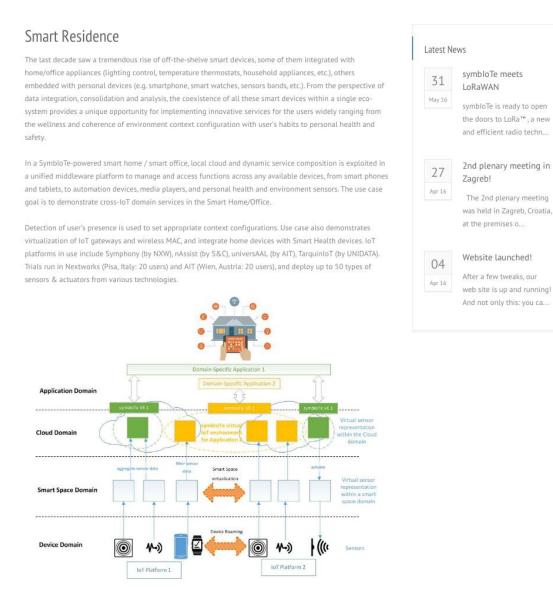


Figure 3 - Smart Residence use case web page

Resources: Under this menu item, all the public resources that enforce the symbloTe dissemination are provided. The different categories of public resources include *Deliverables*, *Publications* and *Outreach Material*. The first category will be updated with the public deliverables of the project as soon as they are submitted to the EC, the second category includes the gold and green access papers, and the third category includes any other public dissemination material, like factsheets, leaflets, newsletters, etc.

News: This section contains all the news posted from the symbloTe partners (Figure 4). Articles are automatically re-tweeted by the symbloTe twitter account (see 4.1.3)

Tech Blog: This section hosts technical articles that will capture the progress of the project, including insights on the architecture of the symbloTe middleware, the implemented components and the available APIs, as well as examples on how to use them, and any other similar information which will be useful for researchers outside the symbloTe consortium to understand the details of the proposed solutions and use the project's outcomes.

It is worth mentioning that each article, news post or technical blog entry, can be easily shared to Twitter or LinkedIn social networks through the respective buttons that appear under the article's title. In this way, the symbloTe website allows readers to instantly share interesting contents through their own social media channels.

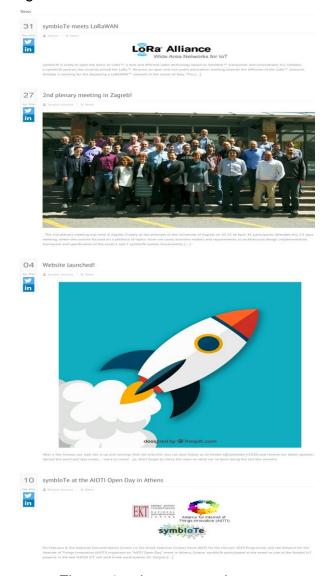


Figure 4 – the news web page

Partners: This menu item includes two subsections: the *Consortium* page and the *Team* page. By accessing the *Consortium* page, a visitor can be informed of the project

participants. Information like institution description, website links and logos are provided and can be easily found either by the map or through participants' list.

By accessing the *Team* page, the visitor can find personal contact information about all the individual participants. Contact information like e-mail address, LinkedIn profile, Research Gate profile, GitHub account, Skype ID and other contact details are provided by a simple and interactive design.

Open Calls: This web page will host information regarding open call schedule, procedures and general information. Additionally, the page will provide the proper web forms to register and upload open calls documents and information.

Contact Us: In this page, the visitor can contact to symbloTe consortium by filling the respective contact form.

4.1.3 Features

The symbloTe web site is based on the popular *WordPress* open source content management system. A number of features, either inherently supported by WordPress or added by the site designed, are active on the web site.

- a) *Multiple accounts* and article writing, editing, posting and updating: this is an inherent feature which allows all symbloTe partners to create and post news and technical blog entries.
- b) Automatic posting to Twitter: as already mentioned, news posts can be automatically posted to Twitter when published. This feature is enabled by default, but authors are allowed to easily disable it for specific news posts, if needed.

4.1.4 Analytics

In order to assess how well the website is reaching visitors and acting as a source of information, standard web traffic analysis tools (provided by Google) are used to track the number of visitors and relative metrics during website lifetime.

4.1.5 Updates

The content of the website will be continuously updated throughout the course of the project, and thus act as a dynamic and up-to date source of information for the visitors. Even the static pages will be updated to capture the progress of the respective work packages and tasks.

4.2 Social Networks

The chosen channel for social media dissemination is Twitter ([5]) which will be continuously updated with project news, activities and IoT related news. It represents a dissemination tool that will be exploited until the end of the project in order to widely spread information about symbloTe.

A good result for social media dissemination is to get more than 50 followers of the Twitter page.

4.3 Newsletter

The symbloTe project will issue a newsletter, in order to periodically report updated results, based on the project roadmap. This must show what has been done until then, results achieved and won challenges.

There will be 3 publications of the newsletter, which will match main project milestones; these will focus on three different phases of the project:

- Scientific Orientation: newsletter will describe the basic principles of symbloTe, showing the decisions made during the first phase of the design process.
- Design and Implementation: this is a more technical focused phase, leading through the software actual implementation
- Deployment: the final phase will be mostly dedicated to the deployment of the use cases.

The symbloTe newsletter targets are the IoT community, vendors and service providers, with a distribution list of about 50 people and reaching at least 50 downloads from the website.

4.4 Dissemination material

The dissemination activities will be steered towards generating impact through targeted publications, presentations, talks, demonstrations, panels, workshops, and events.

The objectives of symbloTe communication and dissemination activities are:

- To raise and foster awareness of the symbloTe project vision, concept, objectives, and results among the various stakeholders (R&D community, market players, and the general public).
- To establish synergy links with other related projects, in particular within the IoT programme, with the aim of promoting a coherent overall IoT architecture and developing consistent technology building blocks.

The symbloTe project comes with its own Logo, which shows the name of the project in the front, with a set of colored network nodes in the background, that represents the interconnected IoT things (Figure 5); it will be also created a promotional poster (see 5.4) and a video, in harmony with the participation in the IoT-EPI consortium (see 5.2, in order to describe the symbloTe concepts and vision. A factsheet will also be prepared for project presentation inside this group (see 5.4).

Both the poster, the video and the factsheet will be made available to download from the website.



Figure 5 – The symbloTe Logo

4.5 Communicating technical results

Below is shown a list of the planned dissemination of symbloTe outcomes, in terms of press releases and whitepapers. The intent is to draw up 5 press releases and 2 whitepapers.

Press releases	- 1 st at project start
	- 2 nd issued with Open Call #1
	- 3 rd by mid-2017 – summary on architecture design & available implementations
	- 4 th issued with Open Call #2
	 5th at project end – promotion of all project results (incl. standardization)
Whitepapers	1st at M18 – Architecture and middleware
	- 2 nd at M36 – Trials, use-cases, interoperation of IoTs

Table 1 - planned press releases and whitepapers

4.6 Publications in conferences, workshops and journals

A major asset for the dissemination of the symbloTe project will be the scientific results presented in publications, conferences, workshops and journals. The work plan for symbloTe distinguishes between three different phases, with different focus areas for the dissemination:

• 1st Phase Scientific Orientation: publications will be mostly focused on research oriented topics, describing the basic principles of symbloTe;

- 2nd Phase Design and Implementation: in this more technical focused phase of symbloTe, publications will need to address the technical community and early adopters of the symbloTe software results. The purpose is to engage external developers to contribute and participate in the open source developments;
- 3rd Phase Deployment: The final phase of symbloTe is dedicated to the actual deployment of the use cases. The accompanying publications will have to address the perspectives and the different stakeholders of a symbloTe deployment.

Access to the published articles will follow a combination of the 'gold' and 'green' open access models. Open access publishing will be primarily selected for the scientific publications and conference proceedings that will result from the project. Nevertheless, for publications targeted to major journals and magazines with high impact factors and wide audiences stricter access policies could be applied in line with the publishing houses' guidelines. For such cases, delayed self-archiving will be adopted, either at the project's website, or at partners' institutional websites or even in Open Access online repositories, like OpenAIRE ([9]).

Some academic venues are especially suitable for symbloTe's publications, because on the one hand target IoT, sensor and networking-related topics and on the other hand attract experts from industry, such as listed in the following:

- IEEE ICC, GLOBECOM, INFOCOM: flagship conferences on all communicationrelated topics (i.e. wireless communications, IoT management, interdisciplinary aspect, and fundamentals);
- IEEE ISSNIP, IEEE SENSORS, RIoT, IEEE FiCloud: conferences focusing on sensors, sensors networks, advances in IoT and cloud computing;
- IEEE PIMRC, IEEE WoWMoM, WiOpt: conferences dedicated to wireless communication (i.e. personal indoor, multimedia, and modelling/optimization)
- ACM CoNEXT, SIGCOMM: Highly-selective flagship conferences for network (services) and related research fields.

In parallel, the following high-profile journals will be considered:

- IEEE Internet of Things Journal (IoT-J): Internet of Things;
- Elsevier Computer Networks, IEEE/ACM Transactions on Networking: networks and Internet;
- IEEE Transactions on Wireless Communications, ACM Transactions on Sensor networks and Elsevier Ad-Hoc journals: fundamental results on wireless networks;
- IEEE Communication Letters and IEEE Wireless Communications Letters: fast dissemination of accurate scientific results.

Apart from that, the results of symbloTe cover a broad range of scientific and applicative domains. We will, thus, consider publications in magazines targeting multidisciplinary articles, including:

- IEEE Communications Magazine
- IEEE Wireless Communications Magazine
- Communications of the ACM

To measure the dissemination success, the following minimum numbers of publications are expected:

- Academic and industrial publications to create awareness and promote the project achievements and to provide input to IoT standardization bodies:
 - over 15 peer-reviewed publications,
 - 1-2 white papers,
 - over 5 press releases
- Workshops to receive feedback about the technical and commercial feasibility of the proposed solution:
 - 1-2 workshops,
 - over 5 meetings with researchers and stakeholders

4.7 Participation in events

The following list is a set of academic and industrial events, which symbloTe's partners foresee to attend and address. The effective participation at these events depends on many factors that could not be all know a priori (i.e. acceptance of submitted articles/papers, deadlines, etc.); so this chapter shouldn't be considered as a list of what will be absolutely done, but mostly as what symbloTe partners intend to do.

4.7.1 Academic events

Targeted Event	Expected Impact and Audience Size	Participant
IEEE International Conference on Communications,	A premier conference for the networking and communication community.	UNIZG-FER
May 21-25 2017, Paris, France	Impact: HIGH Audience size: 2,000	
International Conference on the Internet of Things,	A series of conferences focused on the original, high impact research papers on	UNIZG-FER
November 7–9 2016, Stuttgart, Germany	all topics related to the Internet of Things.	
	Impact: HIGH	
	Audience size: 150	
IEEE World Forum on Internet of Things,	An IoT conference sponsored by nine IEEE Societies that are directly involved	UNIZG-FER
December 12-14 2016, Reston,	in the research in the IoT domain	
Virginia, USA	Impact: HIGH	
	Audience size: 300	
ACM International Conference on Distributed and Event-	A premier conference in the fields of	UNIZG-FER

Pacad Systems	distributed and event-based systems	
Based Systems,	•	
June/July 2017 (location not yet	Impact: MEDIUM	
defined)	Audience size: 70	
International Conference on Telecommunications,	industrial communities to share solutions	UNIZG-FER
June/July 2017, Zagreb, Croatia	and discuss issues in information and communication technology.	
	Impact: MEDIUM	
	Audience size: 70	
Open Living Lab Days,	A series of training sessions and	PSNC
23-26 August 2016, Montreal, Canada	practical workshops on cutting edge living lab and open innovation methods and techniques with special focus on the IT domain.	
IoT Living Lab sessions,	Workshops organized to engage	PSNC
August 2017 - May 2018, Poznan, Poland	symbloTe users, co-create platform application ideas and validate functionalities	
Conference of Telecommunication, Media and Internet Techno-Economics (CTTE),	Publishing results from the symbloTe bartering and trading model	PSNC
November 2017, Europe		
TBC	Submitting trading and bartering mechanisms between IoT islands	UNIVIE
	Impact: HIGH	
	Audience size: over 2.000	
IFIP Networking Conference 2017	Making for instance a contribution about symbloTe's security architecture	UNIVIE
TBC	Impact: HIGH	
	Audience size: 120	

Table 2 – List of planned academic events

4.7.2 Industrial events

Targeted Event	Expected Impact and Audience Size	Participant
SEATEC and YARE 2017 / 2018 ([10]),	It is an exclusive event in Italy and one of the few international events dedicated	Navigo

March 2017/2018, Carrara, Italy Yachting Festival Cannes	to the Superyacht sector attracting experts, suppliers, end users from all over the world. Impact: HIGH It is Europe's leading in-water boating	Navigo
([11]), September 2017, Cannes, France	event. The major players in pleasure yachting come here to launch the show season by showcasing their new worldwide models. Impact: MEDIUM	0
METS ([12]), November 2017, Amsterdam, Netherlands	It is the only international B2B exhibition for the marine leisure industry. Impact: HIGH	Navigo
Monaco Yacht Show ([13]), September 2018, the Principality of Monaco	It is the world leading event for luxury yachting stakeholders (companies, superyacht builders, yacht designers, luxury manufacturers, etc.) Impact: HIGH	Navigo
IoT Solutions World Congress ([14]), October 2016, Barcelona, Spain	It is the leading global event for industrial IoT. Impact: HIGH Audience size: over 8,000	Ubiwhere, S&C, Atos
Internet of Things World Europe ([15]), November 2016, Dublin, Ireland	Europe's largest and most comprehensive IoT event, focusing on commercial and business opportunities. Impact: HIGH	Ubiwhere, S&C
Smart City Expo World Congress ([16]), November 2016, Barcelona, Spain	A referential global event to support the development of smart cities. It's a summit of discussion about the link between urban spaces and technological solutions. Impact: MEDIUM Audience size: over 14,000	Ubiwhere, S&C
Mobile World Congress ([17]), February 2017, Barcelona, Spain	It is the world's largest gathering for the mobile industry. Impact: HIGH	Ubiwhere, S&C

	Audience size: over 100,000	
CeBIT ([18]), March 2017, Hannover, Germany	It is the largest and most internationally represented computer expo.	TBC
Maron 2017, Harmover, Commany	Impact: HIGH	
Hannover Messe Industrie ([19]),	It is the world's leading trade fair for industrial technology.	TBC
April 2017, Hannover, Germany	Impact: HIGH	
Internet of Things European Summit, ([20]) TBC	It is the leading event of its kind by focusing on the current developments driving the industry.	TBC
	Impact: HIGH	
Intertraffic ([21]),	The world's leading trade event for	Ubiwhere,
March 2018, Amsterdam, Netherlands	infrastructure, traffic management, smart mobility, safety and parking.	S&C
	Impact: MEDIUM	
	Audience size: over 30,000	
Maker Faire ([22]),	A faire where there will be many	Unidata
October 14-16 2016, Rome, Italy	industries from sectors like smart home, automotive, energy, etc.	
	Impact: HIGH	
	Audience size: over 70'000	
Securex / SAWO,	International fair on security systems	PSNC
April 2018, Poznan, Poland	and installations	
PolEcoSystem / Gmina,	International fair on communal systems	PSNC
October 2017, Poznan, Poland	and services	
· · · · · · · · · · · · · · · · · · ·		

Table 3 – List of planned industrial events

4.8 Workshop organization

To reinforce the interest of the research community in the topics which symbloTe addresses, symbloTe will organise and co-organise workshops together with the participation of researchers, cluster projects and stakeholders in well-recognised conferences and events, like Net Futures and IoT Forum's IoT Week. The main purpose for it will be to receive feedback about the technical and commercial feasibility of the proposed solution.

The symbloTe specific target is to organise two workshops with the participation of sister projects/initiatives and stakeholders: one in the first year, to receive the first inputs regarding the business models and promote the project and its preliminary results; the other on M30, to promote the whole symbloTe achievements and ensure the sustainability and exploitation of the project results.

The 1st workshop will be named "2nd Workshop on Interoperability and Open-Source Solutions for the Internet of Things", it is co-located with the "6th International Conference on the Internet of Things (IoT 2016)", on November 2016, in Stuttgart, Germany. The workshop will be organized by two H2020 projects, symbloTe and BIG IoT ([39]), which are both part of the IoT-EPI ([2]).

The main objective of this workshop is to exchange experiences and ideas with the IoT community as well as contribute to build new knowledge around open issues and gaps on Internet of Things interoperability, architectural principles and standardization efforts. It will showcase practical experiences on interoperable IoT solutions and promote open-source solutions.

This will be a full day length workshop, and it targets to an expected audience of 30-40 participants.

4.9 Open source contributions

One of the main results of the symbloTe project will be the software produced as foreground intellectual property of the consortium. It is an objective to publish symbloTe APIs and middleware components as open source by using "business-friendly" licensing, which facilitates open software and triggers the commercial and innovative diffusion on top of the symbloTe interoperability framework.

In the current phase of the project, the open source strategy to not yet fully defined. However, the following questions are in the focus:

 What do we want to archive by facilitating the Open Source Software (OSS) model?

The main goal is to provide helpful software to trigger new commercial projects and to boost innovation within European IoT-Community. The symbloTe software results will be made available in a business friendly way, in order to enable reuse without any restricting barriers.

A second goal is to invite the OOS community to contribute to the symbloTe software. symbloTe will provide concepts and solutions to connect different IoT-middleware products. However, there are many more products in the IoT-domain than the symbloTe consortium is able to support. It's therefore essential to attract external contributors to adopt symbloTe to their own products and to share their work.

How is the ownership of contributions to symbloTe arranged?

Even when software is available to be used freely, it is still owned by someone. In most cases, the author of the software is also the owner and the maintainer of the software. This will also be the case for the symbloTe software.

What are we willing to share?

The symbloTe architecture is in development, so this question cannot be fully answered at this stage of the project. For each asset, there is a tradeoff between "invite adopters/customers to use" and to "protect intellectual property". This is tied closely to the license model that is used, since what contributors are willing to share depends on the conditions under which the contributions are shared. License models are discussed later.

 What user expectations do we want to serve? Do we provide "proof-of-concept"code or "production-ready"-code?

When adopting OOS there is always an uncertainty about the quality of the software. While customers like to see high quality code, new software for innovative and complex solutions within research projects very often tends to have restricted scopes and only limited quality control. Because this is an unavoidable contradiction, it is very important to be transparent to the community about the code quality. The OOS community shall always be able to evaluate the symbloTe software and it is important to be very transparent to the potential adopters to get an unbiased assessment. If the trust is lost, failure is certain.

 What about long-term sustainability? Do we plan to do this ourselves or do we expect the OSS-community to adopt the software and maintain it in the future?

Many OOS developing groups tried to install a foundation as a business model in order to provide a long-term sustainability. Only a few have been successful. A more robust way to archive sustainability is to make sure every contributor and therefore owner of symbloTe software has a solid interest in maintaining his contribution. This can be archived when the software contributions are in-line with the individual business cases.

Which license model is the most appropriate?

The main Issue in Open Source Licensing is the question about copyleft vs non-copyleft (permissive): "copyleft" licenses are licenses that require redistributed copies and derivative works to be under the same license. In other words, you're free to use the code for any purpose, and to share and modify it, but any resultant works you distribute must be distributed under the same license. The best-known copyleft licenses are:

- the GNU General Public License (GPL)
- the GNU Lesser General Public License (LGPL)
- the GNU Affero General Public License (AGPL)
- the European Union Public License (EUPL)

A "non-copyleft" license is simply one that permits the code to be incorporated in a program that is, overall, distributed under some other license – even a proprietary, closed-source one. Non-copyleft licenses are thus sometimes called "permissive" licenses. Some examples of popular non-copyleft licenses are:

- the MIT license
- the BSD license (or license family)
- the Apache License 2.0 from the Apache Software Foundation

Some copyleft licenses allow the covered software to be used bundled "as a library" in software that itself is not covered by that license. Examples of this are LGPL and EUPL.

With a non-copyleft license, anyone can take symbloTe code, improve it and not give back those improvements. With a copyleft license, when someone changes symbloTe code, they have to contribute those changes back.

The symbloTe team is still discussing about the license to choose: the debate so far is converging to the Apache License 2.0.

4.10 Liaisons with target groups

4.10.1 Industrial community

The symbloTe project results will be disseminated to technology providers and manufacturers of software, and hardware enabling information exchanged between the industrial community and the end users. Additionally, application developers and entrepreneurs may leverage symbloTe results with the development of new added-value services. Through the industrial community symbloTe will be able to gain knowledge about user preferences, market needs and opportunities and therefore adapt the exploitation plan and increase the business potential. The main exposure and interaction of symbloTe partners will be through participation in IoT Expos and other industrial events. Minimum target: 1-2 fairs, over 5.000 visitors, over 20 contacts

4.10.2 Scientific community

Scientific dissemination among the academic world is a key target of the symbloTe project dissemination. For this purpose, scientific articles will be published in international journals with a high impact factor (see 4.6). The participation in scientific conferences and other dissemination events that target scientific communities related to IoT topics and specific issues, are other relevant activities.

4.10.3 European commission

The symbloTe consortium will continually inform the project officer and EC about interesting results, news and events concerning the project. Demonstrate what has been achieved through this European collaboration and highlight the scientific excellence and contribution to technological challenges and innovation. This can be achieved through specific available channels:

- Articles (minimum target: 1 article per year):
 - Horizon Magazine ([23])
 - Project stories ([24])
 - Research*eu results magazine ([25])
 - Research*eu focus ([26])
 - Newsletters ([27])
 - CORDIS Wire ([28])
 - Co-publications or editorial partnerships
- Audio-visual material (minimum target: 1 video):
 - Futuris Magazine ([29])
- Disseminating symbloTe events:
 - Events on the Commission's Research & Innovation website ([30])
 - Events on the CORDIS website ([31])

Also symbloTe plans to use the several freely accessible tools and networks such as the IoT European Research Cluster ([32]) and the IoT Open Platforms ([33]) and consult the available guide for Communicating EU Research & Innovation ([34]).

4.10.4 IoT EPI

The IoT European Platforms Initiative (IoT-EPI, [2]) was formed to build a sustainable IoT-ecosystem in Europe, maximizing the opportunities for platform development, interoperability and information sharing. In the context of seven Research and Innovation Activities (including symbloTe) 3rd parties will gain access to innovative IoT-platform technologies. IoT EPI works in close collaboration with all 7 projects and coordinates the actions for common dissemination activities. IoT EPI uses its own communication external channels (website, twitter, LinkedIn and YouTube) to inform all interested 3rd parties about the development and progress of the 7 projects. IoT EPI will create a common dissemination calendar in order to align projects' participation in events and will also facilitate dissemination procedures for the Open Calls. Since the very beginning IoT EPI have taken a strong coordinating role for ensuring common goals and actions.

For internal communication IoT EPI has established a communication group which is comprised by all projects dissemination leaders. The communication group has regular conference calls in order to plan common participation in important IoT events. There is also an online platform called eRooms provided by SINTEF for sharing all common documents.

4.10.5 Cluster Projects

The symbloTe project will collaborate closely with the cluster projects that resulted from the same call for proposals and started in January of 2016. The aim of symbloTe is to participate to events and meetings, co-organize workshops and other activities.

The cluster projects are presented in the following list:

- Inter IOT ([35])
- TagltSmart ([36])
- Vicinity ([37])
- Agile ([38])
- BIG IoT ([39])
- bloTope ([40])

Specific target: Collaboration with 3 relevant H2020 projects and initiatives

4.11 Open Calls – Specific dissemination campaigns

The dissemination activities will foresee a special focus on Open Calls. In order to get the widest audience and to reach targeted applicants, a special dissemination campaign has been planned.

The reason to launch specific dissemination campaigns related to Open Calls lies in the opportunity to create awareness and interest in the community of IoT sector's companies and research centres potentially eligible for applications. SymbloTe aims at awarding brilliant SMEs, companies and research groups that can collaborate with symbloTe consortium in order to provide extensions of the system. We are aware that

communication and dissemination are the keys for stimulating involvement and attracting the most interesting applications.

The targeted applicants for symbloTe extension are companies, SMEs and Research Groups, which are key players in the IoT domain and specifically: application developers, IoT platform providers, gateway manufacturers and cloud operators.

The launch of the official announcements and related documentation are planned to happen at M11 (end of November 2016) for the first call and at M22 (end of October 2017). From the publication of the official announcement to the deadlines, applicants will have a period of two months for sending the proposals. This time constraint requires at least a pre-announcement period in which potential applicants can acquire information and get more familiar with symbloTe focus and objectives.

The information campaigns (pre-announcement) will pave the way to more focused proposal according to specific needs and requirements of symbloTe project.

The pre-announcements actually will consist in the dissemination of high-level messages on expected proposal scopes, according to the different compliance levels required by symbloTe project for integration of extensions.

According to the Open Calls implementation plan, the information campaigns should start at least one month before (i.e. October 2016 and September 2017) the launch of the official announcements and will be organized as follows:

Exploitation of all the existing communication channels already established and running as above described. In addition to Press releases abovementioned, a specific page of the web site will be dedicated to Open Calls information and announcements;

Involvement of each symbloTe partner in disseminating pre-announcement information by deploying its own professional/scientific network;

Exploitation of synergies established through IoT-EPI Task Force Innovation for disseminating announcements on EU institutional web sites and networks.

The information campaigns and their key messages will be organized in strict synergy with WP6 – Open calls.

4.12 Dissemination risks

The overall dissemination objective of symbloTe is to contribute to knowledge generation and innovation within the IoT domain. The specific goal of the dissemination activities is to communicate the results, examples and technical solutions, from the project to different audiences and stakeholders. However, there are some specific risks to consider:

- The project is heavily dependent on a successful timing of demonstration objects and input provided by project partners. This stresses the need for structured internal communication and clarity, with regards to the responsibilities and tasks of all involved project partners.
- The partners need to make sure they disseminate the project outcomes on frequent and timely manner to a wide audience, but increasing workload and priorities within the project can affect the quality of dissemination.

- In external communication, it can be challenging creating the right impact at each specific target group, as the project addresses a wide variety of audiences in a number of different countries. This particularity gives rise to an additional difficulty in providing efficient distribution of information and ensuring proper impact of communication initiatives, implying to work closely with all partners.
- To avoid poor dissemination towards relevant stakeholders, must result in ensuring the circulation of clear messages, across all dissemination material. To use a wide range of tools to disseminate the project results in an effective way (i.e. project website, newsletters, press releases, etc.)
- To target the correct audiences; this refers in knowing audience's interests and building the message according to the audience itself.

5 Initial report on dissemination activities

5.1 Website

The symbloTe website embeds Google Analytics to gain insights on website usage and accessibility. The timeframe reported in this section concerns the period from April 1, 2016 until June 7, 2016. More specifically, this section gives an overview of the total 1,268 web page viewing sessions. During the aforementioned period, out of the 725 visitors, 56.3% were unique visitors (Figure 6); in Figure 7 it is shown that most users landed on the homepage with a percentage of 78.25%.

Time spent on website: During the aforementioned period of time visitors spent an average of 3 minutes 21 seconds browsing on the website (Figure 6).

Bounce Rate: The bounce rate for the website is 50.55%. This is the percentage of visitors that came to the page and left without taking further action on the page (Figure 6).



Figure 6 - Overview of sessions (monthly observation)

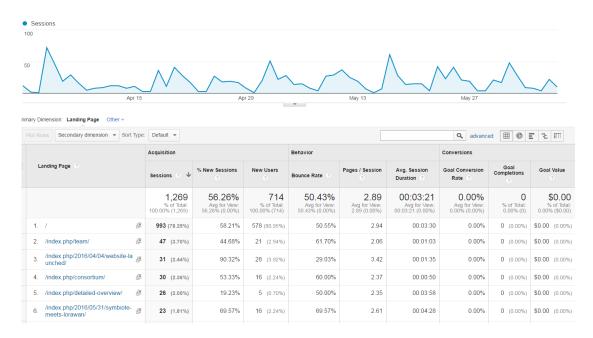


Figure 7 - Landing page statistics

Geographical distribution: The geographical distribution of users primarily stems from Croatia (24.19%), followed by Greece (18,52%) and Italy (13.87%) (Figure 8).

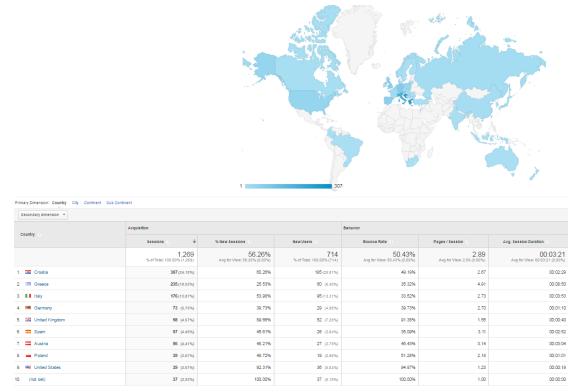


Figure 8 - Geographical distribution of website visitors (top 10 locations)

User acquisition: This metric indicates the traffic source to the symbloTe website. In a total of 1.270 sessions, as observed in , the largest number of users stem from Google organic search (393), followed by direct traffic (385) and referrals (336), with only a small percentage to have been driven to the website through social media (156).

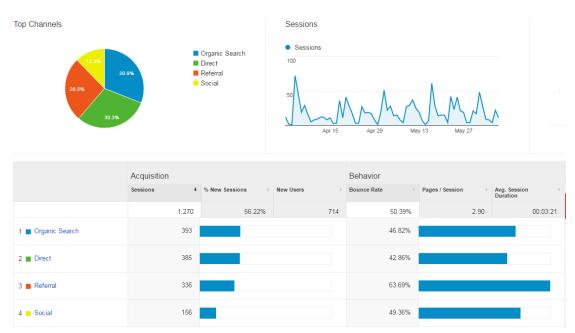


Figure 9 - User Acquisition overview

Number of pages visited: This metric outlines the webpages visited, listed by their URI, i.e., the portion of a page's URL following the domain name. The most visited page was the homepage of the project with 1,459 pageviews, followed by the *Team* page with 422 pageviews and the project's *Detailed Overview* with 278 pageviews (Figure 10).

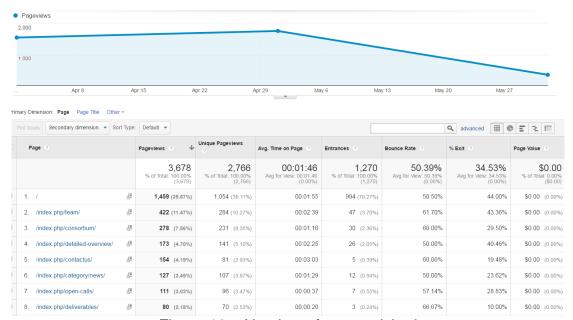


Figure 10 – Number of pages visited

5.2 Video

The symbloTe consortium, in collaboration with the IoT-EPI coordinators, decided to create a promotional video with the symbloTe concepts and vision. The discussions between the project partners led to the decisions that the video should

- be simple and direct,
- visualize the vision of the project in a simple language,
- avoid getting into technical details so that the main message is clear for nontechnical viewers,
- not be too long; one minute or so would be enough,
- avoid using real-life images since it would make the video too "heavy", but
- instead, use cartoon-like graphics.

The idea of the video script stemmed from the storylines of the use cases that the project was working on at that time. After a couple of ideas, the following script was promoted as the most appropriate one:

We live in a smart connected world!

Show many smart devices (cameras, light sensors, smart plugs, smart light bulbs, smartwatches, smartphones, etc.), each one in different color (same devices in different colors denote different brands/vendors)

... where you can interact with smart environments with a simple touch on your smartphone!

A girl using her smartphone to interact with a smart environment (e.g. smart home) is showed. The smartphone and the smart device (of the smart home) have the same color (they are both red, indicating they belong to the same system)

... using purpose-specific mobile applications!

Zooming into the smartphone, showing dummy mobile app with the same color (red) used in the previous scene.

But changing smart environments requires using different apps!

Showing the previous scene with the girl, where the smartphone and the smart device are red. Then scene switches, showing the girl with her smartphone on her bicycle. The color of the smartphone changes and so a smart device on a lamppost by the road, to green. Scene changes again: now the girl is at her university; her smartphone is now blue and so is the smart panel and her university's wall.

Imagine now a world where your digital presence adapts to the smart environment you visit!

Quickly replay of the previous scenes, but in this version smartphone has multiple colors (like a rainbow), while the rest of smart devices change color (red, green, blue).

What if you can use the same mobile app to interact with different IoT platforms?

Quickly showing the following scenes (each time the smartphone is colorful-rainbow, while the smart environment has only one color): the girl is at her university, then she's riding her bicycle, then she's going to the stadium, then she's visiting her boyfriend at another university.

What if you can develop cross-domain applications for third-party IoT platforms?

A guy typing in front of a pc is showed. The 'software code' on the PC screen can be colorful. The code leaves the PC and "flies into" a grey smartphone. When the code enters

the smartphone, it turns from grey to colorful.

What if your platform can interact with nearby IoT platforms?

Showing a house with several sensors (some green, some blue) and two gateways (one green, one blue). One blue sensor sends a blue message to the blue gateway. The blue gateway sends the blue message to the green gateway. The message turns from blue to green and is sent to a green smart light bulb which then lights up.

Welcome to the symbloTe world!

Show symbloTe logo, H2020 logo and IoT-EPI logo

Show symbloTe URL and twitter below

After providing the above script to the video producers and fine-tuning certain details on the produced draft video, the final video was published to the symbloTe YouTube channel ([8]) and embedded into the start page of the symbloTe website.

Since its publication (May 10, 2016), the video has been viewed 187 times and viewers originated from 16 different countries (mainly European ones). More details on the viewing analytics of the promotional video can be seen in the following figures.

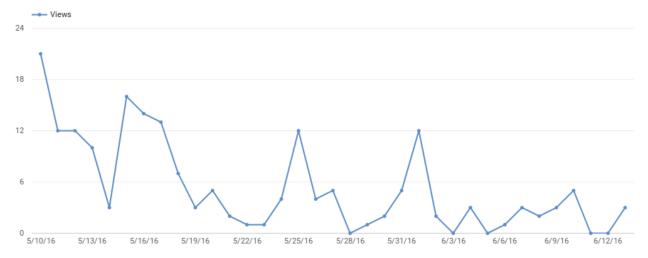


Figure 11 – Views of symbloTe promotional video (daily view).

Geography	Watch time (minutes) $ \emptyset ullet$	Views ?	Average view duration	Average percentage (2) viewed
Italy	58 (35%)	59 (32%)	0:59	72%
Croatia	26 (16%)	26 (14%)	1:00	72%
Greece	22 (13%)	34 (18%)	0:39	47%
Spain	14 (8.5%)	14 (7.5%)	1:01	74%
Austria	11 (6.5%)	10 (5.3%)	1:05	79%
Germany	9 (5.5%)	10 (5.3%)	0:55	66%
United Kingdom	6 (3.3%)	4 (2.1%)	1:22	100%
Poland	5 (3.2%)	8 (4.3%)	0:40	49%
Serbia	4 (2.6%)	4 (2.1%)	1:06	81%
Belgium	3 (1.9%)	6 (3.2%)	0:31	38%
United States	3 (1.7%)	4 (2.1%)	0:42	51%
Norway	1 (0.8%)	1 (0.5%)	1:22	99%

Figure 12 – Geographical distribution of viewers with watch minutes and average view duration.

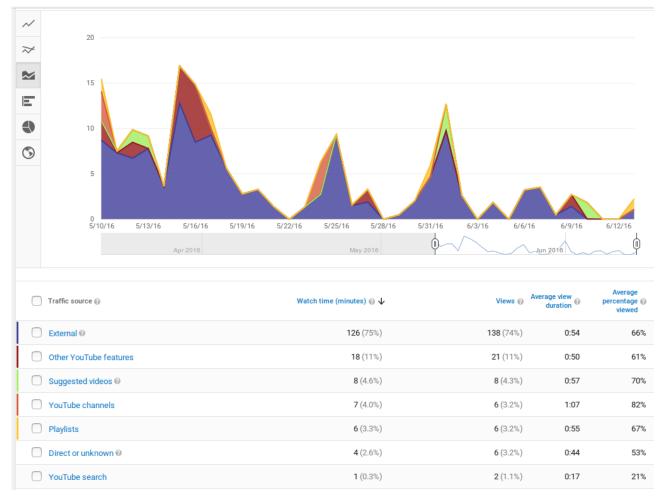


Figure 13 – Traffic sources ("External" mainly refers to traffic from web sites having embedded the YouTube video, i.e. the symbloTe and IoT-EPI web sites).

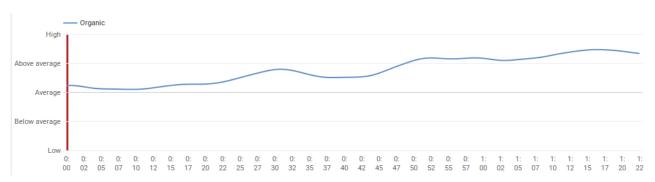


Figure 14 - Relative audience retention shows the video's ability to retain viewers during playback by comparing it to all YouTube videos of similar length.

5.3 Social Networks

The symbloTe project has established a twitter account ([5]) on March 6th 2016 (M3). Since then we are engaging with relevant high-profile professional, projects, networks and organisations. Currently symbloTe has 85 followers and 75 tweets.



Figure 15 – Number of followers (daily view)

Tweets	Top Tweets and replies Promoted	Impressions	Engagements	Engagement rate
symbioTe	symbloTe-h2020 @symbiote_h2020 · Jun 2 Ivana Podnar Zarko presenting symbloTe during the @loT_EPI session in #loTWeek Belgrade. #loT	1,004	32	3.2%
	#interoperability pic.twitter.com/KQzKrrHU5e View Tweet activity			Promote
symbloTe	symbloTe-h2020 @symbiote_h2020 · May 23 Meet our symbloTe people :) #loTWeek #iot epi	894	17	1.9%
	twitter.com/loT_Forum/stat View Tweet activity			Promote
symbloTe	symbloTe-h2020 @symbiote_h2020 · May 25 symbloTe steps forward in horizontal integration and federation of isolated IoT domains iot-epi.eu/index.php /2016#iot epi#iot	642	7	1.1%
	View Tweet activity			Promote
symbloTe	symbloTe-h2020 @symbiote_h2020 · May 25 symbloTe will be there!! Come to find more about our project!! a small teaser here: youtube.com/watch?v=mR6dCk #IoTWeek	573	5	0.9%
	twitter.com/loT_Forum/stat View Tweet activity			Promote
symbioTe	symbloTe-h2020 @symbiote_h2020 · May 27 How ready is the Internet for IoT? tcrn.ch/1RtKHqh via @techcrunch	297	5	1.7%
	View Tweet activity			Promote
symblo Te	symbloTe-h2020 @symbiote_h2020 · Jun 3 What symbloTe can do for you? youtube.com/watch?v=mR6dCk	245	9	3.7%
	#IoT #IOT_EPI #IoTplatform View Tweet activity			Promote

Figure 16 – Top tweets during the last 28 days, along with their tweeter metrics

5.4 Dissemination materials

In the context of symbloTe presence in IoT-EPI (the European group federating the new H2020 programs about IoT platform development), a poster (Figure 17) and a factsheet (Figure 18) has been prepared for symbloTe presentation inside this group. The poster is a short snapshot of the most relevant information, in order to understand what is the symbloTe project; the factsheet, instead, contains a short description of all the important aspects of symbloTe (i.e. goal, technologies, challenges, solutions, etc.). Both the poster and the factsheet are available on the project website ([41]).

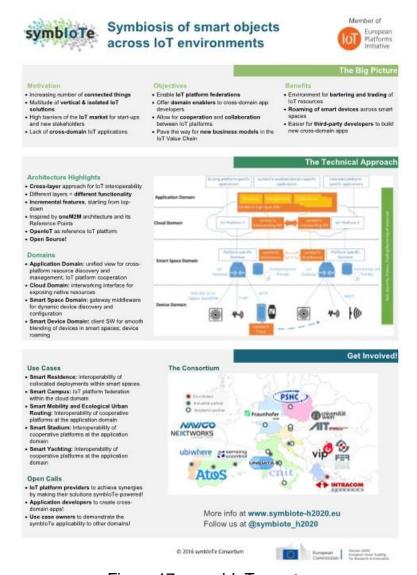


Figure 17 – symbloTe poster

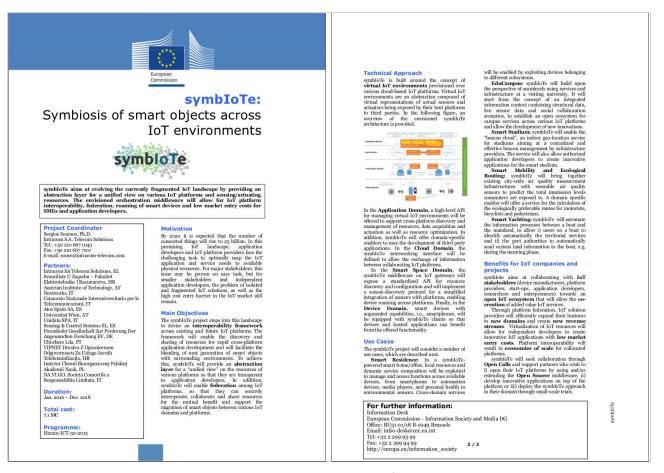


Figure 18 – the symbloTe factsheet

5.5 Publications

Five (5) articles have been submitted and accepted within the first six months of the project, as indicated in the following list:

Conference papers:

- S. Soursos, I. Podnar Zarko, P. Zwickl, I. Gojmerac, G. Bianchi, G. Carozzo, "Towards the Cross-Domain Interoperability of IoT Platforms", *25th European Conference on Networks and Communications*, Athens, Greece, 2016.
- P. Boccadoro, M. Barile, G. Piro, and L. A. Grieco, "Energy consumption analysis of TSCH-enabled platforms for the Industrial-IoT", Proc. of IEEE International Forum on Research and Technologies for Society and Industry Leveraging a better tomorrow (RTSI), Bologna, Italy, 2016.
- S. Schröder, J. Hirschl, P. Reichl, "CoConUT Context Collection for Non-Stationary User Testing", *MobileHCI*, Florence, 2016.

Book chapters:

 S. Soursos, I. Podnar Zarko, "Chapter 9.5 symbloTe: Symbiosis of Smart Objects Across IoT Environments", Digitising the Industry – Internet of Things Connecting the Physical, Digital and Virtual Worlds, to be published.

Journal papers:

• R. Herzog, I. Podnar Zarko, M. Jacoby, "Semantic Interoperability in IoT-based Automation Infrastructures", *Automatisierungstechnik*, to be published.

5.6 Participation at events

5.6.1 SymbloTe at IoT week in Belgrade

IoT week, organized by IoT Forum and Dunav NET, was held from 31 May until 2 June in Belgrade. The event brought together researchers, companies, stakeholders, standardization bodies and policy makers, all active in the IoT domain. It was a good opportunity for symbloTe partners to see what previous research IoT projects have accomplished and discuss with various stakeholders on the vision of IoT interoperability.

During the event, the symbloTe poster was exposed within the IoT-EPI booth, along with posters of other IoT-EPI projects. All the interested participants had the opportunity to inquire about the project from IoT-EPI personnel, as well as from the symbloTe team who was represented by Sergios Soursos, Ivana Podnar Zarko, Mario Kusek, Pavle Skocir, Zvonimir Zelenika, Alberto Tekovic and Tomislav Lastavic.



Figure 19 – IoT-EPI booth with symbloTe poster on the right

Within the session dedicated to presentation of IoT-EPI projects (*IoT-EPI: project objectives, approaches and how to leverage FP7 outcomes*), the technical coordinator of the project Ivana Podnar Žarko gave a presentation entitled "symbloTe – IoT platform interoperability by designing an orchestration framework".



Figure 20 - presentation of symbloTe project at IoT week

5.6.2 SymbloTe at CityOS Brave New World Festival

The City OS Brave New World festival, organized by HUB385 an Innovation Center from Zagreb, was held from June 4 till June 12 2016 in Zagreb. The Brave New World festival is the biggest startup creation program in the region. The event was held under the title *Makers United* because the goal of the event is to unite developers, engineers, makers, hackers, designers, and beyond.

The symbloTe project was presented during the first day of the event in a fair section that was held in parallel with conference and workshops. symbloTe was represented by the technical coordinator Ivana Podnar Žarko and Aleksandar Antonić who presented the symbloTe vision of IoT platform interoperability to interested audience. The event also included the Founders Challenge Hackaton where students from the University of Zagreb applied the concepts derived from the symbloTe vision.



Figure 21 - post on the official Facebook page HUB385

6 Conclusions and next steps

This deliverable has described the dissemination strategies planned to ensure the widest possible impact of the symbloTe project outcomes in the most relevant European communities.

The symbloTe dissemination activities target a wide audience of the academic and the industrial communities in the area of IoT, spanning from individual researchers and developers, to providers and users. The project consortium will be active in publishing the major scientific results in international journals and conferences. In addition, the project will be present in key events like workshops and special sessions or panels at international conferences. Dedicated workshops may be considered, potentially in cooperation with other related EU projects and research initiatives.

Launching specific dissemination campaigns related to Open Calls, gives the opportunity to increase the visibility of the symbloTe concepts and the impact of the project outcomes, pointing towards SMEs, companies and research groups, that can collaborate with the consortium in order to provide extensions of the system.

Next steps planned in symbloTe are:

- to initiate 1st White Paper (deliver M18)
- to initiate Open Community Building (T7.2) and Standardization Strategy (T7.4)
- to work for the exploitation roadmap and deliverable
- to participate in listed academic and industrial events
- to plan for joint symbloTe publications
- to create dissemination material
- to build a dissemination network
- to issue the newsletter

References

- [1] Confluence tool webpage, https://www.atlassian.com/software/confluence
- [2] IoT-EPI webpage, iot-epi.eu
- [3] YouTube channel, https://www.youtube.com/channel/UClcqlb8yBKKBAmyiy1ladOQ
- [4] SymbloTe website, https://www.symbiote-h2020.eu
- [5] Twitter account, (https://twitter.com/symbiote_h2020);
- [6] SlideShare (<u>www.slideshare.net/symbiote-h2020</u>);
- [7] GitHub (https://github.com/symbiote-h2020).
- [8] YouTube link to symbloTe promotional video, https://www.youtube.com/watch?v=mR6dCkeTWrs
- [9] Open AIRE, https://www.openaire.eu
- [10] YARE, www.yarenetworking.com
- [11] Cannes Yachting Festival, www.cannesyachtingfestival.com
- [12] METS, www.metstrade.com
- [13] Monaco Yacht Show, <u>www.monacoyachtshow.com</u>
- [14] IoT Solutions World Congress, http://www.iotsworldcongress.com
- [15] IoT World, https://iotworldeurope.com/
- [16] Smart City Expo World Congress, www.smartcityexpo.com/barcelona
- [17] Mobile World Congress, www.mobileworldcongress.com
- [18] CeBIT, www.cebit.de
- [19] Hannover Messe Industrie (HMI), www.hannovermesse.de/home
- [20] Internet of Things European Summit,

 https://eu-ems.com/summary.asp?event_id=2286&page_id=4647
- [21] Intertraffic, www.intertraffic.com/amsterdam
- [22] Maker Faire, www.makerfairerome.eu
- [23] Horizon magazine, http://horizon-magazine.eu/
- [24] EC project stories, https://ec.europa.eu/programmes/horizon2020/en/newsroom/551/
- [25] EC research*eu results magazine, <u>www.cordis.europa.eu/research-eu/magazine_en.html</u>
- [26] EC Research*eu focus, <u>www.cordis.europa.eu/research-eu/research-focus</u> en.html
- [27] EC newsletters, www.ec.europa.eu/research/index.cfm?pg=publications&lg=en

- [28] CORDIS wire, cordis.europa.eu/wire/
- [29] Futuris Magazine, www.euronews.net/sci-tech/futuris/
- [30] Events on the Commission's Research & Innovation website, www.ec.europa.eu/research/index.cfm?pg=conferences&filter=all
- [31] Events on the CORDIS website, www.cordis.europa.eu/news/home_en.html
- [32] IoT European Research Cluster, www.internet-of-things-research.eu/index.html
- [33] IoT Open Platforms, open-platforms.eu/about/
- [34] Communicating EU Research & Innovation, ec.europa.eu/research/participants/data/ref/fp7/146012/communicatingresearch_en.pdf
- [35] Inter-lot Interoperability Internet of Things, <u>www.inter-iot-project.eu</u>
- [36] TagltSmart, www.tagitsmart.eu
- [37] Vicinity Open virtual neighbourhood network to connect IoT infrastructures and smart objects, vicinity.informatik.uni-kl.de/vicinity
- [38] Agile: an Adaptive & Modular Gateway for the IoT, agile-iot.eu
- [39] BIG IoT, big-iot.eu
- [40] bloTope, biotope.cs.hut.fi
- [41] SymbloTe factsheet, https://www.symbiote-h2020.eu//wp-content/uploads/2016/03/symbloTe_Project_Factsheet_loT-EPI.pdf

7 Acronyms

ACM Association for Computing Machinery

BIG IoT Bridging the Interoperability Gap of the IoT

bloTope Building an IoT OPen innovation Ecosystem for connected smart objects

CORDIS Community Research and Development Information Service

EC European Commission

EU European Union

FP7 7th Framework Programme for Research and Technological Development

H2020 Horizon 2020

IEEE Institute of Electrical and Electronics Engineers

IEEE ICC IEEE International Conference on Communications

IEEE ISSNIP IEEE International Conference on Intelligent Sensors, Sensor

Networks and Information Processing

RIoT Recent Advanced in Internet of Things

IEEE FiCloud IEEE Future Internet of Things and Cloud

IEEE PIMRC IEEE International Symposium on Personal, Indoor and Mobile Radio

Communications

IEEE WoWMoM IEEE World of Wireless, Mobile and Multimedia Networks

WiOpt Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless

Networks

ACM CoNEXT International Conference on emerging Networking Experiments and

Technologies

ACM SIGCOMM ACM Special Interest Group on Data Communication

IoT Internet of Things

IoT-EPI IoT European Platforms Initiative

M Month

METS Marine Equipment Trade Show
PMC Project Management Committee

SME Small Medium Enterprises

T Task

TBC To Be Confirmed

YARE Yachting Aftersales & Refit Experience

WP Work Package

Appendix A

Athens plenary meeting

Athens plenary meeting was held in the premises of the coordinating partner, Intracom Telecom (ICOM). Altogether 34 participants were present from all 14 partners. The meeting lasted for 2,5 days and was divided into 12 sessions. Since this was the first meeting of the consortium, first sessions of the first day were dedicated to introduction of the partners. The following sessions, during the end of first and the beginning of the second day, focused on the WP1 Ecosystem Definition, and task T1.1 Use cases specification. All the use cases were presented, as well as platforms that were brought into the project by consortium members.

During the rest of the meeting, all other WPs were presented, with focus on the ones that were about to start during the first months (WP2 and WP5) including the WP7 that concerns dissemination activities.

During the 3rd day the overview of the WP7 was presented by the WP7 leader. The main topics discussed were: the internal dissemination reporting, the role of social media and it was agreed to use fewer means of communication (website, newsletters and twitter not LinkedIn/or other groups) but the content to be the key driver of all shared items and also to engage all symbloTe partners to contribute to dissemination.



Figure 22 - participants of the Athens kick-off meeting

Zagreb plenary meeting

Zagreb plenary meeting was held at University of Zagreb, Faculty of Electrical Engineering and Computing (UNIZG-FER). Altogether 42 participants were present from all 14 partners. The meeting lasted for 2,5 days and was divided into 11 sessions. The meeting started by discussing activities within WP1 Ecosystem Definition. The focus was on the tasks regarding system requirements and system architecture that started in the month of the meeting. The rest of the first day was devoted to use case specification and preparation of the deliverable D1.1.

Second day was dedicated to WP2 and WP5 which also started in the month of the meeting. Additionally, the preparations for kick-off of activities within other work packages were also discussed (WP3, WP4, WP6). During the second day, a first breakout session was held that focused on system requirements.

Within regular agenda during the third day of the meeting, discussion about WP5 was continued, and plans for dissemination (WP7) were considered. Another two breakout sessions were held on that day that focused on already launched activities of the project, architecture specification and security aspects.

During the WP7 dedicated time the partners planned the dissemination strategies for the coming period which included: the organization of a project workshop, creation of advertising material, construction of a dissemination network, planning of a project publication and issuing of newsletters.



Figure 23 - participants of the Zagreb plenary meeting