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D4.2 – SDO CONVERGENCE AND STAKEHOLDER REPORT

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Version	Date	Author	Notes
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1.0	16.02.2019	Wolfgang Ziegler	Update of broken links to the ETSI events, edits after internal review by Silvana Muscella (Trust-IT), added photos of the workshops

Disclaimer

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Executive Summary

This deliverable presents information about the four stakeholder workshops and the respective outcome organised by StandICT.eu during year one of the project.

The workshops are part of the STANDICT.eu Plan for Communication and Stakeholder Engagement and Promotion of the Open Calls as presented in deliverable D4.1 with the goal to ensure high visibility of STANDICT.eu and highly focused stakeholder engagement.

The deliverable discusses drivers for selecting the respective event for co-locating a StandICT.eu workshop, presents core outcomes of the events, main take home messages, and impact for the project.

Main outcomes of the workshops were increased awareness of the StandICT.eu project among the different stakeholders from ESOs, international SDOs and SSOs industry and academia, and better knowledge of the funding possibilities for standardisation work through applications for StandICT.eu grants in reply to one of the open calls. Moreover, the project collected feedback on the project's approach, the Open Calls and gathered in several of the workshops input for future StandICT.eu calls, namely regarding the fields Cyber Security and Artificial Intelligence.

The deliverable also outlines the initial planning for the first meeting collocated with the ISO/IEC JTC1 SC42 meeting in Dublin. Finally, the deliverable presents other possible opportunities for collocating the StandICT.eu workshops 6 and 7 and the organisation of the final workshop at the ICT2019 in Finland.

1   Introduction

The Digital Single Market (DSM) is aimed at boosting Europe's competitiveness throughout multiple industrial and service sectors. 5 priority domains are highlighted as the building blocks of the DSM: 5G, Cloud Computing, Internet of Things, Cybersecurity and Big Data. The emergence and continuous evolution in these domains compels the establishment of common standards to guarantee interoperable and benchmarked services and technologies to drive the DSM, keep markets open, support innovation and allow a full-service portability. The Single Digital Market in Europe will continue growing substantially only if standards, either coming from Standards Development Organizations or from voluntary communities. Both the degree of standardisation in the 5 priority domains and the European contribution should be increasing.

With a set of 8 quarterly organised workshops StandICT.eu aims at establishing a continuous dialogue with all StandICT.eu stakeholders. The initial plan of the project as outlined in the DoW to organise the workshops co-located with the quarterly Multi Stakeholder Platform (MSP) meetings turned out to be unfeasible due to the non-public nature of the MSP meetings and their less frequent organisation. The project therefore decided to collocate the workshops with major European events related to standardisation in one or multiple of the topic of the calls.

In particular

- the first workshop was collocated with the Eleventh Plenary Meeting of the Research Data Alliance (addressing aspects of Big Data and Open Data)

- the second workshop was collocated with the ETSI Security Week (addressing aspect of Cyber Security)

- the third workshop was organised as a session of the ETSI IoT week (addressing aspects of IoT)

- the forth workshop was organised as a networking session of the ICT2018 (addressing many facets of ICT standardisation)

The co-located events aim at targeting key stakeholders of the project:

- SDOs, SSOs, ESOs: establishing a continuous, trustworthy and collaborative relationship with the relevant standardisation organisations is crucial for the project's success.

- Academics and members of research organisations: for enabling a fruitful two-way communication with SDOs, to provide input and fresh ideas on one hand, and validation of early results on the other hand.

- SMEs & Industry: for raising awareness and promoting the adoption of ICT standards in their innovative and fast moving pace to help drive innovation. SMEs and technology start-ups together with Industry are the ones who ultimately will assess the impact of emerging standards.

Furthermore, the workshops strongly aim at promoting the StandICT.eu Open Calls.

1.1 Scope and specific goals of the deliverable

The scope of the present document – which has a public dissemination level (PU) - is to provide an overview of the workshops organised during year one of the project and their respective outcome. Additionally, a brief outlook on the planning for year two is included.

1.2 Structure of the document

The document is organised as follows:

Section 2 reports on the first stakeholder workshop collocated with the RDA plenary meeting 2018 in Berlin.

Section 3 reports on the second stakeholder workshop collocated with the ETSI 2018 Security Week in Sophia Antipolis.

Section 4 reports on the third stakeholder workshop collocated with the 2018 ETSI IoT week in Sophia Antipolis.

Section 5 reports on the fourth stakeholder workshop collocated with the ICT2018 in Vienna.

Section 6 concludes the report, providing some lessons learned from the workshops organised in the first year of StandICT.eu and gives an outlook to potential events where the four StandICT.eu workshops could be collocated with during the second year of StandICT.eu.

2   First stakeholder workshop

The first StandICT.eu workshop was organised collocated with the Eleventh Plenary Meeting of the Research Data Alliance (RDA), Berlin, Germany. Due to the unavailability of invited speakers the first workshop was dedicated mainly to introduce StandICT.eu goals, the Open Calls, expectations and approach. Also, the European context as seen by the EC was presented.

2.1   Drivers for participating

The Eleventh Plenary Meeting of the Research Data Alliance in Berlin was selected for hosting the first StandICT.eu workshop for several reasons:

- Big Data is one of the fields for standardization where StandICT.eu is offering grants through the Open Calls and research data most often is big data.
- The project expected to meet and engage stakeholders.
- The organisers of the RDA meeting were open to collocate the StandICT.eu workshop and to provide organizational and infrastructural support.

2.2   Core outcomes of the event

The workshop provided an excellent opportunity for the project to establish links to the research data community and show the mutual benefit of engaging in the project's upcoming Open Calls, both by providing feedback to the call topics and by submitting grant applications.

2.3   Main take home messages

The main messages for the participants were centred around

- the importance of standards for the data area,
- their relevance for the European Digital Single Market,
- the community-relevant topics of the Open Calls, and
- the possibilities offered by StandICT.eu to support standardization activities.

2.4   Impact for the project

The impact for the project were threefold

1. achieving a high visibility in the global alliance for research data,
2. promoting the StandICT.eu Open Calls with a focus on Big Data and Open Data,
3. attracting new experts for StandICT.eu grants proposals

4. improving the preparation of the following workshops through the lessons learned from this event.

Table 1: Summary of the first workshop

Venue	Berlin (Germany), Berlin Congress Center, Eleventh Plenary Meeting of the Research Data Alliance
Date	22. March 2018
Number of participants	8
StandICT.eu participants	Timea Biro (Trust-IT), Wolfgang Ziegler (Fraunhofer Institute SCAI)
Agenda	**Welcome & Introduction** Timea Biro, Trust-IT **Presentation StandICT** Wolfgang Ziegler, Fraunhofer Institute SCAI **Coffee** **Presentation first call, initial list of relevant standardisation activities** Timea Biro, Trust-IT **Expectations & benefits of StandICT.eu towards research and industry** Timea Biro, Trust-IT **Exchange/discussion with participants** - Timea Biro, Trust-IT, Wolfgang Ziegler, Fraunhofer Institute SCAI **Wrap up and closing** Timea Biro, Trust-IT
Outcome	Awareness creation for the StandICT.eu project and promotion of the Open Calls for an audience of Big

	Data/Open Data experts
Link	https://www.rd-alliance.org/plenaries/rda-eleventh-plenary-meeting-berlin-germany

3 Second stakeholder workshop

The second StandICT.eu workshop was organised as a collocated workshop during the ETSI Security Week 2018 at ETSI in Sophia Antipolis.

The workshop aimed at discussing the role of standardisation and the different European players in the domain of cyber security: achievements made, ongoing activities, and gaps where standards are needed but have not been addressed so far. Standards in this domain are mainly driven by industry and private sector stakeholders playing a fundamental role in fostering innovation. However, voluntary communities, e.g. Open Source Software communities, and research, like in the field of Blockchain, have an increasing impact. The different players have been considered as target audience and have been engaged as contributors to the event.

The workshop was oriented along the following lines:

- Getting an overview of relevant ongoing standards development activities in the domain of Cyber Security.

- Gathering input from the international and national standardisation activities in Europe – understanding the landscape and defining a way to organise contributions supported by StandICT.eu.

- Identifying a list of standardisation issues/gaps/topics relevant for the Cyber Security domain that are stemming from, e.g., the organisations of the stakeholders, from communities active in the field, users.

- Engaging the participants to leverage their contribution to interoperability and standards activities in the domain of Cyber Security.

3.1 Drivers for participating

The ETSI Security Week 2018 in Sophia Antipolis was selected for hosting the second StandICT.eu workshop for several reasons:

- Cyber Security is one of the areas for standardization where StandICT.eu is offering grants through the Open Calls.

- ETSI is one of the three European Standards Setting Organisations.

- The ETSI 2018 Security Week is part of a well-established series of events following previous successful events with the same focus and format with a large number of participants from industry and research. The project expected to meet and engage stakeholders.

- The organisers of the ETSI Security Week were open to collocate the StandICT.eu workshop and to provide organizational and infrastructural support.

3.2 Core outcomes of the event

The workshop provided an excellent opportunity for the project to establish links to the cyber security community in the context of standardization, both ongoing and in planning and to show the mutual benefit of engaging in the project's upcoming Open Calls, both by providing feedback to the project overall, to call topics and by submitting grant applications.

3.3 Main take home messages

The main messages for the participants were centred around

- the importance of StandICT.eu as an instrument to support European contributions to standardization in the cyber security area,

- their relevance for the European Digital Single Market,

- the community-relevant topics of the Open Calls, and

- the possibilities offered by StandICT.eu to support standardization activities.

Figure 1: StandICT.eu roll-up at the 2nd workshop in the ETSI Amphithéâtre

3.4 Impact for the project

The impact for the project were threefold

1. achieving a high visibility in ETSI's cyber security community,
2. attracting new experts for StandICT.eu grants proposals
3. promoting the StandICT.eu Open Calls with a focus on cyber security,
4. support for the preparation of the third workshop collocated with the ETSI IoT week.

Table 2: Summary of the second workshop

Venue	Sophia Antipolis (France), ETSI, Security Week, Room Amphitheatre Iris
Date	14. June 2018
Number of participants	30
StandICT.eu participants	Francesco Osimanti (Trust-IT), Wolfgang Ziegler (Fraunhofer Institute SCAI)
Agenda	**13:30 Check-in** **14:00 Cyber Security standardisation in the European Digital Single Market context** **(1) Overview of the role of standardization in the context of the European Digital Single Market context** Emmanuel Darmois, EAG **(2) The role of standardization addressing technical challenges / solutions to improve security and facilitate interoperability** Mark Miller (Conceptivity) **(3) StandICT.eu contributions to support interoperability and standards** Francesco Osimanti **15:30 Coffee Break**

	• **16:00 Bridging it all Together** Wolfgang Ziegler, Fraunhofer Institute SCAI • **Panel to discuss identification/selection/ prioritisation of topics that should be included in future open calls of StandICT.eu** Emmanuel Darmois (EAG), Patrick Guillemin (ETSI), Mark Miller (Conceptivity), Scott Cadzow (C3L Security), Alfonso Ferreira (IRIT), Wolfgang Ziegler (Fraunhofer Institute SCAI) • **17:00 Wrap-up & identify calls to action** • **(1) Concrete outcome - list of topics identified & calls to action** Wolfgang Ziegler, Fraunhofer Institute SCAI • **(2) Contribution to topics of the next calls** Emmanuel Darmois, EAG • **(3) Invitation of applicants and evaluators** Francesco Osimanti • **17:30 Close of the workshop**
Outcome	• Awareness creation and promotion of the coming Open Calls to an audience of mostly standards experts in the area of Cyber Security • Confirmation of the list of topics for the Open Calls issued so far and suggestions for Cybersecurity topics for subsequent calls • Overall positive feedback for the StandICT.eu approach • Two participants announced to submit proposals for 3rd Open Call
Link	https://www.etsi.org/events/1305-stand-ict-workshop

4 Third stakeholder workshop

The third stakeholder workshop was organised jointly with Enrico Scarrone (TIM, ETSI) as a session within the ETSI IoT Week 2018.

The workshop aimed at discussing the role of standardisation and the different European players in the domain of the Internet of Things (IoT): achievements made, ongoing activities, and gaps where standards are needed but have not been addressed so far. Standards in this domain are mainly driven by industry and private sector stakeholders playing a fundamental role in fostering innovation. However, voluntary communities, e.g. Open Source Software communities, and research, like in the field of M2M, have an increasing impact. The different players have been considered as target audience and have been engaged as contributors to the event.

The workshop was oriented along the following lines:

- Getting an overview of relevant ongoing standards development activities in the domain of IoT

- Gathering input from the international and national standardisation activities in Europe – understanding the landscape and defining a way to organise contributions supported by StandICT.eu.

- Identifying a list of standardisation issues/gaps/topics relevant for the IoT domain that are stemming from, e.g., the organisations of the stakeholders, from communities active in the field, users.

- Engaging the participants to leverage their contribution to interoperability and standards activities in the domain of IoT.

4.1 Drivers for participating

The ETSI IoT Week 2018 in Sophia Antipolis was selected for hosting the third StandICT.eu workshop for several reasons:

- IoT is one of the areas for standardization where StandICT.eu is offering grants through the Open Calls.

- ETSI is one of the three European Standards Setting Organisations.

- The ETSI 2018 IoT Week is part of a well-established series of events following previous successful events with the same focus and format with a large number of participants from industry and research. Moreover, ETSI plays an important role with the M2M developments. The project expected to meet and engage stakeholders.

- The organisers of the ETSI IoT Week were open to collocate the StandICT.eu workshop in the form of two jointly organised sessions and to provide organizational and infrastructural support.

4.2 Core outcomes of the event

The workshop provided an excellent opportunity for the project to establish links to the active European IoT community in the context of standardization, both ongoing and in planning and to show the mutual benefit of engaging in the project's upcoming Open Calls, both by providing feedback to the project overall, to call topics and by submitting grant applications.

4.3 Main take home messages

The main messages for the participants were centred around

- the importance of StandICT.eu as an instrument to support European contributions to standardization in the IoT area,

- their relevance for the European Digital Single Market,

- the IoT and M2M community-relevant topics of the Open Calls, and

- the possibilities offered by StandICT.eu to support standardization activities.

Figure 2: Meeting room and attendees of the 3rd workshop at ETSI

4.4   Impact for the project

The impact for the project were threefold

1. achieving a high visibility in ETSI's IoT and M2M community,
2. attracting new experts for StandICT.eu grants proposals
3. promoting the StandICT.eu Open Calls with a focus on IoT,
4. intensifying the cooperation with ETSI in preparation of the fourth workshop organised at the ICT2018 in Vienna.

Table 3: Summary of the third workshop

Venue	Sophia Antipolis (France), ETSI, IoT Week, Room 2.44
Date	26. October .2018
Number of participants	50
StandICT.eu participants	Francesco Osimanti (Trust-IT), Wolfgang Ziegler (Fraunhofer Institute SCAI)
Agenda	Session 7: Standards and IoT: Needs, Gaps and opportunities - PART 1 Session Chair: Wolfgang Ziegler, Fraunhofer Institute SCAI • **Standards for the Ethical and Societal Impact of New Technologies** Thamar Zijlstra, Marlou Bijlsma, NEN • **The Relevance of Standards for EU** Franck Boissiere, DG Connect, European Commission • **The Standard Opportunities for SMEs** Massimo Vanetti, SBS-Digital SME • **What is not a Gap Anymore?** Enrico Scarrone, Workshop Chairman, TIM • Coffee Break

	Session 7: Standards and IoT: Needs, Gaps and opportunities - PART 2
	Session Chair: Wolfgang Ziegler, Fraunhofer Institute SCAI
	• **StandICT.eu initiative**
	Wolfgang Ziegler, Fraunhofer Institute SCAI - StandICT.eu
	• **Open Discussion**
	• **Standards and IoT: Wrap-up and Standards Actions**
Outcome	• Awareness creation and promotion of the coming Open Calls to an audience of mostly standards experts in the area of IoT • Confirmation of IoT and Artificial Intelligence topics for subsequent calls • Feedback to the overall project • Positive feedback of applicants of the previous Open Calls on application process • Positive feedback of applicants of the previous Open Calls on application process
Link	https://www.etsi.org/events/1323-etsi-iot-workshop

5   Fourth stakeholder workshop

The workshop aimed at discussing the role of standardisation and the different European players in the domain of ICT standardisation: achievements made, ongoing activities, and gaps where standards are needed but have not been addressed so far. Standards in the ICT domain are mainly driven by industry and private sector stakeholders playing a fundamental role in fostering innovation. However, voluntary communities, e.g. Open Source Software communities, and research, like in the fields of M2M or Blockchain, have an increasing impact. The different players have been considered as target audience and have been engaged as contributors to the event.

The workshop was oriented along the following lines:

- •   Getting an overview of relevant ongoing standards development activities in the ICT domain.

- •   Gathering input from the international and national standardisation activities in Europe – understanding the landscape and defining a way to organise contributions supported by StandICT.eu.

- •   Engaging the participants to leverage their contribution to interoperability and standards activities in the ICT domain.

The fourth stakeholder workshop was organised by Thomas Reibe (EC DG Connect, ICT standardisation coordination) as a networking session of ICT2018 merging four sessions proposed by StandiCT.eu, IEEE, ETSI, CEN/CENELEC. The workshop had two parts: (i) Standardization - A Pathway to your Success in the Market, and (ii) Unlocking the Value of Research through Standardisation.

In addition to the workshop StandICT.eu also had a joint booth with the ETSI where the banner of StandICT.eu, information on the project and the Open Calls were presented.

5.1   Drivers for participating

The ICT2018 in Vienna was selected for hosting the fourth StandICT.eu workshop for several reasons:

- •   The ICT2018 is the biggest ICT event in Europe (with more than 6.000 participants in 2018)

- •   Through its networking sessions the conference provides an excellent opportunity to gather participants with a well-defined focus. In case of StandICT.eu clearly ICT standardisation and its role for the Digital Single Market.

- •   StandICT.eu is offering grants through the Open Calls covering a broad spectrum of ICT topics (as defined in the 2018 Rolling Plan for ICT

standardisation [2] by the European Multi Stakeholder Platform on ICT Standardisation [3] (MSP)).

- All European Standards Setting Organisations are participating in ICT2018.

5.2   Core outcomes of the event

The workshop provided an excellent opportunity for the project to establish links to standardisation organisations, e.g. IEEE or the European Standardisation Organisations (ESOs). Moreover, participants in the event had interests (or even a background) in standardisation. StandICT.eu could present its role in the context of standardization, both ongoing and in planning and to show the mutual benefit of engaging in the project's upcoming Open Calls, both by providing feedback to the project overall, to call topics and by submitting grant applications. Especially beneficial was the meeting with the coordinator of the AI4EU project. Besides the contact through Fraunhofer Institute IAIS StandICT.eu has now a working contact to the project administration and both parties agreed to start discussing the cooperation between the two projects after the launch of AI4EU begin of 2019.

Figure 3: Standardisation workshop at ICT2018

5.3 Main take home messages

The main messages for the participants were centred around

- the importance of StandICT.eu as an instrument to support European contributions to standardization in various ICT areas,

- their relevance for the European Digital Single Market,

- community and stakeholder-relevant topics of the Open Calls, and

- the possibilities offered by StandICT.eu to support standardization activities.

5.4 Impact for the project

The impact for the project were threefold

1. achieving a high visibility during the ICT2018,

2. attracting new experts for StandICT.eu grants proposals

2. promoting the StandICT.eu Open Calls with topics derived from the Rolling Plan of the MSP,

3. intensifying the cooperation with the ESOs and IEEE.

4. Agreement of discussing cooperation possibilities with the coordinator of AI4EU after launch of the project begin 2019.

Table 4: Summary of the fourth workshop

Venue	Vienna (Austria), ICT2018, Room 2.44
Date	5. December .2018
Number of participants	65
StandICT.eu participants	Simone Sacchi (Trust-IT), Wolfgang Ziegler (Fraunhofer Institute SCAI)
Agenda	**Welcome and introduction** (Thomas Reibe, EC DG Connect, ICT standardisation coordination) Part one: Standardization - A Pathway to your Success in the Market **Why and how to get involved in standardization?** (Hermann Brand IEEE; Ultan

	Mulligan ETSI; Karl Grün CEN/CENELEC Project BRIDGIT2)

Part two: Unlocking the Value of Research through Standardisation.

- **Bridging the gap from research to standardization:** CEN CWA Requirements and recommendations for assurance in the Cloud (RACS) (Aljosa Pasic ATOS)

- **Open standards drive business:** Time Sensitive Networking for Automotive and Manufacturing (Marina Gutierrez Lopez TTTech)

- **The StandICT.eu project:** Next call for funding European experts to participate in global standardization bodies (Simone Sacchi Project Coordinator - Trust-IT Services Ltd)

- **Q/A and discussion** |
| Outcome | - One successful applicant of the StandICT.eu Open Calls gave a presentation during the workshop

- Awareness creation and promotion of the coming Open Calls to an audience of mostly standards experts

- Discussion with valuable feedback from attending applicants on the previous Open Calls to be considered for the future calls, e.g. submission process, access to reviews and call statistics, outcome

- Several participants announced to submit proposals for 5th call

- First f2f meeting with the SC42 chair to discuss a co-located workshop with the SC42 spring meeting in Dublin |
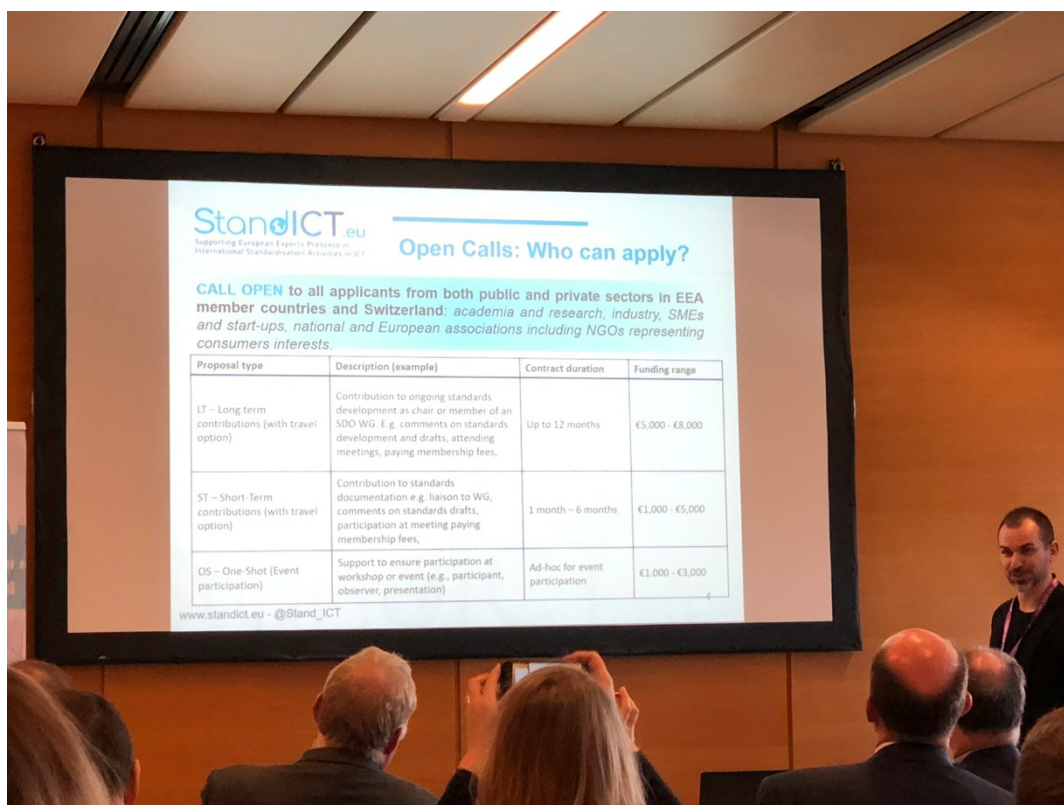| Link | https://ec.europa.eu/digital-single-market/events/cf/ict2018/item-display.cfm?id=22063 |

Figure 4: StandICT.eu presentation at the 4th workshop

6   Lessons learned and next workshops

Apart from the initial workshop during the RDA meeting in Berlin the workshops were well attended. There were two reasons for the weaker attendance of the Berlin workshop: (1) the announcement for the workshop was rather late (due to the project's considerably high number of parallel activities during its start-up phase), and (2) because of the project's at that time still limited channels used to advertise the workshop. The situation could be improved for the subsequent workshops for inverse reasons: (1) the project could start announcing the workshops well ahead of the events and (2) in addition to its own resources the project could avail of the hosting organisations' dissemination channels for the announcing the workshops.

Overall, the four workshops can be considered as successful events, which

- strengthened the cooperation with StandICT.eu's stakeholders, from ESOs, international SDOs and SSOs industry and academia

- allowed to gather valuable feedback received from the participants including applicants of StandICT.eu grants,

- provided excellent platforms for presenting StandICT.eu goals and approaches, and for promoting the different Open Calls of year one of the project to standardisation experts.

For the four workshops planned for the second year of StandICT.eu the project will follow the same successful approach.

Regarding possible events to co-locate the StandICT.eu workshops the project already started negotiating a collocated workshop with the ISO/IEC JTC1 SC42 - Artificial intelligence group during their next meeting April 8-12 2019 in Dublin (Ireland).

Current options for the other three workshops in 2019 are in collocated workshops with the CLOSER conference (Cloud and Service Computing), or with the ISO/IEC JTC! SC38 - Cloud Computing and Distributed Platforms in Berlin (Germany. Another option is organisation of a collocated event with one of the major AI events in Europe [1].

Moreover, we consider to have the final workshop organised both as networking session and with a joint booth with ETSI and CEN-CENELEC at the ICT2019 in Finland.

[1]   Major AI event in Europe: *https://www.singularitysearch.com/machine-learning-conferences*

[2]   Rolling plan for ICT standardisation: *https://ec.europa.eu/digital-single-market/en/rolling-plan-ict-standardisation*

[3]   European Multi Stakeholder Platform on ICT Standardisation: *https://ec.europa.eu/digital-single-market/en/european-multi-stakeholder-platform-ict-standardisation*