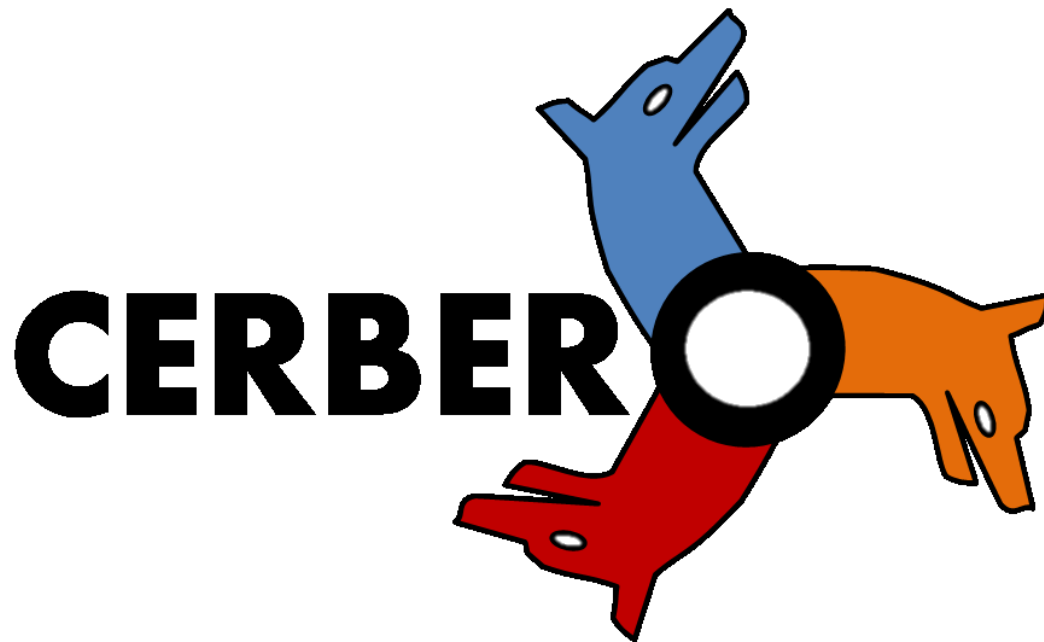


Information and Communication Technologies (ICT) Programme

Project N°: H2020-ICT-2016-1-732105



D7.7: CERBERO Dissemination and Communication Report

Lead Beneficiary: USI

Workpackage: WP7

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Abstract:

This document summarizes the CERBERO dissemination and communication activities till month 18.

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| 10/06/2018 | V0.1 | USI | Initial draft |
| 21/06/2018 | V0.2 | USI | Included the corrections form INSA |
| 21/06/2018 | V0.3 | UNISS, UNICA | Integration of activities and review. |
| 22/06/2018 | V0.4 | UNISS | Review |
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1. Executive Summary

This deliverable refers to the first 18 months of the project, and contains the first report of the Dissemination and Communication activities carried out within the CERBERO project. For completeness, it also quickly recalls the guidelines and the goals of the dissemination and communication. The whole project strategy to protect, disseminate and exploit the project results and achievement, includes however other aspects and involves several other actions. The global project vision can be achieved only by reading the current deliverable together with Deliverable D8.5 (exploitation) and D1.6 (open data plan). In fact, the activities described in each of these deliverables are extremely interleaved and they strongly influencing themselves (a pervasive dissemination would facilitate the exploitation of the results, for instance) and have to be considered as part of global strategy rather than a single, insulated activity addressing one specific aspect of the whole picture.

In the first 18 months of the project, CERBERO partners have completed

1. the set up of the entire infrastructure for communication and dissemination, including the project website, social accounts (e.g., Twitter, LinkedIn, etc.),
2. have published (or received the notification of acceptance) of several peer reviewed papers at conferences and journals, and
3. have participated to leading events of the CPS community presenting tutorial and giving lectures at summer schools.
4. have been actively involved in dissemination events organized by the CPS Cluster.

1.1. Structure of Document

The document is organized as follows. Section 2 summarizes the communication and dissemination activities proposed in Deliverable D7.5 (which described the original plan of the actions). Section 3 presents the carried-out activities. Section 4 compares the completed activity with the planned one.

1.2. Related Documents

D7.1 CERBERO Open Data Management Plan, which discuss the plan to manage the open data

D7.1 CERBERO Website, which stores all the public information related to the project.

D7.5 CERBERO Dissemination and Communication plan, which defines the dissemination and communication goals for the period covered by this deliverable.

D8.5 CERBERO Innovation, Standardisation and Exploitation Plan, which defines the activities related with the exploitation of the project results.

2. Summary of the Dissemination and Communication Strategy

In this section we summarize the dissemination and communication strategy planned in Deliverable 7.5. The main goal of the CERBERO dissemination and communication activities is to communicate the project results to a large audience. However, communication and dissemination activities are also directed towards a very specific audience, to achieve two of the goals of the project: the creation of a CPS community and the creation of a CERBERO community. Responsible of the coordination and reporting of the dissemination activities is Francesco Regazzoni (USI), who acts as Communication Manager.

Objectives of the communications are:

- consolidating the general knowledge about CPSs and the challenges associated with their design
- creating awareness of the project results, including a demonstrating the key project's concepts to principal stakeholders and to the scientific community
- exploring novel possibilities in the field of CPSs paving the way for exploitation of the project results.

For the whole duration of the project, the dissemination and communication of the CERBERO project will be carried out at the following levels:

- Level 1 (internal communication): this level ensures good communication among the partners of the consortium, along with the sharing of the relevant material.
- Level 2 (communication towards scientific and technical community): this level ensures the dissemination of project results via suitable technical papers, conferences and journals.
- Level 3 (communication towards society): this level ensures the communication to toward interested stakeholders who would benefit from the knowledge acquired with the consortium.
- Level 4 (communication towards industry): this communication aims at establishing contacts with the proper industrial associations at the national and European level.

Figure 1 shows the timeline we originally defined to summarize all the communication and dissemination activities, as reported in Deliverable 7.5.

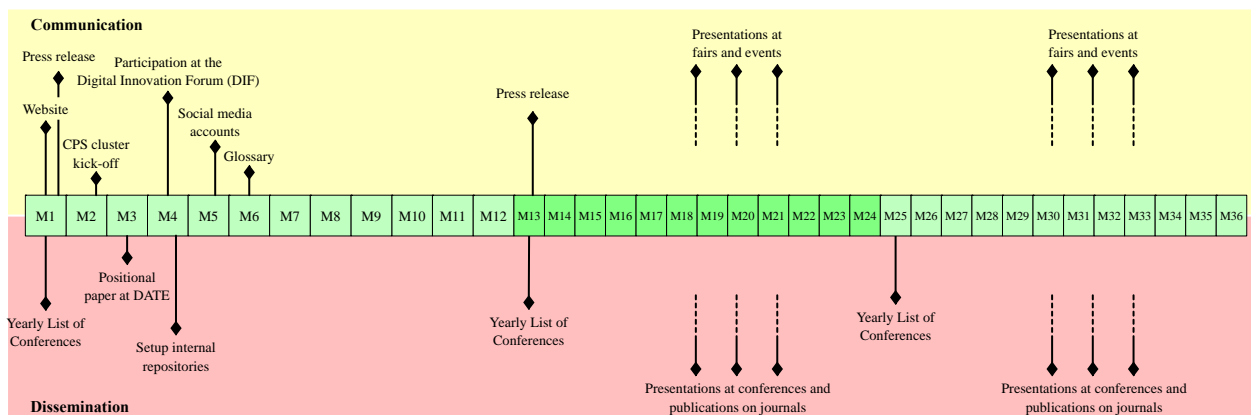


Figure 1: Project timeline with dissemination and communication activities.

3. Completed Dissemination and Communication activities

This section summarizes all the activities performed from M1 to M18 to support communication by the CERBERO consortium.

Online Activity

The project website, reachable at <http://www.cerbero-h2020.eu> and corresponding to Deliverable D7.1 was created shortly after the start of the project. A screen capture of the home page is reported in Figure 2. The website contains information about the consortium, the approved deliverables, a link to the events involving CERBERO partners (with a short description of the event), the list of publications and public presentations, the glossary, press releases, and a collection of multimedia files. Since its creation, the accesses to the website are monitored with proper statistical tools. In the last month before the deliverable finalization, the web site has received over almost 230 visitors.



Figure 2: CERBERO Website Home Page.

A Twitter account was setup at the very beginning of the project. The Twitter account can be followed via @cerbero-h2020.eu and currently has 60 followers. Figure 3 is a screen capture of the CERBERO Twitter page. To date, the Twitter feed has been used to inform the community of the main events of the project and to raise awareness of its activities. In the next months we will attempt to create, using the Twitter account, a community of interest on the topic of cyber-physical systems design.



Figure 3: CERBERO Twitter Page.

Peer reviewed scientific publications

Results of the the CERBERO project are promptly disseminated to the scientific community using classical channels such as peer-reviewed conference and journals. At the middle of June 2018, there are 3 journal papers and 14 conference papers. The complete list of accepted formal publications is reported below (several other papers, not listed here, have been completed, submitted for publication and are currently under review). Most of these works are the result of joint effort among CERBERO partners.

Journals:

1. Sau, Carlo, Francesca Palumbo, Maxime Pelcat, Julien Heulot, Erwan Nogues, Daniel Menard, Paolo Meloni, and Luigi Raffo. "Challenging the Best HEVC Fractional Pixel FPGA Interpolators with Reconfigurable and Multifrequency Approximate Computing." *IEEE Embedded Systems Letters* 9, no. 3 (2017): 65-68.
2. Pelcat, Maxime, Alexandre Mercat, Karol Desnos, Luca Maggiani, Yanzhou Liu, Julien Heulot, Jean-François Nezan, Wassim Hamidouche, Daniel Ménard, and Shuvra S. Bhattacharyya. "Reproducible Evaluation of System Efficiency with a Model of Architecture: From Theory to Practice." *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems* (2017).
3. Pilato, Christian, Siddharth Garg, Kaijie Wu, Ramesh Karri, and Francesco Regazzoni. "Securing Hardware Accelerators: a New Challenge for High-Level Synthesis (Perspective Paper)." *IEEE Embedded Systems Letters* (2017).

Conference Papers:

1. Rubattu, Claudio, Francesca Palumbo, and Maxime Pelcat. "Adaptive software-augmented hardware reconfiguration with dataflow design automation." In

- ReConFigurable Computing and FPGAs (ReConFig)*, 2017 International Conference on, pp. 1-4. IEEE, 2017.
2. Palumbo, Francesca, Carlo Sau, Tiziana Fanni, Luigi Raffo. "Challenging CPS Trade-Off Adaptivity with Coarse-Grained Reconfiguration." In *Applications in Electronics Pervading Industry, Environment and Society Conference (ApplePies)*, 2017.
 3. Suriano, Leonardo, Alfonso Rodriguez, Karol Desnos, Maxime Pelcat, and Eduardo de la Torre. "Analysis of a heterogeneous multi-core, multi-hw-accelerator-based system designed using PREESM and SDSoC." In *Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC)*, 2017 12th International Symposium on, pp. 1-7. IEEE, 2017.
 4. Kaliciak, Leszek, Hans Myrhaug, and Ayse Goker. "Unified Hybrid Image Retrieval System with Continuous Relevance Feedback." In *Systemics, Cybernetics and Informatics (WMSCI) 21st World Multi-Conference on*, 2017.
 5. Kaliciak, Leszek, Hans Myrhaug, and Ayse Goker. "Content-Based Image Retrieval in Augmented Reality." In *International Symposium on Ambient Intelligence*, pp. 95-103. Springer, Cham, 2017.
 6. Masin, M., Francesca Palumbo, H. Myrhaug, J. A. de Oliveira Filho, M. Pastena, Maxime Pelcat, Luigi Raffo et al. "Cross-layer design of reconfigurable cyber-physical systems." In *Proceedings of the Conference on Design, Automation & Test in Europe*, pp. 740-745. European Design and Automation Association, 2017.
 7. Luca Pulina and Armando Tacchella. "More adaptive does not imply less safe (with formal verification)". In *Haifa Verification Conference*, pp. 237-240. Springer, Cham, 2017.
 8. Pilato, Christian, and Luca P. Carloni. "Darkmem: fine-grained power management of local memories for accelerators in embedded systems." In *Proceedings of the 23rd Asia and South Pacific Design Automation Conference*, pp. 696-701. IEEE Press, 2018.
 9. Madroñal, Daniel, Antoine Morvan, Raquel Lazcano, Rubén Salvador, Karol Desnos, Eduardo Juárez, César Sanz. "Automatic Instrumentation of Dataflow Applications using PAPI." In *CF'18: Computing Frontiers Conference*, May 8-10, 2018, Ischia, Italy.
 10. Arrestier, Florian, Karol Desnos, Maxime Pelcat, Julien Heulot, Eduardo Juarez, Daniel Menard. "Delays and States in Dataflow Models of Computation." In *Embedded Computer Systems: Architectures, Modeling, and Simulation (SAMOS)*, 2017 International Conference on. IEEE, 2018.
 11. Massimo Narizzano, Luca Pulina, Armando Tacchella, and Simone Vuotto. "Consistency of property specification patterns with boolean and constrained numerical signals." In *NASA Formal Methods Symposium*, pp. 383-398. Springer, Cham, 2018. Open access version available at <https://arxiv.org/pdf/1712.04162>

12. Arthur Bit-Monnot, Leofante, Francesco, Luca Pulina, Armando Tacchella. "SMarTplan: a Task Planner for Smart Factories". Submitted to the *Tools with Artificial Intelligence (ICTAI), 2018 IEEE 30th International Conference on*. IEEE, 2018. Open access version available at <https://arxiv.org/pdf/1806.07135>
13. Simone Vuotto. "Consistency Checking of Functional Requirements". To appear in Proceedings of the Doctoral Consortium of *Formal Methods*, CEUR, 2018. Open access version available at <https://arxiv.org/pdf/1804.10486.pdf>
14. Suriano, Leonardo, Daniel Madroñal, Alfonso Rodríguez, Eduardo Juárez, César Sanz, Eduardo de la Torre. "A Unified Hardware/Software Monitoring Method for Reconfigurable Computing Architectures using PAPI", *ReCoSoC*, 2018

Awards

On March 16, 2018, Leonardo Suriano received the "Best Speech" award at "II Symposium: Cuéntanos tu tesis (Tell us about your PhD Thesis)" with the work "Runtime Adaptive Hardware/Software execution in complex heterogeneous systems", mostly based on CERBERO research work.

Target conference and journals for year 2 and 3 of the project

As part of the dissemination towards the scientific community we identified a list of conferences and journals to be targeted in the second and third year of the project. The list, which includes the main conferences and journals related with CERBERO topics, was reported in Deliverable D7.5 and it will be updated on the regular bases during the duration of the project. Currently, the list includes the following:

- **Journals:** IEEE^{[L][SEP]} CSVT, Springer^{[L][SEP]} SPS, ACM^{[L][SEP]} TODAES, IEEE^{[L][SEP]} TCAS (I and II), ^{[L][SEP]}IEEE CE, IEEE Design & Test, IEEE Computer, IEEE Micro, Communications of the ACM.
- **Conferences:** ARCS, ASAP, ReCoSoC, ARC, ReConFig, RAW, FPL, DASIP, ICCD, DAC, DATE, ICCAD, and ISLPED, INCOSE, IEEE SysCon, CSER, Modelica events.

Press releases and dissemination towards civil society

Civil society was reached with press releases and with participation of CERBERO partners in public debates. The kick-off meeting of CERBERO received large press coverage by Italian media, with an interview of the Prof. Francesca Palumbo (Technical coordinator of the CERBERO project) at Radio24 (the radio channel of "Il sole 24 ore", the main economy Italian newspaper) and articles on the several newspapers: La Stampa, L'Unione Sarda, and La Nuova Sardegna. The CERBERO project was also mentioned in the University guide of "Il sole 24 ore". The articles and the interview were presenting the challenges associated with CPS design and the goals of the CERBERO project.

Dr. Michael Masin, coordinator of the CERBERO project, was invited to participate to a public debate at the "Notte europea dei ricercatori", in Sassari, the 29th of September 2017. During his intervention, Dr. Masin largely presented the CERBERO project and his

goals to the open public. The presentation was mentioned in local newspapers of Sardinia.

Conference, Workshops, Tutorials, Panels, Schools, Special Sessions and didactics.

CERBERO partners have been organizing tutorials and have been participating to conferences and CPSs summer schools organized by other institutions.

Maxim Pelcat co-organized the COWOMO workshop (<http://cowomo.insa-rennes.fr/>) in Rennes. A day of the workshop was completely dedicated to CERBERO. The focus was mainly on the hardware/software adaptive toolchain. CERBERO speakers: Daniel Madronal (UPM), Eduardo Juarez and Ruben Salvador (UPM), Michael Masin (IBM), Maxime Pelcat (IETR), Claudio Rubattu (ITER/UNISS), and Leonardo Suriano (UPM).

Karol Desnos co-organized the Dataflow workshop (<https://hackmd.io/s/H1qxbyqkf#>) in Rennes (12-14 December 2017). Several partners of the CERBERO project presented their current activities regarding adaptivity, design tools, modeling and energy efficiency. CERBERO Speakers: Karol Desnos (INSA/IETR), Francesca Palumbo (UniSS), Carlo Sau (UniCA), Claudio Rubattu (UniSS/INSA), Ruben Salvador (UPM), Florian Arrestier (INSA/UPM), Eduardo Juarez (UPM),

A tutorial on “Design of adaptive and secure CPS” (<http://www.cerbero-h2020.eu/cpsweek2018-tutorial/>) was organized in conjunction with the CPS Week conference, the 10th of April 2018 in Porto, Portugal. About 20 people registered for the tutorial. During the tutorial the challenges related with requirement formalization, design tool chains, self-adaptation and security of CPS have been presented and explained.

Prof. Francesca Palumbo was co-organizer of the tutorial “Design for Low-Power Internet-of-Things (IoT) Systems” at the ISCAS 2018 conference (the tutorial was held the 27th May 2018). The presentation was discussing, among others, the hardware reconfigurability and adaptivity as developed in the CERBERO project.

Prof. Francesca Palumbo (UNISS) has organized and chaired a Panel on CPS design entitled “Designing Cyber-Physical Systems: Incremental Approaches or Disruptive Technologies?” at Computing Frontiers 2017 in Siena. Dr. Ruben Salvador (UPM) participated as speaker to provide the CERBERO perspective.

CERBERO partners gave lecturer at the “CPS Summer School 2017” (<http://www.cpsschool.eu/previous-editions/cps-summer-school-2017/>) sponsored by Regione Sardegna. Lectures from CERBERO partners addressed the following topics: introduction to CPSs and the CERBERO project, high level synthesis, self-adaptation, security, hardware software co-design, and modeling. During the school, CERBERO partners were also organizing tutorials on the CERBERO toolchain and they were distributing to participants the material related with the CERBERO tools.

CERBERO Speakers: Christian Pilato (USI), Eduardo de la Torre (UPM), Francesca Palumbo (UNISS), Francesco Regazzoni (USI), Joost Adriaanse (TNO), Julio De Oliveira Filho (TNO), Karol Desnos (TNO), Michael Masin (IBM).

Dr. Francesco Regazzoni is one of the guest editors of a special issue on Security for CPS of the Embedded System Letters. The first round of review was completed. Finalization of the special issue is expected by the end of 2018

Andrés Otero and Alfonso Rodriguez gave the Seminar “Boosting Flexibility and Computing Performance in Dynamically Reconfigurable FPGA-Based Embedded Systems” during the CEI Annual Meeting in April 2018, which included CERBERO tools tutorials. A demo of ARTICo³ was also done to participating companies, with interest from other third companies, such as GMV or UTRC.

The tool chain of CERBERO is also regularly used during teaching course at the master level (INSA and UPM) and for master thesis development (at Università degli Studi di Cagliari). A MOOC will be created by INSA on the design and programming of distributed signal processing systems, covering the design part of the CERBERO toolchain. This open MOOC will advertise the project toolchain and disseminate the ideas of the CERBERO consortium.

Participation in activities organised jointly with other H2020 project(s)

The Project and Technical Coordinators the Innovation and Communication Managers, actively participate to the events organized by the CPS Cluster.

The first event was the CPS Cluster Kick-off meeting in Brussels, putting together all H2020 projects funded under the ICT-01-2016 call.

The cluster also organized booth to event and exhibitions. CERBERO participated to them: Dr. Francesco Regazzoni participated at the booth of CPS cluster at the Digital innovation forum in Amsterdam and at the booth at the European Forum for Electronics Components and Systems (EFECS), presenting the CERBERO project.

Dr. Francesco Regazzoni is also attending the monthly meetings of the CPS cluster (the call of the month of June 2018 was organized by CERBERO).

Together with the CPS cluster, CERBERO participated to the preparation and the submission of a networking session proposal at the next ICT event in Vienna (currently under evaluation) and is maintaining a glossary of all the relevant CPS definitions (glossary will be detailed in the next section).

Open source activities

The PREESM open-source design software (<http://preesm.org/>) is maintained by INSA and the updates on the tools achieved during the development of the CERBERO project are promptly made available to the community. In this framework, it has been published the tutorial of Spider.

The SAGE verification suite is composed of two tools:

- ReqV (<https://gitlab.sagelab.it/sage/ReqV>)
- SMarTplan (<https://gitlab.sagelab.it/sage/SMarTplan>)

They are open source and publicly available in a GitLab server maintained by UNISS.

Other Dissemination activities

A Glossary of the fundamental definitions related to the cyber-physical system world is maintained on the CERBERO website (<http://www.cerbero-h2020.eu/glossary-3/>). The glossary defines the terminology of the CPS domain using a clear, precise, and simple

language. The on-line glossary is a live document, which is continuously extended. Starting from CERBERO glossary, a global glossary will be defined with the other partners of the CPS cluster.

CERBERO partners participated also to industrial events, such as the TASE techno-day (UPM).

Internal dissemination

Internal dissemination is guaranteed by the tools and the mechanisms put in place for coordinating the project and ensuring the proper dissemination of the project results.

A detailed description of these is reported in Deliverable 7.5. Briefly, there are two types of repository: a version control system and a document sharing system.

Summary of Activities

In Table 1 we summarize all the dissemination and communication activities completed since the beginning of the project.

| Type of dissemination and communication activity | Number |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Organization of a Workshop | |
| <ul style="list-style-type: none"> Collaborative Workshop on Model-based Design of Signal and Information Processing Systems COWOMO, Rennes, 7-8 June 2018 (event co-organized by CERBERO) | 1 |
| Press release | |
| <ul style="list-style-type: none"> CERBERO KoM received larger press coverage by Italian media, with articles on the several newspapers: La Stampa, L'Unione Sarda, and La Nuova Sardegna Presentation at “Notte europea dei ricercatori” appeared on Sardinian local newspapers CERBERO project was mentioned onto the University guide of “Il sole 24 ore” | 3 |
| Exhibition | |
| <ul style="list-style-type: none"> Participated with other H2020 project, activity reported in “Participation in activities organised jointly with other H2020 project(s)” below | 3 |
| Training | |
| <ul style="list-style-type: none"> Tutorial on “Design of adaptive and secure CPS” at CPS Week 2017. CERBERO goals and toolchains have been presented CPS Summer School 2017 organized by Regione Sardegna. CERBERO partners give lectures at the school presenting the project and the toolchain Tutorial on Design for Low-Power Internet-of-Things (IoT) Systems” at the ISCAS 2018. Prof. Francesca Palumbo presented the CERBERO approach for adaptivity and low power. | 3 |
| Social media | |
| <ul style="list-style-type: none"> Twitter account is up and running, news and relevant information are regularly posted (@cerbero-h2020.eu) ResearchGate page of CERBERO is up and running. Page is regularly | 2 |

updated (<https://www.researchgate.net/project/CERBERO-Cross-layer-model-based-framework-for-multi-objective-design-of-Reconfigurable-systems-in-uncertain-hybrid-environments>)

Web-site

- Project website is up and running, content is regularly updated (<http://www.cerbero-h2020.eu/>) 1

Communication campaign (e.g radio, TV)

- Technical Coordinator gave a short live interview right after the KoM to Radio 24 1

Participation in conferences

- International Conference on ReConfigurable Computing and FPGAs (ReConFig), 2017. Scientific Coordinator presented a poster on CERBERO hardware-related activities. 9
- International Conference on ReConfigurable Computing and FPGAs (ReConFig), 2017. Claudio Rubattu presented his PhD plan, which is focused on CERBERO technologies
- *Applications in Electronics Pervading Industry, Environment and Society Conference (ApplePies)*, 2017. Tiziana Fanni presented a paper.
- *Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC)*, 2017. The work was presented by Leonardo Suriano.
- *Systemics, Cybernetics and Informatics (WMSCI) 21st World Multi-Conference on*, 2017. Hans Myrhaug presented a paper.
- *International Symposium on Ambient Intelligence*, 2017. Leszek Kaliciak presented a paper.
- *Conference on Design, Automation & Test in Europe*, 2017. Project Coordinator presented a paper.
- Computing Frontiers 2017. Prof. Francesca Palumbo organized a panel, Dr. Ruben Salvador participated to the panel.
- *23rd Asia and South Pacific Design Automation Conference*, 2018. Dr. Christian Pilato presented a paper.

Participation in workshops

- CoWoMo 2018. Claudio Rubattu presented a tutorial on MDC. 4
- GdR SOC2 Colloquium. Maxim Pelcat presented the CERBERO project
- WASC 2018. Maxim Pelcat presented the CERBERO project

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| <ul style="list-style-type: none"> 2nd Italian Workshop on Embedded Systems (IWES). Tiziana Fanni presented an abstract. | |
| Participation to an event other than a conference or workshop | |
| <ul style="list-style-type: none"> SIE2018 Annual Meeting. Francesca Palumbo and Carlo Sau presented an abstract on the adaptivity loop. | 5 |
| <ul style="list-style-type: none"> SIE2018 Annual Meeting. Carlo Sau presented an abstract on CAPH-MDC integration. | |
| <ul style="list-style-type: none"> Wednesday Seminars 2018 at CEI-UPM. Tiziana Fanni presented ARTICo³-MDC integration | |
| <ul style="list-style-type: none"> SIE2017 Annual Meeting. Carlo Sau presented an abstract. | |
| <ul style="list-style-type: none"> Notte europea dei ricercatori. The CERBERO coordinator participate to the event presenting the CERBERO project | |
| Video/film | 1 |
| <ul style="list-style-type: none"> Available at: https://youtu.be/BFg4lbhc0qA | |
| Brokerage event | |
| <ul style="list-style-type: none"> Road2CPS 2017. Prof. Francesca Palumbo and Dr. Katiuscia Zedda attended the event. | 1 |
| Pitch event | |
| <ul style="list-style-type: none"> Sardinia SMEs and start-ups pitch event during CPS summer school 2017 – Lead by Katiucia Zedda (AI), panel participants – CERBERO coordinator Dr. Michael Masin (IBM), scientific coordinator Dr. Francesca Palumbo (UNISS), and Dr. Luigi Raffo (UNICA). | 1 |
| Participation in activities organised jointly with other H2020 project(s) | |
| <ul style="list-style-type: none"> CPS Cluster Kick-off meeting. The coordinators and the managers of the CERBERO project attended the meeting. | 3 |
| <ul style="list-style-type: none"> European Forum for Electronics Components and Systems (EFECS). The dissemination manager presented CERBERO at a booth | |
| <ul style="list-style-type: none"> Digital innovation forum. The dissemination manager presented CERBERO at a booth | |
| Other | |
| <ul style="list-style-type: none"> TASE techno-day. UPM participated to the event. | 1 |

Table 1: Quick summary of the overall Dissemination and Communication activity

4. Comparison with Planned activities

In this section we compare the activities planned in Deliverable 7.5 and reported in Figure 1 with the dissemination and communication activity that we were effectively able to carry out, to verify if all the planned activities have been completed. The comparison is summarized in Table 2. The last column of the Table reports how the planned activity has been completed.

| Planned Activity | Timeline | Status | How Completed |
|--------------------------------------------------------------------------|----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yearly List of Conferences | M1 | Completed | A list of target conference for the year 2 and 3 has been finalized |
| Press Release | M1 | Completed | A large coverage of media was done during the kick-off meeting |
| Website | M1 | Completed | The website was realized and published on line |
| Activities in collaboration with other H2020 projects (Cluster kick-off) | M2 | Completed | CERBERO partners attended the CPS cluster meeting and follow up activities |
| Positional Paper at DATE | M3 | Completed | A CERBERO positional paper has been presented at the DATE conference |
| Activities in collaboration with other H2020 projects (DIF) | M4 | Completed | CERBERO was presented at a shared booth ad DIF |
| Setup Internal Repositories | M4 | Completed | Repositories for internal dissemination have been set up |
| Social Media Presence | M5 | Completed | The twitter account have been created and news are regularly posted |
| Initial version of glossary | M6 | Completed | An initial version of the CPS glossary has been published on the CERBERO website |
| Updated Yearly List of Conferences | M13 | Completed | The list of target conference has been revised by the dissemination manager, no update is required |
| Press Release | M13 | Completed | At the end of month 9, several local newspaper from Sardinia reported the participation of the CERBERO coordinator to the Notte europea dei ricercatori |

Table 4: Comparison with planned activities and carried out activities

5. Conclusions and Next Steps

This document is the first report of the Dissemination and Communication activities carried out within the CERBERO project, in the first half of the project. All the planned activity has been completed and currently no problems are reported in the developing of the upcoming activities.

The dissemination in the following 18 months will continue on the same line. Concerning the dissemination towards the scientific community, the next steps will include the revision and update of the target conference and journals where the achieved results will be published. Tutorials presenting the design flow will be proposed for other top events (such as the Hipeac conference) and a target top conference for proposing a special session about the design of CPS will be identified and such proposal will be submitted.

Concerning the dissemination towards a larger community, activities with the CPS cluster are already planned (such as a networking session at ICT 2018 Conference, in case the submitted proposal will be accepted). Further activities will involve the organization of presentations and events for local companies and SMEs (such as a presentation at the local start-up incubator in Ticino, which will be organized in the next months).

6. References

[CERBERO 2017] <http://www.cerbero-h2020.eu>