Project acronym:	**PrEstoCloud**
Project full name:	**Proactive Cloud Resources Management at the Edge for efficient Real-Time Big Data Processing**
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D8.1 Dissemination and Standardisation Plan and Actions

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0.4	31/12/2017	Dimitris Apostolou (ICCS)	Addressing comments made by reviewer Giannis Ledakis (UBITECH)

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List of Abbreviations

The following table presents the acronyms used in the deliverable in alphabetical order.

Abbreviation	Description
EC	European Commission
EU	European Union
CC	Consortium Coordinator
KPI	Key Performance Indicator
SME	Small and Medium Enterprise
PoC	Point of Contact
KPI	Key Performance Indicator

Executive Summary

This deliverable reports all the conducted dissemination activities during the first project year while it elaborates on the dissemination plan for the upcoming project period. Specifically, this report documents the dissemination activities, the envisioned relation to standards as well as clustering activities with related H2020 projects. It provides details on current and anticipated individual and collaborative dissemination activities to be conducted during the second year of the project while it quantifies the target for the dissemination results over the lifespan of the project.

In the first year of the project, the PrEstoCloud consortium has issued one press release, has published five academic papers in conference proceedings, has participated in four conferences, has organized one special session in a conference, has given one keynote presentation, has disseminated the concept of the project in one events at ministerial level and has made three presentations in industrial clusters.

1 Introduction

This deliverable describes the dissemination plan for the PrEstoCloud project. Dissemination refers to communicating the project results towards the academic community, stakeholders, interested communities and all other relevant audience groups, which in one way or another might participate in the adoption of the project results. As such, dissemination aims at generating values for EU industries and academia from the project results. This deliverable reports all the conducted dissemination activities, performed at consortium and individual level, during the first project year. In addition, it elaborates on a dissemination plan for the upcoming project period. It includes details of any publications, seminars and other dissemination activities already performed or planned for presenting the results of the PrEstoCloud project.

Dissemination activities go hand in hand with communication activities and often use communication material such as project brochures, hand-outs, presentations, etc. Note that the production of communication material as well as market-oriented communication activities such as the distribution of the project newsletter are reposted in the three iterations of the Communication Roadmap & Activities Report (D8.4, D8.5, D8.6).

The scope along with the structure of this deliverable is summarized below:

- Section 2 describes the dissemination objectives, strategy, target audience and methodology.
- Section 3 presents all the scientific publications produced during the first project year. This refers to journal, conference and workshop papers.
- Section 4 presents all the other dissemination-related activities that took place during the first project year. This refers to networking events, seminars, tutorials, university lectures, and workshop organization.
- Section 5 elaborates on the consortium's individual dissemination plans.
- Section 6 presents the planned scientific publications to be produced over the period of M13-M24 of the PrestCloud project.
- Section 7 presents the plan for dissemination to industry and society to be conducted over the project period of M13-M24.
- Section 8 discusses the relation to relevant standards and standardization working groups.

2 Appraoch for Disseminating the Project Results

2.1 Dissemination Objectives and Strategy

Dissemination activities deal with the diffusion of scientific and technological knowledge generated within the context of the project, aiming to ensure both a mid– and long-term impact. The dissemination strategy to be applied in the project is aligned to the following objectives:

- To ensure maximum visibility of the project in the target audiences via appropriate key messages.
- To timely diffuse the scientific and technological knowledge generated in the project beyond the project's consortium.
- To establish liaisons with other projects and initiatives for knowledge and innovation transfer.
- To engage the targeted audiences to get feedback and validate the project's results.
- To attract potential users / clients and stimulate the appropriate market segments to support the project's exploitation strategy.

Phases / Dissemination Mechanisms	Phase I: Raise Awareness (M1-M12)	Phase II: Inform and Interact (M12-M24)	Phase III: Promote (M24-M36)
(D1) Organization of Project Events	D1.I) Organization of workshops and special sessions in scientific conferences	D1.II) Organization of workshops and special sessions in scientific conferences	D1.III Organization of workshops and special session in scientific conferences, industry events & fairs
(D2) Participation to Conferences & Workshops	D2.I) Participation to events; Presentation of PRESTOCLOUD project scope; Interaction with participants	D2.II) Presentation of PRESTOCLOUD results to events	D2.III) Presentation of PRESTOCLOUD results to events; Representation in demo sessions
(D3) Scientific Publications	D3.I) Publication of position papers / review papers in conferences	D3.II) Publication of architecture and work in progress in conferences	D3.III) Publication of overall project's and specific results in journals
(D4) Community Building / Engagement with Stakeholders	D4.I) Establishment of contact points; Liaison with scientific communities and networks; Promotion of project's communication material	D4.II) Validation of results with key stakeholders in events / online; Invitation to project's events	D4.III) Creation of network of potential scientific stakeholders
(D5) Collaboration and synergies with projects	D5.I) Synergies identification; Establishment of contact points; Exchange of ideas & intentions	D5.II) Periodic bilateral exchange of news & results, Joint presence in events	D5.III) Joint engagement in events / conferences
(D6) Internal Dissemination in partner's networks	D6.I) Project's links & news in partners' website, social media accounts, newsletters	D6.II) Inclusion of PRESTOCLOUD results in partners' events	D6.III) Demonstration of PRESTOCLOUD results in partners' premises; Training; Reuse of results
(D7) Standardization Contributions	D7.I) Alignment with existing standards	D7.II) Adoption of standards; possible standards' extensions	D7.III) Participation in standards working groups' in case of standards' extensions

Figure 1. PrEstoCloud Dissemination Strategy

Figure 1 depicts the dissemination strategy of the project. It is based on seven dissemination mechanisms, phased out in three phases. In Phase I - Raise Awareness, we have been focusing on analysing the main objectives of the dissemination work, the target groups and the partners' responsibilities associated with the dissemination plan workload. Moreover, we have defined the dissemination tools and the means to pass through the project messages and R&D results.

In Phase II - Inform and Interact, we will put in action a number of activities including organisation of project workshops, participation in International Conferences and linking PrEstoCloud with other related European projects.

In Phase III - Promote and as soon as the first project-wide results are available, the project partners will disseminate the project results of PrEstoCloud to both scientific and industrial communities and other target groups in the EU, in order to stimulate awareness. Every project partner will ensure that dissemination activities will be carried out nationally, and if applicable will contribute to

dissemination internationally. The dissemination content should prepare and convince the audience for the benefits of the (expected) project outcomes. Feedback will be used for undertaking corrective actions based on the predefined set of KPIs.

An overarching phase within the aforementioned phases is related to continuous monitoring of results, as well as, reporting procedures and responsibilities.

In the following sub-sections, we provide more details about the dissemination strategy with respect the purely academic activities (section 2.2) as well activities that are geared towards the industry and society (section 2.3).

2.2 Scientific Dissemination

Scientific dissemination focuses on disseminating scientific results through the appropriate channels, to secure an optimal knowledge transfer to all relevant research parties. Identification of recommended scientific dissemination channels, following standard scientific quality criteria (e.g. channels indexed in Web of Science, IEEE Explorer, SCOPUS, etc.) is a key task undertaken in the first year and described in this section. An active publication policy will be pursued, based on the most innovative aspects of the project. For publications of the most valuable project developments and final results, high impact scientific journals are considered. Also, the focus for participation in events will be on high profile and focused scientific conferences on related fields. Scientific conferences sponsored by international technical societies will be particularly targeted. Initial list of targeted Journals, Conferences, Workshops includes:

- Articles in international journals (e.g. IEEE Transactions on Software Engineering, ACM Transactions on Software Engineering and Methodology, ACM Transactions on Cloud Computing, IEEE Intl. Conference on Cloud Computing (CLOUD), ACM/IFIP/Usenix Middleware
- Papers in international conferences and workshops (e.g. ACM/IFIP/USENIX Middleware, ACM/IEEE International Conference on Software Engineering (ICSE), IEEE Intl. Conference on Cloud Networking. For publications of the most valuable project developments and final results, high impact scientific journals are considered.

In the following two tables, we provide indicative lists of scientific journals and conferences that have already been considered or will be considered in the future for submitting PrEstoCloud results.

Table 1. Indicative list of scientific Journals

Cloud Computing	International Journal of Cloud-Computing and Super-Computing
Journal of Cloud Computing (Springer)	Open Journal of Mobile Computing and Cloud Computing
International Journal of Cloud Computing (IJCC)	Journal of Cloud Computing (JCC) (IBIMA)
IEEE Transactions on Cloud Computing	Information Management & Computer Security
International Journal of Cloud Applications and Computing (IJCAC)	The International Journal of Grid Computing and eScience
International Journal of Cloud Computing and Services Science	Journal of Information Security and Applications (Elsevier)

Table 2. Indicative list of International scientific conferences

Cloud Computing	IT and Cloud Security
IEEE CLOUD	International Conference on Cloud Security Management
IEEE Int. Conference on Cloud Networking (IEEE	Int. Conference on Cloud and Autonomic

CloudNet	Computing (CAC)
IEEE Int. Conf. on Cloud Computing for Emerging Markets (CCEM)	International Conference on Cloud Computing (CloudComp)
IEEE International Conference on Cloud Computing Technology and Science (CloudCom)	International Conference on Enterprise Information Systems (ICEIS)
IEEE/ACM Int. Conference on Utility and Cloud Computing (UCC)	IEEE International Conference on Intelligent Systems and Applications (IISA)
International Conference on Cloud Computing and Services Science, CLOSER	International Conference on Cloud Computing, GRIDs, and Virtualization
ACM/IFIP/USENIX International Middleware Conference	USENIX Workshop on Hot Topics in Edge Computing
ACM/IEEE Symposium on Edge Computing	

2.3 Dissemination to Industry and Society

PrEstoCloud will address industrial audiences within the European Union and Associated States such as the following:

- Software Communities, notably the OW2 Open Source Communities.
- Research and Industry communities at the European level: Big Data Value Association European Cloud Partnership, Cloud Select Industry Groups, Cloud Standards Coordination, Alliance for IoT Innovation (AIOTI), CPS (Artemisia, EpoSS, ENIAC), EIT ICT Labs, and relevant national initiatives.
- Vertical domains within the field of PrEstoCloud such as critical infrastructures protection and public safety.

Contacts to some of the above target groups, such as OW2, BDVA and NESSI, are already established by the partners within the project consortium, especially for what regards the industrial partners and software providers. As such, as soon as possible, research results will be communicated for creating external awareness and knowledge building within the targeted industrial communities. Furthermore, relevant project results will be disseminated as early as from the first stage of development. Prototypes will also be made available to support dissemination actions, comprising both technical dissemination and presentations at sectorial events, as well as through wider demonstration activities.

Dissemination and demonstration activities to industry will take into account industrial markets of reference, selecting best and most relevant events for dissemination, and for planning demonstration activities, and these events will be mainly centred on raising awareness and transfer of knowledge, solutions, and technology. Some of the currently planned activities include: organisation of a follow up academic workshop or special session at an international conference to present PrEstoCloud to peer projects so as to encourage collaborations; further participation of PrEstoCloud at prominent ICT exhibitions as well as demonstration of the project results to potential customers at industrial events and exhibitions. Details about the planned dissemination outlets are provided in sections 6 and 7.

2.4 Indicators

Table 3 lists the planned types of dissemination activities and the corresponding targets.

Table 3. Dissemination Indicators and Targets

Dissemination Type	Target
Number of conferences in which PrEstoCloud participates	>= 2 per year
Number of generic medias (press) releases	>= 2 per year

Number of publication in scientific conferences (Web of Science / Scopus)	>= 10
Number of publication in scientific journals (from Science Citation Index / Scopus)	>= 4
Organizing special sessions and other dissemination actions	>= 4
Involving stake-holders through impact creation mechanisms (multipliers)	>= 50
PhD thesis	>= 3

3 Scientific Publications – 1st Year

3.1 Overview

lists the scientific outputs, in terms of journal, conference and workshop papers produced during the first project year. Specifically, for each research output we provide the publication title, its type (i.e. Journal, Conference, Workshop), its details (i.e. Journal, Conference/Workshop title, date and location) and responsible partner. We publish our papers in open source repositories such as zenodo if possible.

Table 4. PrEstoCloud scientific publications – 1st Year

Title	Activity	Details	Responsible Partner	URL
PrEstoCloud: Proactive Cloud Resources Management at the Edge for Efficient Real-Time Big Data Processing	Conference Paper	7th International Conference on Cloud Computing and Services Science (CLOSER 2017), 24-26 April 2017	ICCS	https://www.zenodo.org/record/1133307#.WkNucCOB160
(Keynote: Cloud): "A dynamic and distributed software architecture that manages cloud and fog resources proactively	Key Note Presentation	11th Symposium and Summer School On Service-Oriented Computing, SummerSoc, 25-30 June 2017	SOFTWARE AG	https://zenodo.org/record/1138578#.WlSKUkmWaUk
SSCLOUD: Intelligent systems and services for cloud accessible, data-intensive computing	Workshop / Session	8th International Conference on Information, Intelligence, Systems and Applications IISA 2017, 28-30 August 2017	ICCS	http://imu.ntua.gr/article/imu-organises-workshop-8th-iisa-international-conference-28-30817
Seamless task offloading on multi-clouds and edge resources: An experiment	Conference Paper	8th International Conference on Information, Intelligence, Systems and Applications IISA 2017, 28-30 August 2017	ICCS	https://www.zenodo.org/record/1133313#.WkN2GyOB160

Wide Area Video Surveillance Based on Edge and Fog Computing Concept	Conference Paper	8th International Conference on Information, Intelligence, Systems and Applications IISA 2017, 28-30 August 2017	ADITESS	https://zenodo.org/record/1138596#.WlSRw0mWaUk
Trustable Virtual Machine Scheduling in a Cloud	Conference Paper	2017 ACM Symposium on Cloud Computing	CNRS	https://hal.inria.fr/hal-01627906
A data-driven approach for multivariate contextualized anomaly detection: industry use case	Conference Paper	2017 IEEE International Conference on Big Data	NISSATECH	https://www.zenodo.org/record/1159125#.Wmms12aB160
Towards non-intrusive measurements of available bandwidth for multi-cloud applications	Poster Presentation	2017 ACM Internet Measurement Conference, November 1-3 2017, at QMUL, London.	CNRS	http://conferences.sigcomm.org/imc/2017/
PrestoCloud: Big Data Orchestration for Batch+Stream in Clouds & Fogs with ActiveEon	Workshop Presentation	Paris Open Source Submit 2017, Dec 6-7, Paris FR	ACTIVEEON	https://www.zenodo.org/record/1147658#.WlyOMSOB3aY

3.2 Highlights

3.2.1 Keynote at SummerSoc 2017

Dr. Harald Schöning, Vice President Research at Software AG, gave a keynote speech entitled: "A dynamic and distributed software architecture that manages cloud and fog resources proactively" at the 11th Symposium and Summer School On Service-Oriented Computing (SummerSoC), 28th of June, in Crete, Greece.

3.2.2 ISSCLOUD in conjunction with IEEE IISA 2017

We organized the first academic event as a project in the context of the IEEE international Conference on Information, Intelligent Systems and Applications (IISA), in Larnaca, Cyprus, on the 30th of August 2017.

Figure 2. ISSCLOUD in IEEE IISA 2017

The special session accepted seven papers in the following topics:

- Intelligent cloud computing models, architectures, and platforms
- Intelligent methods for cloud system design and analysis
- Intelligent cloud resource management, provisioning, and migration
- Mobile-aware intelligent cloud data management
- Intelligent approaches for fog/edge computing, fog-based infrastructures, caching, performance and services
- Decision support systems for efficient and open application deployment and monitoring across different cloud platforms and providers, including hybrid clouds and edge resources

Two papers have been accepted and presented by PrEstoCloud partners. The proceedings of the accepted papers will be made available online by IEEE.

3.2.3 Joint conference publication

In CLOSER 2017 held in Porto from the 24th to 26th of April 2017, Dr. Yiannis Verginadis from ICCS presented the paper and argued on the advantages of combining real-time Big Data, mobile processing and cloud computing research leveraging practivity of cloud / fog resources use. The paper was entitled "PrEstoCloud: Proactive Cloud Resources Management at the Edge for Efficient Real-Time Big Data Processing" and was joint work by ICCS, Activeeon and Nissatech.

Figure 3. Closer 2017

A very focused and relevant audience of computer scientists with background on multi-clouds and fog computing domains, allowed for a very fruitful discussion and exchange of positive opinions over the mentioned issues.

4 Dissemination to Industry and Society – 1st Year

4.1 Overview

Table 5 lists the dissemination activities to industry and society that took place during the first year of the PrEstoCloud project and arose out of the partners' organization or participation in some of the conferences and networking events. In this list, we include all activities conducted in order to disseminate the PrEstoCloud vision, objectives and generated knowledge among the research community and potential early adopters (e.g. during scientific networking events, seminars, tutorials, university lectures, workshop organization). Specifically, for each result in the table below, we provide the title of the activity, its type (e.g. networking event, seminar, poster presentation, flyer dissemination etc.), the date and location where it took place, a short summary of its main outcomes, the responsible partner of the PrEstoCloud consortium and its status.

Table 5. Disseminating results to industry and society – 1st Year

Title	Date/Location	Type	Details	Partner
Presentation to Paris Open Source Summit	11/1/2016 - Paris	Presentation	Presented poster, established communication with related projects and summit participants	ActiveEon
Presentation to the Big Data Working Group of SCS Cluster	March 2017 - Sophia Antipolis	Presentation	Presentation seminar, established communication	ActiveEon
Cloud computing world expo	March 2017 - Paris	Contribution	Presented poster, established communication with related projects and summit participants	ActiveEon
Participation in Cloudwatch Summit	Amsterdam 19-20 September 2017	Contribution	Presented poster, established communication with related projects	SOFTWARE AG, ICCS
Round table on Digital European market and its potential	Ljubljana, October 13, 2017	Presentation		JSI/CVS
Dissemination into SAG R&D and Product Management	SAG R&D	Presentation	Poster presentations to R&D and Product Management leads after milestone 3 in month 18	SOFTWARE AG
Bitkom working group "Intelligente Mobilität"		Presentation	Bitkom is Germany's digital association and represents more than 2500 companies in the digital economy, among them 1000 SMEs and 400 startups. Awareness will be created about the project	SOFTWARE AG
Bitkom working group "Software		Presentation		SOFTWARE AG

Architektur"				
CEBIT	March 2017, Hanover	Booth	Presentation at the booth of Software AG	SOFTWARE AG
Hannover Messe	April 2017, Hanover	Booth	Presentation at the booth of Software AG	SOFTWARE AG

4.2   Highlights

4.2.1   Evropski parlament Slovenija, round table

Marija Kokelj of CVS Mobile, representing Marko Grobelnik, JSI, Digital champion of Slovenia participated in the FeelTheFuture ministerial event on Digital European Agenda and its potential, Ljubljana, October 13, 2017.

Figure 4. FeelTheFuture 2017

4.2.2   Industrial Forums

Iyad Alshabani, ActiveEON, presentated the project scope and objectives at Big Data Workgroup of Secured Communicating Solutions Cluster, Sophia Antipolis, March 6, 2017. Moreover, he has a similar presentation at Paris Open Source Summit, Paris, November 16, 2016.

Figure 5. GT Big Data, 2017

Figure 6. Paris Open Source Summit, 2016

4.3   Linking with Related Projects

Table 6 lists the projects identified so far as bearing similarities with PrEstoCloud and the type of collaboration already established or sought to be established. As a highlight, we note that PrEstoCloud has led the successful, joint application of five cloud projects (PrEstoCloud, Melodic, Cola, CloudLightning, Recap) to the Common Dissemination Booster (CDB). Specifically, CDB will help the projects to identify a service portfolio (Service 1 of CDB) and in turn reach target audiences with planned campaigns effectively.

Table 6. Relation with Other Projects

Project	Title	Collaboration
ARCADIA	A Novel Reconfigurable By Design Highly Distributed Applications Development Paradigm Over Programmable Infrastructure	Application placement requirements modeling
MELODIC	Multi-cloud Execution-ware for Large-scale Optimised Data-intensive Computing	Big Data vocabulary and data lifecycle management Common Dissemination Booster joint application
COLA	Cloud Orchestration at the Level of Application	Common Dissemination Booster joint application
CloudLighting	Self-Organising, self-Managing, Heterogeneous cloud	Common Dissemination Booster joint application
RECAP	Reliable Capacity Provisioning and Enhanced Remediation for Distributed Cloud Applications	Common Dissemination Booster joint application
DITAS	Data-intensive applications Improvement by moving data and computation in mixed cloud/fog environments	Many similarities with PrEstoCloud. Common topics of interest to be defined.

5   Individual Dissemination Plans

This section discusses the individual disseminations plans of the partners. For each one of the partners the relevant dissemination channels are mentioned; a summary description about on-going and planned dissemination activities is given; the future dissemination plans over the lifespan of the PrEstoCloud project are explained.

5.1   SOFTWARE AG

As a globally acting software development company with about 5.000 employees, Software AG focuses its dissemination activities on sharing research news and findings among their own developers, experts and partners all over the world.

In order to achieve this, Software AG uses multiple channels: In May 2017, Software AG raised project awareness by a presentation to the research department, followed by a publication in the world-wide employee magazine in February. In addition, presentations were given to the managing director of ADAMOS, a joint venture of Software AG and other partners from the German manufacturing industry, and to the managing director of SAG Cloud GmbH, a subsidiary of Software AG. A first press release on the occasion of the Kick-off in Darmstadt was published in February 2017 to German media. In addition, Software AG presented PrEstoCloud at the exhibitions CeBIT in Hannover on March and Hannover Messe on April 2017 at attractive and inviting stands of Software AG.

In June 2017, Dr. Harald Schöning, Vice President Research at Software AG, gave a keynote speech on the topic of PrEstocloud with the title of "A dynamic and distributed software architecture that manages cloud and fog resources proactively" at the 11th Symposium and Summer School On Service-Oriented Computing (SummerSoC) in Crete, Greece.

Targeting September to December 2018, presentations to product managers regarding the current state of the project will be scheduled. For use in internal and external communication and dissemination, Software AG published information about PrEstoCloud on its website (http://www.softwareag.com/corporate/company/mivi/research/iot).

In September 2018, the Software AG research team will be updated on the findings. This internal team consists of 14 members who drives and coordinates all of Software AG's publicly funded research activities. They all serve as multipliers in many German and European research projects in a worldwide collaborative network with many organizations, among them numerous renowned universities and research institutes, private enterprises, federal governments, and customers.

In 2018, Software AG plans to attended with booths at Hannover Messe in April and CeBIT in June where its research projects, among them PrEstoCloud, will be presented.

5.2   NISSATECH

The main goal of the upcoming dissemination activities of NISSATECH is to create awareness about the capabilities and services, which Nissatech can offer to potential partners and customers. Dissemination actions will follow the following three threads:

1. Scientific dissemination through the participation in research-oriented conferences and workshops. The focus will be on promoting services related to the massive data analytics, especially prediction services. The main relevant scientific communities are those related to the stream processing and complex event processing, but starting also activities in the HPC community. Dissemination will also take place in the context of BDVA and through the active participation in BDVA (co-lead TF6 SG3 Data Analytics).
2. Academic dissemination through the participation in different academic workshops and seminars. This thread is mainly related to the industrial data analytics and the regional dissemination channels (around University of Nis, Serbia).
3. Industrial dissemination through the participation in the industrial trade fairs and symposia where a part of the solutions can be demonstrated. This thread is mainly related to the D2Lab framework for the data analytics. The focus is on the international channels in the domains related to the concept of digital twins (e.g. manufacturing, autonomous systems).

5.3 ACTIVEEON

As a technological SME and open source editor, Activeeon will focus its dissemination activities to technological events and digital clusters. Notably Activeeon is an active member of the OW2 consortium for open source promotion. This let him access different user groups for cloud computing in this consortium and be able to disseminate and communicate about the project results. ActiveEon is also participating to multiple trade shows and events around cloud computing under the open cloud (open source for the cloud computing) thematic.

We notably participated to these main events regarding Open Source and/or Cloud Computing, where we presented the PrEstoCloud project, and we will renew our participation each year:

- Paris Open Source Submit, which is held in Paris, in November 2016 and 2017.

- Cloud Computing World Expo, which is held in Paris, in March 2017 was organized in partnership with the IoT World Expo which give more visibility about the Edge/Cloud Computing fo the IoT ⬚

- London Cloud Expo, which is european and international exposition about cloud computing, in March 2017. ActiveEon was present under the Open Cloud village.

Academic dissemination will be achieved through continuing common production of scientific publication with others projects member.

In addition to these channels, Activeeon is also participating to local dissemination channels in the region Provence-Alpes-Cote-d'Azure in France through the digital clusters SCS (Systèmes Communicants Securisés) and in the region Ile-de-France through the Systematic cluster

5.4 ICCS

As a research institute, ICCS will focus on the R&D community, especially in domains such as: information systems, situational and context-aware systems, recommender systems and self-adaptable systems. ICCS plans to collaborate with other partners of the PrEstoCloud consortium in order to diffuse the generated scientific knowledge among the research community and the general audience. In particular, several dissemination activities will take place by ICCS during the lifespan of the PrEstoCloud project, including: conference presentations, scientific articles in various high impact journals, organization of workshops and dissemination of the project results to other related research projects. ICCS, as the dissemination leader of PrEstoCloud, will create additional dissemination channels for allowing the consortium to present the project's results in relevant research audiences. Specifically, ICCS led the successful organization of the SSCLOUD: Intelligent systems and services for cloud accessible, data-intensive computing in the frame of the 8th International Conference on Information, Intelligence, Systems and Applications IISA 2017, 28-30 August 2017, Cyprus. In addition, ICCS will use communication channels, accordingly, such as our website, social media (e.g. Twitter, ResearchGate, LinkedIn) for raising awareness on the PrEstoCloud scientific results.

Moreover, through the association with the National Technical University of Athens (NTUA), ICCS will seek to enhance the dissemination opportunities of the project results in terms of academic presentation and lectures. The scientific methodological and technological results emerging from the PrEstoCloud project lifecycle and work may become part of teaching material for undergraduate and postgraduate courses of NTUA. Additionally, specific advancements of the state-of-the-art will be used directly or indirectly for driving and inspiring post-doctorate research work.

ICCS future plans include the continuation of concrete dissemination activities that will constitute PrEstoCloud results available to a wide research audience. These planned dissemination activities include the:

- Organization of a follow-up special session / workshop in an international conference.
- Participation in high-impact academic conferences with scientific publications.
- Demonstration of the PrEstoCloud context-aware resource meta-management tools along with their relevant algorithms & methods to the research community in the context of the aforementioned conferences as well as in lectures and seminars at NTUA.

5.5 CNRS

CNRS together with its third-party institution Université Nice Sophia Antipolis (UNS) will collaborate with the other partners of the PrEstoCloud consortium in the dissemination of the results among the cloud computing and Big Data ICT community, the academic community, the R&D community, and the general audience. In particular, dissemination activities will take place during the lifespan of the PrEstoCloud project, including national and international conferences presentations in academic conferences and workshops, publications in scientific journals, participation in focus groups of local clusters, in particular the Secured Communication Solutions cluster, participation in events of the User-Centric Networking Laboratory of Excellence (Labex), and dissemination of the project results to other related research communities. As a teaching institution, UNS may transfer state-of- the-art advances in cloud and networking technologies to relevant Master-level, both within international and national track lectures, on cloud technologies, big-data and high-performance computing, and virtualization. The main topic areas of the work of CNRS/UNS with respect to its role in the PrEstoCloud project are: VM placement algorithms, network virtualisation, and network measurements. Indicative international journals and conferences that CNRS will target are:

- ACM Transactions on Cloud Computing
- IEEE International Conference on Cloud Computing
- ACM/IFIP/Usenix Middleware
- IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing
- IEEE International Conference on Cloud Networking

Additionally, the improvements made to the BtrPlace scheduler will eventually be merged within the main project's repository, leading to a dissemination to an active industrial R&D cloud community.

5.6 UBITECH

Ubitech, as a leading, highly innovative software house, systems integrator and technology provider, is interested to disseminate PrEstoCloud results to a wide range of audiences and through the dissemination mechanisms and phases already identified by the project. In the current phase, we will focus into raising awareness regarding PrEstoCloud and the topics it tries to manage. For this reason, we are already in contact with related European projects in order to create liaisons with PrEstoCloud. Also based on the R&D results that have already started to be created for the project, we will try to create appropriate publications, at scientific level and also at technical level (e.g., through news items and/or newsletters).

Possible research oriented events for publications have been already identified. After the achievement of the first solid results of the project we will put in action a number of activities including participation on workshops and international conferences, but also to promote in greater extend PrEstoCloud to our internal network and other possible stakeholders. This will be the most important part of the dissemination plans of Ubitech, as the ability to present and demonstrate the achievements of PrEstoCloud is considered highly important in order to reach relevant clusters, developer communities, enterprises and in general industrial stakeholders.

5.7 ADITESS

ADITESS dissemination activities will focus on contributions at the preparation of papers targeting international conferences and journals as well as contributions on the continuous content update of the PrEstoCloud Project website, PrEstoCloud Social Media content, the production of PrEstoCloud brochure & newsletters. Moreover, ADITESS will look for any opportunities to propose articles and news on newsletters and mailing lists of organizations in which ADITESS is a member, or in any case focused on the PrEstoCloud topic. Newsletters, brochure, and other project dissemination materials will be distributed via on-line channels taking advantage of ADITESS established contacts at local and International level. ADITESS will also disseminate printed version of brochures, newsletters on conferences, workshops, meetings with subjects potentially interested on PrEstoCloud.

Further, ADITESS will have several meetings with potential end-users at local level in order to create a target group interested in the project development, and to receive relevant feedback. Such meetings will be held anytime a potential stakeholder will be contacted in the future.

Linking activities with related projects will focus on the European Enterprise Network Cyprus (http://www.bsccyprus.org.cy part of www.een.ec.europa.eu)

The below target groups and actions is a combination of communication, dissemination and exploitation actions:

- Meeting with Research Promotion Foundation http://research.org.cy in order to introduce the PrEstoCloud project and future use of EEN platform (that RPF coordinate in Cyprus) for dissemination of outputs as well as help on exploitation and commercialization of the product/service /output of the project. Founded in 1996, the Research Promotion Foundation (RPF) was established at the initiative of the Government of the Republic of Cyprus, to promote the development of scientific and technological research in Cyprus due to the fundamental importance of research in contemporary societies. The Foundation's core objective is the promotion of scientific and technological research in Cyprus. Several specific objectives and priorities have been defined by the Foundation's Statute and the decisions of its Board of Directors, for the promotion of this main objective.
- Meeting with Cyprus Telecommunications Authority. CYTA has shown a preliminary interest but also an intention of collaboration with ADITESS, as regards the latest technology projects that ADITESS is involved.
- Academic Community:
    - University of Cyprus. A preliminary interest in collaborating was showed by KIOS Research Center for Intelligent Systems and Networks that operates within the University of Cyprus. Through the continuous communication with KIOS potential further collaboration may come up in future.
    - European University Cyprus. A potential close collaboration with the Engineering School can be reached in order to further exploit the PrEstoCloud outputs.

6 Planned Scientific Publications – 2nd Year

Table 7 lists the planned research publications, in terms of journal, conference and workshop papers that we expect to be produced over the period of M13-M24 of the PrEstoCloud project.

Table 7. PrEstoCloud planned research publications – 2nd year

Title	Activity	Details	Responsible Partner	URL
Edge 2018	Conference Paper	2nd International Conference on Edge Computing June 25 - June 30, 2018, Seattle, USA	UBITECH	http://theedgecomputing.org/2018/cfp.html
DEBS 2018	Conference Paper	12th ACM International Conference on Distributed and Event-Based Systems	NISSATECH	http://www.cs.otago.ac.nz/debs2018/
CLOSER 2018	Conference Paper	8th International Conference on Cloud Computing and Services Science	ICCS	http://closer.scitevents.org/
FI-IoTSP 2018	Journal Paper	Future Internet Journal: Special Issue on IoT Security and Privacy	UBITECH	http://www.mdpi.com/journal/futureinternet/special_issues/and_Privacy
IISA 2018	Special session organisation	The 9th International Conference on Information, Intelligence, Systems and Applications	ICCS	http://iisa2018.unipi.gr
INFOMEDIA	Workshop presentation	BigData workshop in Israel	LIVEU	
SIGMAP 2018	Conference Paper	The 15th International Conference on Signal Processing and Multimedia Applications	LIVEU, NAM	http://www.sigmap.icete.org/CallForPapers.aspx
MONROE	Workshop presentation	Workshop on Measuring Mobile Broadband Networks in Europe, Madrid 2018	NAM	

7 Planned Dissemination to Industry and Society – 2nd Year

Table 8 lists other planned dissemination-related activities for the period of M13-M24. In this list, we include all the rest of the activities (i.e. not included in the above Table 3) that have been planned in order to disseminate the PrEstoCloud vision, objectives and generated scientific knowledge among the research community and potential adopters (e.g. during scientific networking events, seminars, tutorials, university lectures, workshop organization). Specifically, for each planned activity in the table below, we provide the title of the activity, its type (e.g. joint workshop, networking event, seminar etc.), the date and location where it will take place, a short summary of its main objectives, the responsible partner of the PrEstoCloud consortium and its status.

Table 8. Other dissemination-related activities – 2nd Year

Title	Activity	Date/ Location	Responsible Partner	URL
Cloud Expo Europe 2018	Workshop Presentation	Cloud Expo Europe 2018, Mar 20-22	ACTIVEEON	https://www.cloudexpoeurope.com/
BIG DATA Paris 2018	Workshop Presentation	BIG DATA Paris 2018, Mar 12-13	ACTIVEEON	https://www.bigdataparis.com/
Dissemination into SAG R&D and Product Management	Other	SAG R&D, Q4 2018	SOFTWARE AG	
Bitkom working group "Intelligente Mobilität"	Other	Q3/4, 2018 Berlin	SOFTWARE AG	https://www.bitkom.org/EN/
Bitkom working group "Software Architektur"	Other	Q3/4, 2018 Berlin	SOFTWARE AG	https://www.bitkom.org/EN/
Hannover Messe	Other	April 2018, Hanover	SOFTWARE AG	http://www.hannovermesse.de/home

8 Relation to Standards

This section captures the envisioned relation of PrEstoCloud to specific standards (see Table 9). Specifically, it presents the standards upon which the PrEstoCloud methodological and technological tools will be designed and developed.

Table 9. PrEstoCloud & Standards

Standard	Description	Envisioned Adoption/ Contribution	Description of the planned adoption/contribution	Responsible Partner(s)
JSON	JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999.	Adoption	We plan to support JSON as a Universal Messaging protocol	All
OGF OCCI	OCCI is remote management API for IaaS model based Services, allowing for the development of interoperable tools for common tasks including deployment, autonomic scaling and monitoring. It has a strong focus on integration, portability, interoperability and innovation while still offering a high degree of extensibility.	Adoption	The cloud management operations of PrEstoCloud will be compliant with OGF OCCI to ensure interoperability with other cloud providers.	ActiveEon
TOSCA	TOSCA (Topology and Orchestration Specification for Cloud Applications) is an OASIS open standard that defines the interoperable description of services and applications hosted on the cloud and elsewhere.	Adoption	Written in a declarative YAML DSL (Domain Specific Language), the PrEstoCloud DSL is built on top of the TOSCA Simple Profile in YAML Version 1.2 (August 2017) where all TOSCA normative types were extracted. The goal is to define interoperable description of services and applications including their components, relationships, dependencies, requirements, and capabilities,	ActiveEon

				thereby enabling portability and automated management across cloud providers regardless of underlying platform or infrastructure. Contribution with possible extensions for handling edge resources will be considered later in the project.	25

9   Conclusions

Concluding this first version of the deliverable that reports on completed and planned dissemination activities, we note that we reported the current dissemination activities, performed at consortium and individual level, during the first project year and we consolidated a dissemination plan for the upcoming project period. We focus on activities that involve the presentation of the project progress, technologies and results outside the scope of the PrEstoCloud consortium in order to ensure large awareness of the academic, ICT, Cloud computing and Cloud security research communities through scientific and research publications and participation to relative events (e.g. conferences, workshops, symposiums and exhibitions). Moreover, in cases of large organisations such as SAG, we also reported on internal dissemination activities that took place in order to mobilise resource and fuel interest in the corporation.

The preparation of this deliverable helped the consortium establish a shared understanding of the KPIs, roles and mean for achieving impact. Table 10 summarises the results achieved and current monitoring of KPIs. As shown, partners have started successfully performing dissemination & communication activities, have started producing results in line with the established KPIs and, in alignment with the project technical and business achievements, have planned future activities for improving dissemination & communication reach.

Table 10. KPI Monitoring

Dissemination Type	Dec 2017
Number of conferences in which PrEstoCloud participates	7 (CLOSER, SUMMERSOC, IISA, CLOUD COMPUTING, ICBD, IMC)
Number of generic medias (press) releases	1
Number of publication in scientific conferences (Web of Science / Scopus)	5 papers published in conference proceedings 1 key note presentation 2 poster / workshop presentations
Number of publication in scientific journals (from Science Citation Index / Scopus)	0
Organizing special sessions and other dissemination actions	1 special session at IISA 2017
Involving stake-holders through impact creation mechanisms (multipliers)	Participation in 3 exhibitions 1 presentation at ministerial level 3 presentations in industrial clusters / associations 1 participation in EU concertation meeting
PhD thesis	2 (in progress)

The next interim version of this deliverable will be delivered on M24 (D8.2) and it will include a comparison against the presented plan, a report on the project's second year activities and a consolidation of the detailed dissemination plan for the last year of the PrEstoCloud project and beyond.