



COMMUNICATION PLATFORM  
FOR TENDERS OF NOVEL TRANSPORT NETWORKS

## *Updated Dissemination & Collaboration Plans*

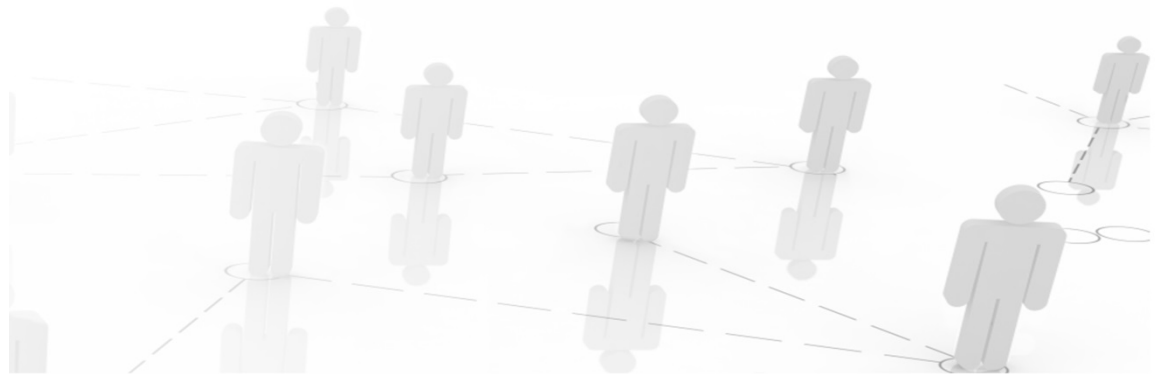
*Bartosz Belter, Piotr Rydlichowski, Artur Binczewski, Aris Sotiropoulos, Chrysostomos Tziouvaras, Jan Radil, Rudolf Vohnout*





COMMUNICATION PLATFORM FOR TENDERS OF NOVEL TRANSPORT NETWORKS

<i>Grant agreement no:</i>	<b>645568</b>
<i>Project full title:</i>	<b>Communication Platform for Tenders of Novel Transport Networks</b>
<i>Project acronym:</i>	<b>COMPLETE</b>
<i>Project start date:</i>	<b>01/01/15</b>
<i>Project end date:</i>	<b>31/12/17</b>
<i>Deliverable id:</i>	<b>D3.4</b>
<i>Deliverable title:</i>	<b>Updated Dissemination &amp; Collaboration Plans</b>
<i>Deliverable version no:</i>	<b>Version 1.0</b>
<i>Contractual date of delivery:</i>	<b>30/06/16</b>
<i>Actual date of delivery:</i>	<b>16/09/16</b>
<i>Dissemination level<sup>1</sup>:</i>	<b>PU</b>
<i>Deliverable leader:</i>	<b>PSNC</b>
<i>Deliverable editor:</i>	<b>Piotr Rydlichowski (PSNC)</b>
<i>Author list:</i>	<b>Bartosz Belter, Piotr Rydlichowski, Artur Binczewski (PSNC) Jan Radil, Rudolf Vohnout(CESNET) Aris Sotiropoulos, Chrysostomos Tziouvaras (GRNET)</b>



<sup>1</sup> The dissemination level of any deliverable falls into one of the following categories:

- PU = Public, fully open, e.g. web
- CO = Confidential, restricted under conditions set out in Model Grant Agreement
- CI = Classified, information as referred to in Commission Decision 2001/844/EC.

## Table of Content

1	Executive Summary .....	5
2	Introduction and overall strategy.....	6
3	Dissemination Activities .....	7
3.1	External dissemination.....	7
3.1.1	Project Website .....	7
3.1.2	Events .....	8
3.1.3	Posters .....	14
3.2	Internal dissemination .....	14
3.2.1	Internal communication .....	14
3.2.2	Face to face and remote meetings .....	15
4	Collaboration activities.....	16
4.1	Collaboration with other projects.....	17
4.2	COMPLETE in Photonics21 .....	17
4.3	Collaboration with public network operators.....	17
4.4	Collaboration with vendors.....	18
5	Summary .....	20

## 1 Executive Summary

In the COMPLETE project, Work Package 3 that is associated with the dissemination activities has significant impact for ensuring maximum impact of the project's output. The goal of the WP3 is to organize and maintain the workspace that is used for collaboration and ensures visibility of the project and its activities to the research community and third parties.

This document is the continuation of the dissemination and exploitation plan of the COMPLETE project partners. The following chapters present a record of dissemination activities that are planned and could be achieved during remaining part of project execution term (till January 2018). The overall strategy regarding dissemination and collaboration is described and in general terms it is a continuation of previous activities. It highlights the requirements for the dissemination activities and provides support for proper planning. In this respect it could be a reference for Commission Services (including project reviewers).

## 2 Introduction and overall strategy

As it was previously highlighted dissemination activities remain the key activity area of the COMPLETE project. The project still remain an important element in the discussion between entities involved in public procurement processes. The project will still collect requirements on optical networking technologies firm public network operators. Moreover it will still continue to establish close relationship with even more vendors and companies working in the optical domain, analyzing their current roadmaps and future plans for developments.

The project will still focus on the similar key areas where public presence of COMPLETE is necessary to achieve its best possible goals:

- On-line presence
- Conferences and international events
- Collaboration with industry
- Collaboration with operators of public networks

This document further elaborates on detailed plans of the COMPLETE partners in the mentioned areas. The project partners will still remain particularly focused on ensuring the presence of COMPLETE in the process of public procurement of new optical technologies in Europe.

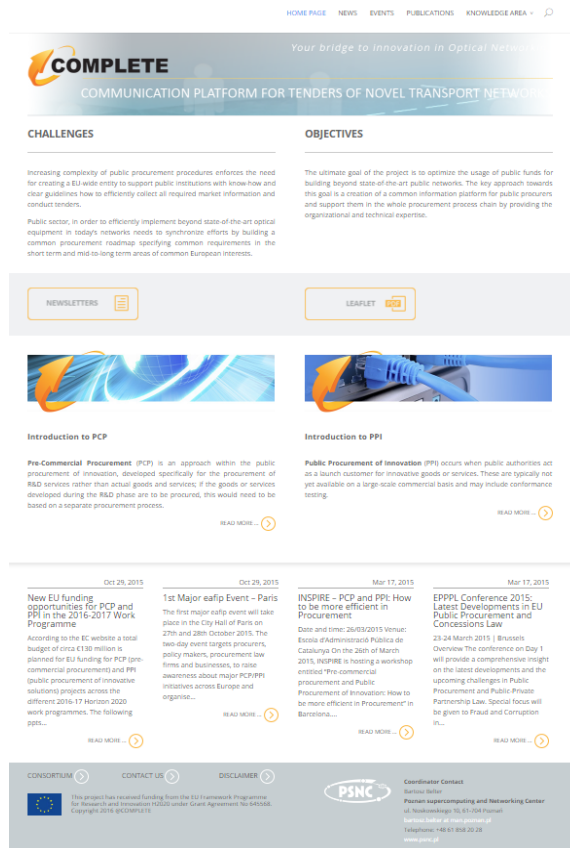
## 3 Dissemination Activities

The project partners continue to implement and conduct regular dissemination activities. Project dissemination materials (e.g. the project logo, project document templates), as well as the project web site are available and are continuously developed and updated. This chapter summarizes these on-going and planned to continue activities and identifies key events the project partners would like to attend in the remaining part of the project.

### 3.1 External dissemination

#### 3.1.1 Project Website

The project website: <http://photonics-complete.eu/> is hosted and administrated by PSNC. The materials on the website are continuously modified and updated. The relevant information regarding the project – collaboration, materials and newsletters will be published on the website.



The screenshot shows the COMPLETE website interface. At the top, there are navigation links: HOME PAGE, NEWS, EVENTS, PUBLICATIONS, and KNOWLEDGE AREA. Below this is the COMPLETE logo and the project title: COMMUNICATION PLATFORM FOR TENDERS OF NOVEL TRANSPORT NETWORKS. The main content area is divided into two columns: CHALLENGES and OBJECTIVES. The CHALLENGES section discusses the increasing complexity of public procurement procedures and the need for a common procurement roadmap. The OBJECTIVES section states the goal of optimizing public funds for building state-of-the-art public networks. Below these are sections for NEWSLETTERS and LEAFLET, each with a corresponding icon and image. The bottom section features a news feed with four articles, each with a date and a 'READ MORE' link. The footer contains a CONSORCIUM logo, CONTACT US, DISCLAIMER, and PSNC (Public Support and Networking Center) information.

The website contains and updated all the essential information regarding the project, its goals, documents and references. The presentations and newsletters are attached and updated. The website delivers also template materials for the project documents. The project web site has been described in details in the project deliverable D1.2. For information about the project structure and content please refer to the document [COMPLETE-D1.2].

The project website in the next phase of the COMPLETE Project will be continuously updated with the project materials, newsletter, posters and conference information. New information regarding vendors solutions, new services will be presented.

### 3.1.2 Events

The project partners have planned and targeted to take part in the well known industry and the community conferences and events. On these events project will be further presented and results will be shown to external communities as well as meetings with further vendors will be organized.

The following table presents the summary of events the project partners plan to attend in the next months of the project execution.



<i>Event</i>	<i>Short description</i>	<i>Involved partners</i>	<i>Corresponding KPIs</i>
TNC 2017	<p><a href="https://tnc17.terena.org/">https://tnc17.terena.org/</a></p> <p>The TNC Networking Conference is the largest and most prestigious European research networking conference, with more than 650 participants attending this annual event. TNC brings together decision makers, managers, networking and collaboration specialists, and identity and access management experts from all major European networking and research organizations, universities, worldwide sister institutions, as well as industry representatives.</p> <p>Project partners plan to organize the workshop with attendees from public network operators on the one side, and vendors on the other side. The main goal is to share information about the status and long term plans of research networks and create a unique forum for discussions with the vendors. Min 3 industrial talks and min 5 NRENs future outlooks are expected.</p>	PSNC, CESNET, GRNET	<p>Number of speeches: 1</p> <p>Number of booths: 1</p> <p>Workshop attendees: min 30</p> <p>Unique visitors: &gt;200</p>
OFC 2017	<p><a href="http://www.ofcconference.org/en-us/home/">http://www.ofcconference.org/en-us/home/</a></p> <p>OFC is the largest global conference and exposition for optical communications and networking professionals, with attendance over the 12000 and 800+ technical papers. For over 40 years, The Optical Fiber Communication Conference and Exposition (OFC) has drawn attendees from all corners of the globe to meet and greet, teach and learn, make connections and move business</p>	CESNET, GRNET, PSNC	Number of vendors approached: 8

	forward.		
<i>OFC 2018</i>	It can be expected that OFC will remain the major conference and exposition in optical telecommunications.	PSNC, GRNET, CESNET	Number of vendors approached: 4
<i>CLEO 2017</i>	<p><a href="http://www.cleoconference.org/home/">http://www.cleoconference.org/home/</a></p> <p>CLEO serves as the premier international forum for scientific and technical optics, uniting the fields of lasers and opto-electronics by bringing together all aspects of laser technology, from basic research to industry applications.</p>	CESNET	<p>Number of posters: 2</p> <p>Unique visitors: &gt;50</p>
<i>ICTON 2017</i>	<p><a href="http://icton2017.udg.edu/">http://icton2017.udg.edu/</a></p> <p>The International Conference on Transparent Optical Networks has the scope concentrated mainly on the applications of transparent and all-optical technologies in telecommunications, computing and novel applications.</p>	CESNET	<p>Number of participants from the project: 2</p> <p>Number of posters: 1</p> <p>Number of papers: 1</p> <p>Unique visitors: &gt;30</p>
<i>NGON, 2017</i>	<p><a href="https://nextgenerationoptical.com/">https://nextgenerationoptical.com/</a></p> <p>NGON 2016 will address and mirror this optical innovation and drive towards Terabit transmission with a smarter and more flexible exhibition and conference.</p> <ul style="list-style-type: none"> <li>• Optical Data Centre Interconnect</li> <li>• Transport SDN</li> <li>• Photonic Integration</li> </ul>	CESNET, GRNET	<p>Number of presentations: 1</p> <p>Unique visitors: &gt;50</p>

<p>OIF 2017</p>	<p>Optical as Enabler for Gigabit Cities &amp; IoT  <a href="http://www.oiforum.com/">http://www.oiforum.com/</a></p>	<p>CESNET</p>	<p>Number of presentations: 1</p>
	<p>The Optical Internetworking Forum (OIF) promotes the development and deployment of interoperable networking solutions and services through the creation of Implementation Agreements (IAs) for optical networking products, network processing elements, and component technologies. Implementation agreements will be based on requirements developed cooperatively by end-users, service providers, equipment vendors and technology providers, and aligned with worldwide standards, augmented if necessary. This is accomplished through industry member participation working together to develop specifications (IAs) for:</p> <ul style="list-style-type: none"> <li>• External network element interfaces</li> <li>• Software interfaces internal to network elements</li> <li>• Hardware component interfaces internal to network elements</li> </ul>		<p>Unique visitors: &gt;30</p>
	<p>The OIF will create Benchmarks, perform worldwide interoperability testing, build market awareness and promote education for technologies, services and solutions. The OIF will provide feedback to worldwide standards organizations to help achieve a set of implementable, inter-</p>		

	operable solutions.		
<i>SPIE17, 2017</i>	<a href="http://spie.org/">http://spie.org/</a>	CESNET	Number of talks: 1  Unique visitors: >50
<i>ECoc 2016</i>	<a href="http://www.ecocexhibition.com/conference">http://www.ecocexhibition.com/conference</a> ECoc is the leading conference on optical communication	PSNC	Number of participants from the project: min 1  Number of vendors approached: 3
<i>ECoc 2017</i>	<a href="http://www.ecocexhibition.com/ecoc_past_future">http://www.ecocexhibition.com/ecoc_past_future</a>  ECoc is the leading conference on optical communication	PSNC	Number of participants from the project: min 1  Number of vendors approached: 3
	in Europe, attracting more than 1,000 participants each year and an exhibition space of more than 10,000 m2. The latest advances in optical communication technologies are reported, from fibres, components and systems up to networks. ECoc should not be missed by anyone interested in optical communication, such as researchers, product developers, sales managers and telecommunication market developers. leading-edge technical progress will be reported in carefully selected papers featuring a blend of keynote addresses, invited and regularly contributed papers, tutorial papers, and special symposia that place a specific theme into focus.		
	in Europe, attracting more than 1,000 participants each year and an exhibition space of more than 10,000 m2. The latest advances in optical communication technologies are reported, from fibres, components		

and systems up to networks. ECoC should not be missed by anyone interested in optical communication, such as researchers, product developers, sales managers and telecommunication market developers. leading-edge technical progress will be reported in carefully selected papers featuring a blend of keynote addresses, invited and regularly contributed papers, tutorial papers, and special symposia that place a specific theme into focus.

<p><i>SDN &amp; OpenFlow World Congress 2016</i></p>	<p><a href="http://www.layer123.com/sdn">http://www.layer123.com/sdn</a></p> <p>Launched in the spring of 2012 -SDN &amp; OpenFlow World Congress is the industry leading debating forum and showcase for the rapidly growing and massively influential, Software-Defined Networking and Network Functions Virtualisation industries. Now, with over 100 supporting partners and sponsors, and 1,000+ delegates, the World Congress has established itself as the principal network innovation conference in Europe for the global telecommunications industry.</p>	<p>GRNET</p>	<p>Number of participants from the project: min 1</p> <p>Number of vendors approached: 5</p>
<p><i>SDN &amp; OpenFlow World Congress 2017</i></p>	<p><a href="http://www.layer123.com/sdn">http://www.layer123.com/sdn</a></p> <p>Launched in the spring of 2012 -SDN &amp; OpenFlow World Congress is the industry leading debating forum and showcase for the rapidly growing and massively influential, Software-Defined Networking and Network Functions Virtualisation industries. Now, with over 100 supporting partners and sponsors, and 1,000+ delegates, the World Congress has established itself as the principal network innovation conference in Europe for the global</p>	<p>GRNET</p>	<p>Number of participants from the project: min 1</p> <p>Number of vendors approached: 5</p>

<p><i>EC concertation events</i></p>	<p>telecommunications industry.</p> <p>The European Commission organizes regular concertation meetings for Photonics21 (annual) and PCP projects (annual). Project partners plan to attend these events, presenting the project goals, status and major achievements</p>	<p>PSNC</p>	<p>Number of events attended: min 3</p>
--------------------------------------	--	-------------	---

*Table 1 Attended events*

### 3.1.3 Posters

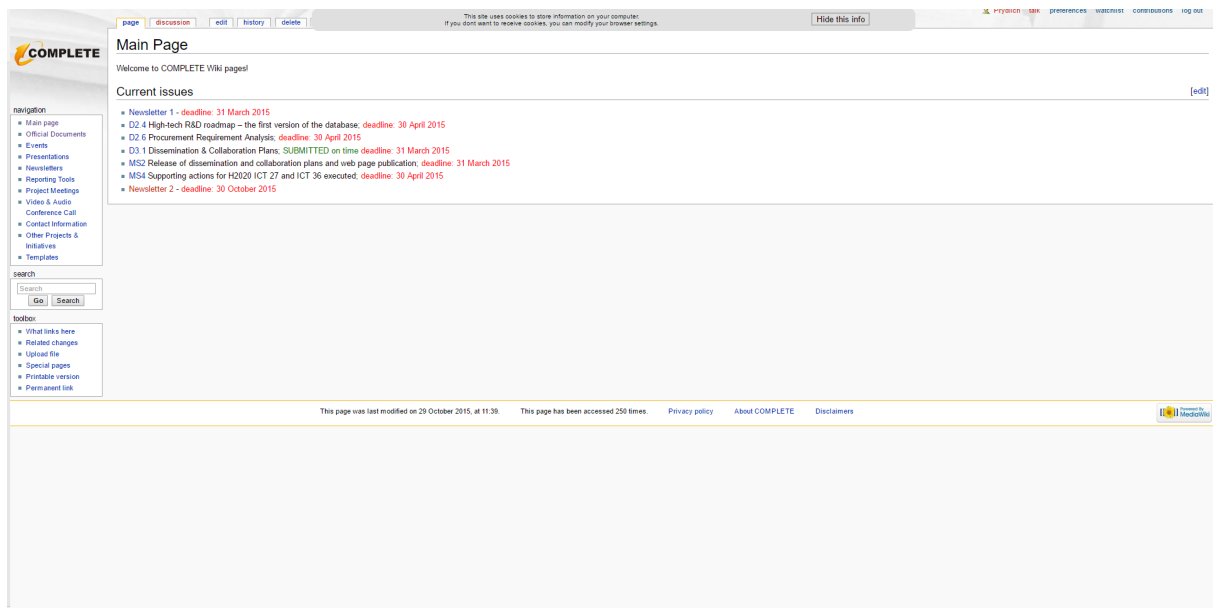
During the conferences specified in the point 3.1.2 project partner plan to present articles and posters with the current COMPLETE project information, results and plans.

## 3.2 Internal dissemination

The project partners continue to use the various tools that have been created by project partners to provide and streamline communication. They will be continuously used and developed to add new functionalities and project documents.

### 3.2.1 Internal communication

Internal COMPLETE project communication will be still provided by the project coordinator – PSNC. Partners will continue to use internal wiki page and videoconferencing system to organize internal and external meetings. The project kick-off meeting was organized and run by PSNC.



## 3.2.2 Face to face and remote meetings

Project partners will continue to conduct regular internal and external meetings. Internal regular meetings will be conducted using PSNC videoconferencing system. On average the project partners plan to run one meeting per two weeks. Some external meetings will be organized also by PSNC videoconferencing system.

Face to Face meetings with the vendors and various parties will be conducted during the conference meetings as described in point 3.1.2 During the conference meetings project partners will plan to schedule meetings with the leading market vendors and providers to discuss and proceed with further collaboration activities. The scope of the meetings with market vendors will be new continued technologies for the optical transport networks and new services requirements from the wide scope of users.

## 4 Collaboration activities

As it was described in the previous points and other documents collaboration activities will remain to stay at the core of the COMPLETE project. In order to obtain the best possible results, project partners will work to establish a further range of the collaboration agreements and networks.

External collaboration with third parties will remain critical aspect. COMPLETE is committed towards all networking technology activities, which bridge the customers of the project, i.e. public network operators with vendors.

This section describes the project partners' further plans for collaboration with industry, public network operators and other projects and initiatives working in the PCP/PPI domain.

### 4.1 Planned workshops

Collaboration with third-party partners, especially those involved in running PCP/PPI-related activities will remain pivotal for the success of the project. The project consortium together with partners plans to submit a proposal for organization of a half-day workshop at the relevant conference gathering participants from a wide range of public network operators. The consortium have chosen the TNC Networking Conference, as it connects NRENs, other public network operators, as well as key market vendors from the networking industry. The conference takes place in the second quarter of each year, and is continuously very well attended.

The planned workshop will in the first aspect allow both, the consumers of network technologies (public network operators) and the providers of new solutions to present their future roadmaps, solutions and plans for the evolution of network architectures (operators) and products (vendors). The workshop however, is planned not only to deal with short-term roadmaps, which reflect the nature of PPI-related activities. The workshop will also provide opportunities to operators to elaborate their long-term expectations regarding future network technologies. This is expected to conclude in an inspiring summary, which in future can lead to joint efforts towards PCP projects, submitted jointly by NRENs, other network operators and representatives of their prominent customers.



## 4.2 Collaboration with other projects

It's expected that in the remaining part of the project, COMPLETE will make most from the results of the collaboration with other projects achieved in the first period. In particular, thanks to the involvement of third-party expert working in other projects in the PCP/PPI domain, the project will enhance its involvement in the field. COMPLETE partners following their plan for the first reporting period will further actively attend PCP-related events, organized by the EC or other projects, and gain experience from external experts, proving back lessons learned from PCP/PPI activities carried out in the NRENS' environment.

<i>Corresponding KPIs</i>	<i>Short description</i>	<i>Involved partners</i>
<i>Number of projects contacted in the M19-M36 period to establish collaboration: min 1.</i>	Collaboration with other projects working on PCP/PPI actions is very important. COMPLETE plans to establish formal relationship with these projects, leveraging on results already achieved by these projects and lessons learnt	PSNC, CESNET, GRNET

## 4.3 COMPLETE in Photonics21

Project partners will attend the Photonics21 annual group meetings.

## 4.4 Collaboration with public network operators

Project Partners will organize further meetings with local public networks in the respective countries. The goal of these meetings will be initializing the start of collaboration under the COMPLETE project framework.

The core partners of COMPLETE will remain NRENS. This aspect still creates unique opportunities to establish direct relationship with other NRENS in order to discuss common needs, interests and opportunities for joint procurement actions.

One of the main points of interests for COMPLETE will remain the GÉANT forum. All European NRENS participate to GÉANT. Representatives of NRENS participate to regular General Assembly meetings, where high-level decisions are being made. Usually GAs are attended by key Executive Directors of NRENS. COMPLETE is also represented there by representatives of PSNC,

GRNET and CESNET. During these meetings strategic initiatives are planned to be discussed, therefore project partners plan to extensively disseminate project outcomes to this group and plan further activities.

The collaboration with other NRENs will be reported in project ongoing deliverables. Initial actions are described in “Procurement Requirements Analysis”, which will substantiate the deliverable D2.6. As part of further work, this analysis will be continuously extended with new findings, reporting new roadmaps of NRENs collaborating with COMPLETE consortium and partners.

<i>Corresponding KPIs</i>	<i>Short description</i>	<i>Involved partners</i>
<i>Number of NRENs contacted: 5</i>	COMPLETE disseminated information about upcoming PCP/PPI-related opportunities for NRENs.	PSNC, CESNET, GRNET
<i>Number of other public network operators contacted: 3</i>	NRENs are not the only target of COMPLETE. Project partners disseminated the knowledge, experience and information to other, usually local public network operators	PSNC, CESNET, GRNET

## 4.5 Collaboration with vendors

Collaboration with the vendors is the core assumption element of the COMPLETE project. The meetings that are planned with the further vendors are planned to result with the signed NDAs and information database contribution regarding the solutions in the optical transport equipment and services. The goal of the meetings is to discuss possible future solutions that will best suit the specified user discussed requirements.

COMPLETE partners, acting as NRENs, as previously reported have already established excellent relationship with industry, and specifically with optical network equipment vendors as its one of their statutory activities. Within the remaining term of the project, this collaboration will be continued and further extended, addressing requirements expressed by third party network operators. Partners agreed to further extend the relationship between the project and the following set of vendors (already contacted): ADVA, ALU, Ciena, Cisco, Coriant, ECI Telecom, Finisar, HP, Huawei, Infinera, Juniper, Optokon, RLC. Moreover it is planned to establish relationship with smaller photonic, optical transport equipment companies that are focused on highly specialized solutions.

The cooperation with vendors will be reported in the next project deliverables. Initial information appeared in the first version of the database “High-tech R&D roadmap” as part of D2.4 (High-tech R&D roadmap - the first version of the database). The database will be continuously updated until the end of the project with specific results of cooperation with vendors.

<i>Corresponding KPIs</i>	<i>Short description</i>	<i>Involved partners</i>
<i>Number of NDAs signed between the consortium members and vendors: 2</i>	Cooperation with vendors is very important for potential planning of PPI-related projects. The consortium would like to formalize this collaboration with vendors by signing NDAs to access confidential materials, which are not publicly available on the vendors’ websites.	PSNC, CESNET, GRNET
<i>Number of vendors described in High-tech R&amp;D roadmap reports: 3</i>	Indicative number of vendors which have been analysed and described in the technical deliverables	PSNC, CESNET, GRNET

## 5 Summary

This document summarizes the COMPLETE project further planned dissemination and collaboration activities. The project partners will follow the strategy that was created at the beginning of the project – especially in respect to collaboration activities. The mechanism and procedures that were created by project partners will be further developed and used on a larger scale. In order to achieve best possible results it is very important to establish broad collaboration network with the leading market vendors and the local public operators.

## PARTNERS

---



**CESNET**, association of legal entities, was held in 1996 by all universities of the Czech Republic and the Czech Academy of Sciences. Its main goals are:

- operation and development of the Czech NREN
  - research and development of advanced network technologies and applications
  - broadening of the public knowledge about the advanced networking topics
- 



**GRNET S.A.** provides Internet connectivity, high-quality e-Infrastructures and advanced services to the Greek Educational, Academic and Research community. The GRNET backbone interconnects all universities and technological institutions, and many research institutes, as well as the public Greek School Network. The GRNET network is present in global networking for research and education, representing Greece in the Pan-European GÉANT network. GRNET's vision is the development of Education and Research in Greece along with the equal involvement of the R&E communities in the Pan European society of Knowledge, with the provision of modern, advanced and reliable Internet services to all Educational and Research Institutions.

---



**PSNC** is the operator of the National Research and Education Network in Poland. The Polish NREN, PIONIER, a nationwide broadband optical network for e-science, represents a base for research and development in the area of information technology and telecommunications, computing sciences, applications and services for the Information Society. It connects 21 Academic Network Centres of Metropolitan Area Networks (MANs) and 5 of the HPC (High Performance Computing) Centres using their own fibre connections in all regions in Poland.