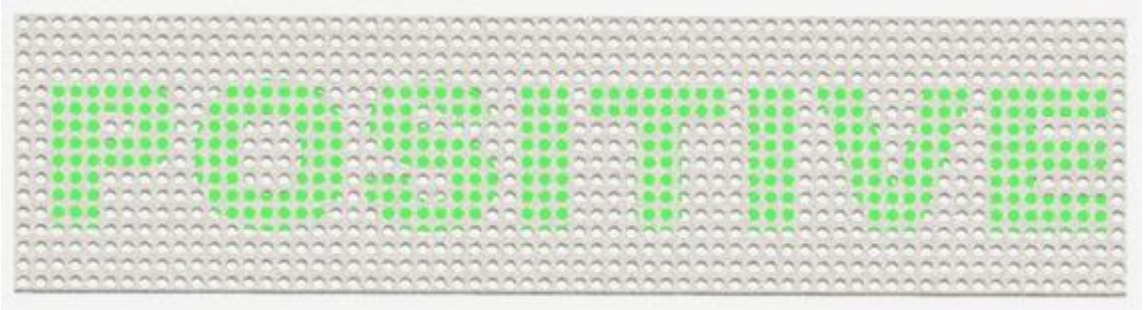

Project Number: 257401

A highly integrated and sensitive POrous SIlicon based lab on a chip for multiple quantitaTIVE monitoring of food allergies at point of care.

Specific Targeted Research Project

Information Society Technologies

Deliverable D11.6: End of year 1 version of plan for use and dissemination of foreground – Section A (Public)

Due date of deliverable: **August 31 2011**

Actual submission date: **October 25 2011**

Start date of project: 2010-09-01 Duration: 3 Years

Organisation name of lead contractor for this deliverable: **UVEG**

Revision **[1.0]**

Project co-funded by the European Commission within the Seventh Framework Programme		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

1 About this deliverable

1.1 Introduction

This report describes the end of year 1 version of a roadmap for the use and spread of the knowledge generated during the project lifetime. The plan includes, amongst others, plans for disseminating scientific and technological information and identifies a priori potential users' forum.

This plan will be implemented and commented upon throughout the project lifetime, which will be described in Deliverables D11.11 (M24) and D11.15 (M36).

Dissemination of project results will be carried out by consortium members. This include participation in workshops, conferences, EC related events, standardisation bodies, etc. Positive members will participate and share information and resources with on-going R&D activities or entities, such as NoEs, IPs or any other horizontal network.

The plan should consist of:

Section A: describing the dissemination measures, including any scientific publications relating to foreground. **Its content can be made available in the public domain** thus demonstrating the added-value and positive impact of the project on the European Community.

Section B: This section specifies the exploitable foreground and provides the plans for exploitation. **This section must be kept confidential** and must be treated as such by the Commission.

1.2 Scope of the deliverable

The deliverable outlines an initial roadmap for the use use and spread of the knowledge generated during the project lifetime.

1.3 Structure of this deliverable

The report is laid out according to the tasks defined in WP11 as follows:

T11.3: Elaboration of roadmap for use and dissemination of foreground. (UVEG)

2 Section A – Dissemination (for public knowledge)

This section includes a list of planned dissemination activities (publications, conferences, workshops, web, press releases, flyers, etc) in free text format. In addition, a list of scientific (peer reviewed) publications is provided.

2.1 Setup of Positive web-site

An interactive webpage, www.fp7positive.eu, was designed and published to allow world-wide knowledge of the activities and results of the project as well as co-ordination between partners (file exchange, etc) by M3 (Deliverable D11.1). *It has been updated on several occasions since its creation.*

2.2 Creation of promotional material

During the project we aim to publicize the project and its results through the creation and distribution of promotional material available for broader distribution at key events and through a newsletter to a regularly updated database of contacts (= the INTEREST GROUP, see section 2.4.2).

A first set of promotional material was created by M3 (Deliverable D11.2), and was updated in M12 (D11.7). Further updates will follow in M24 (D11.12), M36 (D11.14) and M36 (D11.17). The promotional material consists of a project leaflet, a poster, a short presentation and a newsletter. UVEG will lead this work, with active assistance of all partners.

2.2.1 Project leaflet

A first poster was created and printed by M3. The leaflet contains 4 A5 sides. The first leaflet only contains general information about the project, its objectives and its partners. Updated leaflet versions will contain more and more technical results as they become available within the project.

The leaflets are available for download via the Positive website.

2.2.2 Poster

A first poster was created, printed and used by the partners as of M3. The first poster contains general information about the project, its objectives and its partners. Updated poster versions will contain more and more technical results as they become available within the project. This initial poster was used as a basis for creation of later posters for general dissemination of the project. These posters were presented at The EuronanoForum (May 2011), CLEO (May 2011), FP7-IP-HELIOS and UK Silicon Photonics (UKSP) organised photonics summer school and a workshop on Nanophotonics for sensing and nonlinear optics organized by the University of Adelaide.

2.2.3 A short presentation

Updated standard presentation material will be kept available to all partners as a basis for incorporation into more detailed presentations or for use ad hoc at opportunities where the partners can present their on-going work.

The standard presentation was incorporated into oral presentations at a Biophotonics cluster meeting presentation and a photonics open day both held in Brussels in November 2010. It was also incorporated into presentations given at ‘Theranostics for personalised medicine’ (May 2011) and pHealth (June 2011).

2.2.4 A newsletter

An annual newsletter was created and distributed to the INTEREST GROUP in months M4 and M14. As well as a general introduction the latter (attached) contained achievements of Year 1,

UNITN and their porous silicon membrane development. Later newsletters are to follow in M24 and M36 (see also section 2.4.2.) focusing on key findings that are suitable for distribution.

2.3 Dissemination among other FP7 RTD projects

The consortium participants will disseminate to and cooperate with other FP7 RTD projects where possible. Contacts have been made and weblinks (http://www.fp7positive.eu/projects.html) are provided to the projects Europrevall, Ga2Len and Nanospad.

The consortium participants will cooperate with other FP7 RTD projects in the area of microsystems and photonics and will exchange non-confidential information with these projects particularly through the participation in periodic concertation meetings. This information exchange will occur in conjunction of meeting forums, such as concertation meetings, organized by the EU.

Table: Dissemination events to other FP7 RTD projects

Date	Event	Responsible Positive partner
Nov. 5th 2010	Biophotonics cluster meeting presentation	KTH
Nov. 10th 2010	Photonics Open Day	KTH
User Forum Newsletter 1	The Europrevall, Ga2LEN and SMARTHEALTH consortia	UVEG
January 2011	Interchange with coordinator of FP7 Mash project	UVEG
April 5th – 6th 2011 (planned)	EC MNBS Concertation meeting	UVEG
July 2011	UK FP7 ICT meeting	Farfield
July 2011	Silicon Photonics summer school (Poster) organized by FP7 HELIOS and UKSP.	UVEG

2.4 General publicity of the project

Further publicity will take place through the *dissemination of Positive research results to the non-scientific/technical media at large* (eg. newspapers, magazines, TV, periodicals) and raising of public awareness for the project and interest in photonic technologies at "student days", "open days", "girls days".

2.4.1 Press releases

Whenever a good opportunity presents itself, Positive will disseminate its results via the larger press. These opportunities will either be pursued actively, e.g. when critical results are being obtained, or will occur on an ad-hoc basis when the partners are contacted by the press in conjunction with the general research activities.

Table: planned press releases.

Date	Press release content	Responsible Positive partner
M4	Project start: http://www.kth.se/en/aktuellt/supersnabba-allergitest-snart-har-1.74636 http://www.kth.se/en/ees/omskolan/organisation/avdelningar/mst/news/quick-	KTH, with help from all

	food-allergy-test-just-a-drop-of-blood-1.73580	
M4	Project start in the Farfield Periodical NewsLetter, Illuminations 14: http://www.farfield-group.com/pdfs/Newsletter_Issue_14.pdf	Farfield
M5	Farfield Group Press release: Farfield Join Forces to Detect Hypersensitivity of Allergens http://www.farfield-group.com/readstory.asp?sid=113	Farfield
M7	Press release done through Euromediag diffusion list (http://www.eurobiomed.org/en/euromediag/) in which Phylogene is involved. Euromediag is a group of diagnostics actors inside Eurobiomed competitivity pole. Euromediag also initiated a EU meta-cluster which includes Euromediag (Eurobiomed-France), Wal-DX (Biowin-Belgium), Biocat (Barcelona, Spain), Kakow life Sciences cluster (Poland), Nexxus (Scotland-UK), OBN (Oxford, UK), Uppsala Bio (Uppsala - Sweden) and ZMDB (Berlin-Brandebourg - Germany).	Phylogene
M7	Press-release through Almanacco della Scienza (http://www.almanacco.rm.cnr.it/reader/?MIval=cw_usr_view_articolo.html&id_articolo=1753&id_rub=13&giornale=1760)	CNR
M21	Upon reaching M21 a press release announcing innovation to date within the project will be issued.	UVEG
M36	Upon reaching M36 a press release announcing innovation developed within the whole project will be issued.	UVEG

The press-release was quickly picked up by sources in Sweden and around the world, including:

- Swedish National Radio interviewed Prof. van der Wijngaart http://sverigesradio.se/sida/gruppsida.aspx?programid=406&grupp=12718&artikel=4290223
- Swedish National Television interviewed Prof. van der Wijngaart http://www.tv4play.se/nyheter_och_debatt/tv4nyheterna?title=blodchip_kan_avsloja_allergier&videoid=1215225
- An enquiry came from the Aftonbladet Swedish Tablet
- NYTEKNIK (the number one technology newspaper in Sweden) http://www.nyteknik.se/nyheter/innovation/forskning_utveckling/article3063070.ece
- An enquiry came from two Swedish highschool (natural da Vinci in the Kattegat High School in Halmstad) girls for a school assignment.
- The Illinois-Sweden Program for Educational and Research Exchange (INSPIRE) http://illinois.edu/lb/imageList/3833
- http://www.righthealth.com/topic/scratch_tests_allergy/BlogPosts
- Ann Göransson Nyberg, the project manager from EU project MASH ”Mass casualties and Health care following the release of toxic chemicals or radioactive material”.
- Per Matsson, Chief Technology Officer of Phadia AB and Associate Professor, Uppsala University
- Emelie Nyman, a freelance journalist, working for the Campus magazine that goes out to students across the country in engineering, economics and law. Contacted for article.
- A local newspaper in Trento published an article on consultation.

- Article in Italian national newspaper http://www.sanitaliaweb.it/index.php?option=com_content&view=article&id=542:progetto-positive-il-test-per-le-allergie-alimentari&catid=15:news-italia&Itemid=107
- Article in Italian Family Church Magazine
- Italian Television

2.4.2 The user forum

Positive identified an INTEREST GROUP to which promotional material was distributed at M4 and M14 in the form of annual newsletters (others to follow in M24, 36). The INTEREST GROUP is basically an email list that contains key players and experts from Industry (most of them from European companies), governmental agencies and academia.

The INTEREST GROUP currently consists of >150 entities. The first newsletter was distributed to this group at M4, the second in M14.

2.4.3 "Student days" and "Open days"

All partners were to identify a suitable event close to the M24 date in which they will disseminate the Positive project and its results to the broader public. Due to the lack of opportunities it was decided to hold events as and when they became available at each partner.

Table: Public events targeted for Positive dissemination

Date	Event	Responsible Positive partner
Planned	To be defined	KTH
May 2012	Expociencia 2012	UVEG
Planned	To be defined	Farfield
Planned	To be defined	Phylogene
Planned	To be defined	CNR
25 march 2011	Open day at Univ. of Trento. NL group disseminated POSITIVE related activities to undergraduate students that will visit the Nanoscience research group laboratories	UNITN
Planned	To be defined	CSEM
Planned	To be defined	C-UB

2.4.4 Other dissemination events

Date	Event	Responsible Positive partner
Sept 26th-30th 2010	PECs IX	KTH
May 2011	CLEO (Poster)	UNITN
May 30th-June 1st 2011	EuroNanoForum (Poster)	UVEG
July 2011	UK FP7 ICT meeting	Farfield

July 2011	Silicon Photonics summer school (Poster)	UVEG
August 2011	Nanophotonics for sensing & nonlinear optics workshop	UNITN

2.5 Communications to scientific journals and conferences/workshops

The project research results obtained will be either protected by patenting and/or published at international conferences, EU-workshops and refereed journals, such that dissemination activities to the scientific community and the European Diagnostics industry as follows:

- Publications in leading scientific and technical journals in the field
- Publications in leading international conferences.
- International exhibitions (usually co-located in major conferences).
- Concertation meetings and topical clusters.

2.5.1 Conference communications

- Poster presented at PECS IX "Simulation of porous silicon photonic crystals for biosensing". - UVEG, KTH
- Invited talk at Advances in microarray technology, “Silicon Chips with Dual Label-Free and Fluorescence Detection for High Sensitivity Diagnostic Protein Microarrays“ – CNR
- Invited talk at 26th International Symposium on MicroScale Bioseparations, “Silicon biochips for dual label-free and fluorescence detection: application to protein microarrays development.” – CNR
- Invited talk at Therapeutics for personalized medicine “Microfluidic and Sensor Technologies for Lab on a Chip Applications” – UVEG
- Invited talk at pHealth “The need for nutrition monitoring and Lab on a Chip based technologies as solutions” – UVEG
- Poster accepted for presentation at MicroTAS2011 “Biostickers: patterned microfluidic stickers for rapid integration with microarrays”. – KTH and CNR
- Poster accepted for presentation at MicroTAS2011 “Low temperature “click” wafer bonding of off-stoichiometry thiol-ene (OSTE) polymers to silicon”. – KTH
- Paper published in the Journal of Photonics and Nanostructures: Fundamentals and applications, doi:10.1016/j.photonics.2011.04.014 (2011), "Simulation of Surface-Modified Porous Silicon Photonic Crystals for biosensing applications." - UVEG and KTH
- Oral presentation accepted for Photonics West 2012 “Highly-Sensitive Anisotropic Porous Silicon based Optical Sensors” - UVEG
- Abstract accepted at MEMs 2012 “Dry transfer bonding of porous silicon membranes to OSTE(+) polymer microfluidic devices” – KTH and UNITN
- Paper published Journal BioNanoScience 2011, DOI: 10.1007/s12668-011-0026-1, "Nanophotonic and microfluidic technologies for Label Free Lab on Chip devices" - UVEG

2.5.2 Peer reviewed scientific publications

LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES								
NO.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages
1	Simulation of Surface-Modified Porous Silicon Photonic Crystals for biosensing applications	Issac Suarez	Photonics and Nanostructures - Fundamentals and Applications	Published	ELSEVIER	Amsterdam	2011	doi:10.1016/j.photonics.2011.04.014
2	Birefringent Porous Silicon Membranes for Optical Sensing	Jesús Álvarez	Optics Express	Under review	OSA	Washington	2011	Under review
3	Advances in nanophotonic sensing technologies during three international Label Free Lab-on-Chip projects	Daniel Hill	Journal of BioNanoScience	Published	ASP	Valencia, California	2011	**Doi: 10.1007/s12668-011-0026-1**

2.6 Internal dissemination

Since there will be a common knowledge basis on the critical issues, in order to greatly facilitate the final device integration the distribution of interdisciplinary knowledge will be encouraged. This will be done by taking advantage of the possibilities for internal dissemination such as introductory sessions for new PhD students and postdocs from the consortium partners at meetings and permitting short stays at one or two other partners. Most of the partners are already involved in EU networks of excellence where exchanges of students and postdocs take place. Furthermore, results will be used in educational activities such as courses, M.Sc. and Ph.D. projects. Previous participation in EU-projects has clearly shown that such participation enhances the quality of the educated candidates to world-class level.

Specifically we are planning a series of 60-90 minute lectures to be held at each consortium meetings. The lectures will contain a basic introduction in each of the many scientific and technical fields addressed within Positive. The target audience will be the Positive partners themselves AND interested researchers at the site of the meeting.

Table: Positive internal lectures (typ. 60 - 90 minutes)

Date	Lecture title	Positive partners
Sept 13 2010	Food allergies and currently available diagnostic tests	Kirsten Beyer, C-UB
Dec 02 2010	POROUS SILICON: From fundamentals to applications	Paolo Bettotti, UNITN
March. 24 2011	Photonic and plasmonic materials and their applications in sensing and photovoltaics	Juan Martinez Pastor, UVEG
Planned	To be defined	CNR
Planned	To be defined	Farfield
Planned	To be defined	CSEM
June 20 2011	OSTE in microfluidics	Tommy Harldsson, KTH
Planned	To be defined	Phylogene

2.7 Contributions to standards

Throughout the project where necessary the consortium will contribute to national and/or international standards.

2.8 Contribution to policy developments

In the eventuality that the project would have significant impacts on research or research-based policy development at regional, national or European level such details and policy process shall be detailed in the dissemination section of the periodic reports.

2.9 Risk assessment and related communication strategy

Any potential risks (real or perceived) for society/citizens associated with the project and the communication strategy adopted in this regard will be identified during the project and communicated to the corresponding group through the appropriate means.

3 Conclusions

Dissemination of public knowledge has been outlined and will be later updated at M24 and M36.

4 Near future planning/Future work

Dissemination of public knowledge will continue and the EC updated on this at M24 and M36.

5 Bibliography

None