Prosperity 4all

Ecosystem infrastructure for smart and personalised inclusion and PROSPERITY for ALL stakeholders

D405.1 Demonstration kit

Project Acronym	**Prosperity4All**
Grant Agreement number	**FP7-610510**
Deliverable number	**D405.1**
Work package number	**WP405**
Work package title	**Demonstration kit**
Authors	**Eleni Chalkia, Olga Gkaitatzi, Athina Dimou (CERTH/ HIT)**
Status	**Resubmitted**
Dissemination Level	**Public**
Delivery Date	**22/09/2017**
Number of Pages	**15**

Keyword List

Demonstration kit, Developers space, developers, accessibility.

Version History

Revision	Date	Author	Organisation	Description
1	23/03/2017	Eleni Chalkia	CERTH	1st version of the Deliverable sent to the coordination team.
2	29/03/2017	Eleni Chalkia	CERTH	2nd version of the Deliverable with the comments of the coordination team incorporated.
3	30/03/2017	Eleni Chalkia	CERTH	Final version of the Deliverable with the comments of the peer reviewers incorporated.
4	22/09/2017	Eleni Chalkia	CERTH	Updated based on the EU reviewers comments
Reviewers' Comments			Actions to meet the comment	
RC1: The Demonstration kit is not adequately described, it should include core components that convincingly attract attention of people even after the lifetime of the project (including videos, success stories). It should be considered as a marketing instrument.			Description of the roles of different potential users, when they interact with different core parts of DeveloperSpace are considered in the videos, in order to attract visitors after the end of the project. The videos are made short, simple and fancy so as to create convincing demonstrations suitable to engage users, developers, and implementers and clearly demonstrate the benefits of each of the use-cases evaluated during the project. They have been enriched with visuals and a harmonised 'look and feel' with the rest of videos and P4All dissemination material, in order to increase the commercial part of the project. In addition, potato chip videos of each demo video will be prepared for the final version of the Demo kit in order to enhance the commercialization process of the main outputs of the project. Furthermore, webinars and videos of SP3 implementers that are "good practices" of the overall P4All implementation have been realized and more of them will be realized by the end of the project (see Section 2). These webinars together with the "good practices" videos from SP3 implementers gather the experiences in using the DeveloperSpace during the project in order to make them more visible to future end-users.		
RC2: To be extended with 'upload' scenarios, demonstrating the full P4all vision and functional coverage (e.g., Unified Listing). Early feedback of stakeholders should be considered.			Different demo scenarios for each stakeholder type that demonstrate the full P4all vision and functional coverage, including the Unified Listing have been developed (See Section 3.2). The scenarios are developed using clear and short descriptions and explanations in order to serve as a marketing instrument of the project. Towards this purpose, each scenario clearly demonstrates the benefits of DeveloperSpace for the specific stakeholders group. Additionally, the updated scenarios are designed in order to demonstrate the full Prosperity4All and DeveloperSpace vision and functional coverage including for example the Unified Listing. These demo scenarios have been uploaded to the respective part of DeveloperSpace and they will be continuously improved and updated until the end of the project including videos with the success stories of SP3 implementations. Feedback from stakeholders and AAATE 2017 is considered from the final version of the Demo kit and each of its components.		
RC3: Hyperlink or URL missing on p.3 for the DeveloperSpace Demo kit.			The current URL is working and directs visitors to major parts of DeveloperSpace.		

Revision	Date	Author	Organisation	Description
RC4: For final release as a public deliverable, please correct multiple typos, syntax errors, and English usage.				The deliverable content has already been improved and have been checked for typos, errors and English usage for the final submission. Furhter check of the scenarios will be realized for the final Demo kit version.

Table of Contents

Ecosystem infrastructure for smart and personalised inclusion and PROSPERITY for ALL
stakeholders
www.prosperity4all.eu

Executive Summary

This Deliverable's scope is to present the status and the plans of the demonstration activities of Prosperity4all project, in the context of WP405 and specifically T405.1: "Demonstration plan". The Prosperity4all demonstration kit is a set of demo videos and this report is a document that accompanies it. The set of the demo videos include selected demonstrate the use of Developer Space and, in the final version, videos of SP3 implementations to act as examples and success stories of using the DeveloperSpace components. It is a set of self-contained videos that can, and already have been used both for presentations at conferences and fairs, as well as for distribution to interested entities. This Deliverable also outlines the scenarios for the final project demonstration kit; in particular the showcases to be described and launched. It contains a comprehensive description of the different demonstration elements of the Developer Space in different formats (potato chip, videos, demo videos and webinar videos) so as to cover the needs of all the stakeholders involved in Prosperity4all. All the videos are accessible and will be compiled in one DVD with a structured menu in order viewers to be able to select the ones they wish to view.

At the current version, we describe the objectives and scope that are covered by the development of the demonstration kit in Section 1.1. Additionally, what is included in the demonstration kit is presented and described with details in Section 2. In Section 3, the DeveloperSpace demo videos and are described together with the scenarios that have been formulated. Finally, since this is the middle step of the demonstration kit, the next steps-in order to reach the final version- are described in Section 4.

1   Contribution to the global architecture

1.1 Objectives and scope

This Deliverable's scope is to present the status and the plans of the demonstration activities of Prosperity4all project, as well as the scenarios for the final project demonstration kit. The Prosperity4all demonstration plan is defined in order to inform key stakeholders and attract interest from outside the project consortium. Additionally, at this stage of the project, given the nature of the deliverables, the challenge of integration and the need to make the community grow, the demonstration plan and the demonstration kit have been developed so as to be suitable to engage users, developers, and implementers. This can be achieved by creating a demonstration kit that includes a joint (overarching) video provides evidence concerning the quality of integration.

The plan aims to identify and bring forward Prosperity4all which lend themselves to be demonstrated to the public. The target audiences for demonstration include:
1. **Mainstream companies** seeking to build accessibility features into their products
2. **Assistive technology** companies
3. Individual **developers** of all types; students, researchers, hackers, and prosumers, etc.
4. **Consumers, clinicians and others who have intimate knowledge of the problems and constraints** needed to develop new solutions but may not have thought of themselves as developers, or have not had a venue to participate in the development process.
5. **Researchers**, algorithm specialists, and others who have specialized knowledge that could be of use in creating new types of solutions but who do not want to try to create entire solutions themselves.

Furthermore, the demonstration plan outlines various types of demo approaches and an initial schedule in order to optimally demonstrate the individual Prosperity4all SP2 & SP3 developments, as well as the fully integrated features of Prosperity4all. The purpose of showcasing Prosperity4all demos is to market the project, to spark discussions with interested parties, to recruit affiliates, and allow stakeholders to provide feedback and evaluate the various aspects of the project. Additionally, Prosperity4all demonstration kit has been updated so as to demonstrate the potential of GPII/ Prosperity4all/ DeveloperSpace in an easy and intuitive way and additionally, to clearly demonstrate the benefits to all stakeholders groups individually and holistically. Thus, the demonstration kit has been re-designed as a marketing instrument of the project outcomes in order to attract attention of people even after the lifetime of the project.

2   What is included in the demonstration kit

The 2nd ^{t} version of the Prosperity4all demonstration kit includes selected videos demonstrating the use of DeveloperSpace by different stakeholder groups. It is self-contained and can be used both for presentations at conferences and fairs as well as for distribution to interested entities.

The demonstration kit includes the following:

- **DeveloperSpace demo videos**

Six demo videos of 1 and a half minute each have been created. Each one corresponds to one stakeholders' group covering the needs of all the users of Prosperity4all. The DeveloperSpace demo videos are detailed in Section 3. These videos are produced in order to showcase the benefits of each of the use-cases evaluated during the project. These videos are put onto the DeveloperSpace, under the demos Section (https://ds.gpii.net/showcase/demos).

- **Potato chips demo videos**

Six really short demo videos of 15 seconds each will be created. Each one is an excerpt of the DeveloperSpace demo video and corresponds to each one of the stakeholders' group covering the needs of all the users of Prosperity4all. These potato chips demo videos will be developed to accompany the DeveloperSpace demo videos and to be a more portable version of them, since the demonstration kit has been designed as a marketing instrument. The aim will be to attract potential DeveloperSpace users and contributors without describing in detail the functions and parts of DeveloperSpace. Viewers can afterwards watch the longer demo videos to learn more about the different parts of DeveloperSpace.

The DeveloperSpace demo videos are detailed in Section 3. These videos are produced in order to showcase the benefits of each of the use-cases created within the project. These videos are available the DeveloperSpace, under the demos Section.

- **Webinar videos and integrated SP3 showcase**

During all the years of Prosperity4all a set of webinars have been realised and the related videos (i.e. edited and adapted recordings) are uploaded on the Prosperity4all web site (http://www.prosperity4all.eu/outcomes/training/webinars/). These webinars are the following.

- Virtual workshop Smart Homes and AAL applications (January 23rd, 2015)
- PEAT Talks: The Global Public Inclusive Infrastructure September 15th, 2016
- Integration of Alternative Input Modalities into Educational Apps (December 12th, 2016)
- Robobraille, converting files to alternate (accessible) formats (January 30th, 2017)
- AoD Plataform (March 22nd, 2017)
- Business Intelligence Suite (July 20th, 2017)

These webinars together with some "good practices" videos from SP3 implementers gather the experiences in using the DeveloperSpace during the project in order to make them more visible to future end-users. The good practices videos are the following.

- [Assistant on Demand platform module](1)[1]
- [Camera mouse module integration by Guadal and Lifetool](2)[2]
- [Camera mouse module integration in Guadalinfo (Ubuntu)](3)[3]
- [Flashwords game with Camera mouse module and Accelerometer sensor module integration](4)[4]
- [The Asterics Camera Mouse solution](5)[5]

In addition to these webinar videos, one holistic video will also be developed in order to showcase and demonstrate the integrated tool-chain for P4A with the SP3 implementers.

---

[1] https://www.youtube.com/watch?v=DXs_hnAUcGs&t=3s
[2] https://www.youtube.com/watch?v=o0BYMnerv1A&t=1s
[3] https://www.youtube.com/watch?v=of0643WQ85Q&t=1s
[4] https://www.youtube.com/watch?v=oD9PK0P9xd8&t=47s
[5] https://www.youtube.com/watch?v=8eKsY2Ztv14&t=29s

3　DeveloperSpace demo videos

3.1　DeveloperSpace demo description

The Prosperity4All DeveloperSpace demo videos are six demo videos of 1 and a half minute duration each one. Each one corresponds to one stakeholders' group covering the needs of all the users of Prosperity4all. The stakeholders that have been addressed are the following and for each one there was a specific pictogram used that has been used in all the Prosperity4All dissemination material.

- AT developer
- Researcher/ Teacher
- Mainstream Developer
- User
- Public/ Press/ Policy maker
- Web developer interested in accessibility

Figure 1: Stakeholders pictograms

A specific scenario for each stakeholder has been created and presented at the following Section. These specific scenarios are produced in order to showcase the benefits of each of the use-cases created within the project and are uploaded on the DeveloperSpace, under the demos Section (https://ds.gpii.net/showcase/demos). The scenarios are developed using clear and short descriptions and explanation in order to serve as a marketing instrument of the project. Towards this purpose, each scenario clearly demonstrates the benefits of DeveloperSpace for the specific stakeholders group. Additionally, the updated scenarios are designed in order to demonstrate the full Prosperity4All and DeveloperSpace vision and functional coverage including for example the Unified Listing.

The videos are made short, simple and fancy so as to create convincing demonstrations suitable to engage users, developers, and implementers and clearly demonstrate the benefits of each of the use-cases evaluated during the project.

3.2 DeveloperSpace demo Scenarios

In order to create a demonstration of the available functions of the DeveloperSpace, a scenario for each stakeholder has been developed.

3.2.1 1ˢᵗ Scenario

Stakeholders group: AT developer

James has developed a new assistive technology for an accessible mouse. He wants to figure out what the market is for it, who else has done something similar, the features of the competition etc. He also wants to be able to find out how to market his development. He heard about the GPII within the W3C Community Group and the help GPII provides developers in marketing their AT solutions as well as how to access markets throughout Europe.

He goes to the DeveloperSpace website and sees a section called "Key places for AT Developers", which is exactly what he needs. He clicks on it and is taken to a page that explains exactly where to look on the DeveloperSpace to find different resources specifically for Developers. On the list he spots the Accessibility MasterList, a directory of resources and techniques that will provide him with more information about how to make his solutions accessible to different groups of users. Here James finds a treasure trove of strategies covering all types of disabilities he has heard of and many more. He decides to use the MasterList to see if there's any techniques that he could be using in his product in order to make it more competitive in the market. The "Adjustable or Alternate Input Devices" Section looks especially useful to him. He reads all the sub-sections, focusing on the ones about the Mouse/ Pointer Settings.

Since James is really interested in his market competition and also wants to figure out what the market is for his product, he visits the "Market" Section and specifically the "Unified Listing" to search and find other products by other manufacturers. He searches for products related to accessible mouse. He finds a list of solutions there and he also checks out their features and descriptions to see if there are any features they have that he should also include in his product.

James is really happy with what he has discovered on the DeveloperSpace website. He can´t wait to go through all the information relevant to his solutions and update his other products accordingly.

3.2.2   2nd Scenario

Stakeholders group: Researcher/ Teacher/ Developer

Li is a PhD student that gets told by her advisor that there is a place called the the DeveloperSpace where she can look for thesis ideas.

She visits DeveloperSpace and, walking through the menus to explore it, finds it full of information of help to her. As a researcher what first captures her sight is the Bibliography section. This section will provide Li with a directory of essential accessibility resources on the web that she can visit to gather more ideas for her thesis. Since, she is more interested in the web accessibility and specifically to people who have visual impairments, she is happy to see that she can filter the bibliography to show only the results she is interested in. There she finds a link about Making Visual Maps Accessible to the Blind. "Wow, that could be a nice idea" she thinks. She directly downloads the links and starts reading the paper.

After the Bibliography, Li notices also the Accessibility MasterList, which she finds quite educational because it not only brings together all of the strategies for access, but also links to both products and research papers on the different areas. She finds a number of different papers that relate to things that interest her. While looking at the research she notices that it is missing one paper she knows of -- so she uses the comment field to leave a note to the DeveloperSpace curators to add that paper.

At this point she realizes that she is finding new things in places that she thought she had already looked, so she visits the "Key resources for Teacher-Researcher-Developers" and finds there's a page specifically for researchers like herself that includes all the issues that might be of her interest. There, she discovers that the Unified Listing page is also a top Resource for someone like her.

Thus, she heads to the Unified Listing. At first somewhat disappointed. There are many products that are for the same group she is designing for but there is very little in the particular area that she is interested in. On second consideration thought, she decides she's not disappointed but inspired since her work would be even more important and more helpful since there are not products that provide the functionality she is interested in researching and developing.

As she looks around more, she discovers the Challenges and Grand Challenges section of the site. This will be just perfect for her colleague who is still looking for a topic for his research.

3.2.3   3rd Scenario

Stakeholders group: Mainstream Developer

Karl works for the mainstream software company and has been charged with building accessibility into their product. He looks for expert advice on legal requirements and he is frustrated and not sure where to start from. He uses stackoverflow to find information and there he finds out about the GPII and its DeveloperSpace.

He visits the DeveloperSpace and he roots around on the site for a while. What he would like to find first of all are accessibility basics -- and then be able to check the existing markets and products. He tried checking out the Quicksheets to see if they will give him summaries in different areas. Indeed, he find the access essentials there, and finds it is a good way to start with the basics in a very concise manner.

After going through the access essentials, he goes back to the home page and sees that there is also a Tutorial Section that could be of help to him. He finds a number of resources there on building accessibility into a company's products! One example is the Floe Inclusive Learning Design Handbook (ILDH).

After reading the ILDH, Karl decides to navigate a bit more within the DeveloperSpace's Learn section.   In the Bibliography finds   a wide variety of resources about people with disabilities and accessibility. In the LEARN section he also finds Information about regulations and rules on accessibility - (the reason why their boss has suddenly asked him to tackle this project). This includes information on one of the laws his boss mentioned but also others that may apply to their products. This section also includes useful information on how to understand and meet these rules. Finally, also in the LEARN section, he finds the Accessibility MasterList, which is a goldmine for him. The MasterList provides, in a single location, all the different strategies that people have developed or discovered for making products more accessible. It also provides links to products that have implemented each of the techniques and research references for each technique.

3.2.4   4th Scenario

Stakeholders group: User

Olga is a curious and inventive user who is not a programmer but has lots of ideas for how other people ought to design assistive technologies, and features they should include. She actually has never heard of the DeveloperSpace but did hear about the Unified Listing as being the best place to find all of the different solutions that are available internationally. So she decided to Google it.

She finds the Unified Listing and uses it to look up her own assistive technology, a screen reader called NVDA. Using the simple search she finds NV ACCESS - NVDA and notices, that in addition to providing a description of her product, there is a place where she could leave feedback to the developers regarding new features that she would like to see. She fills this in. She also notices that there is a place where she can share tips and tricks for her product with other users, and she fills this in too. She sends them both off. She also rates the product and leaves a review about it.

The more she digs around in this DeveloperSpace the more interesting she finds it. Some of it is technical, and requires programming expertise to understand. But a lot of it that talks about what the needs are and the strategies for solving them. These are fascinating to her and open up all sorts of new ideas and possibilities for her. For example in the Bibliography Section, she finds a video on how the blind use technology to see the world. She also finds a MasterList, tutorials, quicksheets, and a place to pose challenges to developers. She has never seen a place that looked for, and welcomed, user who could describe problems and approaches to solutions without being programmers themselves.

3.2.5   5th Scenario

Stakeholders group: Public/ Press/ Policy

Judy is a reporter working on an in-depth article on the Internal Market and Consumer Protection (IMCO) committee of the European Parliament and is looking to understand the EC directive on the accessibility of public sector bodies' websites. She needs to understand the topic from both the legislative and the user side of the issue.

She hears about the DeveloperSpace from experts and she is told that this would be the place to start. She goes to the DeveloperSpace and right on the homepage she finds a link for Policy Makers, Press and Public. She ignores it for now and jumps right into the LEARN section of the site.

There she finds information on the different accessibility laws and regulations. She already has info on IMCO and the European directive. But the information on all the other countries' laws and regulations is a goldmine for her. Quickly she finds that she can find the regulations but she doesn't really understand the need that underlie them. The bibliography has tons of information - but like a Google search, it is too many documents without guidance as to the best place to start. She remember the link on the home page and gives it a try.

This provides links to many of the things she has already found -- but also points to two documents that really help. One is an ISO technical document that lists all of the accessibility needs for the different disability groups. Another is a chapter that provides linkage between the needs and the strategies used in the standards. She even finds an update that describes a new effort by the standards bodies to harmonize the European standards with US standards and incorporate mobile technology provisions. Finally, the bibliography lets her identify key experts for her to interview. This will help her add both context and depth she didn't think she could achieve both for her interviews and for her article.

3.2.6   6th Scenario

Stakeholders group: Web developers interested in accessibility

John is a typical freelancer web developer. His clients have started adding a new requirement to the sites he develops for them. They now want the sites to be accessible too. So now he has to find out as much as possible about web accessibility and quickly.

He searches Google and finds the WCAG guidelines but they are long and complicated and he doesn't know where to start. Looking one stop and web accessibility - he finds the DeveloperSpace.

On its homepage he finds a link specifically for people looking for information on making accessible websites. Following the link he finds a page with links to all of the resources he needs, both in the DeveloperSpace and all over the Web.

He finds basics on accessibility. He finds links to the Web Guidelines used in the US and internationally. He finds extensive documentation to help him understand them. He finds multiple sites that catalog different web accessibility testing tools - that together give him a comprehensive and continually updated list of tools. He finds web page components that allow him to conform more easily by just building the pages to diverse and powerful components that are already compatible with assistive technologies. He even finds something called UI Options that he can have installed on his clients pages along with a translate tool that together allow users to reconfigure pages to meet their specific needs and language. He can try them out right there on the DeveloperSpace pages and decides this will give him an extra edge in competing for work.

John is excited with his discoveries. He did not expect this to be that easy to find all the resources he needs. He cannot wait to show his new websites to his clients.

3.3   DeveloperSpace demonstration kit place

The DeveloperSpace demonstration kit is part of the DeveloperSpace showcases and can be reached through the DeveloperSpace website, available at https://ds.gpii.net/showcase/demos . Additionally, the SP2 tools demonstrations and SP3 webinars are part of the Prosperity4all YouTube channel, available at https://www.youtube.com/user/p4allvideos. .

4   Next steps

Prosperity4all demonstration kit will be finalised when both DeverloperSpace and UnifiedListing will be prepared after all changes, modifications and optimisations are implemented to DeveloperSpace and UnifiedListing based on final user testing results. Thus, even if the existing versions of the videos are already uploaded on the DeveloperSpace website, they are live documents and they keep on being updated until the end of the project. The final version of this deliverable will be updated to include all relevant descriptions, links to potato chips videos, SP3 implementations experience demo videos and lessons learnt from events and Open Days held the next two months of the project.

At the moment, we are in an intermediate version of the demonstration kit where we have included more complex scenarios of the DeveloperSpace, using personas as well as integrated possible scenarios from D203.1 Integrated Runtime Environment Use-Case Scenarios. Thus at the moment we have 6 demonstration videos, of 1 and a half minutes duration each, that correspond to the stakeholders of Prosperity4all. These videos have been shown to users in AAATE conference on September 2017 (http://www.aaate2017.eu/), where feedback has been gathered and will be taken into account for the next versions. The videos will also be shown in all Open Days that Prosperity4all will organize during the next months and feedback from the users will also be gathered.

Additionally, the final demonstration kit will include demonstrations from the use of most SP2 tools in SP3 implementations. In the end the Prosperity4all demonstration kit will start with a structural, menu, content and other major developments and implementations that will fit the general look and feel of the project dissemination material (see following figure).

Figure 2: Final demonstration kit a structural menu and content

The final demonstration kit will be a seamless toll every user can use in presentations at conferences and fairs in order to showcase P4A developments.

Annex I: Glossary

Abbreviation	Full form
API	Application Program Interface
AsteRICS	Assistive Technology Rapid Integration & Construction Set
AT	Assistive Technology
D	Deliverable
DS	DeveloperSpace
GPII	Global Public Inclusive Infrastructure
P4All	Prosperity4all
UI	User Interface
UX	User Experience
WP	Work Package