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Report on the first internal workshop

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ABSTRACT:

This deliverable is an educational event aimed at the attendees of the p-medicine consortium meeting in Month 39, demonstrating the functionality of the tools developed within the project plus equipping participants with product knowledge allowing them to promote the project's goods within the oncology community. The workshop was held as planned within the consortium meeting agenda, consisting of four talks involving tool demonstrations. E-learning materials are being produced from the event to extend the workshop's reach, in the form of a webcast. Promotional videos are also being produced from interviews carried out with various tool developers during the meeting.

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¹ R=Report, P=Prototype, D=Demonstrator, O=Other

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Contents

1	EXECUTIVE SUMMARY	5
2	INTRODUCTION	6
2.1.	<i>Workshop Aims</i>	6
2.2.	<i>P-medicine Ambassadors</i>	7
3	WORKSHOP PLANNING	7
3.1.	<i>Initial Phase</i>	7
3.2.	<i>Event Timing and Space</i>	7
3.3.	<i>Collaboration with WP15</i>	7
4	SYLLABUS DEVELOPMENT	8
4.1.	<i>Assessment of tool participation and suitability</i>	8
4.2.	<i>Training Methodology</i>	8
4.3.	<i>Proposed workshop equipment and details</i>	8
5	WORKSHOP IMPLEMENTATION	9
5.1.	<i>Content Development</i>	9
5.2.	<i>Syllabus Structure and Timeframe</i>	9
5.3.	<i>Educational Objectives</i>	9
5.4.	<i>Marketing</i>	11
5.5.	<i>Sustainable Learning</i>	11
5.6.	<i>Ensuring Educational Impact</i>	11
6	CONCLUSION.....	112
	APPENDIX 1 - ABBREVIATIONS AND ACRONYMS	13

1. Executive Summary

This document outlines the education strategy for the first internal training workshop of the p-medicine project. Here we give details of the overall aims of the workshop, steps taken to ensure its success, interactions with other project partners and Work Packages and our long term educational impact strategy.

The workshop aimed to educate project partners about a range of the tools created as part of the project, and create educational and promotional materials to sustain this long-term learning.

2. Introduction

The purpose of this document is to report the activities surrounding an educational workshop held as part of the P-medicine project, to fulfil e cancer's obligations towards Deliverable 16.3.

The audience of this event was primarily internal project members, plus some participants from the Linked2Safety project who attended the meeting on the day of workshop, on 2nd April 2014.

It was held in conjunction with the consortium meeting that take place in March-April 2014, as stipulated in Task 16.2 of the p-medicine description of work. All of this will be after the initial version of the workflow integration tools has been finalised, as mentioned in deliverable report D16.1.

2.1 Workshop Aims

The tools developed within the project will require wider education of an audience beyond their own developers, initially targeting the remainder of the p-medicine project partners. This is intended with two aims in mind (as partly stated in D16.1):

- To ensure understanding and proficiency for all project partners in all tools and services within p-medicine
- To help build a knowledge framework where partners are proficient 'p-medicine champions' in the wider scientific community
- To produce online materials enabling long-term learning by being available past the event itself, and enabling wider promotion. This is being achieved through:
 - Short promotional videos on individual tools
 - A longer educational webcast to promote learning around the event

In addition, we hoped that this workshop would act as a forum for both evaluation and validation of the p-medicine environment, which will involve collaboration with WP15.

2.2 P-medicine Ambassadors

We aimed to furnish the full complement of technical partners and other project members with both a good working knowledge of some of the most important tools developed within the project, plus a clear idea of these tools' roles and importance in terms of shaping future medical practise.

This will enable them to essentially market the tools and services developed within the project to both their colleagues and peers. Outside promotion of the project tools will help generate awareness and interest, thus increasing the likelihood that the goods and services produced by p-medicine will be successfully adopted by the oncology community.

e cancer will also use the online videos produced from the workshop to enable more individuals than just the workshop audience to create further 'P-medicine Ambassadors' and encourage discussion of the project tools.

3. Workshop Planning

3.1 Initial Phase

In order to shape the format of the education event, we liaised with senior project partners over the current suitability of the various tools and services currently in development for educational purposes. This was not only to ascertain which may benefit most from further awareness and promotion, but also which might be at a suitable stage in development.

Various tools were discussed as options, however the following tools were utilised in the final workshop:

- **ObTiMA**
- **Ontology Annotator**
- **ALGA questionnaire** (for patient empowerment)
- **Workbench**

3.2 Event Timing and Space

The consortium meeting was held at the Leibnizhaus building, belonging to the University of Hannover. The meeting venue was contacted to explore the various workspace options, in order to decide which option would be most compatible with the consortium meeting attendees.

A teleconference was also held with a senior p-medicine project partner to discuss event timing in relation to the consortium meeting, as there are three options available: holding the workshop prior to the consortium meeting, within the meeting (without being held concurrently to any p-medicine discussion) or directly afterwards.

After liaison with the meeting organisers, it was finally decided that the workshop could take place within the principal meeting room itself.

3.3 Collaboration with WP15

A teleconference was set up with project partners involved in WP15, as this WP involves evaluation and validation of the p-medicine environment. We discussed what requirements they would have in order to carry this out effectively.

Regular email correspondence was set up between ecancer and Fraunhofer IAIS. It was decided that a workshop would be held to try and test a set of the tools created as part of the P-medicine project. Equipment and room arrangements were made by ecancer and support offered throughout the workshop.

This was carried out successfully during the second and third day of the meeting, with 11 usability tests carried out of four prototypes.

4. Syllabus Development

4.1 Assessment of tool participation and suitability

A series of teleconferences were held with the various tool developers as listed in section 3.1. These initial discussions were intended to scope out whether the tool developers felt that their product was ready for wider education, and assess their ability to participate.

The tool developers of ObTiMA (USAAR), Ontology Annotator (UPM), the ALGA questionnaire and Workbench (FORTH) all expressed high levels of interest and current tool suitability for participation in the educational workshop.

4.2 Training Methodology

The methodology employed in the workshop to train project partners in the benefits of the various tools presented took the form of Powerpoint presentations, plus live-action demonstrations of tool usage. In addition, paper hand-outs were provided.

To fully capture the information given at the event and prolong its long-term use, the whole event was filmed, and will be created into an educational resource in the form of a webcast to be hosted on ecancer.org.

In addition to filming the whole event, ecancer filmed interviews with a number of tool developers with a view to creating promotional videos on individual tools. In order to make this process as easy as possible for project members attending the meeting, we filmed in a room within the Leibnizhaus booked especially for this purpose.

These videos are likely to be composed of a mixture of interview footage and screencasts of the tools in question, combined with voiceovers, to create a strong promotional resource with which to extend the reach of the project.

In addition to the workshop demonstrators, the tool developer for the Binding Affinity Calculator (UCL) was interviewed and also the P-Medicine security and pseudonymisation solution (Custodix) partners requested to be involved in the creation of a video.

4.3 Workshop equipment and details

Other initial details to help form the shape of the event were discussed, such as equipment required, proposed timescales and other input required.

Equipment constitute a single laptop and projector, which were supplied by the University of Hannover as part of the consortium meeting.

Due to time constraints within the agenda, each talk was scheduled to take no longer than 25 minutes each, with 5 minutes for questions.

5. Workshop Implementation

5.1 Content Development

The following three areas were addressed in order to create an exemplary educational event and maximise benefit to the aims of the p-medicine project:

1. Syllabus content and timeframe
2. Marketing
3. Long-term, sustainable learning

5.2 Syllabus Structure and Timeframe

The workshop took place over the course of a single afternoon on 2nd April 2014, embedded within the timeframe of the consortium meeting.

Time	Activity
2.00pm – 2.25pm	ObTiMA
2.30pm – 2.55pm	Ontology Annotator
3.00pm – 3.25pm	ALGA questionnaire
3.30pm – 3.55pm	Workbench
<i>(5 minutes given in between each session for questions and changeovers)</i>	

5.3 Educational Objectives

Each tool demonstrator was asked to put together a set of educational objectives prior to the workshop, to be clear about what they hoped the audience would learn:

ObTiMA

- First, after the presentation the listener should be able to set up a trial and create the case report forms to collect patient data
- Second, they should be able to run the just created trial and collect patient data based on the mentioned forms

Ontology Annotator

- RDF and semantic integration technologies basics
- Basic Ontology Annotator usage
- Ontology Annotator assistant module

Session structure:**Introduction:**

- What does the Ontology Annotator provide?
- Who should use the Ontology Annotator?

Basic technologies comprehension

- RDF: basic concepts, representation of data
- Database integration technologies: basic concepts, semantic equivalences
- RDF-view based semantic equivalences: structure, examples

The Ontology Annotator tool

- Interface overview: project creation/loading/edition, arrangement of elements in the main screen
- Annotation procedure: use case with a sample database

The Ontology Annotator assistant module

- Auto-generation approach: tasks performed automatically by the system
- Interface overview: arrangement of elements, available user actions
- Use case with a sample database

ALGA-C

- How the ALGA-C questionnaire tool can be used to collect patient information regarding various psychological and psycho-cognitive aspects.
- How the ALGA-C profiler tool can be used by the clinician to extract patient psychological profiles based on the ALGA-C questionnaire data that will enhance the patient-clinician interaction.

Workbench

During the training session for “Workbench” we plan to give an overview of what Workbench is about and a detailed description of possible uses of Workbench. The presentation will have a form of a tutorial while describing specific use cases.

Session structure:

Brief introduction explaining the main idea behind the tool Workbench.

- The vision of Workbench will be given.

Description of target group of end users.

- We give a description of possible end users and how the tool has been formed based on each user group.

General description of the main parts and functionalities of Workbench.

- An overview of the main view of Workbench and the main parts.

More detailed description of each functionality.

- Each functionality of the tool will be explained and demonstrated based on examples.

Real-time examples / demo

- Screenshots and/or real-time demo will be used while each action will be described.

5.4 Marketing

As the event will be attached to the consortium meeting, we hope to maximise participation and therefore impact. Awareness of the event was raised via email bulletins distributed by project leaders, plus a workshop event was created on the P-medicine project intranet.

5.5 Sustainable Learning

We aim to ensure that long-term learning is achieved by a number of means:

- Supply of printed hand-outs to attendees.
- Each element of the workshop was filmed with the intention of creating a webcast, ensuring an easily accessible educational resource for both internal project participants and non-participants.
- The final webcast plus the promotional videos will be placed on ecancer.org, the project website plus other platforms such as YouTube.

5.5 Ensuring Educational Impact

While the workshop was important and delivered to an engaged audience, there were only a limited number of individuals in attendance.

The true educational value of the event and the content developed will be determined by the quality and engagement with the online resources that will reach a much larger audience.

The impact of these resources will be measured by asking learners to reflect on their learning and show awareness of improved knowledge. These learners will then be contacted one and three months after completing the educational resources to evaluate whether their improved awareness has been sustained. Additional educational resources are offered at this point if the learners feel as though they feel they need to refresh their knowledge.

6. Conclusion

The internal training workshop was given in conjunction with p-medicine's consortium meeting in 31st March to 2nd April 2014.

Appropriate steps were taken with regards to building a suitable syllabus and timescale for the event. Full support was offered to the tool demonstrators throughout the organisation of the workshop. The event was publicised to the project consortium well before it took place and reminders sent out to ensure participation.

Approximately 20 people attended the workshop itself, including the tool demonstrators themselves, and the reach of the talks will be increased by both a webcast and a set of promotional videos which will be promoted through appropriate channels, such the P-medicine project website and YouTube. Many of these were consortium members, with additional members of the Linked2Safety project.

Appendix 1 - Abbreviations and acronyms

<i>ObTiMA</i>	Ontology-based clinical Trial Management Application
<i>FORTH</i>	Foundation for Research and Technology-Hellas
<i>RDF</i>	Resource Description Framework
<i>SOA</i>	Service Oriented Architecture
<i>UCL</i>	University College London
<i>UPM</i>	Universidad Politécnica de Madrid
<i>USAAR</i>	Universität des Saarlandes