



ESLOVENIA

La facultad de ingeniería eléctrica ciencias computacionales de una universidad eslovena busca socios para llevar a cabo el proyecto DIMOH: Developing intelligent, patient context sensitive mobile health co-production system, con el objetivo de crear un portal interactivo sobre salud enfocado a los pacientes.

Buscan tanto socios como coordinador con experiencia en eHealth o mHealth, vida saludable o enfermedades crónicas.

Developing intelligent, patient context sensitive mobile health co-production system DIMOH

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PROJECT OVERVIEW

PS ID: PS-SI-90041

Status: Open

Date of last Modification: 21/03/2014

Date of Publication: 21/03/2014

Call Identifier: H2020-HEALTH-PHC-2014/2015

Objective: [PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth](#)

Funding Schemes: [Research & Innovation Actions](#)

Evaluation Scheme: [One stage](#)

Closure Date: 15/04/2014

Various changes in health care systems like changing government's role in financing, service provision, changed regulation, new health doctrines, demographic changes (increased number of elderly people with chronic and other diseases and reduced functionality, reduced birth rate due to birth and infertility problems, increased number of divorces, changing family structure, migration etc.), environmental changes, fast pace of life (which is closely linked with maximizing profits and focused on obtaining material goods), physical inactivity, substance abuse, unhealthy diets, etc they all have negative effect on lifestyles and health status of entire populations as well as individuals. This negative impact is causing a large increase in number of chronic or 'non-communicable diseases' In Slovenia including high blood pressure, cardiovascular diseases, tobacco addiction, high blood cholesterol, diabetes II, obesity, dementia, tobacco- and nutrition-induced cancers, chronic bronchitis, emphysema, renal failure, kidney disease, osteoporosis, osteoarthritis, etc. The Global Burden of Disease (WHO; 2005) reports that 52% of all deaths could be attributed to chronic diseases, and it is estimated that, that percentage is very similar in Europe. In the manner to ensure the prevention and management of chronic diseases and taking account of all above mentioned facts it is necessary to ensure conditions which will (1) allow individuals to coproduce and self-manage their health and healthy life style (2) reduce the health systems costs and overload and consequently and (3) provide personalised (capturing gender, age, job, social status dependent differences in health, behaviour and ability and access to handling of health management devices) but equal and democratic



access to the health system services for all. The previous proposition is based on a premise that there is growing interest of citizen participation within all areas of public health and social care sector service development, and this movement is increasingly promoted as a significant strand of a post liberal policy concerned with re-imagining citizenship and more participatory forms of citizen/consumer engagement (Dunston, Lee, Boud, Brodie, Chiarelly, 2008). Additionally, Giddens (2003) describe co-production as a process of collaboration between the state and the citizen in the production of socially desirable outcomes. Before that Yeatman (1994, 1998) used the term co-production, in the context of her reviews of home and community care and disability services, as a way of reconceptualising the nature of human services and the contribution of all participants. Much of the thinking informing such an idea of co-production has been emerging as an approach to service and outcomes development that locates citizens (consumers) alongside traditional service providers as necessary, expert and generative co-participants and co-partners (Ostrom 1996; Alford 1998; Leadbeater 2004; Bovaird 2007).

PROJECT DESCRIPTION

Proposal Outline:

Based on the idea of people empowered health which recognises “patients as assets, with insights and skills to contribute” the health coproduction and self-management in our approach is operatively defined as the “active participation of people in their own health care and healthy life style behaviour by using the information and communication technology (ICT) in the manner to self-manage their health and healthy life style”. Patients take more control of their care/self - care they either receive or provide for themselves and their family members. In this paradigm health professionals become facilitators rather than deliverers of services and ICT experts become the providers of ICT supported health coproduction services. To support the introduction of the health coproduction paradigm we will develop an mobile intelligent health coproduction portal (mIHCP), which will enable target group members to improve and maintain healthy life style and health status, prevent and self - manage chronic diseases, and to seek medical assistance only if it is really important. This will in long turn solve the problem with long waiting list for various health procedures and services on one hand, and on the other hand reduce the number of unnecessary medical treatments and establish effective, cheaper and more consumer friendly patient centred health care systems. The mIHCP will among others offer following services:

- Establishing a personal health record (e.g. chronic diseases, , healthy and unhealthy life style behaviours, risk factors, personal preferences, activity, hobbies, sleep patterns, etc.),
- Health status self assessment/management using of various sensor devices, quantified- self measurements, ubiquitous ICT, etc.
- self – management/prevention of chronic diseases (i.e. diabetes, cardiovascular diseases, depression, dementia, obesity) and healthy life style (i.e. substance abuse)
- User friendly access to eHealth services
- Early recognition of diseases
- Population health status pattern and trends recognition



- Preventive health improving game playing (mental and physical games i. e. Using Kinect and brain sensors)
- LEGO system approach to personalize the portal with custom build tools developed by the user or ICT experts

It will be implemented using HTML5, CSS3 and JavaScript technology to ensure cross platform compatibility, and to deliver simple, user friendly and rich and interactive experience based on real user needs (participative design will be employed). HCP will include an intelligent tutor which will be actualized in the form of animated assistants, customized according to target group members individual needs, offering support, tutorials and feature presentations in the form of simple animated tasks and instructions. The tutor will be integrated with a »New things learning motivator« and »Learning To learn tool«. Some of the long term effects of the project are

- Patient oriented, more optimised and efficient/effective health care and systems
- Improve the health status, life style, active aging and well being of whole populations
- To empower citizens to use modern personal health technology and science to become co-producers of their health
- To reduce the health risks and hazards for citizens from selected target groups
- To empower health professionals to (1) how to coproduce their health and manage stress and as a consequence reduce the number of professional mistakes (2) to teach and promote health coproduction and people empowered health,
- User friendly and simple establishment of individualised but standardised personal health record
- Improved patient safety
- Less chronic diseases and drug and alcohol addicted patients

Keywords:

[health coproduction](#)

[mHealth](#)

[self managemnt of health](#)

[disease prevention](#)

PARTNER PROFILE SOUGHT

Required skills and Expertise:

Expertise in mHealth

Expertise in people empowered health and health coproduction

Expertise in health assessment devices and software

Expertise in management of EU projects

Expertise in chronic diseases, healthy life style

Description of work to be carried out by the partner(s) sought:

Coordinate the Project

Contribute to the software development

Contribute to user needs elicition

Sensor development and employment



Type of partner(s) sought:

Universities

Health institutions

Research centers

SMEs

Large enterprises

Looking for a Coordinator for your proposal:

Yes

PROPOSER INFORMATION

Organisation:Faculty of Electrical Engineering and Computer Science

Department:Laboratory for system design

Type of Organisation:

University

Country:

Slovenia

Plazo Presentación Expresiones Interés: 15 de abril de 2014.

Más Información: [Página web.](#)