

2nd Danube eRegion Conference – DeRC 2012

Grand Hotel Union Ljubljana, Slovenia, Monday - Tuesday, September 24-25, 2012

<http://eLivingLab.org/CrossBordereRegion/DeRC2012>

Cross-border eSolution/eService Prototype Development

Prototype title: A new concept of open source radiological station completely multi-touch

Short description of the prototype (problem to be solved, expected benefits, main stakeholders, expansion opportunities, related EU projects, references):

Radiology specialty requires high technology solutions for treating and processing medical images. Unfortunately, even though the software have been improved during the last years, hardware is still based on desktop machine, with human interaction using keyboard and mouse. The prototype should fill this gap and propose a new way of managing images only with gesture on a multi-touch screen monitor, avoiding usage of keyboard and mouse. This will improve the user experience in terms of usability, speediness and safety. The user does not need to move its head from keyboard to the screen but will remain concentrated on the image, interacting with it only by means of its hands. The main stakeholder of this technology will be radiologists, cardiologists and specialists from nuclear medicine. Since a strong 3D module will be developed, the same workstation might be used for virtual autopsy.

The product will be presented to the market as an Open Source.

ICT requirements for the prototype deployment:

The prototype will be developed in Java technology and it will be necessary to interface the application to some multi-touch libraries. In addition there will be an important phase for designing the workstation in terms of position of monitors, usability and safety, in particular regarding national and international legislation on workplace.

Strong knowledge of VTK is needed for 3D application

Proposer (contact person)

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Existing partners (representative, position, organization, country):

O3 Enterprise srl (Italy)
IRCCS Burlo Garofolo (Children Hospital), Trieste (Italy)
University Hospital of Trieste "Ospedali Riuniti di Trieste" (Italy)

What type of partners are we looking for?

Hardware partners expert in multi-touch technologies
Software partners expert in VTK
Software partners expert in Java applied to clinical data management

To be emailed as soon as possible and not later than Thursday, July 26, 2012 to Alenka.Slabajna@JAPTI.si
Public Agency of the Republic of Slovenia for Entrepreneurship and Foreign Investments