

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 DICOM archive (PACS, Picture Archiving & Communication in Medicine) for anatomo-pathology images

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

In the last years the digitalization of anatomo pathology images has spread across health institutions. Unfortunately there are some issues related to a complete informatics workflow. First the images are very wide and their size is enormous. This lead to a new way of managing them using streaming or tiled approach. The second is a lack of standard for the output of digital microscopes that causes difficulties in integration. Since 2011 the DICOM standard has being extended for treating those kind of data, letting to stream or tile the images. In the market there is still a lack of PACSes capable of managing this DICOM extension.

The proposed prototype will be developed starting from O3-DPACS, an open source PACS that is tailored for radiological images. The goal is to add this new interface in order to offer a good solution for anatomo-pathology images.

The main stakeholder will be medical doctors and hospital in general.

The expansion opportunities are huge because the market in the following years will require this kind of solutions.

ICT requirements for the prototype deployment:

The prototype will be developed in Java technology and it will be necessary to interface the application to O3-DPACS, an Open source PACS system. A strong knowledge of standards is needed and even in streaming or tiling techniques.

Proposer (contact person)

Name, family name	Agostino	Accardo	Position	Research Assistant
Organization	University of Trieste			
Postal address	Dept. of Engineering and Architecture-University of Trieste, Via Valerio 10, I-34127 Trieste			
Country	Italy			
Email address	accardo@units.it		Web address	
	http://www.units.it/persona/index.php/from/abook/persona/3308			
Telephone	+39.040.5587148	Mobile +39.3409364670		

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

O3 Enterprise srl (Italy)

Medical Informatics laboratory, University of Udine (Italy)

What type of partners are we looking for?

Medical doctors interested in testing and contributing the prototype

Software partners expert in Streaming

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