

The **Software Engineering and Internet Technologies Laboratory** (SEIT) focuses its research activities on two important areas of Information Technology, namely Software Engineering and Internet Technologies. In the first area, SEIT concentrates on the development of Component-Based Systems, Software Architectures and Architecture Description Languages, Middleware Platforms and software for embedded systems. In the second area, the Laboratory concentrates on XML technologies, Multimedia Frameworks, Cooperative Information Systems, Mobile Computing, Open and Distance Learning, E-Commerce, e-Health, Web Services, and Service Oriented Computing.

SEIT was actively involved in the 5th, 6th and 7th Framework, where it participated in multiple EU and nationally funded projects. SEIT has attracted more than 4.3m EURO in funding.

The Laboratory has also been involved in other EU funded initiatives, notably ESIS (European Survey in Information Society, <http://europa.eu.int/ISPO/esis/default.htm>), but also the Leonardo Da Vinci (<http://europa.eu.int/comm/education/leonardo.html>) framework on Vocational Training.

The Laboratory currently occupies 10 personnel, including 4 post doctoral scientists and 4 postgraduate ones. The Laboratory has access to extensive hardware and software facilities that include middleware and GRID platforms, multimedia and teleconferencing environments, and parallel, distributed and mobile languages.

### Participation in the FP7 Funding Initiatives

The Laboratory is strongly interested in participating in proposals for Integrated Projects, Networks of Excellence but also Traditional Instruments, in the following Objectives:

The network of the future, Service and software architectures, infrastructures and engineering, ICT in support of the networked enterprise, Secure, dependable and trusted infrastructures, Embedded systems design, Networked embedded and control systems, Digital libraries and technology-enhanced learning, Personal health systems and point-of-care diagnostics, Advanced ICT for risk assessment and patient safety, ICT and ageing, and Accessible and inclusive ICT.

SOFTWARE ENGINEERING AND  
INTERNET TECHNOLOGIES  
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## SOME PROJECTS IN WHICH SEIT HAS BEEN INVOLVED RECENTLY



AVICENNA ([avicenna.unesco.org](http://avicenna.unesco.org)), an Open and Distance Learning project on the development of a Virtual Open University.



MADAM ([www.ist-madam.org](http://www.ist-madam.org)), a software engineering project on the development of a middleware platform for mobile adaptable applications.



BETSY ([www.betsy-project.org](http://www.betsy-project.org)), an embedded systems project on delivering video streams to handheld devices.



MEDFORIST ([www.medforist.org](http://www.medforist.org)), an E-commerce project on the development of related training material for professionals along with an associated e-Learning platform.



BIOGRID ([www.biogrid.net](http://www.biogrid.net)), a GRIDrelated project on the interaction of different platforms using biological data.



MEDICATE ([www.medicare-online.org](http://www.medicare-online.org)), a telemedicine project on the development of a monitoring platform for home patients.



CBSNET ([www.cbsenet.org](http://www.cbsenet.org)), a network of organizations promoting component-based technologies.



MVU ([www.med-vu.org](http://www.med-vu.org)), an Open and Distance Learning project on the development of an e-course on Information Technology



EPRI-start ([www.epri-start.org](http://www.epri-start.org)) aims to stimulate the participation of small and medium enterprises from all ten New Member States of the European Union in the European Union's IST Programme.



MUSIC ([www.ist-music.eu](http://www.ist-music.eu)), develops open-source software to facilitate self-adapting applications in highly dynamic user and execution contexts



GENESTREAM ([www.semlab.nl/projects/genestream.jsp](http://www.semlab.nl/projects/genestream.jsp)), a bioinformatics project on the use of XML for the classification of biological data.



QCCS ([www.qccs.org](http://www.qccs.org)), a componentbased software engineering project on the use of Aspect Oriented Programming for developing component-based systems.



HealthService24 ([www.healthservice24.com](http://www.healthservice24.com)) – Continuous Mobile Services for Healthcare aims at realizing the mobile health dream by an integrated mobile health service supporting patients and health care professionals mobility.



Regions for Better BroadBand Connection ([www.b3regions.eu](http://www.b3regions.eu)) innovative project aims to tackle the difficulties of implementing broadband connections in remote or disadvantaged areas.



idSpace ([www.idspace-project.org](http://www.idspace-project.org)) will be a responsive web-based environment which will offer an integrated suite of knowledge eliciting and sharing tools, and create a collective, sharable memory of the entire design process.



UNITE ([www.unite-ist.org](http://www.unite-ist.org)) is an IST project developing a pedagogical framework which exploits the potential of new technologies to foster enquiry/discovery learning, and support collaborative and autonomous learning environments.



AsTeRICS (<http://www.asterics.eu>) will provide a flexible and affordable construction set for realizing user driven AT by combining emerging sensor techniques like BCI and computer vision with basic actuators.



The COIN IP (<http://www.coin-ip.eu>) aims to research, develop and prototype an open service platform comprised of enterprise Collaboration and enterprise INteroperability services. The Connected Vitality Personal



The Connected Vitality Personal Telepresence Network (<http://www.connectedvitality.eu>) aims to provide a video based communications network to link groups of senior citizens through activities of shared interest.