

## Lab Director:

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The Software Engineering and Internet Technologies (SEIT) Laboratory focuses its research activities on two important areas of Information Technology, namely Software Engineering and Internet Technologies. In the first area, SEIT focuses on Cloud Computing, Service Oriented Architectures, Context-Aware Middleware Platforms and Smart and Mobile Computing for the development of pervasive, self-adaptive applications and Smart IoT services. In the second area, the Laboratory concentrates on the development of ICT-enabled Environments, platforms and tools for implementing Health monitoring and support services, Smart and Personalised services for Elders, Assistive Technologies for people with disabilities and Creativity services. The lab also pursues activities related to Technology Enhanced Learning, E-Business, E-Government and developing environments for elders' social inclusion, active ageing and independent living. Finally, the lab's research is also related to Creativity, Recommender Systems and Crowd Sourcing.

SEIT is actively involved in the H2020, 5th, 6th and 7th Framework, where it participated in multiple EU funded projects and attracted more than €5M in funding. The Laboratory has also been involved in national projects and other EU funded initiatives, notably AAL (Ambient Assisted Living), ESIS (European Survey in Information Society), but also the Leonardo Da Vinci framework on Vocational Training. The Laboratory currently occupies 9 personnel, including 4 post-doctoral scientists and 3 postgraduate ones. The Laboratory has access to extensive hardware and software facilities that include cloud, middleware and GRID platforms, multimedia and teleconferencing environments.

## Participation in EU Funding Initiatives

The Laboratory is strongly interested in participating in proposals in the following topics of the H2020 Work Programme 2017.

- ICT-11-2017: Collective Awareness Platforms for Sustainability and Social Innovation
- ICT-16-2017: Big data PPP: research addressing main technology challenges of the data economy.
- ICT-20-2017: Tools for smart digital content in the creative industries
- ICT-23-2017: Interfaces for accessibility
- ICT-32-2017: Startup Europe for Growth and Innovation Radar
- ICT-33-2017 Innovation procurement networks
- ICT-39-2016-2017: International partnership building in low and middle income countries
- EUB-01-2017 Cloud Computing
- EINFRA-21-2017: Platform-driven e-infrastructure innovation
- SC1-PM-15-2017: Personalised coaching for well-being and care of people as they age
- CO-CREATION-04-2017: Applied co-creation to deliver public services
- REV-INEQUAL-09-2017: Boosting inclusiveness of ICT-enabled research and innovation
- IoT-03-2017: R&I on IoT integration and platforms
- SCC-1-2016-2017 Smart Cities and Communities lighthouse projects

## PROJECTS IN WHICH SEIT HAS BEEN INVOLVED RECENTLY

#SCICHALLENGE  
INSPIRE . CONTRIBUTE . SHARE



**SCICHALLENGE HORIZON 2020:** The SCICHALLENGE project focuses on developing novel concepts to actively integrate young people in science education using a contest-based approach to self-produced digital education materials from young people for young people.



**PaaSAGE EU FP7** project aims at creating a platform and a methodology for helping software engineers creating new applications and migrating old applications that can run on multiple Cloud platforms.



**Prosperity4all EU FP7** focuses on developing the infrastructure to allow a new ecosystem to grow and create a robust cross-platform spectrum of mainstream and assistive technology based access solutions required.



**VeLoCiTy Erasmus+ (SEIT Lab Coordinator):** The proposed project deals with the problem to find a job in another country which is derived from culture and ethnic differences. The main goal is to eliminate any barriers, providing equal opportunities to remotely attend a series of consulting courses through an innovative platform, and therefore facilitating the transition to world of work.



**World-of-PhysicsErasmus+ (SEIT Lab Coordinator):** The World-of-Physics Erasmus+ project aims to assist students in studying the physics domain with the utilization of innovative technologies like virtual reality.



**VALS** will define sustainable processes to build knowledge partnerships between Higher Education (HE) and companies to collaborate on resolving real business problems through open innovation mediated by the use of Open Source Software (OSS).



**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.



**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.



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



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



**HealthService24** – 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.



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



**EPRI-start** ([www.epristart.org](http://www.epristart.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.



**V-ALERT** aims at providing enterprises employees and ICT users with an immersive, cost-effective and innovative virtual learning environment that will fully support life-long learning in Information Security principles.



**Innofun's** aims at a methodology and digital tool, whose task is to improve regional policies concerning innovation funding, to achieve the goal of making the selection criteria flexible and reducing the communication gap between innovation and finance/market/people.



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



**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.



**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.



**B3Regions** ([www.b3regions.eu](http://www.b3regions.eu)) innovative project aims to tackle the difficulties of implementing broadband connections in remote or disadvantaged areas.



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



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



**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.



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



**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 component-based software engineering project on the use of Aspect Oriented Programming for developing component-based systems.



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



**BETTY** action will use behavioural type theory as the basis for new foundations, programming languages, and software development methods for communication-intensive distributed systems.