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## **Research Profile of the Mobile Devices Laboratory**

The Mobile Devices Laboratory (MDL) focuses its activities on two dimensions: applied (industrial) research and scientific research. In the former, it focuses on working in collaboration with the industry on projects, for developing innovative native applications, as well as Web-based and Mobile Computing Systems. MDL is co-sponsored by Microsoft Cyprus and Frederick University, and it is also supported by Cyprus Telecommunications Authority (CYTA). The lab has formed collaborations and obtained sponsorships from several industrial companies. In the latter dimension, MDL focuses on scientific research on Web and Mobile Computing and Data Management systems that exploit Cloud technologies. The emphasis is on Smart, Mobile and Natural Interaction Devices, including system on chip, sensors and actuators, for the development of smart and cloud-enabled applications.

## **Participation in EU and National Research Projects**

The MDL **personnel** are actively involved in the 6<sup>th</sup>, 7<sup>th</sup> Framework, Erasmus+ and Erasmus Mundus EU funded projects. MDL currently employs 5 personnel, including 4 lecturers and 1 lab research assistant. The Laboratory also employs in industrial and research projects 2 post-graduates and 2 undergraduates. The Laboratory has access to extensive hardware and software facilities that include 40+ smartphone devices and tablets, 10+ microprocessors, cloud, middleware and GRID platforms, multimedia and teleconferencing environments.

## Participation in EU H2020 Funding Programmes

The MDL Laboratory is strongly interested in participating in proposals in the following topics of the **H2020 Work Programme 2016-2017**.

- ICT-01-2016: Smart Cyber-Physical Systems
- ICT-03-2016: SSI Smart System Integration
- ICT-04-2017: Smart Anything Everywhere Initiative
- ICT-06-2016: Cloud Computing
- ICT-10-2016: Software Technologies
- ICT-11-2017: Collective Awareness Platforms for Sustainability and Social Innovation

## **Industrial Competitions and Initiatives**

The MDL Laboratory secured various industrial grants and sponsorships, such as the Microsoft Open Government Data Initiative Grant. In the past years, the MDL boasts several distinctions:

- Microsoft Open Government Data Grant.
  - Development of the first Open Data Cloud Infrastructure in Cyprus.
- World Finalist of the Microsoft Imagine Cup Competition, Seattle, USA 2015.
  - Smart Ecological Cultivation System.
- Winner of Microsoft Imagine Cup competition (category World Citizenship), Cyprus, 2015.
  - Smart Ecological Cultivation System.
- Winner of the Microsoft Hackathon Competition, Cyprus, 2015.
  - Smart and Cloud-based Crowd Control.
- Winner of the online competition Best migration from Windows Phone to Windows 8 applications, 2013.
  - o 3D Racing Game
- Winner of the Cyprus Hackathon Competition, Cyprus, 2012.
  - Augmented Reality Educational Point of Interest.

# **Participation in other EU Funding Programmes**

The MDL Laboratory is strongly interested in participating in proposals in the following topics of the **Erasmus+ 2016**.

- Key action 1 Mobility of individuals.
- Key action 2 Cooperation for innovation and the exchange of good practices.

The MDL Laboratory is also strongly interested in participating in proposals in the **Eurostars-2 Programme 2016**.







MUSIC EU FP6 develops open-source software to facilitate self-adapting applications in highly dynamic user and execution contexts.

emerging, early stage and established

ALS Erasmus LLP will define

researchers and administrators.



● : FireWatch

The Connected Vitality Personal aims to provide a video based

FireWatch (G.I.S.-assisted Wireless Sensor Networks for Forest Fires -National Framework Programme for RTDI 2009-2010) aims to design and develop a ubiquitous fire detection and prediction system, coined FireWatch, based on technologies in WSNs, GIS, Terrain Analysis & Digital Terrain Modelling and Collaboration Systems.