

## Highlights



The KIOS Research Center and Imperial College London have received a grant from HORIZON 2020 to develop a Center of Excellence in the area of Intelligent Systems and Networks. The project was one of 31 proposals selected (out of 169 submitted) from across the EU. The aim of the ‘Teaming’ projects is to prepare business plans for Centers of Excellence by creating partnerships between internationally leading institutions and institutions with the most potential to pursue excellence.

The funding call TEAMING is part of the EU's strategic program “Spreading Excellence and Widening Participation”.

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## News and Announcements



### **KIOS Director is Chair of Peer Review Evaluation Panel 2015 for ERC**

In 2015, Professor Marios Polycarpou, was chosen by the European Research Council (ERC) to Chair the ERC Evaluation Panel responsible for the review of submissions for the ERC award Advanced Grant, in the scientific areas of Systems and Communication Engineering. The panel is charged with reviewing proposals from leading scientists for the most prestigious funding awarded by the EU.

Professor Polycarpou is Chairing a panel of internationally established high-level scientists and/or scholars who were selected for this role by the ERC Scientific Council on the basis of their scientific reputation.

The appointment is a reflection of the Cyprus based research record and the .....

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### **ERC PoC for Real-Time Monitoring System for Water Quality**

The deterioration of drinking water quality can have a dramatic impact on everyday life, as well as the local economy. An accidental microbiological contamination in 2007 of the Nokia water supply in Finland affected 10,000 consumers, leaving them without access to clean water for three months. The situation is especially severe in developing countries, where water contamination problems commonly result in hospitalizations, or even deaths, and have a major impact on the quality of life. An intelligent system which can reliably give alerts of any possible contamination in water distribution networks is being developed by KIOS and the Cypriot start-up company Aqualligence Ltd.

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### **Cyprus-Israel collaboration for Telecommunications Technology**

KIOS has recently joined forces with two leading SMEs, RIO Systems of Israel and Cyprus-based SignalGeneriX, in the project entitled “Full-Duplex Radio for LTE Communication Systems (FUPLEX)”. Fuplex will help advance the state-of-the-art in the area of Full-Duplex radio by providing solutions to the ever expanding world of wireless communications by enabling efficient and low-cost solutions for

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improving the coverage and quality-of-service in indoor environments. The project is part of the “Bilateral Cooperation” programmes funded by the Research Promotion Foundation of Cyprus and the Ministry of Industry, Trade and Labour of Israel.

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### **Working Towards Photovoltaics Becoming A Mainstream Energy Source**

Several goals have been set at international and European levels regarding energy and climate change. The EU “20-20-20” targets set for 2020, require that 20% of energy consumption is produced from Renewable Energy Sources (RES), require a 20% reduction in greenhouse gas emissions, as well as a 20% improvement of energy efficiency.

Photovoltaics can become a major source of Renewable Energy and clean electricity in the future. The PV2GRID project funded by the European Union’s SOLAR-ERA.NET initiative, will offer technological solutions to some of the key challenges faced for making PV a mainstream and cost-efficient energy source and allowing for the smooth integration of considerably more PV systems within the power grid.

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### **Awards for Young Talented Researchers**



A number of young talented researchers working at the KIOS Research Center for Intelligent Systems and Networks, have won significant prizes in technology competitions specifically targeting young people. Prizes include the international CIPRNet Young CRITIS Award (CYCA), a 1st prize in the Cyprus Digital Championship 2015 and a 2nd prize in the Hack Cyprus Hackathon organized by the Cypriot Enterprise link

These successes are positive indicators that there is an inquisitive and growing research culture among young Cyprus-based scientists.

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## **Open Source Technology at KIOS**



### **Open Source Smart Phone Technology “ProximAid”**

A smartphone application that enables communication between devices without the need for any infrastructure support (dubbed ProximAid in the Google Play Store). The system is particularly useful in emergency situations when normal communications networks are not functioning.

The system was developed by young KIOS researcher Konstantinos Koumidis under the tutelage of Professor Christos Panayiotou, Deputy Director of the KIOS Research Center and Dr. Panayiotis Kolios Research Associate at KIOS. Konstantinos won the 1st prize in the Cyprus Digital Championship 2015.

[Please click here for further information and to view the demonstration...](#)

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