

PARTNER SEARCH FORM

Name of Organisation	UNIVERSITY OF PIRAEUS
Type of Organisation	Public University
Call - Title and call identification - Funding programme - Link to the call document - Submission deadline	HORIZON SC1-PM-18-2016: Big Data supporting Public Health policies Horizon 2020 http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2442-sc1-pm-18-2016.html 16 February 2016, 17:00:00 (single stage)
Description of the applicant:	<p>The University of Piraeus constitutes a highly innovative, economic oriented institution which has embodied European cooperation and integration in its main developmental objectives. Its strategy towards excellence has led to an active involvement in European research and educational programs and a commitment to strengthening its linkages with other International and European institutions. The University has three Jean Monnet Chairs and a Centre of Excellence on Trade and Transport that spread information and stimulated teaching and research on various European issues. The University of Piraeus has about 23,000 students, divided over 4 faculties and 9 departments (www.unipi.gr).</p> <p>Research at the University of Piraeus is supported by the University of Piraeus Research Center (UPRC) that was established in 1983 and has fulfilled more than 1,000 research and educational programmes, conferences and executive seminars funded by the European Union and other sources. UPRC supports research proposal preparation and follow-up (operational/financial management). University of Piraeus Research Center is currently participating in eleven Horizon 2020 programmes, coordinating two of them (http://www.kep.unipi.gr/).</p> <p>Digital Health Services Laboratory (DHSL)</p> <p>Healthcare systems around the world are in desperate need of reform, facing rapidly increasing service costs and aging population. In order to improve the sustainability of their healthcare systems, many jurisdictions have invested significant resources in the implementation of Information and Communication Technologies (ICTs) in support of healthcare. Such, so-called <i>eHealth</i>, technologies include electronic healthcare records, clinical decision support systems, and tele-medicine applications.</p> <p>Healthcare is an information-intensive domain, involving a diverse set of collaborating service providers who need to access and exchange patient-related data. Many of the inefficiencies and cost overruns experienced in healthcare systems around the globe today are associated with a lack of access to relevant information. Common examples of inefficiencies include: unnecessary duplication of laboratory work, cancellation of scheduled treatments because of missing data or prerequisites, prescription of unnecessary or adverse drugs, low adherence to preventative care guidelines because relevant data for generating alerts and</p>

	<p>reminders is not available, erroneous prioritization in waiting lists due to missing data and adverse events because of missing counter-indications.</p> <p>While ICT has played an important role in supporting financial and administrative functions for the healthcare industry, these technologies have only recently been introduced to support functions at the point of care. Recent surveys have found that less than half (43.9%) of physicians were using some form of electronic medical record (EMR). With 20.5% using EMRs with basic functionality and only 6.3% using a fully functional EMR. Even in jurisdictions with high EMR adoption, systems are often used as data stores, and data exchange over the Internet is lacking.</p> <p>Focusing on education, research and innovation, the Digital Health Services Laboratory (DHSL), aims at exploring possible solutions of the aforementioned problems through the delivery of patient-centric healthcare IT innovations. To this end, the DHSL's research activities focus on emerging research and development areas in the eHealth field. In particular, the research activities of DHSL members fall into the following areas:</p> <ul style="list-style-type: none"> • Healthcare Information Systems • Workflow-based Healthcare Systems • Electronic Medical Records • Personal Health Records • Service-oriented architectures in Healthcare • Healthcare Systems Security • Pervasive and Ubiquitous Computing in Healthcare • Cloud Computing in Healthcare • Electronic Healthcare Services • Semantic Web in Healthcare • Knowledge Management in Healthcare • Technology-based Healthcare Training
<p>Outline of the project idea</p>	<p>Project background and rationale: The proposed project will undertake the development of a European Framework Initiative Health Seeks Technology solutiOns in Europe (HoLiSTic.eu) to support the needs of public health authorities and the medical community. HoLiSTic.eu will address the barriers to the adoption of the latest technologies, and the interoperability between a multitude of data sources. HoLiSTic.eu will take an interdisciplinary and highly-scalable approach that aspires to bring coevolution between cutting edge technology and societal health needs through a two tier platform to foster improvement in the health care system by managing big data in a responsible way. Moreover, it will provide a toolkit with embedded innovative practices to reduce health inequalities.</p> <p>The aim for this project is therefore to: The aim of the project is to extract the full potential of Big Medical Data to for the benefit of public authorities and healthcare system.</p> <p>In order to achieve the above, we foresee the following activities:</p> <ul style="list-style-type: none"> • Develop of e-health platform • Development of database abstraction layer for accessing plurality of health data sources • Development of smart algorithms • Development of an ethical and security framework • Strong monitoring system • Establish new efficient patient pathways
<p>Foreseen duration of the project</p>	<p>4 years September 2016- September 2020</p>

Financial conditions	Research and Innovation Action – RIA Funding rate: 100%
Partner(s) Sought	AI Companies, Social Behavioural Experts, University Hospitals
Keywords	eHealth, Social Behaviour, public health, stratification, patient pathway
Answers expected before	29 January 2016
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