

KIOS CoE TEAMING Project Proposal & Evaluation Experience

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KIOS Center of Excellence – EU TEAMING Project

- Project Acronym: KIOS CoE Phase 2 | Duration: 1/3/2017 29/2/2024
- Objective: Provide funding to elevate the KIOS Center to a Research and Innovation Center of Excellence (significant upgrade)
- Teaming Partner: *Imperial College London* strategic partnership to enable KIOS CoE growth through the sharing of expertise and best practices
- **EU Funding:** €15,000,000 | **National complementary funding:** approx. €25,000,000





Name Origin

Greek mythology: "Kios" from the Greek *Κοῖος* (Kee-os), the Titan of inquisitive mind and the questioning intelligence



Our Mission & Vision

- To conduct multidisciplinary research and innovation in the area of Information and Communication Technologies (ICT) with emphasis on the Monitoring, Control, Security and Management of Critical Infrastructures
- To provide an inspiring environment for conducting excellent, cutting-edge research at a global scale, producing new knowledge that can be applied to solve timely and real-life problems in the considered Critical Infrastructure Systems (CIS)



Where are we now? Highlights

- 170 employees (Faculty, Researchers, Engineers, managers and administrative employees).
- Operate a rolling recruitment process & engaged several international researchers
- KIOS Critical Infrastructure System (CIS) Testbeds experimental facilities that contribute to advancing the research activities to state-of-the-art technologies.
- Over 20 industry funded projects & 35 Competitive funded projects, 275 collaborations
- Collaborates with 44 SME's/ Large Companies and Governmental Organizations either through a number of projects funded by the EU or as part of the innovation.
- Covid-19 pandemic Center to used its expertise in Emergency Management tools
- Collaborates with the public sector on critical Recovery & Resilience, Green Deal









1. Teaming Phase 1: 1st June 2015 – 30th May 2016 Call H2020-WIDESPREAD-2016-2017

 Grant to produce an extensive, detailed and robust Business Plan within a timeframe of 12 months for the settingup/upgrading of a Centre of Excellence.

2. Teaming Phase 2: 01 Mar 2017 (7 year duration)

- Submitted a separate proposal key elements of the business plan.
- Restricted call will undergo an independent evaluation, and those selected for funding were awarded a CSA grant (Teaming Phase 2)



Key Contributors of a good application – Excellence in Teaming

- ✓ Clear vision & understanding of the project's Scientific & Innovation Potential
 - what is the importance & relevance of the Scientific areas of the CoE
 - What are the potential areas of innovation
- ✓ Define the project objectives & ensure that they are well aligned with the Teaming call – Pertinent
- ✓ Give quantifiable targets for each objective SMART SPECIFIC, MEASURABLE, ACHEIVABLE, RELEVANT & TIME BOUND



TEAMING PHASE 1

Critical to help develop a vision of the Center of Excellence

- ✓ SWOT analysis, which underpins the long-term science and innovation strategy of the future CoE
- ✓ The outcome of the SWOT analysis must be integrally linked to the work plan.
- ✓ Highlight/list opportunities of the project & how these will lead to regional growth and addressing long-term commitments.
- ✓ Address the relationship of the project with Smart Specialisation Strategy (& synergies with ESIF) Synergies with the European Structural and Investment Funds are identified.
- ✓ Explain the 'national' R&I environment & where the CoE fits within that
- ✓ Gender imbalance issue in Science and Technology

Scientific & Innovation Potential



Technical focus & specialization

Intelligent monitoring, control, management and security of complex, large-scale, dynamical systems



Application Areas —— Critical Infrastructure Systems



Energy &

Power Systems



Intelligent **Transportation Systems**



Water Systems & **Environmental Monitoring**



Telecommunication Systems & Networks



Emergency Management Response







- 75 million jobs will be displaced
- Replaced by 133 million new professional positions in these areas



KIOS Research - Key Areas of Growth Globally

- Monitoring and cyber-physical security of Critical Infrastructures are key areas of growth globally
- European Green Deal and Horizon Europe
- World Economic Forum Future of Jobs Report: 85 million jobs will be displaced and 97 million new jobs will be created in areas such as AI & ML, data analysts, automation and robotics,









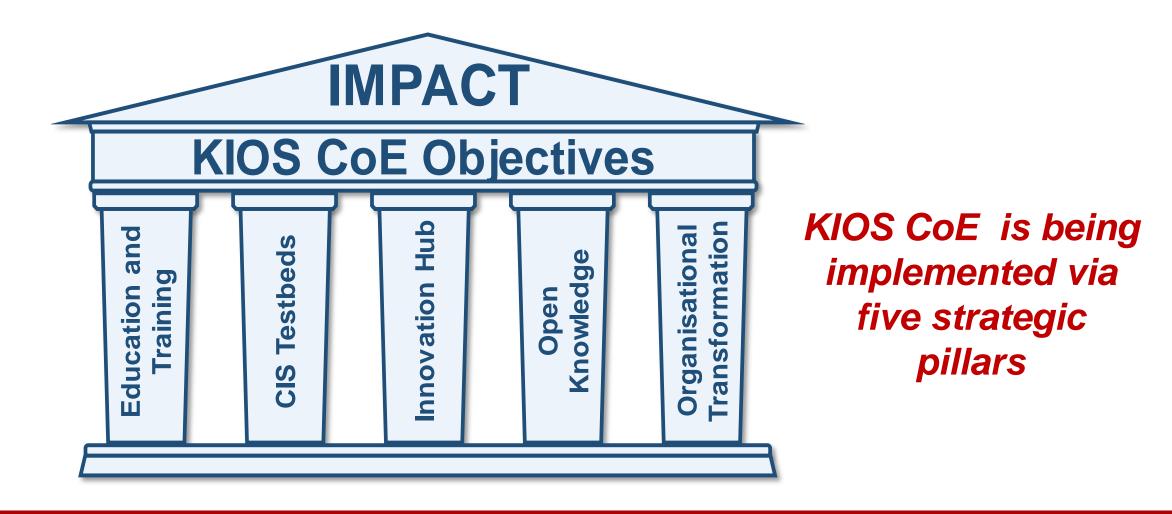
Excellence - KIOS CoE Project Objectives

- 1. Grow and enhance the human resources capacity of the KIOS CoE
- 2. Build the infrastructure capacity of the KIOS CoE
- 3. Expand the scope of research excellence in monitoring, control, management and security of critical infrastructure systems
- 4. Pioneer high-impact innovation and entrepreneurship in Critical Infrastructure Systems applications
- 5. Achieve long-term sustainability of the KIOS CoE
- 6. Contribute towards the transformation of the research and innovation culture of Cyprus
- 7. Establish an expanded and versatile organizational structure to support the KIOS CoE activities



Excellence

Implementation methodology of the project – how will you organise and implement your objectives





Key Contributors of a good application – Impact of Teaming

- 1. What impact will the project will have from various perspectives
 - ✓ Consider the EU's National Innovation Union Scoreboard Indicators related to the national scientific capabilities (e.g. Percentage increase of PhDs graduates, Percentage increase in the total amount of international competitive funding grants)
 - ✓ Present the societal, environmental and economic impacts of the CoE activities (e.g. Decrease in congestion costs, integration of renewable energy sources).
 - ✓ Address how the advanced partner contributions will contribute to the impact of the CoE
 - ✓ These must be linked to Key Performance Indicators relevant to the CoE – take care to ensure that they are measurable and achievable within the duration of the project.

KIOS CoE Impact - Sample

- A. Increase the scientific capabilities of Cyprus through education and training programs, the KIOS CIS testbeds, the Open Knowledge portal, as well as through networking and links to innovations clusters.
- B. <u>Significantly improve the research and innovation culture of</u>
 <u>Cyprus</u> by engaging other Cyprus-based organizations in research and innovation activities, networking and the KIOS Innovation Hub activities.
- C. <u>Increase the competitive funding</u> received from International fora again through training, networking and the KIOS Innovation Hub, and the KIOS CoE testbeds.

Key Features of a good application – Impact

2. Maximize the impact of Teaming

MUST understand the difference between dissemination, communication & exploitation

Dissemination and exploitation strategy throughout the project lifecycle... 'foresee' beyond it

- ✓ Define the main measures to maximize impact
- √ the target groups who will be the potential users of the results.
- ✓ as well as the main channels for dissemination.
- ✓ Should connect appropriately with the objectives, the work plan and expected impact and appropriately target stakeholders.
- ✓ A communication plan detailing communication messages, targets & measures with quantified indicators
- ✓ IP policy and related management processes should be well described.





Key Features of a good application: Quality of Implementation



- ✓ Workplan (WPs), Timeline, Lifecycle (e.g. stages of development)
- ✓ Have in mind that the WP's should be organised according to key implementation areas
- ✓ Have in mind that the 'project' involves aspects related to the development of an organisation
- ✓ Advance partner contributions must be detailed and evidenced in the work packages
- ✓ Other Best-Practices: Advisory Board, External Security Advisor, Engagement of Stakeholders

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Previous experience & lessons learnt: Project proposal preparation?

- understand the evaluation criteria
- ✓ Do your research! Teaming proposals are very different to traditional Research & Innovation Actions
- ✓ Involve as many people in the 'team' as possible for input and feedback
- ✓ The proposal should be concise but pay attention to detail –
 allow time for editing





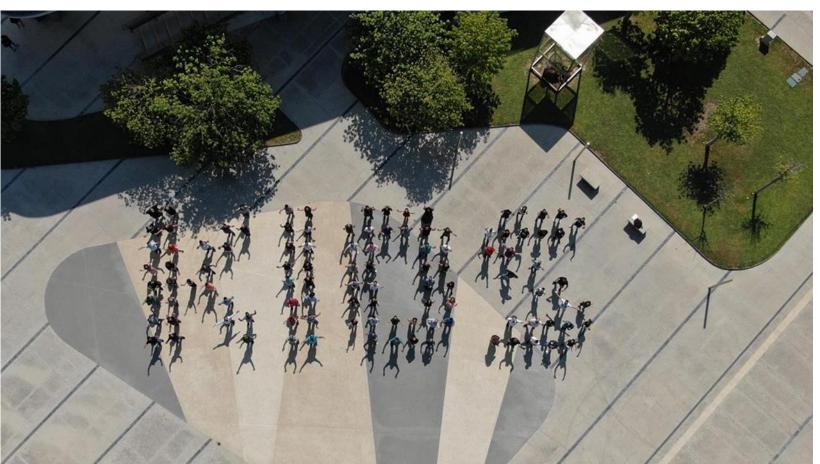
Technology – Future efforts should require KPIs

- ✓ Pay attention to gender aspects of your proposal KIOS CoE proposed measures to address imbalance in Science and
- ✓ Utilize guidance and resources available by EC-REA H2020

 Manual, IPR Helpdesk training and fact sheet.
- ✓ Pay attention to instructions and guidance from REA (even the small print!)
- Do not treat this proposal preparation as a standard research or innovation proposal – THIS IS PROCESS THAT REQUIRES LONG TERM PLANNING & PREPARATION
- TEAM effort!









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