

# ***Project Proposal Opportunities in Malta***

*WoSS Workshop  
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Malta Council for Science & Technology***

# Outline

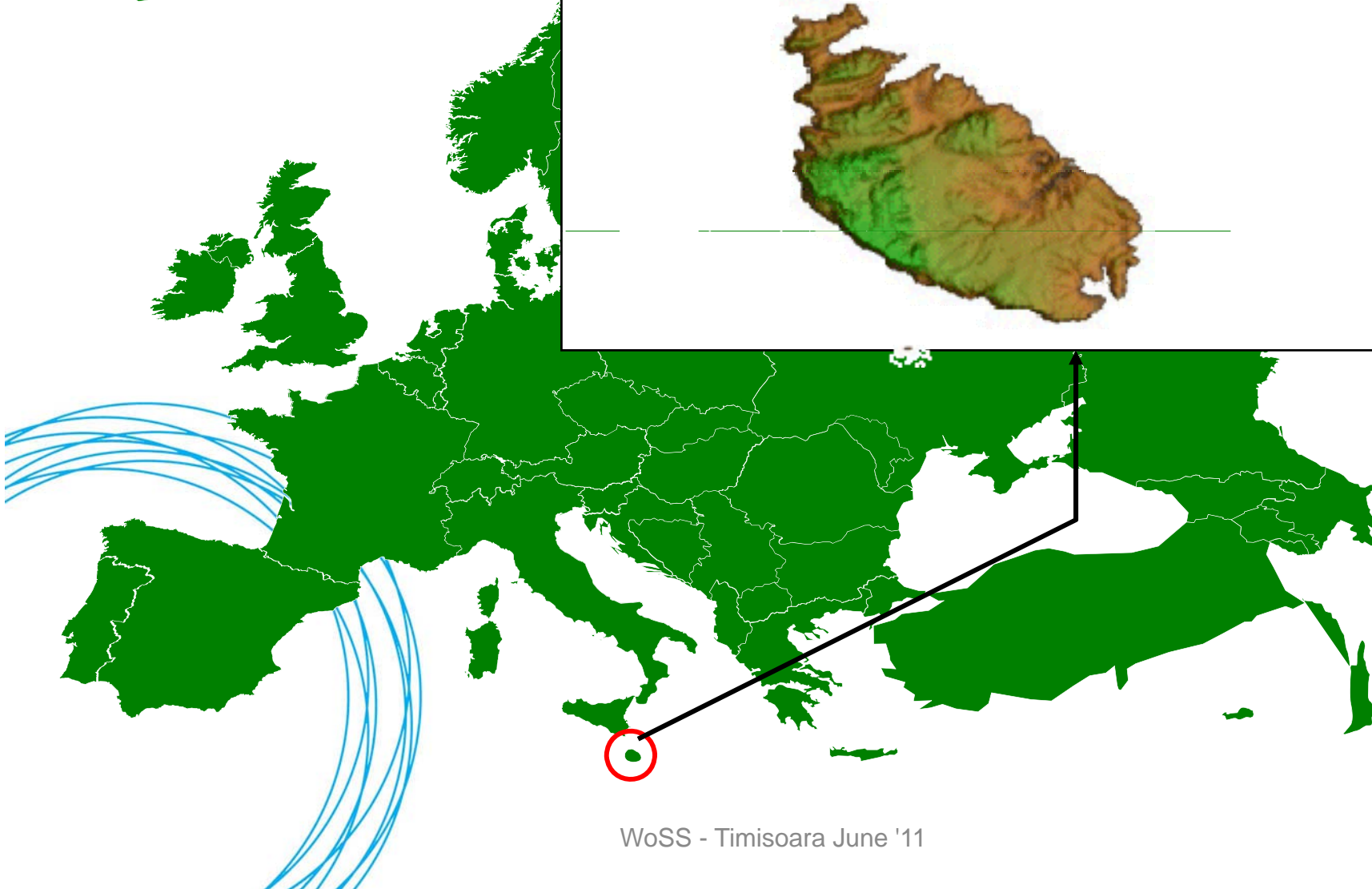
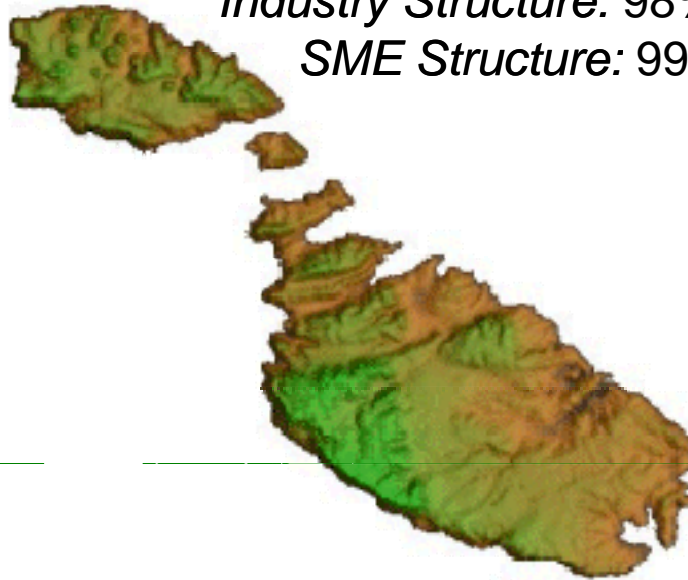
- National Research Ecosystem
- Malta Council for Science & Technology
- Project Participation
- Initiatives using Cloud Computing

## ***Maltese Archipelago***

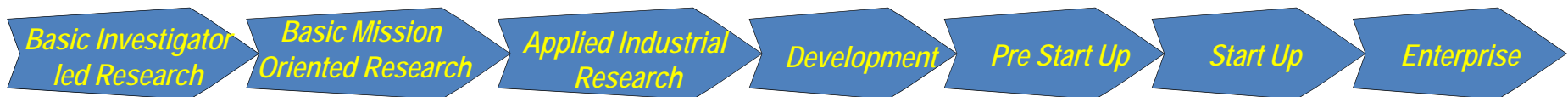
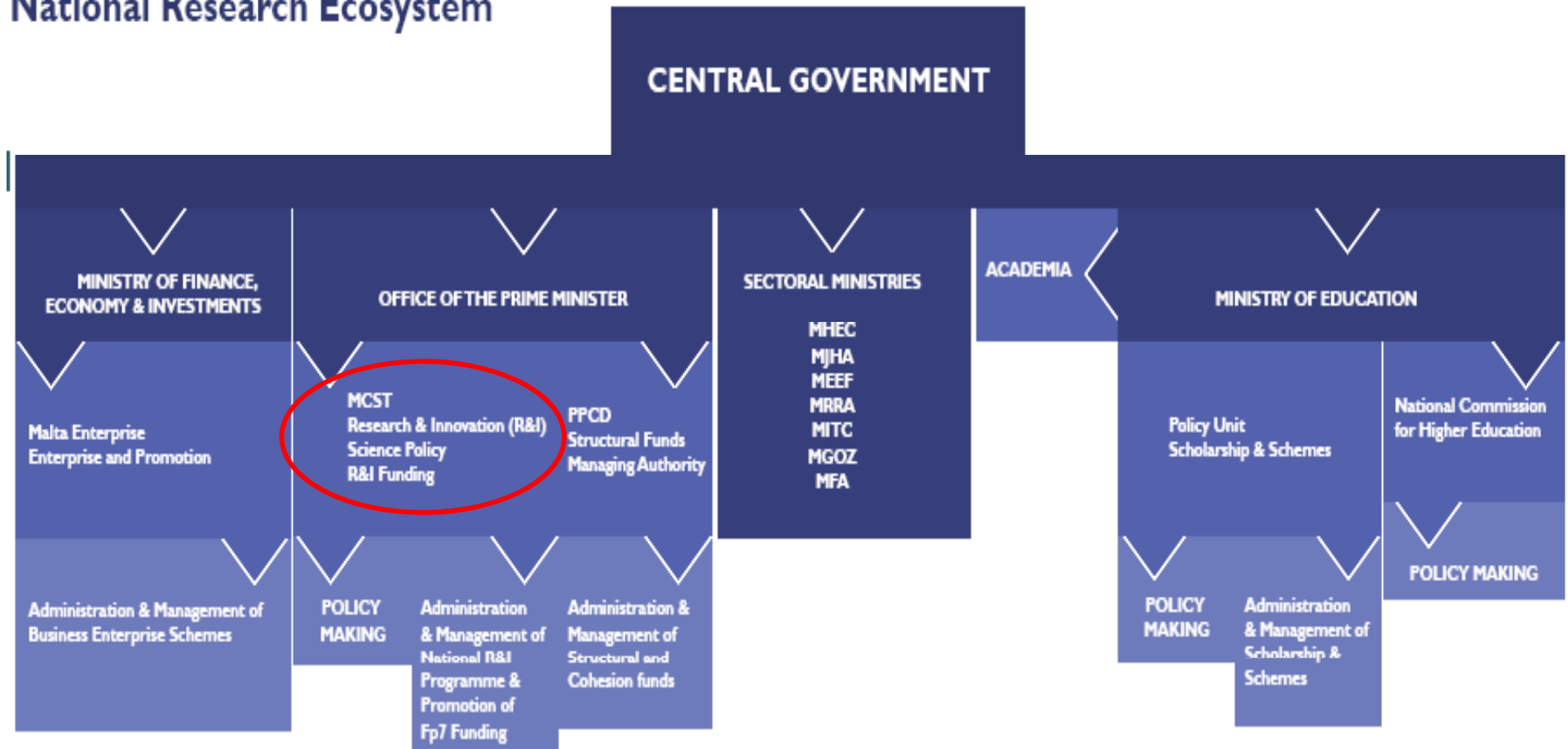
*Population: c.400,000*

*Industry Structure: 98% SMEs*

*SME Structure: 99% small & micro firms*

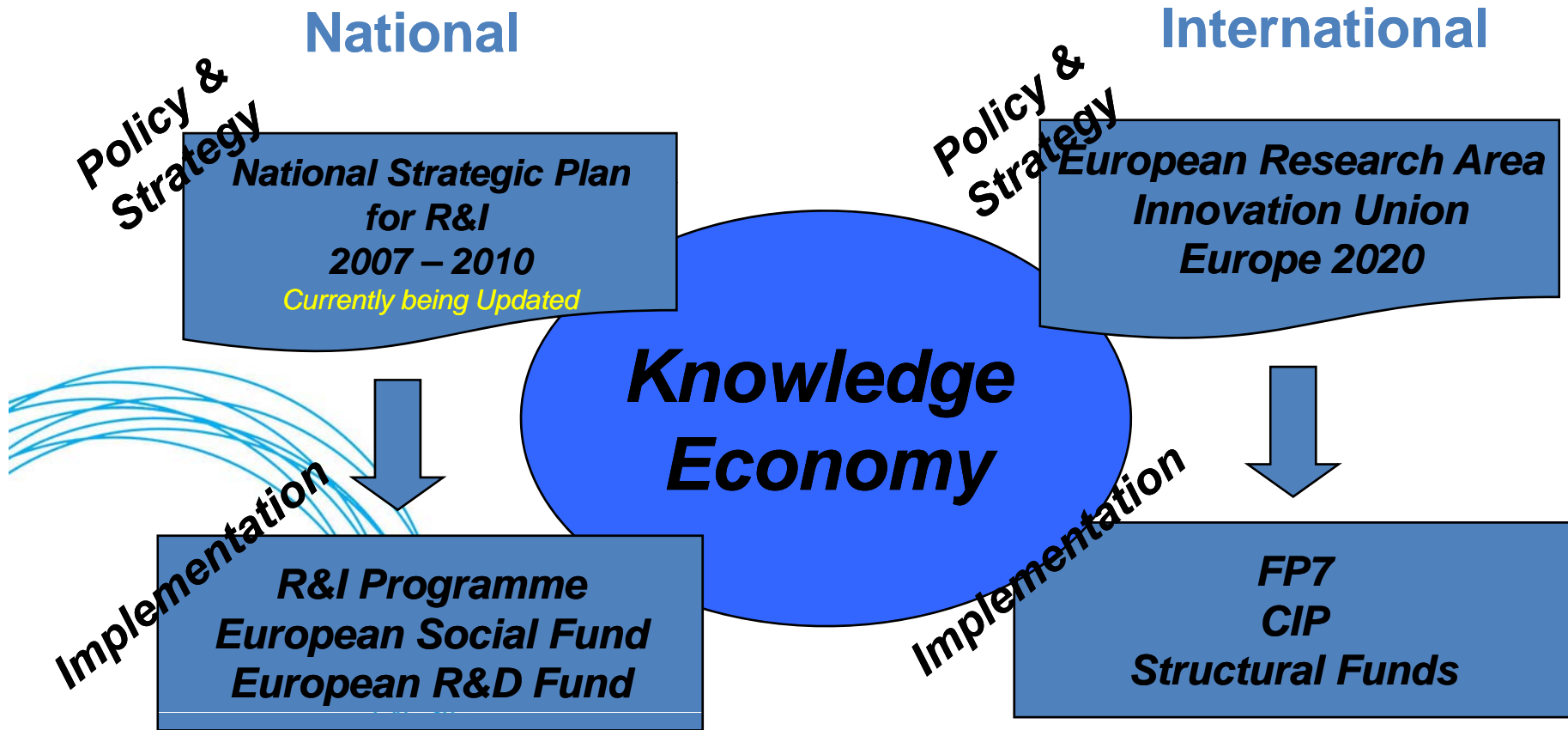


# National Research Ecosystem



# Research Technological Development and Innovation

*National & International Perspective*

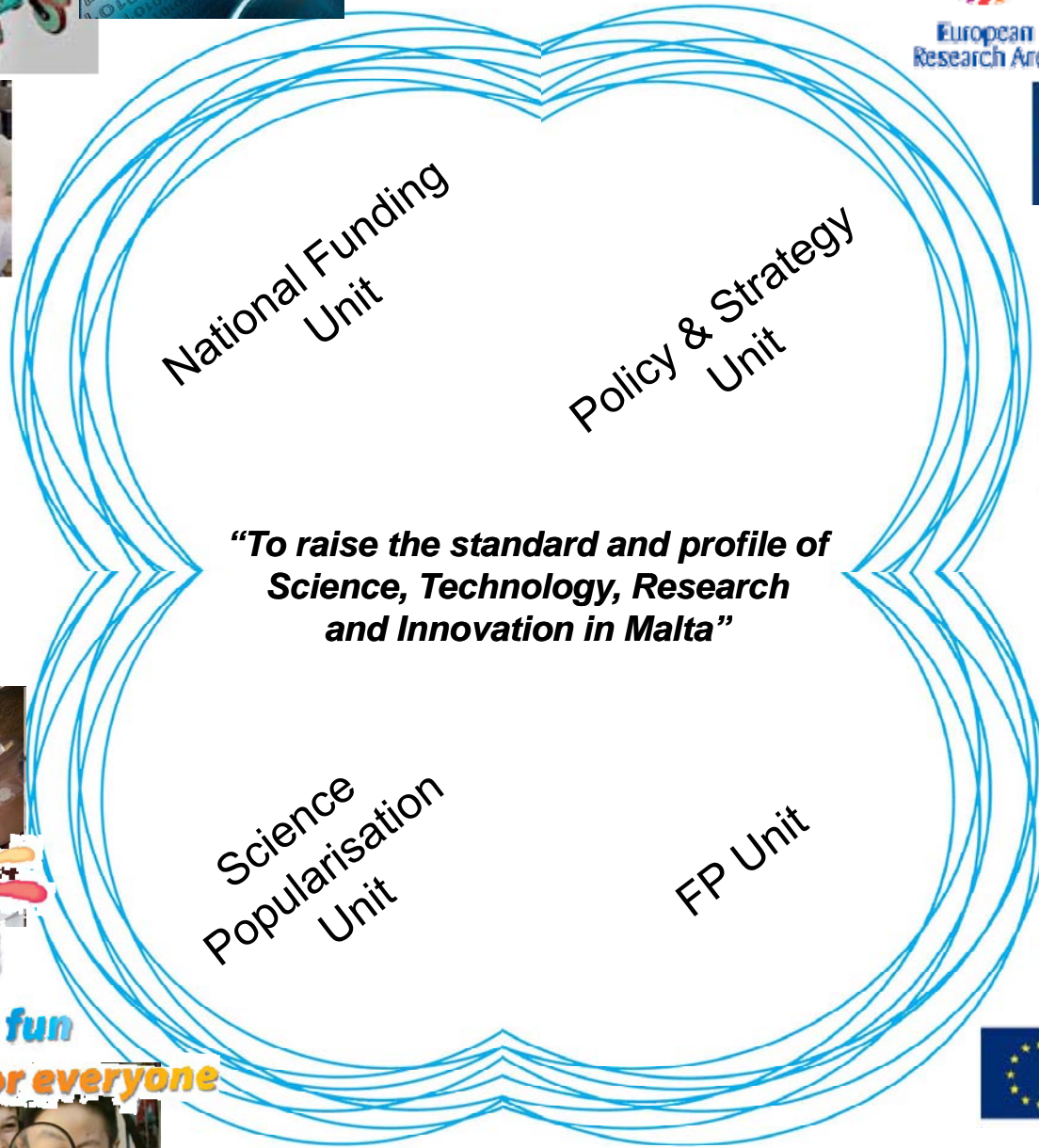


# The Malta Council for Science & Technology



# The Malta Council for Science & Technology





# National Funding Unit

- Responsibility of National Funding Initiatives
  - Research & Innovation Programme
  - *Commercialisation Programme*
  - *Knowledge Transfer Programme*
- Promotion of Industry Academia Collaboration
- ERDF Project: Manufacturing Research Platform

# Policy & Strategy Unit

- Evaluation of policies for R&D and Innovation
- Drafting of strategies for R&D and Innovation
- Monitoring of policy developments at EU level
- Participation in EU forums and provision of support to participation at the Ministerial level
- Supporting other Ministries in R&I policy issues

# Science Popularisation Unit

- Set-up the National Interactive Science Centre.
- Carrying out science popularisation activities in the community.
  - Science & Technology Festival
  - Science in Community Events
  - Science Animation Training Programme
  - Mobile Science Fair
- Promote science in order to engage, inspire and motivate children, youths and the public.

# FP7 Unit

- MCST – The National Contact Point Organisation, offering advice & information on all aspects of FP7.
- **Objective:** Strengthening Malta's participation in the FP7 Programme.
- NCP for every thematic & horizontal area in FP7.
- Every local NCP is part of a NCP network at European level.

# ***Project Participation***



# Poignant Realities

- 98% of Maltese Industry are small & micro Enterprises
  - Lack of resources to chase and prepare project proposals
  - Lack of resources to find partners or simply to read and understand the call documentation
- Participation in FP considered time consuming, risky and complicated
- Complex administration process
- Fear of excessive bureaucracy and time to market delays
- Expense of submitting a rejected proposal.
- Intellectual property risks

# Strengths

- Strong HR element
  - *Highly motivated and experienced researchers*
  - *No Language Barriers*
- University of Malta Initiatives
  - *New Faculty of ICT and upgrading of laboratories*
  - *Super Computer Cluster*
  - *University Trust Fund for RTDI*
  - *Establishment of the UoM Commercialisation Office*

# Strengths *cont*

- Industry Academia Collaboration Initiatives
- SmartCity Malta (*€300M investment*)
- Growth in the economic sectors of software development, i-Gaming and e-Services
- Malta Enterprise Grant Schemes

# *Initiatives using Cloud Computing*



# *Digital Gaming Clouds for Mobile Users*

- Design & Implementation of a system for remote execution of games
- ANY PC game application will be executed on a Computing Cloud but played on any mobile devices over WiFi and/or 3G.
- *Aims to introduce a new product to the international market in collaboration with Vodafone UK*
- *New spin-off company setup by the University of Malta providing employment opportunities*
- *Industrial partner benefitting from royalties*
- *In line with the recently contracted Digital Gaming Strategy*



**Budget: € 182,503**

**Consortium: UoM - Dept of Communications & Computer Engineering, iMovo**

# MARLON – MARine LOgging Notebook

- Facilitates the necessary task of tedious logging by providing an electronic solution for logging, where a significant portion of the required data is logged automatically, in virtual communication with the vessel's state.
- *Targeted at marine industry, and applicable to a global leisure market*
- *Product will result in a saleable application for mobile devices*
- *Use of cloud computing will avoid vendor lock in reducing costs for boat owners*
- *Aid in route optimisation would result in reduced fuel costs and polluting impact*
- *Increase in safety for mariners as they all data will be logged automatically*



**Budget: € 147,861**

**Consortium: S-TEC Ltd., Malta College of Arts, Science & Technology (MCAST)**

# ***Real PROMISE – Realtime Portable Reconfigurable Power Management Interoperable System***

- Design and development of an onboard Power Management System able to monitor and display power consumption in real-time as a means of gauging power usage.
- Coupled with hybrid systems incorporating energy storage, information such as remaining autonomy and charging demand, together with what-if scenarios enable better operating modes.
- Software application performing the power management and monitoring functions, shall operate off an onboard cloud-based server.
- *Targeted at marine industry, and applicable to a global leisure market,*
- *Use of cloud computing will avoid vendor lock in reducing costs for boat owners*
- *Could result in further spin-offs and employment if further innovations are envisaged*
- *Reduction of fuel costs by identifying inefficient operating modes*

**Budget: € 143,978**

**Consortium: S-TEC Ltd., Malta College of Arts, Science & Technology (MCAST)**

# ***Thank You***

## ***For Further Information Contact:***

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