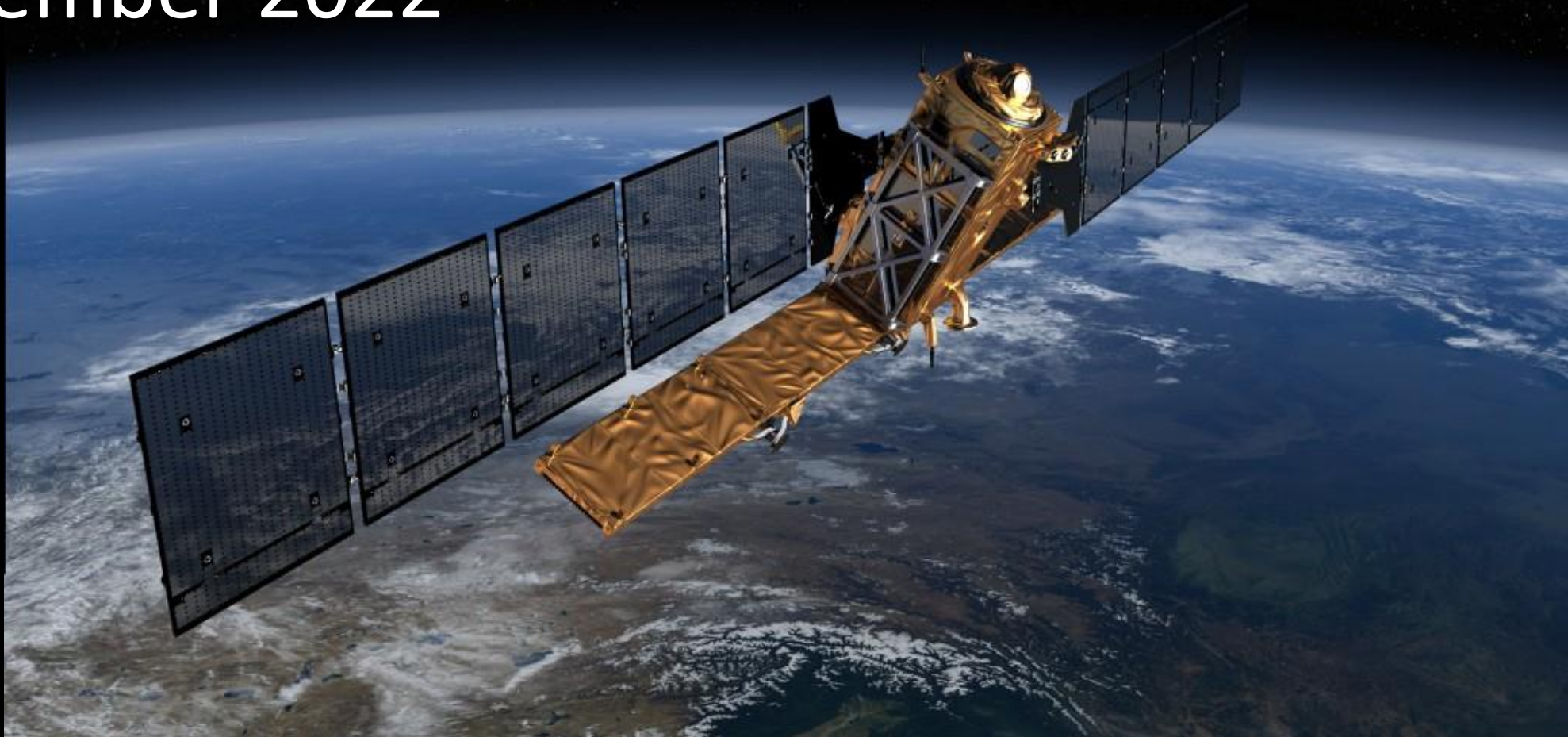


Space Research Fund – Eurisy Members Corner September 2022



Malta Council for Science and Technology – Space Research Fund Presentation



The Malta Council for
Science & Technology



- Introductory Presentation by MCST – The National Space Research Fund
- Beneficiaries of the Space Research Fund:
- Sipobed – The Study of Coastal Erosion around Pocket and Sandy Beaches – Sebastiano D’Amico
- Satellite4Health – The Study of the correlation between Hospital stays, patient admissions and the weather. - Lalit Garg
- Coastal Sage – The Study of Rock tilting and motion along Malta’s coast – Sebastiano D’Amico
- Questions and Answers

Space Research Fund

- Launched by MCST in Collaboration with ESA in 2018
- Malta was considered to have a strong ICT Sector
- Fund is based on downstream application
- To date 14 applications out of 29 have been awarded funding

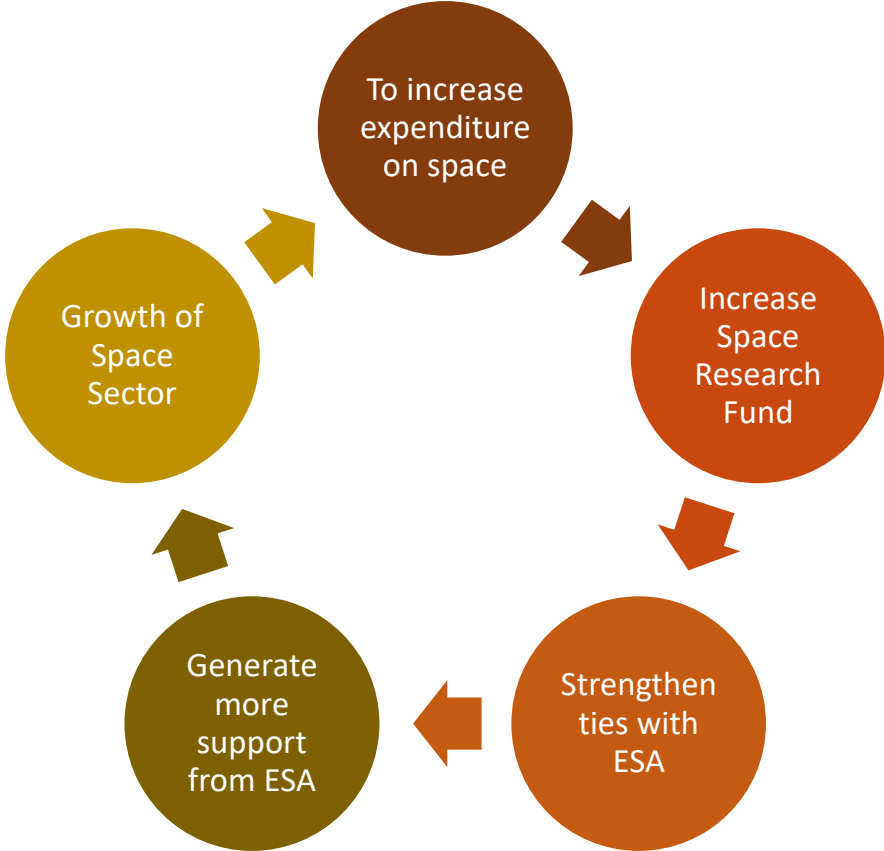
The Fund as a Mechanism

Scope

- To provide financial support for research, development & innovation in Satellite downstream activity
- To tackle societal challenges in Malta
- To allow Maltese entities to be able to apply for more competitive space-related calls within the EU Framework
- To encourage cooperation between public, private and academic institutions
- To establish an active Space Sector in Malta



Scope of the National Space Strategy



Space Industry's Relevance For Malta's Wider Economy

Malta National Space Strategy – Consultation Document

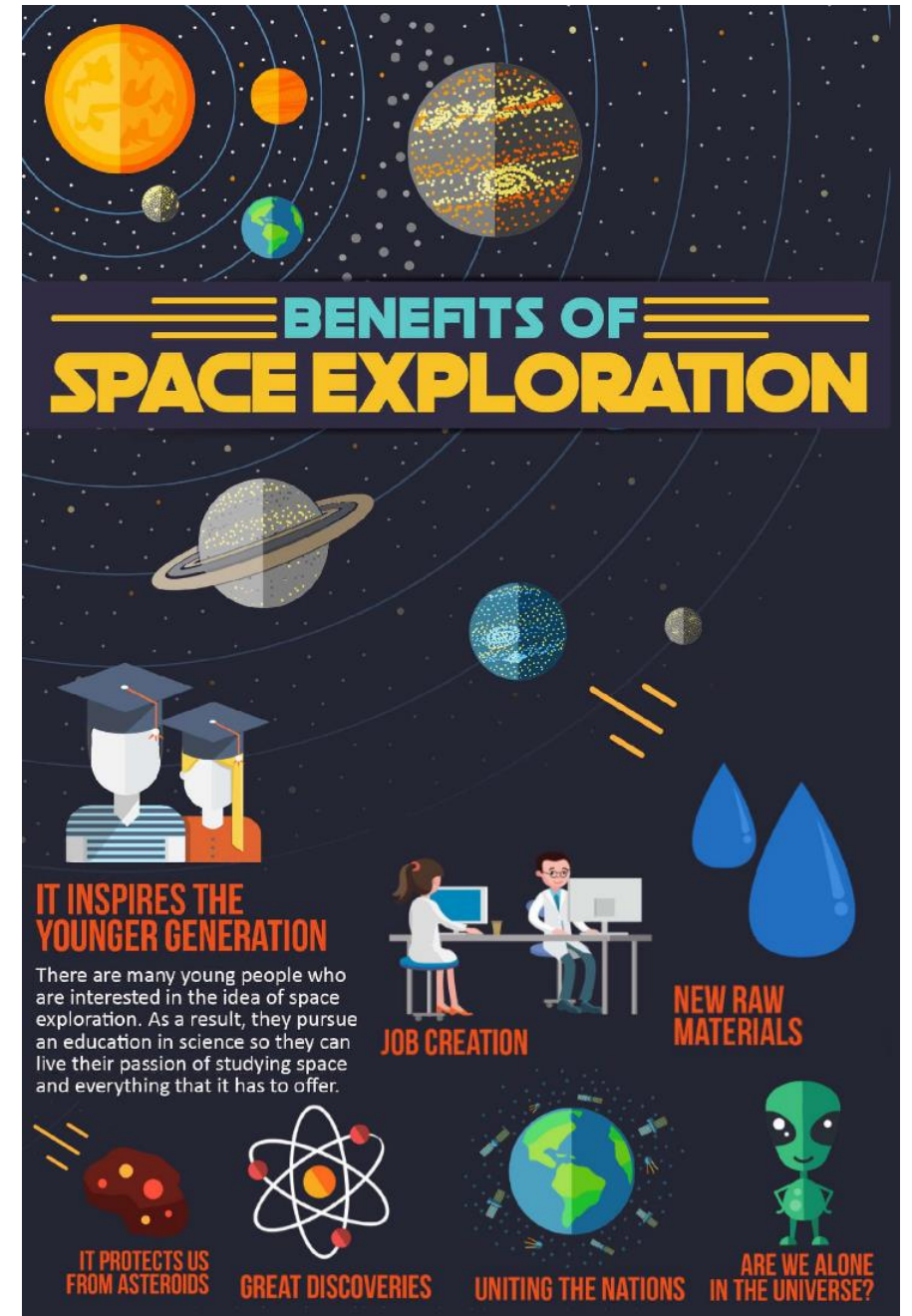
Stake Holder Groups	Description
Relevant Government Entities	Public sector entities
Relevant international Government entities	Foreign space agencies & international governance bodies
Local space industry stakeholders	Companies & individuals
Local non-space industry stakeholders	Companies – potential to benefit from space sector development
International companies in Malta	International space and aerospace
Research centres and academia	Research centres and academic institutions
Relevant Civil Society Organisations	Civil organisations – contribute & support space development



National Space Strategy – Consultation Document

Five Pillars of Malta's Space Strategy

Foreign Direct Investment & Space business attraction	Development of an agile & sustainable space sector and a Malta Space Hub
Space innovation	Development of space upstream & downstream research activities
Development of human capital	Develop talent & relevant skills through education
International regulatory compliance	Establishing a legal framework for registration of space objects, exploration and utilising of resources
Emerging technologies	Development of research and commercial application of emerging technologies



MCST's Space Research Fund

- Financial support for R&D&I in the downstream Earth Observation (EO) sector
- Capacity building measure to jump start the EO sector
- Research Stream 1: Technology Concept Research (TRL 1 to 4)
- Research Stream 2: Applied Technology Development (TRL 5+)
- All Maltese Legal Entities: Private Entity, Public Entity, Public RDI
- Total Funding €150,000: De Minimis or GBER or State Aid Not Applicable
- Project Duration: 20 months across two stages.
- Consortiums: Sole Beneficiary, Public – Private, Public – Public, Private – Private
- Eligible Costs: Personnel (Salaries), Specialized Equipment, Consumables, Subcontracting



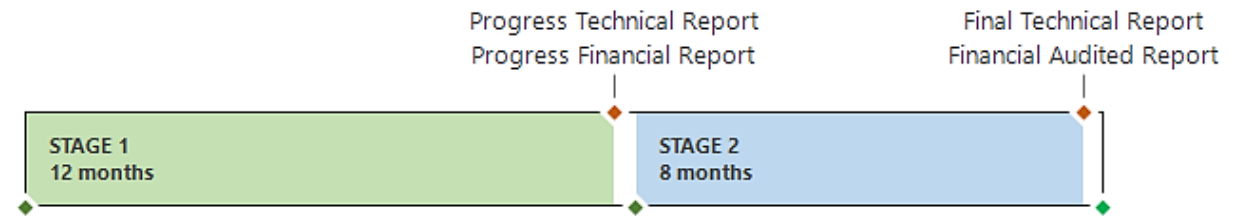
Two Research Streams

	Technology Concept Research Stream 1 (TRL 1 to 4)	Applied Technology Development Stream 2 (TRL 5+)
Beneficiary	Recommended: Includes at least one research or knowledge dissemination organisation	Recommended: Includes an end-user and one industrial entity
Research Prospects & Impacts	Proposal prospects have a medium importance. Recommended: Reference to an eventual case study or end-user of the research proposed	Proposal prospects have a high importance. Promises a sellable product customised for the needs of an end-user



Mandatory Deliverables

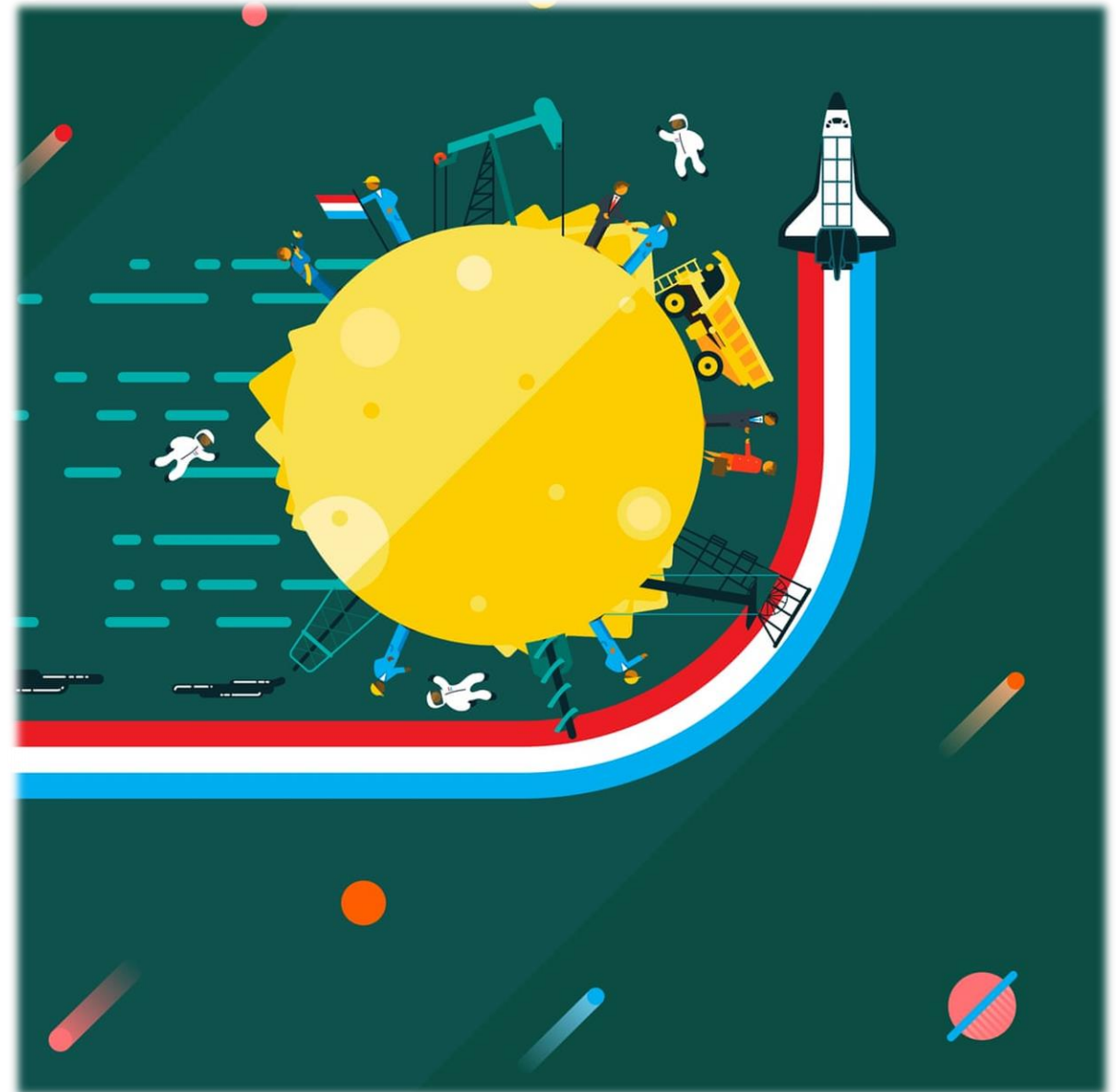
- Host a minimum of TWO interim progress meetings per stage with MCST
- Report on provided templates
- Publish at least 2 articles in local newspapers or magazine
- Contribute to space related outreach events held in Malta, including a yearly event supported by European Space Agency (ESA)



Evaluation Criteria

Eligibility:

- Excellence, Impact & Implementation
- Pass mark (50%) for each criterion
- >65% overall excellence + impact + implementation



Space Research Fund Projects with MCST

Space Research Applications:

- Culture & Heritage (EO4HBCS)
- Chlorophyll measurements (Water Colours)
- Healthcare (Satellite4Health)
- Coastal Management (SIPOBED, Coastal Sage)
- Marine Biology (MAARES)
- Water Management Agriculture (Warm EO)
- Weather – Scirocco Wind (Aerotox)
- Bee Management – (BEEPOLL)
- Groundwater outflows discharges – (BathMalta)
- Underground Water Detection – (Demuwa)
- Sea Surface temperatures – (Stream)



Potential Research for Future Space Research Fund Applications

Other Branches of Space Research:

- Smart Cities & Urban Planning
- Autonomous Driven Vehicles
- Artificial Intelligence (Machine Learning)
- Virtual & Augmented Reality
- Robotics
- Civil Aviation (Safety Flying)
- Earthquake Monitoring
- Oil & Gas Exploration
- Deforestation & Desertification
- Software & Hardware Development

