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## 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

#### **Five Pillars of Malta's Space Strategy**

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

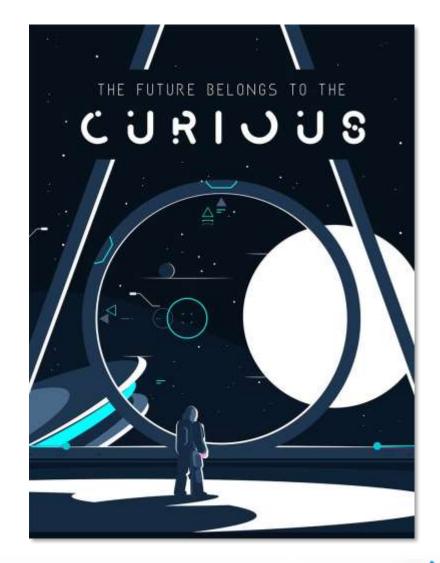






### MCST's Space Research Fund

- 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







### Funded Space Research Projects 2019 - 2022

#### **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)
- Earth Observation Database (Stream)







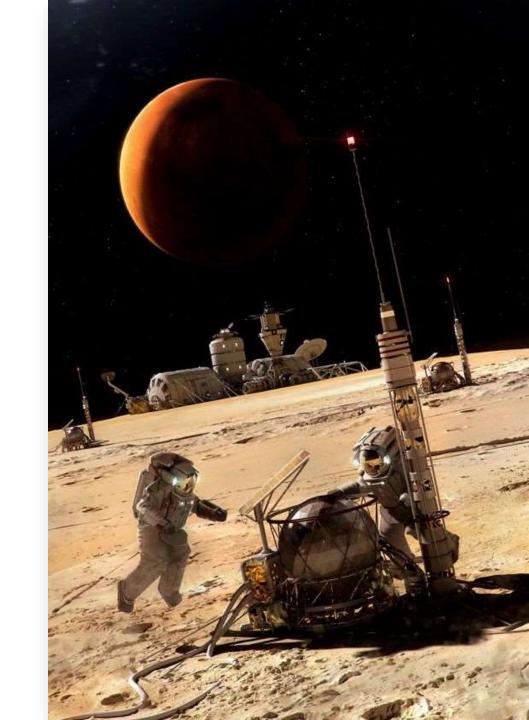
## MCST's Space Upstream Thematic Programme 2023

#### **Space Upstream**

Manufacturing, Research & Development to assist:

- Transportation of items into space
- Space Exploration
- Developing related ground technology





## **e**-shape

#### Research & Development in Space Upstream

- Advanced Manufacturing
- Artificial Intelligence
- Autonomy & Robotics
- Bio Tech
- Blockchain
- Communications
- Computing
- Energy
- Materials
- Nano Tech
- Propulsion
- Quantum Computing and Communication
- Sensors
- Space Architecture & Ergonomic Interior Design
- Health and Nutrition
- Extended Reality (Virtual & Augmented Reality)





## **e**-shape

#### Malta's Potential in the Space Upstream

- Satellite Situation Awareness (SSA) Technology
- Bio Tech
- Health & Biological Research
- Pico Satellite Technology Development
- Quantum Communication
- Debris impact assessment tech on Satellites
- Extended Reality (Virtual & Augmented Reality)
- Armour from debris impact & payload ice cube technology
- 3D Printing
- Space Architecture
- Decompression in Space
- Materials
- Agriculture & Food Processing
- Electronic Engineering
- Artificial Intelligence
- Micro & Nano Tech



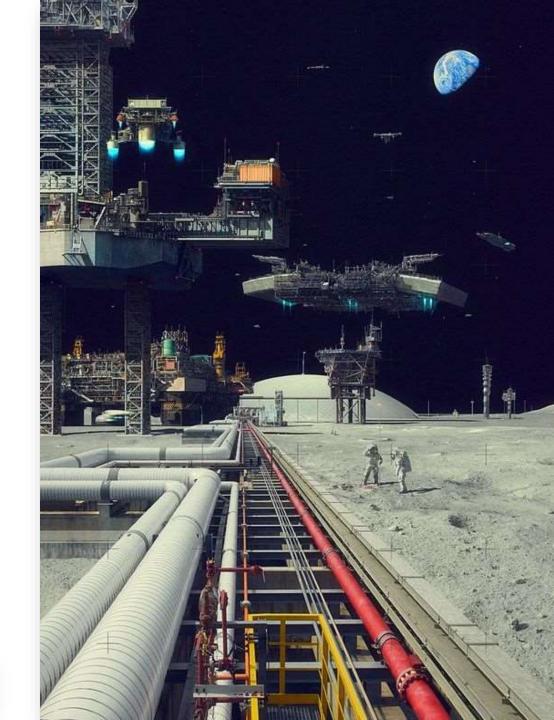




#### Space Upstream Fund

- Launch during the Second Quarter of the Year
- Funding of €100,000 per project: De Minimis or GBER or State
   Aid Not Applicable
- Public research institutions, Public Sector & Private Sector
- Consortiums: Sole Beneficiary, Public Private, Public Public,
   Private Private
- Eligible Costs: Personnel (Salaries), Specialised Equipment, Consumables, Subcontracting
- Research Stream 1: Technology Concept Research (TRL 1 to 4)
- Research Stream 2: Applied Technology Development (TRL 5+)







### **Launch Dates**

**Space Research Fund (Earth Observation)** 

Launch March 2023

**Thematic Programme Space Upstream Fund** 

Launch June 2023

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# Thank you!



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