

Accelerating Innovation in Space Through Strategic Partnerships

Second United Nations World Geospatial Information Congress, Hyderabad - India

TP10C – Effective Partnerships, 12.10.2022

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We Are European Space Agency (ESA)



EUROPE'S GATEWAY TO SPACE

WHAT

22 Member States, 5000 employees

WHY

Exploration and use of space for exclusively peaceful purposes

WHERE

HQ in Paris, 7 sites across Europe and a spaceport in French Guiana



ESA's 4 main pillars

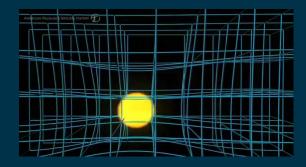


Science and Exploration

Enabling and Support

Safety and Security

Applications





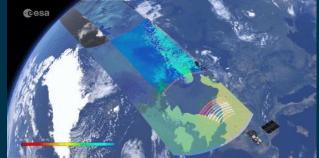




















BUSINESS APPLICATIONS – SPACE SOLUTIONS





Purpose



SOCIO-ECONOMIC

SPACE USE

INDUSTRY COMPETITIVENESS

Deliver social value and economic sustainability

Expand the utilization of space in new markets and user communities

Strengthen European Industry competitiveness on the global space and non-space markets







Cooperation with "non-space" businesses to...



















FROM MONITORING TO ACTING

Accelerating the green Transition





Support emergence of Green economy in vertical markets



Energy **Transition**



Sustainable **Tourism**



Sustainable Mobility



Protecting **Ecosystems**



Green Buildings & **Sustainable Cities**



Sustainable Farm to Fork



Circular **Economy**



Clean Water



Green **Finance**

5G/6G



Integrating space data and innovative technologies



Space for Green Future



Satellite Communication



Satnav



SatEO







Artificial Intelligence





Robotics



Engage with industry stakeholders and public entities for delivering the green transition



#1 SPACE IN RESPONSE TO HUMANITARIAN CRISES



Supporting the physical, emotional, psychological, social, or economic well-being of refugees/ IDPs

Supporting post-conflict recovery efforts

Objective: to deliver spacebased services supporting the humanitarian efforts in response to the crisis Stakeholders:





UNOSAT





Supporting communities hosting displaced people

Supporting
humanitarian and
governmental
organisations to
forecast, respond to,
and manage
displacement crises

Call opened: 25 April 2022

Deadline: 31 October 2022 - might be extended

https://business.esa.int/funding/invitation-to-tender/space-response-to-humanitarian-crises







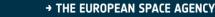


























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#2 SPACE FOR TOURISM













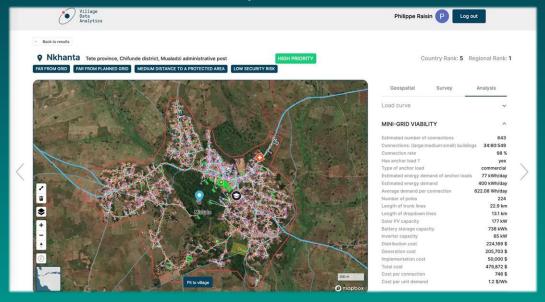
https://business.esa.int/funding/space-for-tourism



#3 ENERGY TRANSITION



VIDA (Village Data Analytics) enables offgrid electrification planning through AI connected solutions for decentralised energy systems.



Gas usage and carbon dioxide emissions from power generation are reduced. Cost and time reduction of over 70% is achieved compared to traditional site scoping methods.



#4 CLEAN WATER



- Water Managers around the world are confronted with new challenges related to climate change and lack proper information on water availability.
- OWASIS draws together information from a variety of sources to improve water resource management and to reduce flood and drought-related risks.
- The service is having a significant impact in the Netherlands, South Africa, and Colombia. Contracts have already been signed with the Dutch Water Authorities, with one regional water authority attributing a cost saving of 150 kEUR to OWASIS due to reduced electricity and fuel usage for pumping systems.

- Clean Water is a key priority topic for the future. ESA BASS is working with CEO Water Mandate to support the development of services that:
 - Improve water sustainability in businesses by tackling issues in the value chain.
 - Digitise water basins to improve the monitoring of
 and acting on water resilience.

ARTES 4.0 Fixed Call for Proposals on "Digitising Water Resilience: Acting on Water Stress in Basins









136 proposals received; more than 40 projects implemented

Coronavirus: da Esa e Mid avviso finanziamento a imprese per progetti su emergenza

APPLICATIONS

Space in response to COVID-19 outbreak

In cooperation with IT
Minister for Technological
Innovation and
Digitization, UK National
Health System and other
stakeholders

ESA's Response To COVID-19

SPACERER

NASA and ESA to fund coronavirus projects

by Jeff Foust — April 1, 2020

Space in Response to COVID-19 Outbreak



Image credit: Sam Wordley

ESA-STAR REF	A010314
ACTIVITY	Demonstration Project
OPENING DATE	31-03-2020
CLOSING DATE	20-04-2020

#6 SMART CITIES INITIATIVES AND STAKEHOLDER ENGAGEMENT





→ THE EUROPEAN SPACE AGENCY

CURRENT BUSINESS APPLICATION FUNDING OPPORTUNITIES





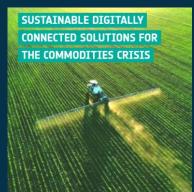




































Thank you! नमस्ते

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→ THE EUROPEAN SPACE AGENCY