







Path to post-Covid Recovery

Webinar

03/06/2020 15:00 CEST

Davide Coppola, Roberta Mugellesi Dow (ESA) Ana Agostinho (Mirpuri Foundation) Paras Loomba (Global Himalayan Expedition)







Davide Coppola



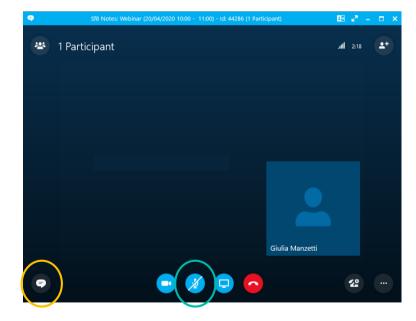




WELCOME TO THE WEBINAR!

Before we start...

- Due to the number of attendees, please keep your microphones muted at all times and switch off the webcam function
- You can use the conversation function anytime to submit your questions. They will be addressed during the Q&A at the end of the webinar



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AGENDA

- ESA introduction
- "Path to post-Covid Recovery" Invitation to Tender
 - Objectives
 - · Examples of applications
- Post-Covid challenges
 - Paras Loomba- Global Himalayan Expedition
 - Ana Agostinho Mirpuri Foundation
- How to apply: funding and tender information
- Open Questions & Answers session









































THE EUROPEAN SPACE AGENCY

Purpose of ESA

To provide for and promote, for exclusively peaceful purposes, cooperation among European states in space research and technology and their space applications.

Facts and figures

- Over 50 years of experience
- 22 Member States
- 8 sites across Europe and a spaceport in French Guiana
- Over 80 satellites designed, tested and operated in flight

































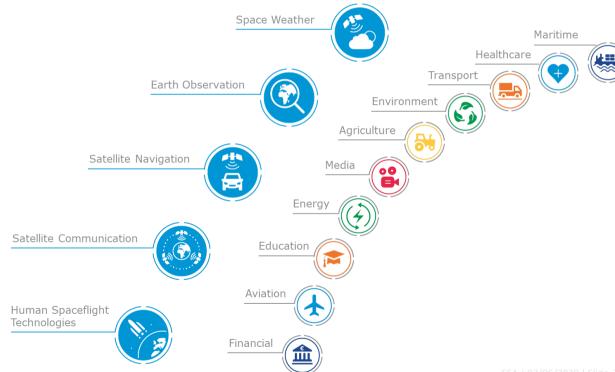






ESA SPACE SOLUTIONS

Could you be leveraging Space technology and data for the benefit of life on Earth?



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WHAT ESA SPACE SOLUTIONS OFFERS



Zero-Equity Funding (€50K-€2M+) Tailored Project Management Support

Access to our Network and **Partners**

Use of ESA Brand for Credibility











































Planned ESA-funded invitation to tender on Path to post-Covid Recovery

ESA Space Solutions is planning on issuing an open competitive tender for a feasibility study to investigate the technical feasibility and economic viability of space based services which can contribute to the post-Covid recovery in several vertical sectors such as transport, energy, travel and others and define a roadmap for services implementation and demonstration.

Invitation to tender planned to be issued in June 2020

Funding up to € 150K per activity (100% ESA funded)

Duration 5 months





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Roberta Mugellesi Dow







OBJECTIVES

- Assess technical feasibility and economic viability of space based services which can contribute to the post-Covid recovery in several vertical sectors such as transport, energy, travel and others;
- Get users/customers commitment towards services implementation and sustainable operation;
- Consolidate the business plan for supporting an informed decision for investment in further activities
- Define a roadmap for services implementation and demonstration (potentially through a follow-up ESA cofunded demonstration project).

































EXAMPLES OF AREAS OF INTEREST

Transport & Tourism

e.g. Seamless and efficient transportation solutions to increase mobility access with sustainable environmental solutions, Digital tourism management.



e.g. remote learning solutions to offer access to quality education and information, telemedicine services.

Energy

e.g. renewable energies distribution, smart grid management.





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EXAMPLES OF AREAS OF INTEREST

Agrifood

e.g. automated operations, digital solutions as record-keeping for the farmers operations, innovation in supply chains and markets to help the farmers in getting the required material and placing their products to market.



e.g. land planning and identification, digital applications for industrial plants, warehouse management with increased use of automation, robots and data analytics prediction algorithms.











VALUE OF SPACE



Satellite Navigation



Satellite Communications



Earth Observation

- Tracking & tracing people and vehicles and guiding to the locations of interest;
- navigating autonomous vehicles, e.g. RPAS;
- This will be particularly useful by helping people to implement social distancing in gueues and other public spaces.
- Provide connectivity where terrestrial communications are insufficient and to increase the communication network robustness and communication resilience, including M2M, voice and data.
- Geospatial data to support planning of infrastructure, demand for transport services,
- Provision of models for people crowding in certain locations
- Provision of weather forecast for planning and optimisation of decommissioning activities







Davide Coppola









Paras Loomba

Founder of the Global Himalayan Expedition











































808 million people – STILL in DARKNESS





Current Rural Tourism Problem



Lack of Basic Facilities



Lack of Education & Livelihood

Results in



imited New Rural Destinations
"Migration of Tribes

& Lost Culture"









UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS 2030



















Alleviate

Poverty

Clean Energy

GHE

Livelihood

Digital Education











1500 Year Old Village Electrified



110
Villages
Electrified

55,000 Lives Impacted 8700 Tons CO2 Offset





























NOW

#Homestays LATER

Post COVID Challenges



Post COVID 19

"Sustainable Tourism will Increase"

- In a post COVID world, people will avoid long haul travel and prefer to travel domestic
 - Additionally, there is a strong inclination to visit offbeat destinations and stay in homestays



Lack of Infrastructure "No Basic Facilities"

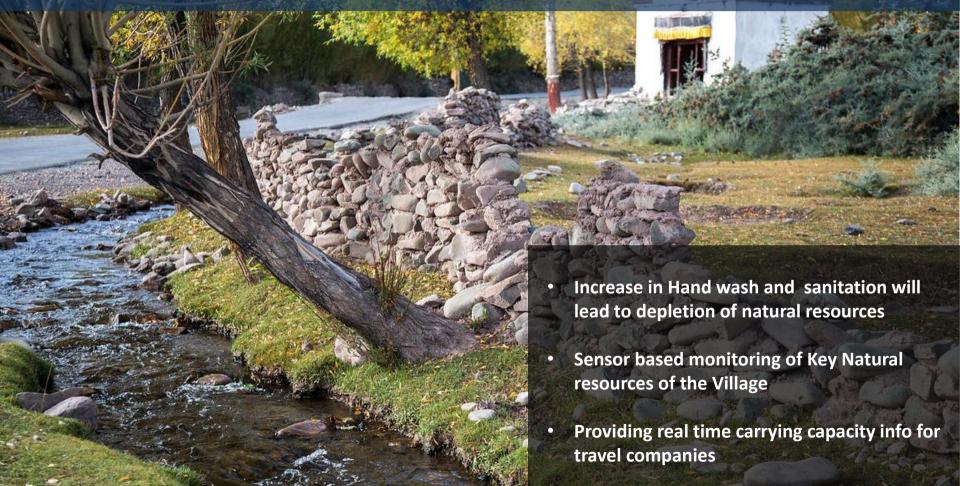
- The village homestays do not have access to basic health care and are most vulnerable
- There are also no basic information and Monitoring facilities that are available at these remote locations



Lost Opportunity "Zero income"

- Travelers will demand basic facilities at accommodations & safety net at these destinations
 - A poor setup will lead to low confidence translating into zero revenues for these communities

Challenge 1 – Destination Natural Resource Monitoring



Challenge 2 – Traveler Accommodation & Safety Updates



Challenge 3 – Portable GPS based Health Monitoring









MIRPURI FOUNDATION

FOR A BETTER WORLD

Ana Agostinho

Mirpuri Foundation

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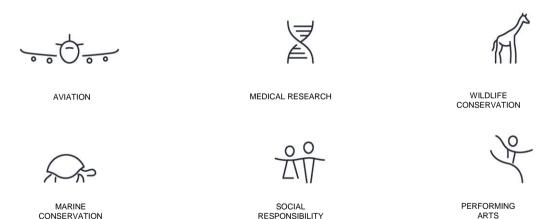






THE PROGRAMS

— Mirpuri Foundation supports programs that can contribute to alleviate or correct the world's problems.















Davide Coppola







ESA TENDER INFORMATION

Funded participation to ESA Space Solutions is open to any company and/or organisation, be it as group of users, public body or non-governmental organisation, residing in the following Member States:

Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland and the United Kingdom



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HOW TO APPLY

- 1. Register (minimum 'light registration') by completing online questionnaire on ESA-STAR Registration (esastar-emr.sso.esa.int)
- 2. **Download** the official tender **documentation** (Invitation to Tender), which will be available as soon as the ITT is open (June 2020) via EMITS (emits.esa.int)
- 3. Create 'Bidder Restricted Area' in ESA-STAR
- 4. Write your Proposal using the template provided in the Tender documentation and obtain Letter of Authorization from your National Delegation (<u>business.esa.int/national-delegations</u>)
- **5. Submit** your proposal via 'Bidder Restricted Area' in ESA-STAR Tendering (<u>esastar.sso.esa.int</u>)

More info can be found here:

esa.int/About Us/Business with ESA/How to do/esa-star Registration Process



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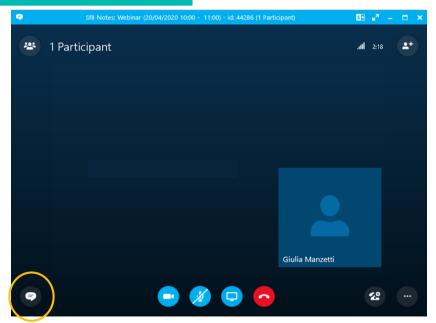






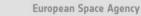


OPEN QUESTION & ANSWER SESSION



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THANK YOU FOR PARTICIPATING

davide.coppola@esa.int Roberta.mugellesi.dow@esa.int

