



Space and Digital Transformation for Green Energy Utilities

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Mohammad Lari | [UK Department for Digital, Culture, Media and Sport](#)

Laura Schade | [UK Department for Business, Energy & Industrial Strategy](#)



Partner-led & Thematic Initiatives Downstream Business Applications European Space Agency

Davide Coppola



Agenda

1. Introduction
2. ESA Space Solutions
3. 'Space and Digital Transformation for Green Energy Utilities' call
4. Mohammad Lari, UK Department for Digital, Culture, Media and Sport
5. Laura Schade, UK Department for Business, Energy & Industrial Strategy
6. How to Apply
7. Q&A



ESA Space Solutions

The largest space innovation network in the world

- The **go-to place** for great business involving space to improve everyday life.
- Supporting European start-ups and SMEs to develop businesses **using space technology and data**.
- Offering **funding, business and technical support** to help to generate successful business and create jobs.



What we offer



Zero-equity funding (from
€50k to €2M+ per activity)



A personalised ESA
consultant



Technical support and
commercial guidance



Tailored project
management support



Access to our international
network of ESA and partners



Access to our network
of investors



Credibility of the
ESA brand



Space tech, users & markets

Space Technology

Earth Observation



Satellite Navigation



Satellite Communication



Spaceflight Technologies



Space Weather



Big Data analytics

VR/AR

Artificial Intelligence

Mega-constellations

Crowdsourcing

IoT

Cybersecurity

Blockchain

5G



<https://artes.esa.int/esa-5g6g-hub>

Users & Market

Maritime



Environment



Financial



Education



Energy



Agriculture



Healthcare



Transport

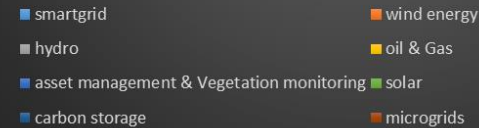


Media



Aviation





Space and Digital Transformation for Green Energy Utilities





Space and Digital Transformation for Green Energy Utilities

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ACTIVITY	Feasibility Study, Demonstration Project
OPENING DATE	11-03-2022
CLOSING DATE	10-06-2022

Opening date: March 2022

<https://business.esa.int/funding/space-and-digital-transformation-for-green-energy-utilities>

ESA UNCLASSIFIED

- Resulting from the cooperation between ESA and the UK Department for Digital, Culture, Media and Sport (DCMS) in coordination with the UK Department for Business, Energy & Industrial Strategy (BEIS)
- the call aims at developing cutting-edge solutions leveraging 5G terrestrial and satellite communication networks, and potentially other space assets, to address the UK Government's priorities in the energy sector
- Scope: Feasibility Study, Demonstration Project



NET POSITIVE ENVIRONMENTAL IMPACT

environmental impact throughout the lifecycle of renewable energy, promoting circular economy, long-term impacts of renewable energy sites, public acceptance

MONITORING RENEWABLE CAPACITY

Increasing efficiency of green renewable energy and safety of operations, seamlessly measure, monitor, and manage the status of the infrastructure

RENEWABLE ENERGY DEPLOYMENT

Planning and bankability of green renewable energy, infrastructure planning (e.g.: electrical vehicle charging points and new grid connection points to optimise grid stability), green financing

SMART ENERGY SYSTEMS

Digitalization of utilities infrastructure, control storage and dispatch of distributed energy resources, monitor major energy flows on the electricity grid in real time, self-healing grids



The power of space



Hybrid terrestrial-SatCom 5G networks: e.g.: low latency communication technologies for real-time network and asset monitoring in remote locations



Satellite Earth Observation – e.g: SatEO data to monitor environmental changes over the lifecycle of deployed renewable generation installations, to monitor onshore wind and solar installation sites and assess key factors like degradation, cleaning, and necessary replacement



Global Navigation Satellite Systems (GNSS) – e.g: UaV operation

ESA-ECSAT 5G/6G Hub

- A collaborative place
- 5G Engineering Lab
- 5G Demonstrations and Applications
- Events and Showcase



ESA-ECSAT 5G/6G Hub

- Benefit from testing your technology solution in a state-of-the-art hybrid satellite-terrestrial 5G lab environment
- Accelerate your technology development
- Showcase your technological solution



5G@esa.int



Mohammad Lari



UK Department for Digital, Culture,
Media and Sport



Laura Schade



UK Department for Business, Energy
& Industrial Strategy





Outline Proposal

Full Proposal

1

Industry pitch submission and early engagement with Delegations

First batch

11 Mar '22 to 10 June '22

Second batch

13 June '22 to 30 Sept '22

2

ESA reply and consultation with Industry and Delegations for orientation

3

Industry Outline
Proposal submission

4

ESA
recommendation
to Industry on
Full proposal
submission

5

Industry Full Proposal submission under existing implementation lines.
Letter of Support from Relevant Delegate(s) shall be provided with Full Proposal

Q&A

Thank you!

For more information visit

→ <https://spacesolutions.esa.int/>

→ <https://business.esa.int/funding/space-and-digital-transformation-for-green-energy-utilities>

