SPACE4CLIMATE

Market Breakthrough Open Collaboration Funding Opportunity

7th July 2023

Krupa Nanda Kumar – Climate Services Development Manager
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AGENDA

09:30 - 09:35: Introduction and Housekeeping
09:35 - 09:40: Welcome Note by Beth Greenaway, Head of EO and Climate, UK Space Agency, Chair of Space4Climate
09:40 - 10:00: Market Breakthrough Collaboration opportunity launch and info session - Krupa Nanda Kumar, Climate Services Development Manager, Space4Climate
10:00 - 10:15: Q&A
10:15 - 11:15: Collaboration Session 1: Parallel session of choice
Breakout room 1: Sustainable finance
Breakout room 2: Net Zero 1 - Agriculture
11:15 - 12:15: Collaboration Session 2: Parallel session of choice
Breakout room 1: GHG Emissions
Breakout room 2: Net Zero 2 - Energy
12:15 - 12:30: Further Q&A and Close

HOUSEKEEPING

- This meeting is being recorded
- Please turn off your mic unless you are the speaker
- Cameras can be left on
- If you have a question, please use the Q&A function and not the chat
- We will be sharing the parallel collaboration session Teams links in the chat, please choose the one you want to join when prompted

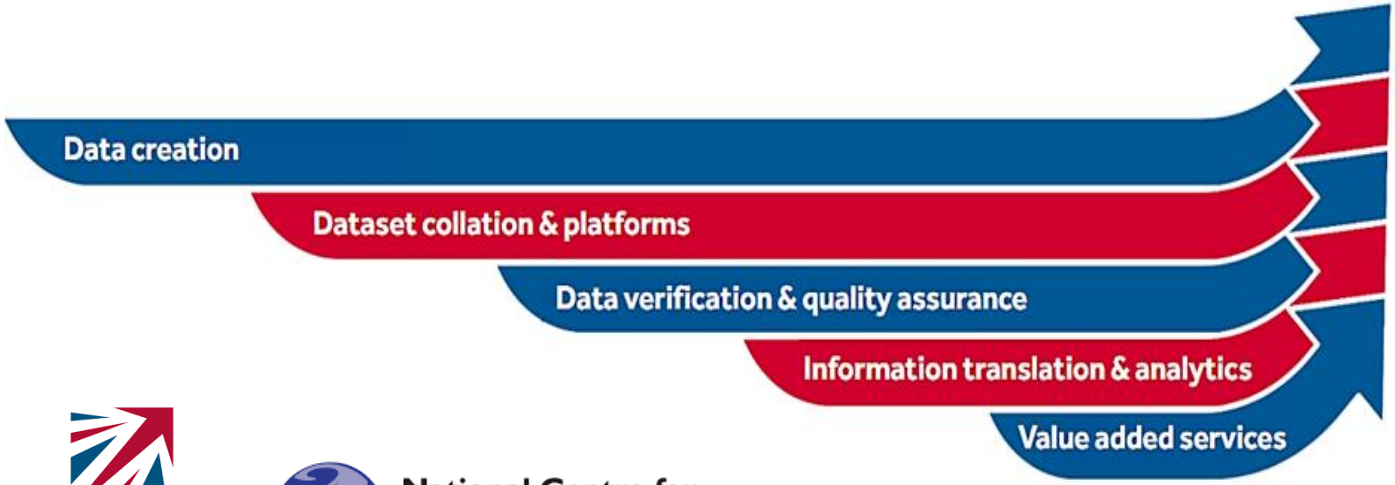
WELCOME NOTE

Beth Greenaway, Head of EO and Climate, UK Space Agency & Chair of Space4Climate

MARKET BREAKTHROUGH COLLABORATION FUNDING INFORMATION

Krupa Nanda Kumar, Climate Services Development Manager
Space4Climate

UNITING UK SPACE-ENABLED CLIMATE EXPERTISE AND SERVICES



Convene the satellite EO climate community

Showcase UK space climate service capabilities and successes

Facilitate the exploitation of climate data from space

Host and support climate development innovation activities

UK SPACE AGENCY

National Centre for Earth Observation
NATURAL ENVIRONMENT RESEARCH COUNCIL

THE BOARD

Chair
Beth Greenaway
Head of EO and Climate
UK Space Agency

Vice-Chair
Donna Lyndsay
Strategic Market Lead – Environment & Sustainability
Ordnance Survey

Oliver Vaughan
Head of Earth Observation
Department for Food and Rural Affairs (Defra)

Geoff Busswell
Head of Marketing & Sales
Telespazio UK

Prof. John Remedios
Director
National Centre for Earth Observation (NCEO)

Alan Whitelaw
Senior Project Manager
CGI

Prof. Chris Merchant
Professor in Ocean and Earth Observation
NCEO & University of Reading

Prof. Nigel Fox
Head of Earth Observation
National Physical Laboratory (NPL)

OUR MEMBERSHIP

- Our members span government, industry and academia, working in partnership
- We support the UK's world-leading climate science and services community
- We enable a seamless supply chain of climate data from space

www.Space4Climate.com @Space4Climate Space4Climate

INFLUENCE

1,315

1,259

624

+ Newsletter subscribers 186

8 SPACE CLIMATE

High quality communication workshops

21

Talented Space4Climate Champions

&

In the last two years...

22 Events attended

7+ Events hosted

5 Briefing notes for Government

4 New collaborations

2 COPs exhibited at

2 Climate Service Demonstrators

ENGAGEMENT

OPPORTUNITY DETAILS

Space4Climate has launched a new-style funding opportunity for a collaborative initiative with the aim of making a difference to the whole Earth Observation for climate community, for the benefit of the global response to climate change. **The call will fund four UK-led collaborations with up to £75,000 each (incl VAT).**

The aim of this collaboration funding is to speed up the rate of adoption of satellite-based climate services. Four teams will collaborate to provide market validated recommendations of solutions across 4 climate critical sectors –

- Sustainable Finance
- GHG Emissions
- Net-Zero 1: Agriculture
- Net-Zero 2: Energy

There continues to be high barriers (technical, commercial and structural) to adoption across the private sector and it is imperative to address these to accelerate uptake of climate data and services for global climate and Net Zero action.

Research has pointed to the importance of active collaboration between experts and decision-makers and investing in translational work to bridge the gap between scientific data and decision processes.

OPPORTUNITY DETAILS

Global Satellite Data Services Market to Reach $44 Billion by 2030

The global economy is at a critical crossroads with a number of interlocking challenges and crises running in parallel. The uncertainty around how Russia`s war on Ukraine will play out this year and the war`s role in creating global instability means that the trouble on the inflation front is not over yet.

May 11, 2023 06:56 ET| Source: ReportLinker Follow

Net Zero | May 1, 2023

Satellites can help the world reach net zero by 2040 – Inmarsat

Energy Monitor talks to Inmarsat's Jat Brainch about the company's recent research suggesting that wider adoption of satellite technology could reduce global greenhouse gas emissions by 18% and bring the net-zero transition forward by ten years.

By Oliver Gordon

Cosmos Magazine

Satellites can track CO2 emissions in real-time, leaving polluters nowhere to hide

Scientists have shown that for large super-emitters of carbon dioxide, 'tracking-at-the-source' is already possible, even with existing...

13 Nov 2022

UK missing climate targets on nearly every front, say government's advisers

'Data, data, data' remain biggest challenge to TCFD adoption

by Sarah Moloney 4 April 2022

Half of UK businesses already impacted by climate change, survey reveals

By Half of UK businesses already impacted by climate change, survey reveals

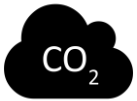
26th April 2023

GREENHOUSE GAS PROTOCOL · GRI · SASB · PRI · FASB · SDG Impact · INTEGRATED REPORTING · IR · PCAF · OECD GUIDELINES FOR MULTINATIONAL ENTERPRISES · SCIENCE BASED TARGETS · ISSB · CDSB Climate Disclosure Standards Board · CDP · EFRAG European Financial Reporting Advisory · REPORTING FRAMEWORK · VOLUNTARY PRINCIPLES ON SECURITY & HUMAN RIGHTS · ISO 26000 SOCIAL RESPONSIBILITY · SFDR · UNEP FINANCE INITIATIVE · PSI Principles for Sustainable Insurance · B Impact Assessment · wbcsd · EQUATOR PRINCIPLES

OPPORTUNITY DETAILS

Sustainable Finance

Policies and regulations around climate risk disclosures are driving demand for geospatial data and analytics + technologies for capturing and processing geospatial data rapidly continue to improve.



GHG Emissions

33+ relevant satellite missions and instruments both in orbit and in planning were identified in the database of GHG monitoring capabilities from space underpinning the analysis.

Net-Zero : Agriculture

Agriculture is a major source of both nitrous oxide and methane emissions in the UK, accounting for 69% of total nitrous oxide emissions and 48% of all methane emissions in 2020.

Net-Zero : Energy

The energy sector is grappling with options to limit the rise in global temperature and achieve net-zero CO2 emissions targets. Meeting these ambitious goals will require far-reaching energy transitions in electricity, transportation, buildings, and industry.

COLLABORATION DRIVES CLIMATE ACTION

OPPORTUNITY DETAILS

Technical product & service developments – upstream and downstream

Unknown market barriers for technological advancement

New database creations

Demand side + supply side co-operation

Translation providers to bridge the gap

Sector wise gap analysis

Common data integration framework

Pilots to understand sector wise cost-benefits

Commercialisation innovation

Market regulatory landscape analysis

In-dept market specific workshops

Accurate modelling scenarios

....and more!

OPPORTUNITY DETAILS

Project size and funding: A total of up to £300,000 (inclusive of VAT) is allocated for the 4 themes, with maximum costs of up to £75,000 (incl VAT) for each theme

Project Duration: Minimum 12 months and maximum 15 months (projects need to be completed by December 2024)

Funding type: Procurement

Project scope: UK private sector – global scalability, local markets

Project output: Open access

Eligibility

- Organisations/entities across academia/research and industry can be international and of any size
- Lead organisation must be registered in the UK
- Form a collaborative project team with a minimum 3 others from business, research organisations and/or sector end users worldwide

4 Themes

4 Consortia

1 Proposal per theme only

Knowledge for all

OPPORTUNITY DETAILS

Projects **must** -

- Demonstrate significant support and engagement from relevant UK sector end users or customers
- Proposal must address sector specific barriers and be backed by relevant literature or end user statements
- Provide a clear market solution or recommendations to 1 or more key barriers that benefit both research and industry
- Outputs must show potential for positive economic and societal impact
- Outputs must address any relevant market regulatory issues and constraints

Projects **must not** –

- Focus on one type of user or actor but address broader market needs
- Be a R&D project

Important dates:

- **7th July 2023** – Online briefing and fund launch
- **11th July 2023** - Lead organisation selection communicated to Space4Climate
- **26th July 2023** – Consortium submits *Expression of Interest* (EoI)
- **31st July 2023** – Space4Climate panel feeds back on EoI to the 4 project teams
- **16th August 2023** – Final proposal submission
- **1st September 2023** - Projects start
- **End of October (date TBC)** - COP28 showcase milestone
- **2024/2025 (date TBC)** - Final presentations

OPPORTUNITY DETAILS

Other Project key details

- Detailed Terms and Conditions is provided on the funding call page on our website
- Project teams may include in-kind support from external contributors if needed
- We do not anticipate any IP to be developed during this project
- The open nature of the project means that all outputs obtained must be made available to Space4Climate for its knowledge exchange activities
- Space4Climate will not prepare any contracts for the work and the lead entity will have to enter into an MoU or collaboration agreement with the consortium. Space4Climate will place a master order to confirm funding award and make payments against set milestones
- Each theme will be championed by an expert from the sector who will act as a point of contact for guidance for the duration of the project. Project PoCs will be confirmed once proposals have been submitted

Key benefits and outcomes

- Community-led initiative for the benefit of the UK space climate sector
- Collaboration not competition
- Outputs from all 4 projects will be disseminated by Space4Climate through a series of KE activities to lower the barriers for all
- Project teams will be leading a market disruption activity, creating an impact for the entire sector
- Project teams will receive due credit for the outputs generated throughout the KE process

Q&A

Up Next : Networking breakout sessions

THANK YOU

Contact us:

space4climate@reading.ac.uk

k.nandakumar@reading.ac.uk

The funding call is now launched on our website under our News tab !!

AGENDA

Breakout room links for each room are posted in the chat

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