International Partnership Programme: Using Space to Achieve the UN Sustainable Development Goals

David Taverner – david@caribou.space

Senior Director – Caribou Space, representing UK Space Agency IPP

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Space Solutions for Sustainable Development

Space-applications are increasingly relevant to developing world challenges

Space systems, including communications, earth observation and navigation satellites, can deliver on-the-ground development impact

Space and sustainable development sectors are collaborating and partnering now more than ever before

International organizations and developing country governments are building capacity to leverage space applications
UK Space Agency is responsible for the UK civil space programme.

Committed to demonstrating societal and economic value of satellite-derived services.

Promote international partnerships to deliver sustainable development in emerging and developing economies.

Funding access to the UK commitment on ODA via Global Challenges Research Fund (GCRF).

The International Partnership Programme – the largest programme of its type in the world.

£30 million p.a.
5 year UKSA investment plus additional partnership co-funding finance and support

33 Projects across 40+ ODA Countries

120+ organisations
Eligible nations must be part of the OECD DAC List of ODA Recipients.
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<th>Majority of Portfolio:</th>
<th>Minority of Portfolio:</th>
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<tr>
<td>• Disaster Resilience</td>
<td>• Education/Skills</td>
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<td>• Forestry/Land</td>
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Projects assessed on their applicability to the UN Sustainable Development Goals
How do we deliver the IPP?

- A series of sector calls over 5 years
- Based on a “sustainable model” – the projects are the ideas of the international bidding consortia, NOT the UK Space Agency
- Grants of 50%+ offered to facilitate projects over the course of five years (2016-2021)
- Rigorous monitoring and evaluation of the impact, benefits and sustainability of each project (5-15% of budget effort)

### Scoping
- Short exercise to establish viability of idea prior to Open call – aimed at SME’s to create partnerships in readiness to submit to the main calls

### Open
- Applications submitted on any theme linked to the objectives of the IPP

### Tactical
- Pre-defined topics offered by specific countries (i.e., Malaysia) around specific challenges which should be addressed by the applicant

### Strategic
- Pre-defined themes for applicants to address: i.e., DFID’s ‘The use of satellite data and technologies in disaster risk management’. 
Monitoring and evaluation occurs throughout the IPP lifecycle

Evaluation of the programme focus on three key areas:

- **Process** Evaluation
  How was IPP and the individual projects delivered?

- **Impact** Evaluation
  What difference did IPP and the individual projects make?

- **Economic** Evaluation
  Did the outcomes and impacts of IPP and the individual projects justify the costs?
IPP Cost-effectiveness Analysis

• All projects conduct cost-effectiveness analysis under guidance from Caribou Space and London Economics (Space Division)

• The recently published ‘Economic evaluation of IPP: Cost-Effectiveness Analysis’ highlights that space solutions are:

  • 12 times more cost effective at delivering sustainable forestry
  • 7 times more cost effective in supporting agriculture
  • Twice as cost effective for ensuring disaster resilience
25,000 farmers involved

12 disaster events supported

341 health workers trained

34,000 students educated

45 fisherfolk lives saved

53,000 barrels of oil (spill) identified

300,000 ha of forests saved
IPP – after 30+ projects, what makes the **best** projects...

- Smart eGov
- Pragmatic
- Local Experts
- Champions
- Training
- Field Trials
- Partner Fit
- Testable Metrics
Mongolia: Improved resilience herding communities to winter dzuds

Project Lead: eOsphere

International Partner: National Agency for Meteorology and Environmental Monitoring of Mongolia (NAMEM)

Project 2018-2021

Objective: Improve the winter dzud-resilience of the Mongolian herding population by better integrating new satellite-derived environmental information into existing government and insurance networks.

Approach: EO products will include those providing information on grazing capacity, snow depth and ‘dzud risk maps’ aiming to predict the likelihood of a dzud events in advance.
Philippines: Reducing impact of natural disasters using Satcom

Project Lead: Inmarsat Global plc

International Partner: Dept of Social Welfare & Devt, Philippines
Project 2017-2019

Objective: To improve disaster resilience preparedness and response by using satcom
Approach: Preposition powerful yet easily deployable telecoms equipment (Global Xpress) in 5 key regions - supported by training

Typhoon Haiyan 2013 - deployment of emergency comms to the Incident Control Post was slow and inefficient - 1.5 million families were affected, 6,300 people were killed and there was $2 billion of damage....
Bridging the space & development worlds

'Space for Development' is the use of space for positive impact on society, economy and environment, for all countries.

Space provides capabilities to solve challenges across climate change, disaster resilience, agriculture, forestry, maritime, health, education and industry.

This website provides a view of the knowledge, initiatives and community using space for development benefits. It is managed by Caribou Space, and is supported by the UK Space Agency International Partnership Programme.

Sharing knowledge on: www.spacefordevelopment.org
Thank You for listening

david@caribou.space

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