UK Space Agency and International Partnership Programme (IPP)

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http://www.bis.gov.uk/ukspaceagency
International Partnership Programme

- 2016-2021
- £152M over 5 years (approx £30M p.a. from UKSA)
  - plus partner finance
- Focus on supporting emerging and developing economies
  - those on OECD DAC list
- Opportunities for both sides
- Annual call-based awards system; anyone can bid; independent selection process
- Monitoring and Evaluation (M&E) are key throughout
- Calls 1 & 2 = 33 projects funded in 33 countries
IPP – example topic areas

- Environmental Protection
- Crop Health
- Maritime Security
- Urban Planning
- eFinance
- eHealth
- eEducation
- Low Cost Broadband
- Drought
- Pollution
- Disaster Response
- Forestry
- Food Security
- Illegal Fishing
- Illegal Logging
- Pest Control
IPP – a **collaborative** approach

**Public Service**

**User Need**

**Local Skills**

**Local Champions**

**Education & Human Capital**

**Field Demos**

**Shared Commitment**

**Sustainable**
International Partnership Programme to date

33 projects
33 countries
Sustainable Fishing – Indonesia

**Project lead:** Inmarsat

**International partner:** Ministry of Marine Affairs and Fisheries (KKP)

**Focus area:** Using satellites to improve safety, economic productivity and food security for small and mid-scale fisheries in Indonesia

**User need:** The Indonesian fishing sector is a critical driver of the economy and society, supporting 7 million fishers. However environmentally and unsustainable fishing, including Illegal, Unreported and Unregulated fishing, harms the entire value chain, and introduces safety and security challenges.

**Space solution:** Inmarsat L-band satellites provide highly reliable global coverage of vessels at sea with a range of services that allow incremental value delivery to address different fisher demographics.

**Deliverables:** Services are delivered to fishers through a low-cost tablet on board the vessel, working in concert with a small embedded computer to minimise satellite data costs.
SatComs – Philippines

**Project lead:** Inmarsat

**Focus area:** Providing the Philippines with satellite communications to reduce the impact of natural disasters

**User need:** The Philippines suffer over 20 cyclones annually, as well as frequent volcanic eruptions and earthquakes. Despite being highly experienced at responding to rapid onset disasters, improvements are sought in the deployment of crisis communications

**Space solution:** Inmarsat’s Global Xpress terminals allow communications at speeds not previously possible for emergency response teams and therefore provide a step change for disaster response. Advanced bandwidth management improves usage efficiency and keeps costs

**Impacts:**
- Reduced adverse impacts of disasters and reduction in immediate secondary effects
- Improvements in survivorship, disease and hardship
- Lessening of economic damage through reinstatement of basic facilities as rapidly as possible
Forests 2020 – Indonesia +

**Project lead:** Ecometrica

**Focus area:** Protecting and restoring forests across the world (Indonesia, Brazil, Mexico, Colombia, Ghana, Kenya)

**User need:** Despite frameworks to help developing countries protect and restore forest resources, inadequate monitoring systems remain a barrier to effective implementation

**Space solution:** Detecting change in forests (deforestation and degradation) using optical and radar satellite imagery; incorporating observations into risk models to map risk of deforestation and forest fires, and suitable areas for restoration; and improve digital infrastructure to manage and disseminate forest-related data

**Impact:** Protection and restoration of >300 million hectares of tropical forest by improving national forest monitoring systems in six partner countries through better applications of satellite data
**Project lead:** Avanti Communications

**Focus area:** Supporting e-education in Tanzania

**User need:** Tanzania has over 100,000 teachers with limited access to online educational resources due to poor internet connectivity and insufficient ICT training, impacting the education and development of students

**Space solution:** using satellite technology (HYLAS 2) to deliver high-speed broadband to over 250 schools in Tanzania for use by teachers to access and deliver online educational content for teaching and admin activities

**Deliverables:**
- High-speed broadband connectivity via satellite
- ICT equipment to access online resources
- Educational Portal in Swahili and English for use in the classroom
- Equipping teachers with digital skills training and new teaching methodologies to develop student-centred lessons
Future possibilities

- Maximise sustainability – learnings to date
  - Explore options where service becomes a by product of commercial sale
  - Explore options where an identifiable public good service is provided (EASOS)
  - Explore options where there is a clear commercial need and business case but no technical expertise
    - Insurance risk market
    - Agricultural sector
    - Timber / fish provenance
  - Explore wider aid sector long term strategies such as education