



International Partnership Programme Call 2 – Short Study

Requirements Analysis for Fire Information Systems for South America and Southeast Asia.

Gerardo López-Saldaña

What is the IPP?

- The UK Space Agency's International Partnerships Programme (IPP) is a £152M multi-year programme, which will use expertise in space based solutions, applications and capability to provide a sustainable, economic or societal benefit to emerging nations and developing economies.



Goals of the IPP

- Primary Aim:
 - Using UKSA's expertise and capability delivered through industry and academia, to deliver solutions whose outputs lead to a measurable and sustainable economic or societal benefit/impact in chosen partner country or region
- Secondary Aim:
 - Develop valued and sustainable partnership arrangements which lead to growth opportunities for the Space community
 - Show the additional capability that space based solutions and applications have over terrestrial systems or can be added to bring benefit
 - Use industry's and academia's unique expertise to complement existing effort or lead in areas where we have the expertise



Open call (1)

The main open call will be fully open but will have two key areas of strategic emphasis. These are:

1. **Geographical.** Although proposals for all areas of the world will be considered. UKSA would like to place special emphasis on the following regions:
 - a) South and Central America
 - b) North and West Africa
 - c) Applicable members of the Commonwealth
 - d) Applicable Pacific Island states
 - e) South East and Central Asia (excluding China, India and Pakistan)

Proposals which include partners not in these regions will not be excluded or marked down, but they will not be eligible for the extra marks awarded for working in these regions.

In Line with IPP general rules, the countries proposed **must** be on the official DAC list.



Open call (2)

The main open call will be fully open but will have two key areas of strategic emphasis. These are:

2. Prioritisation of United Nations Sustainability Goals. Building on the results of Call 1, IPP is placing strategic priority on new or under represented SDG's. these are:

- a) SDG3 Good health and well-being
- b) SDG12 Responsible consumption and production
- c) SDG13 Climate action
- d) SDG15 Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss



Short study - Requirements Analysis for Fire Information Systems for South America and Southeast Asia (1)

- Burning of agricultural residues and landscape burning of forests and peatlands impact on public health (e.g. poor air quality), threaten homes and livelihoods (e.g. where human settlements are close to forest areas), result in biodiversity loss and contribute to climate change (SDG 3, 12, 13, 15)
- The study will identify requirements for an operational probabilistic fire danger rating and early warning fire alert system for South America and Southeast Asia, based on Earth Observation (EO) data and ensemble forecast meteorological data.



Short study - Requirements Analysis for Fire Information Systems for South America and Southeast Asia (2)

- Current systems are inadequate due to short forecast lead times and poor spatial accuracy, inhibiting effective operational responses. The study will identify and refine user requirements of government and public sector institutions, research institutes and companies in the environmental sector.
- Building on recent research results, we will identify relevant EO data sources, ensemble meteorological forecast data, air quality models and various environmental and socio-economic data that are required to develop a system providing operational information about pre-fire landscape dryness and vegetation condition, for fire detection and air quality (AQ) forecasting.



Short study - Requirements Analysis for Fire Information Systems for South America and Southeast Asia (3)

- The aim is to provide wildfire alerts up to 7-days in advance
- Additionally, early fire detection and real time evolution will enable preventative measures on public health protection, e.g. poor air quality alerts
- We will also investigate how the system could contribute to improved understanding of the impact of fires on biodiversity loss – recently recognised as a significant issue, and support effort around wildfires and climate change.



Short study – potential partners

Requirements Analysis for Fire Information Systems
for South America and Southeast Asia

- Argentina (National Agricultural Technology Institute)
- Brazil (National Institute for Space Research)
- Colombia (University of Medellin)
- Indonesia (Ministry of Environment and Forestry)
- Vietnam (Institute of Environmental Science and Engineering).



Call 2 constraints

- The maximum UKSA grant limit for any single project will be £10M. Projects can have a value over this limit but the UKSA contribution will be capped at £10M
- Projects must complete by March 2021. UKSA does not have funding to cover proposals which require spend after this point.



Grant

Projects should deliver a tangible end result; therefore we are expecting grants to reflect these costs. The grant applied for should reflect the nature and scale of the activity.

Organisation type	Grant Funding (% of total project cost)
Large companies	50%
Medium companies	60%
Small companies	70%
UK universities, research organisations, NGOs	80%
Overseas universities, research organisations, NGOs	100%



International partner

- All projects must have a clearly identified international partner on the Organisation for Economic Co-operation and Development (OECD) Development Assistance Committee (DAC) list in place. This could be with overseas Government organisations, research institutes or local private sector companies or could be with international organisations (e.g. NGOs) operating in an overseas market. The background qualification of international partners will be assessed for suitability by the panel.
- A letter of confirmation of support from the international partner will also be required as part of the application. This letter must detail what support the partner will provide.



International partner – funding arrangements

- The international partner **must** be involved in the project i.e. commitment of funding, people resource, equipment, facilities etc. This must be made clear in the application.
- If your international partner is an overseas university, research organization or NGO they will be eligible for 100% **match funding**.



Full proposal

- Proposal text no more than 23 pages!
 - a one page GANTT chart
 - a one page Theory of Change (see 4.4 Theory of Change)
 - a one page Logical Framework (Logframe) (see 4.5 Logical Framework)
 - In addition to this page limit we will also require annexes that include the following documents:
 - Annex 1: to include all letters of commitment from international and UK partners
 - Annex 2: a detailed financial breakdown using the excel template provided (see the IPP Application Documents for this template)
- Closing date: 5th September 2017

