



# International Partnership Programme

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# Who we are

- 270 staff across 3 locations

- £430 million budget

- An executive agency of the Department for Business, Energy and Industrial Strategy  
- Responsible for UK civil space programme

- Manage UK's involvement with ESA missions & programmes

- Both industrial and science focus

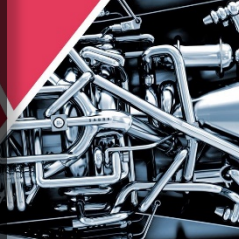
- Engaged with government departments and partner countries

Future Collaborations

Graham Turnock, CEO of the UK Space Agency and Sam Gyimah, Secretary of State for Business, Energy and Industrial Strategy have both attended meetings with NASA Administrator Jim Bridenstine. These meetings have opened doors to talk about great opportunities, and technological developments.

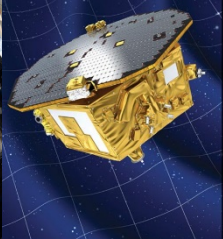


Reaction Engines has secured backing from some of the most influential names in aerospace and finance, raising £26.5 million which will support its development of SABRE.



### Space for disaster resilience in developing countries

Using space solutions to help solve environmental and societal challenges.



Scientists in on world's first Wave Space which will st space and

NovaSAR-1 data will monitor the location of oil spills and aid flood, agriculture and forest management

Did you know?

Satellite data and ground sensors are being used to monitor urban air pollution in Bicester and Belfast, helping local councils manage their town planning.



The UK government sees small sats as a UK strength in all aspects - it is investing across the value chain to support further growth and excellent science and academic endeavour.

Catherine Mealing-Jones  
Director, Growth



Our Chief Engineer

Could you help us new orbital systems



## LAUNCH UK

SPACEFLIGHT EVENT

"The Aeolus mission is a great example of the potential real-world impacts that space can have on Earth."

Sam Gyimah MP  
Member of the Science, Innovation, Research and Innovation

Space junk: the facts

5,500 tonnes of junk, 20,000 objects tracked. Some travelling at 17,500 mph.

The UK space sector is working to tackle the problem.



UK science aims to measure 'Marsquakes' for the first time as part of NASA's mission to study the heart of Mars.

Satellite technology can deliver innovative solutions to real world problems. The UK Space Agency, Astrosat and the Guatemalan authorities are working together to tackle illegal logging as part of the International Partnership Programme.



### Space for agriculture in developing countries

UK space solutions can help tackle the major global issues facing the agriculture sector.



"From our market leadership in small satellite construction to our world leading universities Scotland and the UK comes from a position of strength in the global space sector which will be turbo boosted by the first new spaceport and our Industrial Strategy."

The Rt Hon Greg Clark MP  
Secretary of State for Business, Energy and Industrial Strategy



The UK and France agree to work closely on space projects, including the search for life on Mars.

#UKFRSummit #tousjoursvoisins



"Thanks to this new funding, Spire will be able to cement its activities in the UK, develop new technologies and use space data to provide new services to consumers that will allow businesses access space quicker and at a lower cost - offering an exciting opportunity for the UK to thrive in the commercial space age."

Dr. Hon. Lord Hensley  
Business Minister



### Space for forestry in developing countries

The UK space industry has a critical role to play in addressing major challenges confronting the forestry sector.



Are you involved in microgravity or space environments activities in the UK?

We are surveying the state of the community.



We are ensuring the UK stays ahead of the competition with £99m for a National Satellite Testing Facility.



Exciting opportunities available for industry players in the new space sector will be available to recent graduates or postgraduate students.

We are working with industry and academia to support cutting-edge research that will lead to new discoveries about our galaxy."

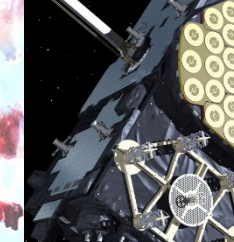
Graham Turnock  
Chief Executive, UK Space Agency

UK Space Agency  
sources and sinks of carbon, and contribute to international efforts to analyse the driving forces behind climate change.

GREEN GB WEEK #GreenGB

### ExoMars rover naming competition

The rover will be the first of its kind to travel across the Martian surface and drill down to determine if evidence of life is buried underground.



The UK has a world-leading space sector, which has been involved in Galileo since the early 2000s, building payloads, operating ground stations and developing the system's security.



"As the Government has should begin work now a national alternative to Galileo our satellite positioning, timing needs are met in the UK. The UK Space Agency is lead this work and will use its expertise from across the engineering and security

Dr Graham T...

# UK Space Agency and 'International Partnership Programme'

- ▶ IPP funds projects which use cutting-edge UK satellite expertise to support developing nations by delivering a **positive, practical impact** on people's lives on the ground
- ▶ Committed to demonstrating economic and societal 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)



**IPP – currently the largest  
'space for sustainable development'  
programme in the world**

**£30 million p/a**











Five-year UKSA investment plus **additional** partnership co-funding finance and support

Applying to **12 SDGs**

**33 projects** across  
**44 ODA countries**

**120+ organisations**

# Summary of IPP Results to Date

|  |  |   |   |  |                                |
|--|--|---|---|--|--------------------------------|
| <b>Actionable Intelligence Delivered</b> | IPP tools used in >12 disaster situations<br>Volcanoes, typhoons, floods and armed conflict<br>Facilitating evacuation planning, return home plans, victim identification and family tracing | <b>1 NO POVERTY</b><br>                    | <b>8 DECENT WORK AND ECONOMIC GROWTH</b><br> | 986 boats equipped with vessel monitoring<br>6,635 fishers and 25,000 households benefitting<br>45 fishermen rescued in five rescue events   | 45 Lives Saved                 |
| <b>47,000 Farmers Engaged</b>            | 47,000 farmers engaged (directly and indirectly) receiving information<br>Decision support for planting, fertiliser application, irrigation timing and pest management                       | <b>2 ZERO HUNGER</b><br>                   | <b>13 CLIMATE ACTION</b><br>                 | Network of experts in place in Small Island Developing States to build capacity and support Climate Finance Applications   | Capacity for Climate Finance   |
| <b>300+ Health Workers Trained</b>       | 341 health workers trained in remote areas<br>75% attained passing grades<br>Empowerment to provide life-saving care to pregnant women and newborn infants                                   | <b>3 GOOD HEALTH AND WELL-BEING</b><br>    | <b>14 LIFE BELOW WATER</b><br>               | Over 25km <sup>2</sup> of oil slicks detected and intercepted before making landfall, saving at least £1.5 million in clean-up operations<br>Supporting clean-up activities, and prosecution of potential culprits | 50,000+ Barrels Intercepted    |
| <b>30,000+ Students Benefitting</b>      | Satellite internet access for 312 schools<br>Trained 574 teachers, benefitting 34,000 students<br>96% of students increased use of ICT in classroom  | <b>4 QUALITY EDUCATION</b><br>            | <b>15 LIFE ON LAND</b><br>                  | 40 million hectares of forests under observation<br>383,000 hectares of deforestation avoided<br>14 land titles issued to smallholders in Peru   | 40 Million Hectares Monitored  |
| <b>Scenario Planning Improved</b>        | Modelling scenarios to reach as much as 100% renewable energy by 2030 in Small Island Developing States  | <b>7 AFFORDABLE AND CLEAN ENERGY</b><br> | <b>17 PARTNERSHIPS FOR THE GOALS</b><br>   | 90,000 parcels of land digitised in Dakar City<br>Only £9-13 million of property tax is collected<br>Accurate space-enabled database could increase this to £66 million<br>Could further grow 5-10% per year       | £66 Million Property Tax Boost |



# Thank you for listening

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