

Using satellite data for climate action

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Chair Space 4 Climate.

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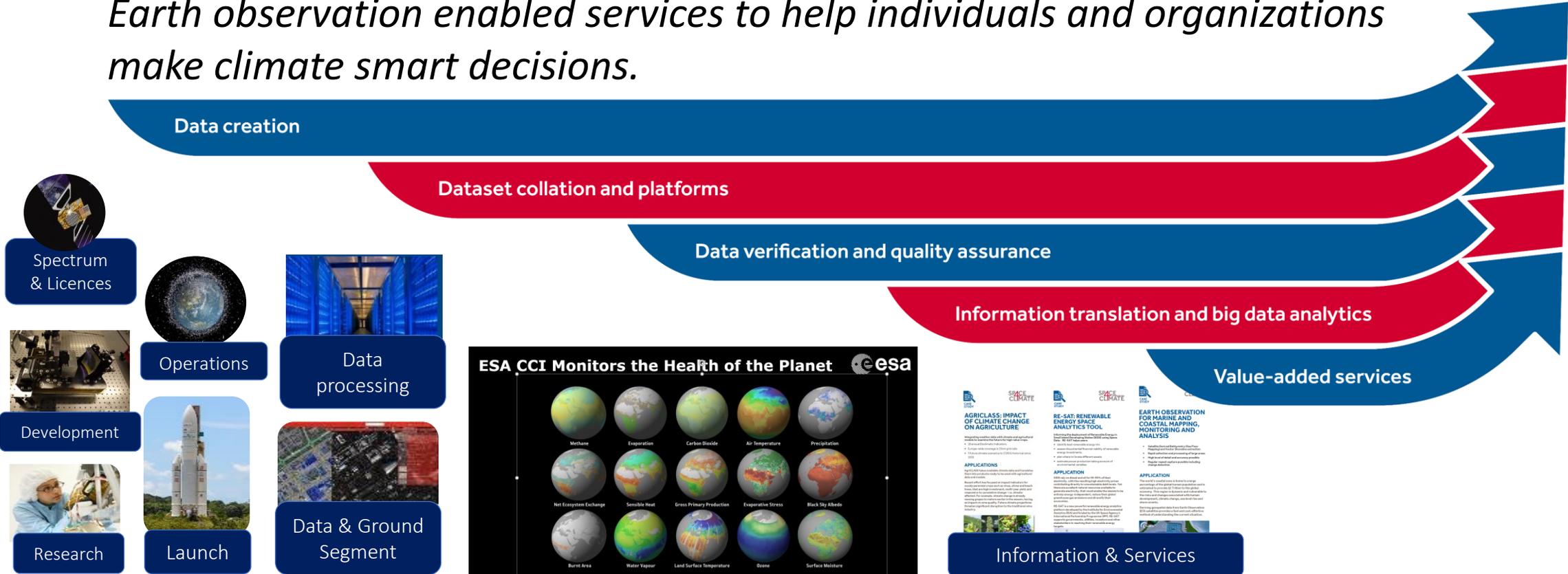


The **UK's vision** by 2040 is to **maximise** the potential of **Earth Observation** – for the economy, science and society – by **providing** the quality-assured **data** required to underpin mass market and business **applications**, cutting-edge **science**, and the development of effective and efficient **policy** and operational **decision making**.



From mission to action: a seamless chain

UKSA supports the entire value chain underpinning the creation of satellite Earth observation enabled services to help individuals and organizations make climate smart decisions.





UN CLIMATE CHANGE CONFERENCE UK 2021

IN PARTNERSHIP WITH ITALY

UK COP26 incoming President and COP26 lead within Cabinet Office
Minister Alok Sharma

Cabinet Office COP26 Unit

COP26 Regional Ambassadors
Paul Arkwright (Sub-Saharan Africa)
Laurie Bristow (Middle East, North Africa, Eastern Europe, Central Asia & China)
Fiona Clouder (Latin America & the Caribbean)
Ken O'Flaherty (Asia-Pacific & South Asia)

High Level Climate Action Champions
Nigel Topping (UK, driving action from businesses, investors, organisations, cities & regions)
Gonzalo Munoz (Chile)
HE Raffaele Trombetta (Italian Ambassador to the UK, co-hosting COP26)

BEIS

Defra

DIT

FCDO

UK Space Agency

Met Office

UKRI

EO Centre(s) of excellence

Posts based in embassies

SIN
 (UK Science & Innovation Network)

Nick Bridge
 Special Representative for Climate Change

Pre-COP UK Events
 2020—
 October 2021

Pre-COP UNFCCC Events
 e.g. Bonn
Intercessional
 2020-October 2021

COP26 Negotiations (political)
 Glasgow
 Nov 1-12 2021

COP26 Events & Exhibition
 Glasgow
 Nov 1-12 2021



THE UK PRESIDENCY'S PRIORITIES

Accelerating progress in these 5 key areas:

- **Adaptation and resilience:** Leaving no one behind. Ensuring that communities and countries can adapt to the worst effects of climate change by stepping up access to funding and expertise for resilience and adaptation.
- **Nature:** Protecting and restoring natural habitats and ecosystems by working with countries and communities. This will be crucial to preserve the planet's biodiversity, soak up emissions, and improve our health and wellbeing.
- **Energy:** Accelerating the transition to a clean energy future by encouraging countries, businesses and communities to seize the opportunity provided by the rapidly falling costs of renewables, innovation and energy storage.
- **Transport:** Cleaning up the air we breathe by speeding up the global transition to zero emission vehicles, phasing out petrol and diesel engines in all forms of road transport.
- **Finance:** Accelerating the green transformation of the financial system so that all countries have access to the funds to drive clean and resilient investment.

New drivers for space-informed climate action

- **Rapidly developing market for climate services – excess of 7Ebillion (2017)**
- **Climate risk disclosure and natural capital accounting** over 1,340 companies with a market capitalization of \$12.6 trillion and financial institutions responsible for assets of \$150 trillion.

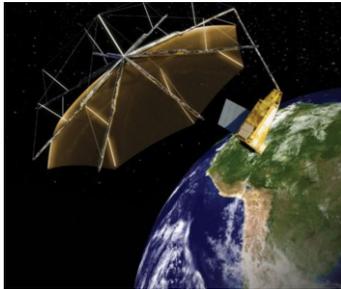
Company	Sector	Industry	Location	Region	Date
Blackfinch Investments Limited	Financials	Asset Management/Investment Management	United Kingdom	Europe	January 2021
Informa Plc	Other	Commercial & Professional Services (Incl. Data, Legal, and Consulting)	United Kingdom	Global	January 2021
Renew Finance	Financials	Real Estate Management & Development	United Kingdom	Europe	January 2021
SRI Services	Financials	Other Financial	United Kingdom	Europe	January 2021
BlueCove	Financials	Asset Management/Investment Management	United Kingdom	Europe	January 2021
Hymans Robertson LLP	Financials	Other Financial	United Kingdom	Europe	January 2021
Marshall's plc	Materials	Construction Materials	United Kingdom	Europe	January 2021
HE Simm and Son	Industrials	Construction & Engineering	United Kingdom	Europe	January 2021
Fluentsys Ltd	Energy	Energy Equipment & Services	United Kingdom	Europe	December 2020
Drax Group plc	Utilities	Electric Utilities	United Kingdom	Europe	December 2020
Pico Analytics	Information Technology	Software + Services	United Kingdom	Europe	December 2020
Great Portland Estates plc	Real Estate	Equity Real Estate Investment Trusts (REITs)	United Kingdom	Europe	December 2020



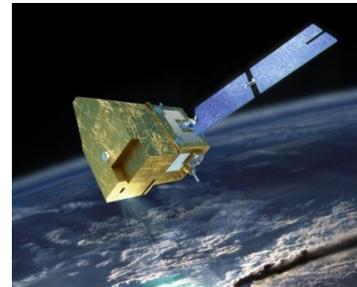
Recent UK companies declaring support for the TCFD and its recommendations | Source: <https://www.fsb-tcfd.org/supporters/>

Space-informed climate action

- ***For information and service providers, these new missions will open up scientific and commercial opportunities for space applications thereby enabling climate action capability for governments, industry and the third sector***



BIOMASS is an ESA mission, the first satellite to study the world's forests in 3-dimensions using a P-band tomographic radar. It will improve accuracy of the forest carbon storage and variation over time



MicroCarb is a ground-breaking UK-French mission to measure carbon.

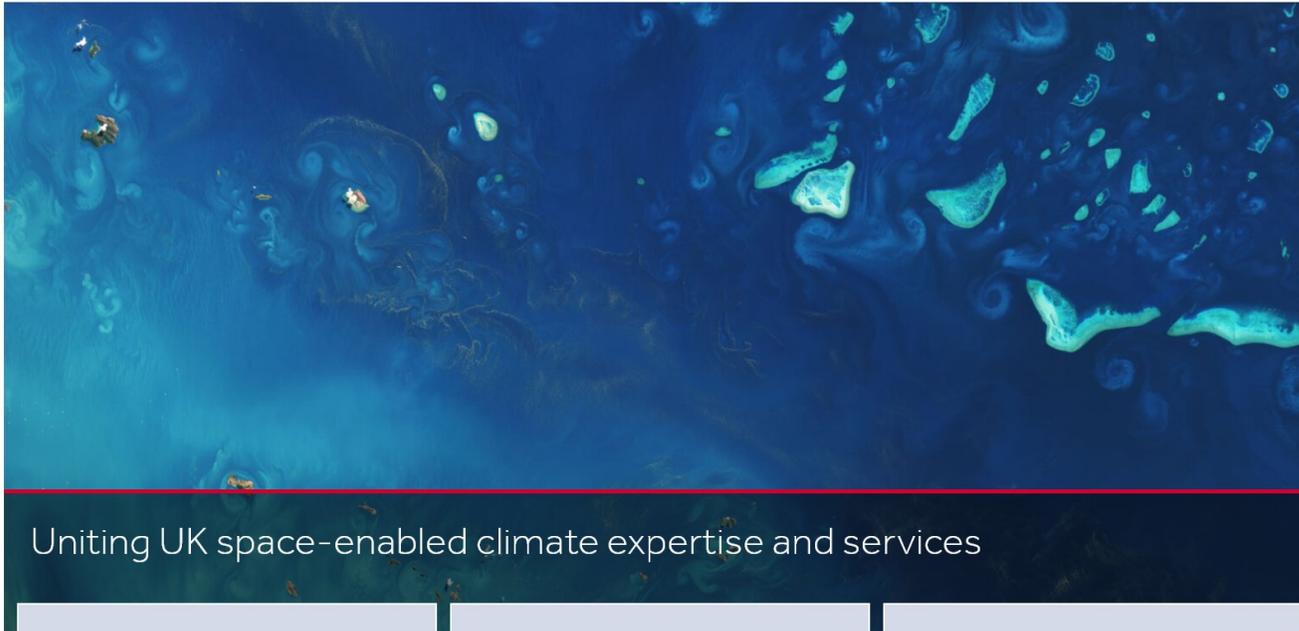


TRUTHS is a UK led ESA climate mission to track climate change drivers more accurately from space.

UK based/wish to work with UK expertise?



ABOUT SPACE4CLIMATE ▾ UK COMMUNITY MISSIONS CLIMATE SHOWCASE ▾ NEWS, EVENTS & BLOG ▾ Q ▾



Uniting UK space-enabled climate expertise and services

Who we are

Chaired by the UK Space Agency, Space4Climate spans government, industry and academia, uniting those with expertise in the development of satellites, analysis and exploitation of data they gather, and production of quality assured global data and climate services.

Trusted services

Our mission is to ensure a seamless supply of trusted climate intelligence from space so that the UK offers a thriving, supportive environment for the development of quality assured products and services enabling climate-smart decisions, disclosures and climate-sensitive planning.

What we do

We connect UK producers and global users of trusted Earth observation data and actionable space-enabled climate analytics and services. We respond rapidly to emerging needs and develop new opportunities and collaborations. Discover more about our membership activities.

 @Space4Climate

 [Space4Climate](https://www.linkedin.com/company/space4climate)

www.space4climate.com

@spacegovuk #Space2Connect2021

<http://www.space4climate.com/stand-enquiry/>



Today's session

- **BIOMASS mission**

Professor Shaun Quegan NCEO – University of Sheffield

- **Earth Blox – supporting code-free analytics**

Prof Iain Woodhouse, University of Edinburgh and Earth Blox

- **Climate informed risk mapping and action**

Keith Jones, National Trust

- **Panel discussion - please send these through for the panel**



Uniting UK space-enabled climate
expertise and services

THANK YOU!

Contact us:

info@space4climate.com



www.space4climate.com

