

Supercomputing 2022+

Replacing and increasing supercomputing capacity to...

Keep UK expertise at the **forefront of global weather and climate science**



Strengthening:

- global leadership
- international partnerships
- our authoritative voice

Further inform our **understanding and analysis of climate change**



Understanding the climate pathways for a resilient net zero world

Enhance UK resilience to severe weather in a changing climate



Helping government, businesses and individuals to stay safe and thrive

Expanding localised climate projections to better inform future climate risk



City scale projections will enable better investment in infrastructure and adaption measures to keep people safe

Improve our projections and knowledge of the **impacts of climate change**



Informing the measures needed to increase resilience to changing weather extremes and reduce impacts

Sustain and grow **world-leading science, technology**, innovation and skills



To harness the next generation of supercomputing and data technologies to drive innovation

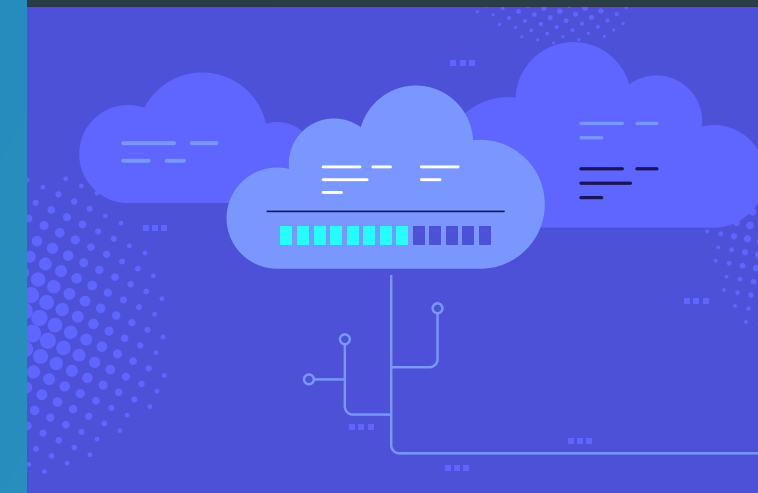
Support the **South West** environmental science knowledge base



Through:

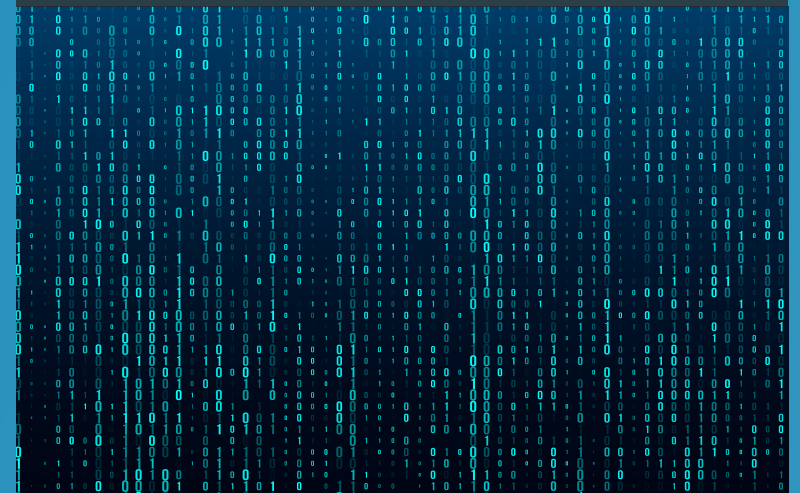
- employment, apprenticeships & internships
- digital skills training
- support for start-ups

Support **economic growth** and increased productivity



Utilising environmental data science and AI to develop solutions to real-world environmental challenges

Supporting the UK's **plan for growth**



By investing in:

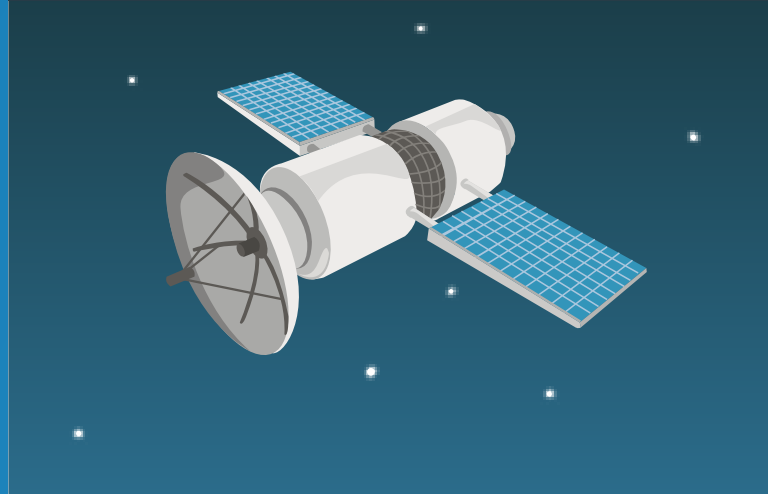
- world-class supercomputing infrastructure
- high-quality skills and training
- environmental data science technologies

Drive **technological innovation** by UK business and industry



Improving efficiency in weather sensitive operations such as within utilities and aviation

Use new **data from Government investments** in Earth observations and satellites



To inform climate and weather models and forecasts

Boost the **socio-economic benefits** to the UK economy



Amounting to billions of £s through more efficient and effective decision-making

Further support the **UK Armed Forces** and **our allies** at home and abroad



Delivering meteorological, climatological and oceanographic data and expertise

Advance **global resilience and security**



Working with overseas partners and nations vulnerable to extreme weather and climate change

Better informed risk assessments for the UK's **resilience to flooding** in the changing climate



More confident decisions by emergency responders on longer lead-times, and giving people time to protect their homes and businesses