



Meeting the demands of a growing business with high performance computing

Weather Logistics is aiming to improve access to long-term seasonal weather data to help reduce crop damage and save money for growers.

The Challenge

Access to field-level long-term weather forecasts allows UK growers to make better informed decisions about crop management; minimising crop damage, maximising yields and reducing wastage – with estimated savings of up to £20 million.

Weather Logistics has developed a climate-smart forecast system, utilising prediction data from the Copernicus Climate Data Store, which provides accurate information for growers to base decisions on.

To refine and validate the forecasts, Weather Logistics needed high performance computing power to run 24 years of historic climate data, as well as assistance in refining the existing software code.

The Solution

- Acceptance onto STFC's Bridging for Innovators programme, which provides funding for businesses to access STFC facilities
- Access to advanced computing infrastructure at STFC Hartree Centre

- Dedicated project work carried out by an experienced data software engineering team

The Benefits

STFC Hartree Centre software engineers reconstructed Weather Logistics' code to enable it to run faster and handle larger datasets more easily, as well as improve the quality of forecasts. In addition, the team adapted the code to run on cloud resources – providing flexibility and scalability to meet the demands of a growing business.

By utilising the Hartree Centre's advanced computing infrastructure through Bridging for Innovators, the company saved at least 2 months of compute time and accelerated the process of taking the technology to market, without the costs associated with recruiting an experienced in-house software team.

"We can now deliver reliable forecast confidences to our clients, facilitating better decision making in the field."

Chris Nankervis, Weather Logistics



Image credit: marcinjozwiak - Pixabay

About us

Science and Technology Facilities Council offers entrepreneurs, start-ups, SME's and corporates the facilities, environment and people needed to de-risk innovation and accelerate business growth.

Through access to large-scale science facilities, complementary technologies and IP, and a flourishing network of science and industry experts, companies can create and transform products.

Bridging for Innovators provides funding for companies to utilise STFC facilities and expertise to fast-track solutions to industrial challenges and boost productivity.

Find out more:

Email: innovations@stfc.ac.uk Twitter: @STFC_B2B

Bridging the gap between pioneering science and business