

Service ID



Location Remote

Testing the integration and performance of advanced weather forecasting

Provider service

Fondazione Bruno Kessler (FBK)

Link to content

<https://agrifoodtef.eu/services/testing-integration-and-performance-advanced-weather-forecasting>

Type of Sector

Arable farming, Greenhouse, Horticulture, Livestock farming, Tree Crops, Viticulture

Accepted type of products

Software or AI model

Type of service

AI model training, Performance evaluation, Test design, Test execution, Test setup

Description

Solutions in the agricultural sector that use weather forecasts can suffer from inaccuracies of standard weather service APIs, such as lack of granularity, no usage of in-field sensors, and low precision of generic models. Using FBK's expertise in advanced weather forecasting, we are capable of testing weather-related functionalities in solutions and proposing ways forward to take it to the next level: nowcasting, higher resolution, model optimisation for specific regions, etc.

How can the service help you

Customers developing agricultural solutions that require advanced weather forecasting can benefit from this service by testing their solutions and receiving recommendations for optimisation and enhanced capabilities.

How the service will be delivered

Example of customisation:

- The customer wants to test an already implemented ML/AI solution that leverages or performs weather forecasts for business-related purposes. The service provides assessment tests on the performance of the implemented solution, possibly in comparison with existing state-of-the-art baselines.

Both qualitative and quantitative assessments will be provided.

Limitations: The service will provide a minimal amount of internal resources to perform test training and inference runs of AI models strictly limited to performing correctness tests on proposed optimisations or as part of the testing phase. All the resources and the engineering efforts for full training and validation of AI models are under the responsibility of the customer.

Service customisation

This is a digital service, and its duration is approximately 16 weeks, adjustable as needed. Customers engage in requirements mapping for advanced weather forecasting in their solution and provide the software (under NDA). The customer receives a test result of its solution and a package with the verification software, a proposal for model optimisation, and recommendations for next-level enhancement.