Service ID

S00123

Location

Italy

AI hardware performance assessment

Provider service

Fondazione Bruno Kessler

Link to content

https://agrifoodtef.eu/services/ai-hardware-performance-assessment

Type of Sector

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

Accepted type of products

Design / Documentation, Physical system

Type of service

Collection of test data, Desk assessment, Performance evaluation, Test design, Test setup, Text execution

Description

This service is designed to test products that run complex applications, often utilising multiple microservices and heavy AI algorithms, in field conditions with limited or no connectivity to the cloud. We offer tailored benchmarking to identify bottlenecks within the solution's architecture, helping TEF customers enhance the efficiency and reliability of their products. The service can also incorporate virtual elements, such as enriched datasets and virtual machines hosting containerised modules, alongside physical sensors and infrastructure deployed either in our test field or directly at the client's premises for the duration of the experimentation.

How can the service help you

By using this service, customers can pinpoint potential bottlenecks—such as those related to computational power, storage, or bandwidth—in their proposed solution and gather valuable feedback to resolve any identified issues.

How the service will be delivered

The customer will provide access to the solution's hardware and source code under an NDA, as well as access to field environments if required. The service provider will conduct testing at their premises and deliver a comprehensive test report, including data-driven suggestions for improving efficiency and reliability based on the analysis of field test results.

Service customisation

Customisation for this service is essential due to the diverse range of algorithms that can be applied for various purposes. To ensure the service meets specific needs, a feasibility study is conducted to gain a deeper understanding of how the solution functions. This study helps tailor the service to optimise performance and address unique requirements effectively.