Service ID

S00331



Location

Remote, Sweden

Al model evaluation and verification

Provider service

Research Institutes of Sweden

Link to content

https://agrifoodtef.eu/services/ai-model-evaluation-and-verification

Type of Sector

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

Accepted type of products

Data, Design / Documentation, Software or Al model

Type of service

Al model training, Collection of test data, Conformity assessment, ELSA assessment, Performance evaluation, Test design, T

Description

Evaluating or verifying AI solutions is technically challenging and imposes specific requirements on the application, which can vary from setting internal benchmarks to establishing safety conditions. Evaluation and verification are performed using a broad set of tools ranging from straightforward performance evaluation metrics to formal methods for the verification of safety requirements. Formal methods can also be used to evaluate requirement fulfilment and systematically discover scenarios showing that AI systems need further improvements. Alternatively, customers can receive technical assistance and advice on improving AI systems that do not meet requirements.

How can the service help you

This service is directed towards customers that develop or use AI systems in their business activities and require assistance testing and evaluating such systems. The AI models may be developed by the customer, open-source, or developed by a third party. Service S00331 can also provide technical advice and recommendations to customers towards compliance with EU AI-Act regulations. The service is applicable to all AI systems and tasks relevant to the agricultural sector. Of particular relevance are AI systems for robotic control, drope control, and other control systems where formal methods can be used in **How the service will be delivered**

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Logistics:

• The formulation of requirements to be tested is an iterative process back and forth between RISE and the customer.• Requirement testing is mainly conducted by RISE, with feedback from the customer used to refine and reformulate requirements when needed.

Service customisation

The service can be adapted to specific customer needs. The assessment journey starts with a joint meeting where the customer discusses different alternatives with a technical team from agrifoodTEF, supplemented with domain experts from RISE and members from the customer support team. A roadmap for the service is established, and the service can commence.