

**Service ID**

S00009

**Location**

At user's premises, Sweden

## Compliance assessment for robotic machines

**Provider service**

Research Institutes of Sweden

**Link to content**<https://agrifoodtef.eu/services/compliance-assessment-robotic-machines>**Type of Sector**

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

**Accepted type of products**

Design / Documentation, Physical system

**Type of service**

Desk assessment, ELSA assessment

**Description**

Ensure your company develops robotic machinery that complies with all relevant regulations, standards, and directives with the support of expert guidance. Beyond meeting existing requirements, expert assistance is provided in areas where the rules are unclear or undefined. For situations with ambiguous or missing guidelines, practical solutions are offered based on extensive experience in functional safety. Autonomous robotic machinery often relies on complex sensor technologies, such as radar, LIDAR, and cameras, to detect nearby individuals. Demonstrating how these advanced sensors can be integrated into safety functions is challenging, as it involves considering not only traditional functional safety aspects but also emerging factors like AI and Safety of the Intended Functionality (SOTIF). Support includes performing comprehensive risk assessments, identifying relevant safety functions, and establishing high-level safety requirements for each. Depending on the project's focus, further guidance can be provided to ensure the selected safety concept aligns with applicable functional safety standards.

**How can the service help you**

For innovators developing AI or robotic solutions in the agricultural sector, this service ensures your product not only complies with current regulations but is also prepared for future standards. Navigating the maze of machinery standards and safety directives can be daunting, especially when dealing with advanced technologies like AI-driven robots. This service bridges that gap, making sure your product is safe, compliant, and market-ready.

**How the service will be delivered**

This service is designed to help companies comply with existing regulations, machinery standards, and directives, while also providing support in situations where clear requirements are lacking. For example, the service can assist with risk assessments or evaluating the quality of a safety concept.

**Service customisation**

This service is fully adaptable to the specific needs of each customer. The assessment process begins with a joint meeting where the customer discusses their options with agrifoodTEF's technical team, including experts from RISE or Asta Zero. Our team is here to guide you through each step.