

Test and Validation

2025WP3_Sieplo_001

Status: Completed



Technical Functionality

TF-2 Testing interoperability, standardisation and compatibility

Problem Owner:
VDL ETG Projects

Involved:
Tomatoworld



Autonomous Path Switching

Validation of Line Vision Software



Broad knowledge question

How can an autonomous mobile platform (AMP) use camera sensors and an AI model to detect and compensate for variations in concrete surface smoothness and pipe rail dimensions, ensuring accurate and safe navigation along the pipe rails?

Approach

In accordance with the test plan, the AMP underwent the following tests at Tomatoworld:

1. Path switching times
2. Emergency stopping distance
3. Safe speed
4. IMU testing

Goal

To test a platform for autonomous systems designed to transport, sort, package and store harvested produce.

Results and reflection

The tests achieved their intended objectives, with no unexpected issues identified. The newly tested IMU has since been adopted as the new standard.