

PROBLEM/ISSUE ADDRESSED

AGV / AMR sorting solutions allow to increase flexibility of small automated sorting centers. Today there are 2 types of solution on the market:

- collaborative vehicles, able to load and pick objects in the same area where operators work. One of the safety measures is to keep a low speed for operator protection. So overall performance of the sorting system is low.
- high speed vehicles, like Fives GENI-Ant, running in confined sorting areas only. This leads to a higher system performance, but lower application flexibility.

SOLUTION

The MARS project aims at offering the best of both worlds: a sorting AGV/AMR able to run at high speed in a confined zone, but also able to leave the confined zone and move safely in the same area with operators.

WHY IT IS IMPORTANT FOR SOCIETY

This new automation solution for small sorting and distribution centres will help reducing manual labour.

“Thanks to EIT we were able to create an international competence team in a short time, developing a new sorting solution with limited initial investments”



MAIN RESULTS & INSIGHTS

- The team developed a new AGV/AMR sorting solution with an innovative hybrid safety and localization system
- Prototype tested successfully in March 2022
- Final certification in progress