

AITO ARTES Business Applications & Space Solutions (1/2)



Satellite-enabled autopilot system provides foundation for a range of autonomous electric vehicle services

- Shaping the future of autonomous driving to reduce costs and the environmental impact of delivery services



Project overview

- Accurate navigation of delivery robots is challenging and requires fusion of GNSS with other sensors
- AITO have developed autopilot software with **intelligent sensor fusion**, incorporating GNSS and SAR data that enables safe robot navigation in industrial, urban and rural areas
- The BASS programme **facilitated partnerships** to develop innovative building interaction functionality, **successfully validating the service** through two pilot projects

"Our project is a perfect example of something very innovative and environmentally friendly ...actively looking at how the automation can benefit society without replacing the actual workers"

*Xenia Scholl,
COO & Co-Founder, TeleRetail*

Benefits

- Reduces costs and environmental impact with AI-driven vehicles that reduce transport expenses, energy use, emissions and space requirements **by up to 90%**
- Ensures fast, **reliable deliveries 24/7 365 days a year** with autonomous deliveries for express, on-demand, and same-day delivery services
- **Scales effortlessly with a range of vehicles**, from small delivery robots to large industrial transport solutions, optimising last-mile, middle-mile logistics
- Offers cost-effective, environmentally friendly electric vehicles, **promoting sustainability and energy-efficient transport solutions** for customers



Project success



€1.6M
ESA + Industry funding



DURING

10
Jobs created in Germany

100%
of sales exported

21
Partnerships developed

BEYOND

32
Additional jobs created in Germany

100+
Business development opportunities with total value ~€76.25M

€2.5M
From wider portfolio benefiting from BASS

FUTURE GROWTH

1
Application for an ESA NAVISP project

Deployment of different vehicle platforms

Expansion of application verticals (e.g. port logistics)



AITO ARTES Business Applications & Space Solutions (2/2)

- Planned implementation of autonomous transport solutions for Coca-Cola industrial site



CCEP – Implementation phase

Customer need

The customer intends to replace an existing manually-driven shuttle truck with an **outdoor autonomous vehicle**. The current method is labour intensive and therefore expensive.



Solution

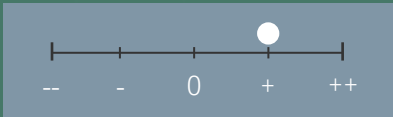
Intend to utilise **autonomous driving software and hardware** from TeleRetail to automate this simple task

Impact

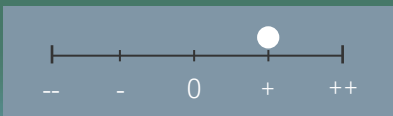
- ✓ Target reduced CO2 emissions: using electric autonomous vehicles
- ✓ Potential cost benefits

Customer impact

Cost savings



Environmental



THEMATIC AREA

INFRASTRUCTURE & SMART CITIES

TRANSPORT & LOGISTICS

