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 GNNS 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

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

11 SUSTAINABLE CITIES AND COMMUNITIES

Project success

€1.6M ESA + Industry funding

Aito TeleRetail

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)

LE London Economics

THEMATIC AREA: INFRASTRUCTURE & SMART CITIES → TRANSPORT & 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.

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Solution

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

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Impact

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

Customer impact

Cost savings

Environmental

THEMATIC AREA: INFRASTRUCTURE & SMART CITIES → TRANSPORT & LOGISTICS