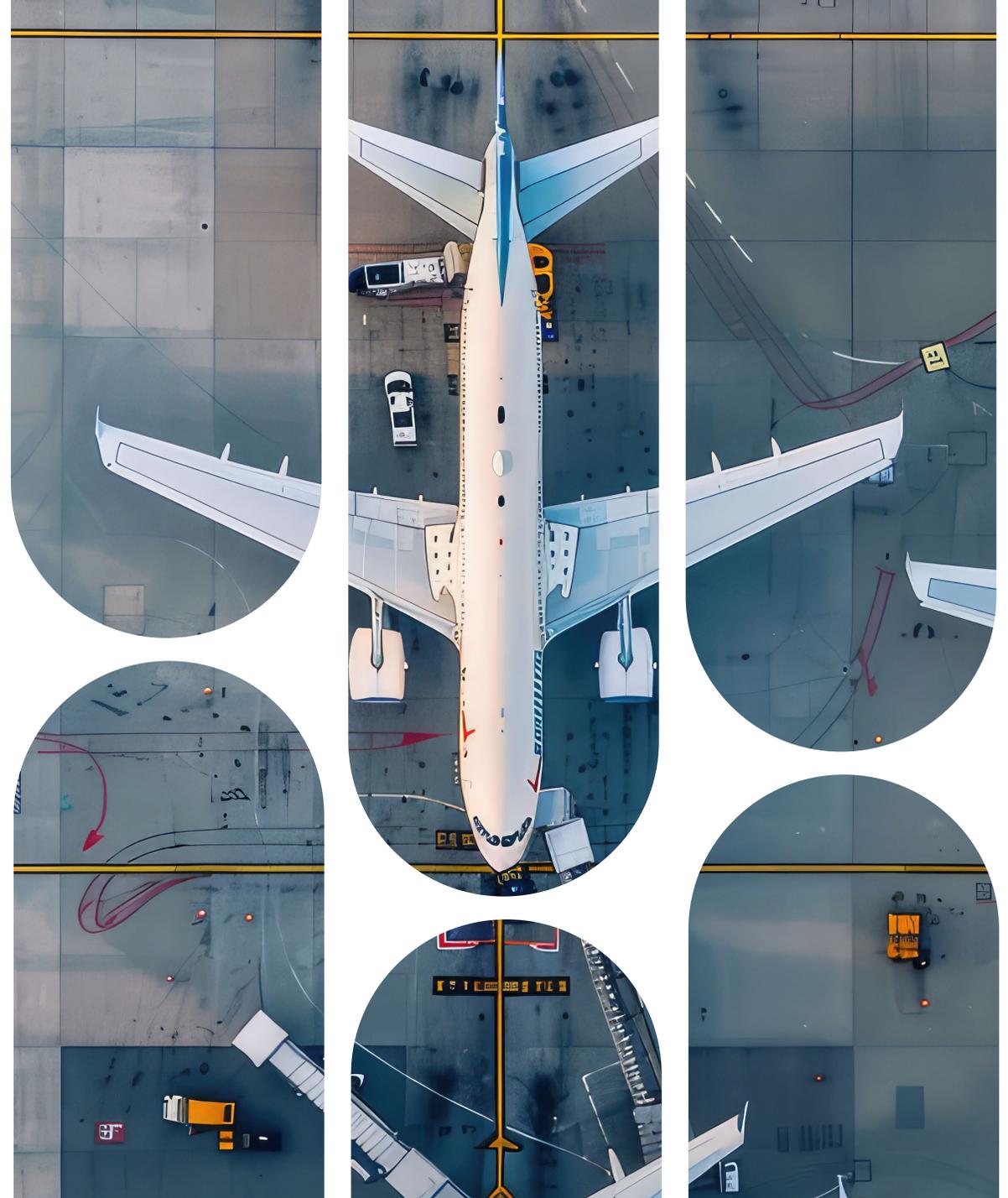
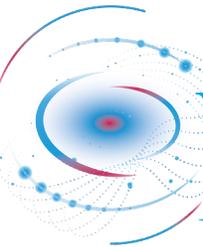




# ADVANCED TELEMETRY SOLUTIONS

Telematics and Fleet Management: how data  
can make our GSE safer ?





# Who are we ?

Enabling seamless management of mobile assets and workforce through data harvesting, processing, and analysis successfully adopted and deployed by leading airport industry players



Created in 2011



60 employees



2 sites: France, US



250+

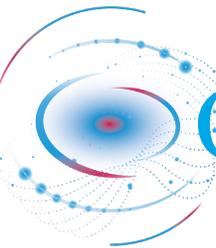
Airports equipped

28,000+

Vehicles deployed

16,000,000+

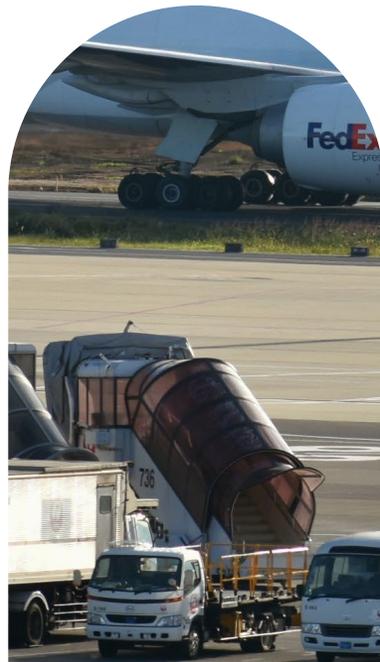
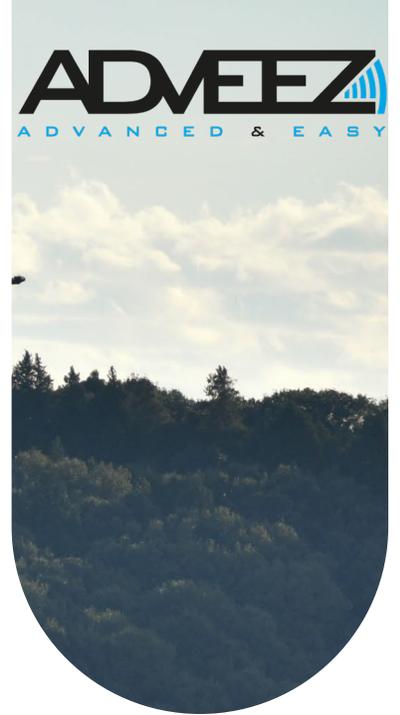
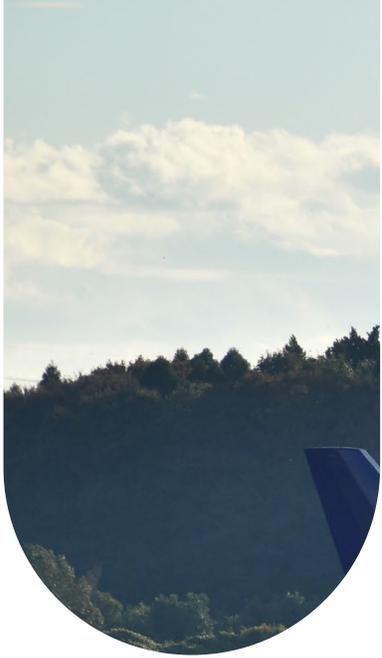
Daily messages



# Operational issues



# HYPOTHESIS ?





# Missing data for prevention



## Driver related data

- Driver ID ?
- Driver authorisations/licenses ?
- Is the driver OK today for doing his/her job ?



## Driving behaviour related data

- Is the GSE in an authorized area ?
- Is the GSE driven safely ?



## GSE/ safety related data

- Is the seatbelt on ?
- Is the GSE in good conditions ?
- Is the speed adapted ?



# Access control

## Access control deployment

- Proxy cards : airport badges or company badges

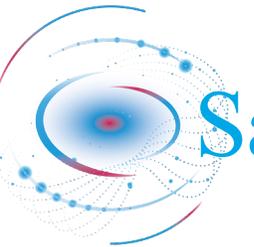
Manage drivers' authorizations per GSE

Can be managed by typology of GSE

Validity date

Driving license capabilities





# Safety checklist

## Manage your own questions :

- Driver or GSE related customizable questions :  
Yes/No answers
- Number of questions
- Order : customizable or random
- Frequency
- Response criticality : possibility to block vehicle start and to send alerts

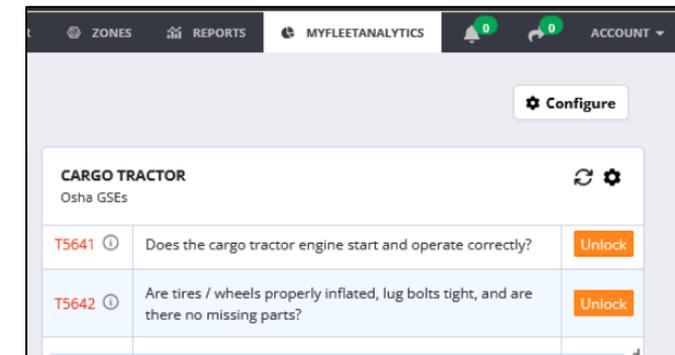
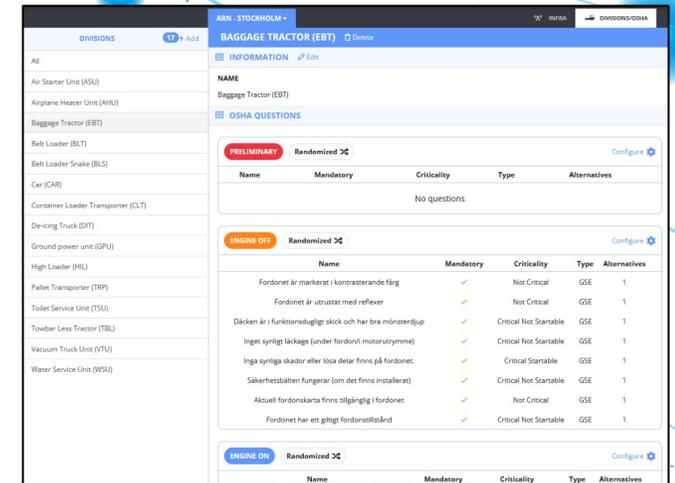
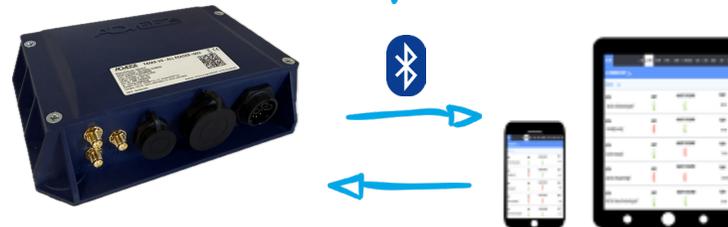
Answers recorded and transmitted to concerned services (maintenance, supervisor, etc.)

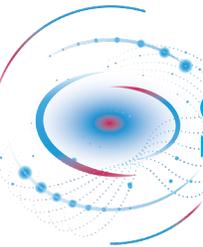
Localeez® report listing all the answers

Answering questions from an application available on smartphone and tablet (IOS & Android)



Digitalization





# Seatbelt detection

**Seatbelt detection:** detect through an **on-board sensor** if the driver is properly wearing its seatbelt and if the passenger is also wearing it.

**Seatwhitch detection:** to make sure the driver does sit prior to engage the seatbelt

**Speed reduction/ start up blocked:** the seatbelt compliance feature can **put the GSE into slow mode or block start up if the seatbelt is not fastened**

## Automatic Alert configuration

Safety configuration 🗨️ 🔒 🔄 Reset

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**Driver**

Seat belt sensing  (Analog input 1 disable) Full scale voltage (V)

Seat switch sensing

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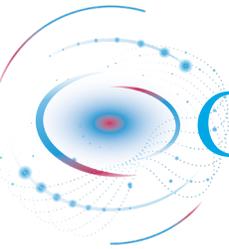
**Passenger**

Passenger handling  Disabled



Jan 17 2025, 06:36:52 +01:00	 Safety alert: Missing driver seatbelt
Jan 17 2025, 06:36:29 +01:00	 Safety alert: Missing passenger seatbelt





# Geofencing & automatic speed reduction

## Objective

Reduce automatically your GSE speed in outdoor risky area :

- Aircraft parking stand
- Pedestrian access, etc.

## Characteristics

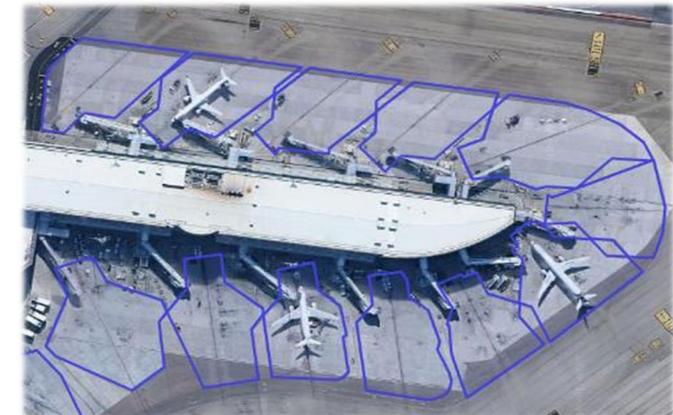
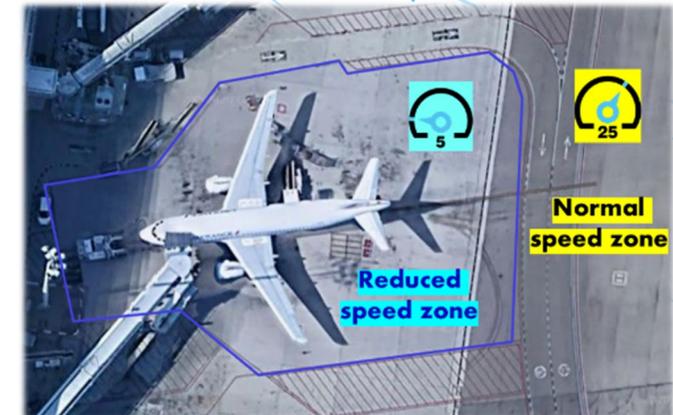
- Designed for **electric & diesel GSE with pedal run by wire**
- Technology integrated in Adveez FAMA V4.6 : **embedded geofencing**
- **No infrastructure** needed
- Based on **real-time GSE position**
- Acts directly on **GSE variator**

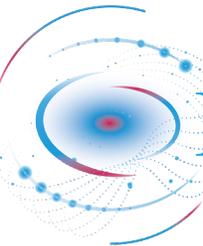
## Customizable settings

- Zones shapes and sizes
- Maximum speed authorized per zone
- GSE affected by speed limits
- Notification (e-mail, app notifications)

## Immediate benefits

- <sup>AZ</sup> Comply to aviation **ISAGO standards** by IATA
- <sup>AZ</sup> Improve human **safety** and avoid material accidents : aircraft, GSE, infrastructure
- <sup>AZ</sup> Reduce considerably your **repair and insurance costs**





# Driver scoring

## Objective

Analyse your **drivers' behaviour** over a **defined period** to implement preventive or corrective actions

## Measured parameters

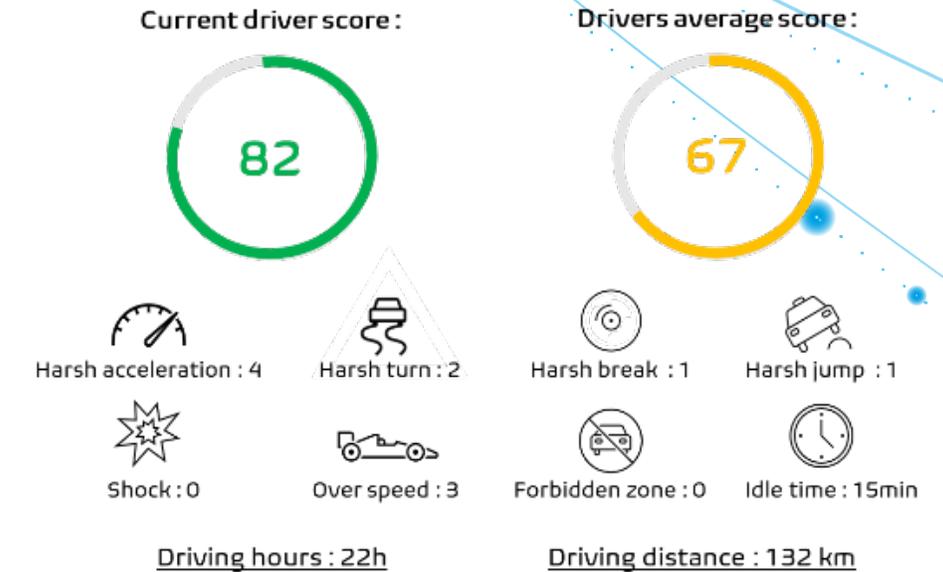
1. Over speed
2. Harsh brake
3. Harsh acceleration
4. Harsh turn
5. Harsh jump
6. Shock
7. Idle time
8. Forbidden zone
9. Seatbelt compliance

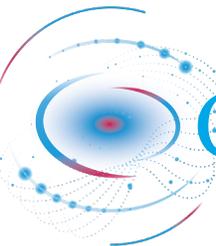
The global scoring is adapted according to :

- Distance travelled
- Driving hours
- Coefficients given to each parameter

## Immediate benefits

- AZ Improve human safety during operations
- AZ Reduce your material breakage rate
- AZ Save money and environment encouraging **eco-driving**
- AZ Identify risky behaviours and offer **appropriate training**
- AZ Reward good behaviour and justify given bonuses





# Camera monitoring

## Objective

Display risky events due to **environment** or **driver's behaviour** to implement preventive or corrective actions

## Video display on Localeez®

Watch 20s video just before a shock, or an accident, or specific GPS point

## AI Analysis alerts: 2 types

**Advanced Driver Assistance Systems (ADAS):**

- ✓ Tailgating
- ✓ Forward collision
- ✓ Lane departure

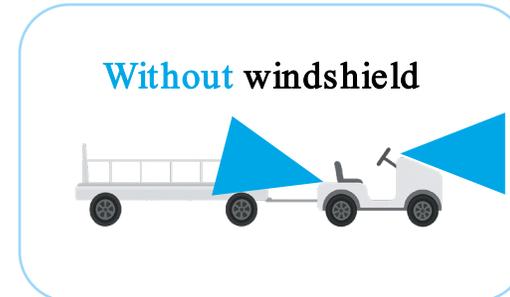
**Driver Monitoring Systems (DMS):**

- ✓ Distraction
- ✓ Fatigue

## Immediate benefits

- AZ **Improve human safety** during operations
- AZ **Identify risky behaviours**
- AZ **Identify causes of chocks and accidents**

## 2 possible configurations adapted to your GSEs type



## Front view



Dashcam on a pushback – front view

## Driver view

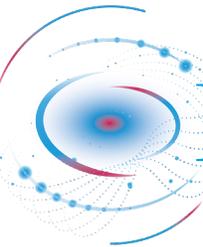


Camera on a car – driver view

## Rear view



Camera on a car – rear view



# Results & impacts

## Measurable impacts



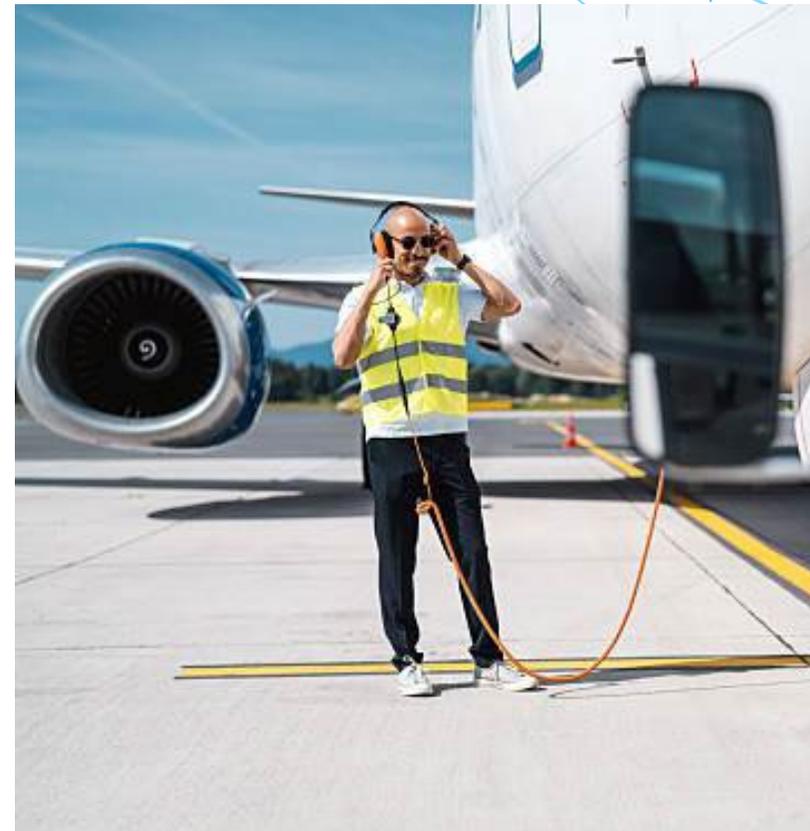
- 100%of vehicles used only by authorized drivers
- Reduction in incidents involving untrained drivers
- Complete traceability of driver authorizations
- Reduction in undeclared or non-compliant use
- Compliance with internal regulatory requirements (HSE/safety)



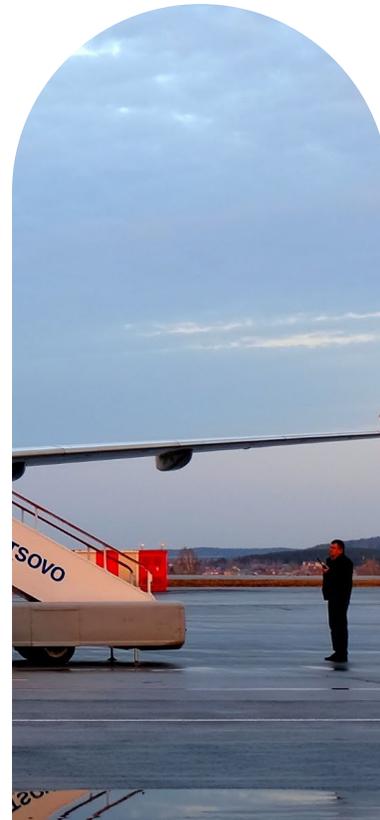
- 100%of vehicles start only when seat belts are fastened
- Reduction in serious injuries in the event of a collision or rollover
- Improvement in safety culture
- Decrease in risky behavior



- 100%automatic compliance with speed limits in sensitive areas
- Reduction in vehicle/pedestrian collisions
- Reduction in collisions between GSEs



# DISCUSSION



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