



# 18TH ROAD SAFETY CONFERENCE

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## Smart Safety Equipment for Road Works

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Hosted by



# What is safety on motorway ?

**Safety** is the condition of being protected from or unlikely to cause danger, risk, or injury. In a work or operational context, safety refers to the set of measures, practices, and procedures implemented to prevent accidents, injuries, and harm to people, property, or the environment.



Safety of our staff



Safety of road users

# How can motorway safety be improved?



Infrastructure



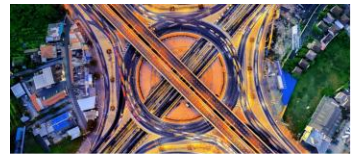
Equipments/Vehicles



Human resources



# Our solutions to improve motorway safety



Infrastructure

## ROAD AI : mobile-based AI-system



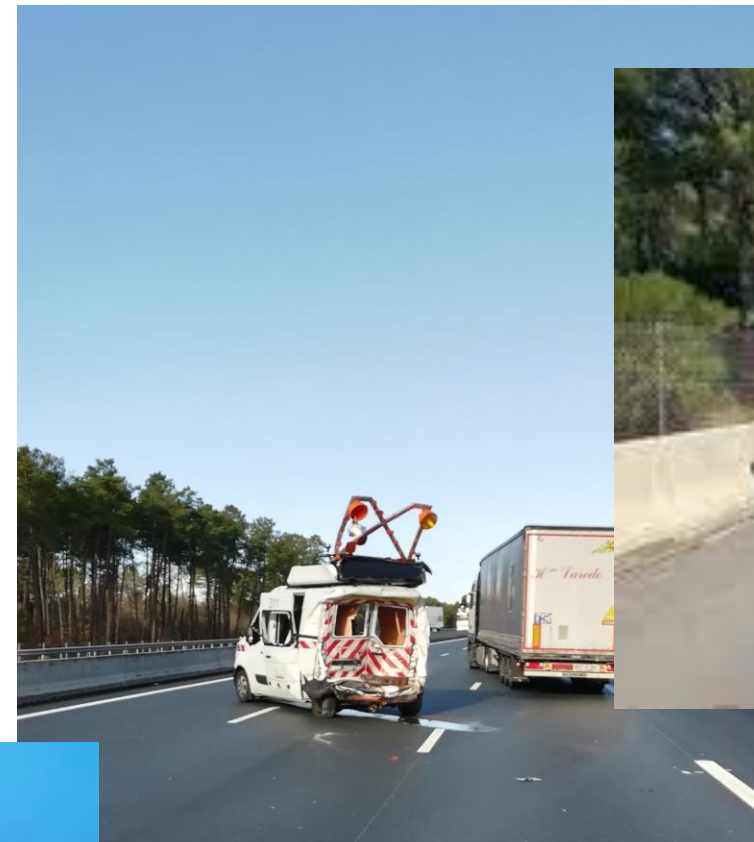
- Before :
  - significant exposure time for the staff
  - long interval between inspections
  - There is no possibility to react following significant environmental incidents
  - One inspection per asset type
- By using Road AI :
  - Reduction of exposure for staff and road users
  - Flexible inspection intervals
  - One inspection per highway section

# Our solutions to improve motorway safety

## Automated Vehicle Radio Alerts



Equipments  
Vehicles



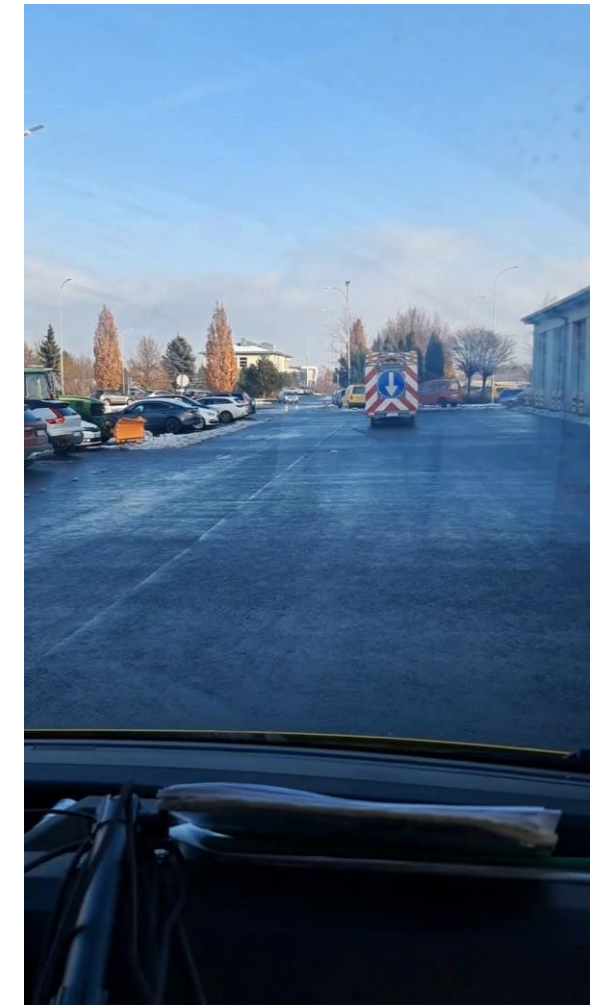
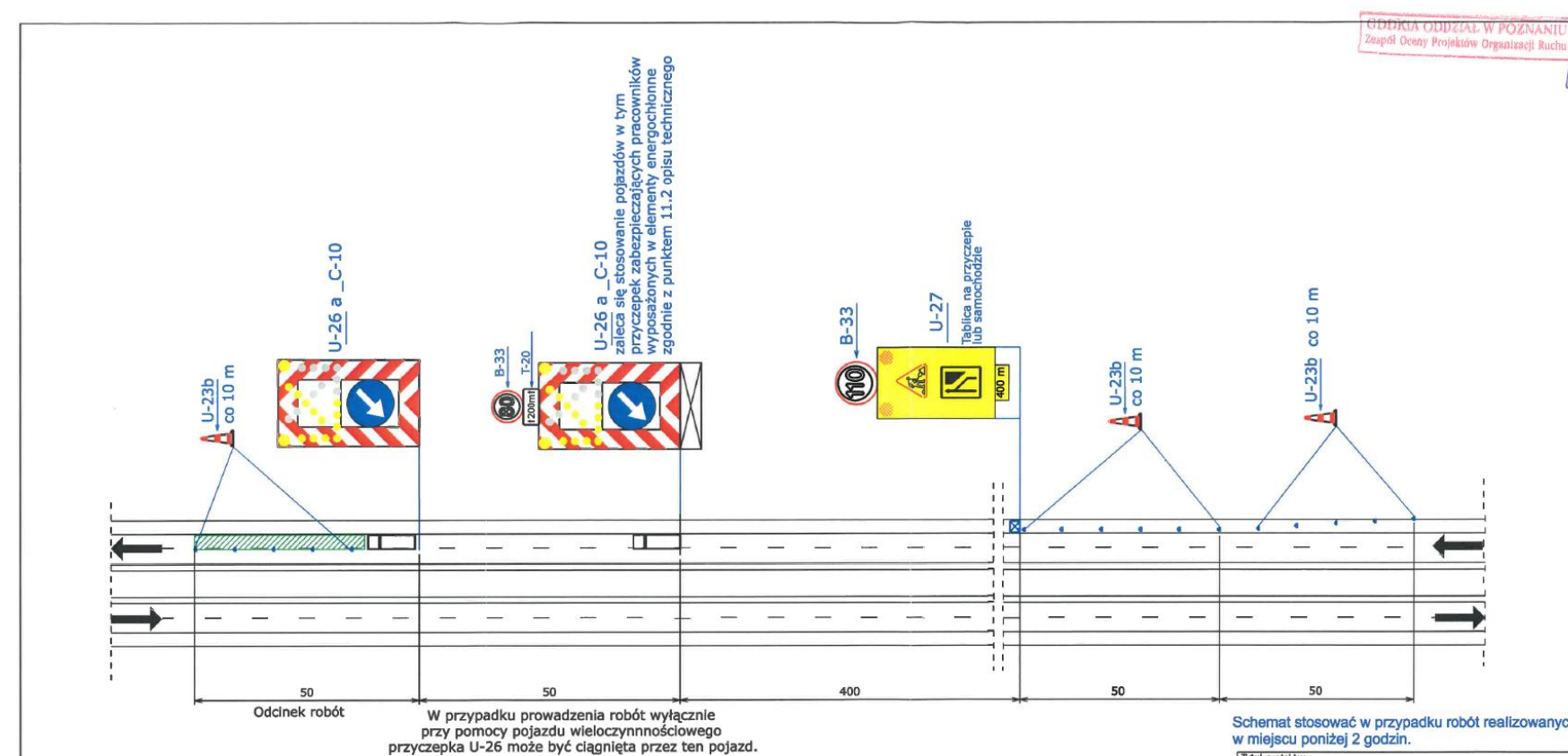
# Our solutions to improve motorway safety



Equipments  
Vehicles

## Automated Vehicle Radio Alerts

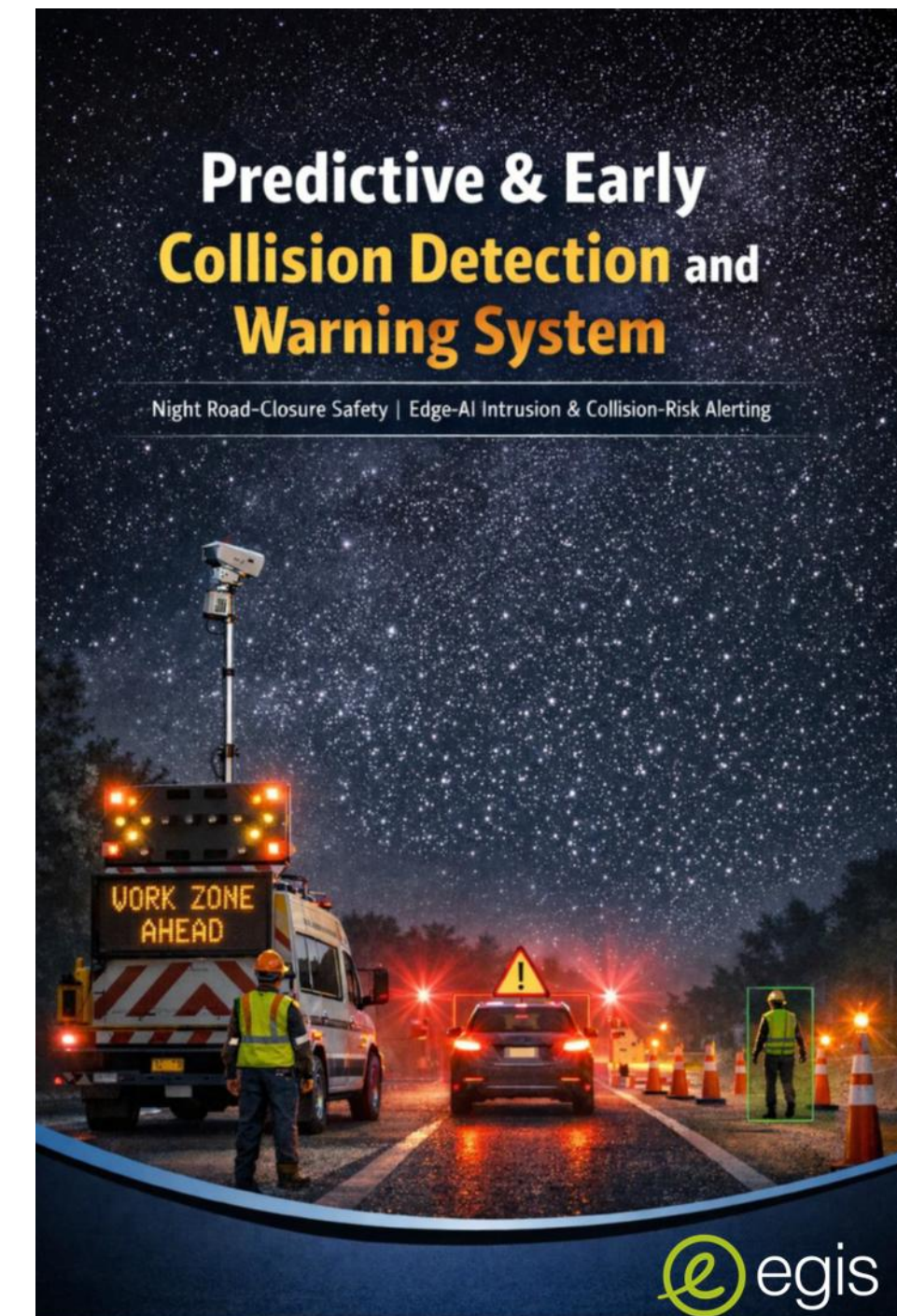
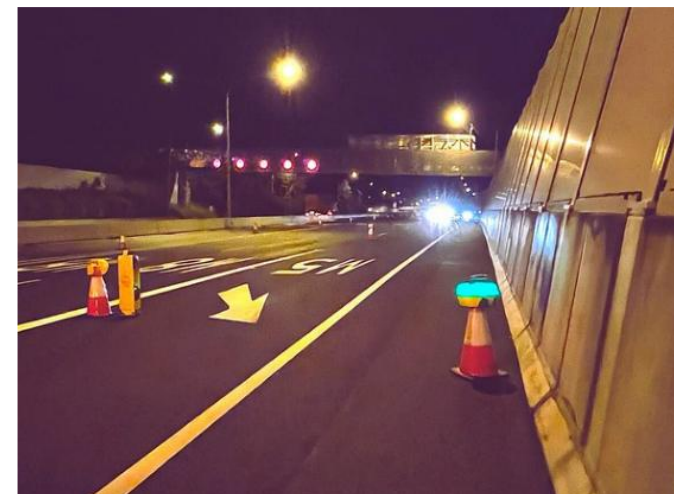
Implementation of a system that uses CB frequencies to warn road users that they are approaching a danger zone.



# Our solutions to improve motorway safety

## Predictive & Early Collision Detection

- Road maintenance and lane-closure operations expose workers to a high risk of vehicle intrusion, especially during night work and high-speed corridors.
- Installation of a mobile camera connected to an edge AI processor
- Scalable, portable system for multiple work zones
- Workers receive immediate warnings through devices (sirens, LEDs, flashers)
- Drivers receive immediate warnings through strobe lights



# Our solutions to improve motorway safety

**NEW TECHNOLOGIES AND INNOVATIVE APPROACHES**  
to secure road works environment and **prevent staff accidents**

→ **Road Analysis Vans**  
to monitor infrastructure

→ **Driver Behavior Alerts**  
to prevent accidents and alert our staff


→ **VR Training**  
to improve staff safety

**egis**

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# THANK YOU

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