ASECAP DAYS

MADRID 2025

52nd ASECAP DAYS

Challenges of Future Mobility | The Role of Road Infrastructure

Organized by **ASECAP**

Hosted by **seopan**
Asociación de Empresas Constructoras y Concesionarias de Infraestructuras

26 - 28 May 2025 | Madrid
www.asecapdays.com

Leveraging data for Enhanced

Motorway Safety:

Innovations and Strategies

Camille Gasperi

Egis

Company overview

About Egis

€2.164M
TURNOVER 2024

TURNOVER BREAKDOWN

85% Consulting & engineering

15% Operation & maintenance

20,500 EMPLOYEES IN THE WORLD

CARBON REDUCTION

-13% in GHG emissions in 2024 (scope 1-2-3)

30 ROAD OPERATING COMPANIES

20 AIRPORTS

21 URBAN PARKING CONTRACTS IN EUROPE

IMAGINE CREATE ACHIEVE
a sustainable future

PRESTIGIOUS AWARDS RECEIVED

GERMANY
EPA 2017 innovation prize for on-street parking category

European parking association awards recognition to Egis for its digital applications for parking

UNITED KINGDOM
The national safety organisation award 2021

This award recognizes the effectiveness of egis's health & safety management system in the operation of road infrastructure projects in England and Ireland.

UNITED KINGDOM
IJ global award 2018

The M25 refinancing won the 2018 IJ global European refinancing deal of the year

USA
2020 toll excellence award from IBTTA*

Private sector innovation award - virtual reality training program, developed as part of the A63 motorway operation in France *International bridge, tunnel And turnpike association

Road infrastructure operator

4,260 km used daily by **2.6 million vehicles**

and **113 km** of tunnels

1,75M toll transactions per day

→ **30 operating companies** in 5 continents / 24 countries

→ **8,600 employees and indirect jobs**

Traffic Control Room

At the heart of the operations' safety

Traffic Control Room

Scope of a Road Operator

- Asset management
- ***Traffic management & Safety***
- Toll Collection
- Customer Relationship Management
- Reporting & Recording

Traffic Control Room

Scope of a Road Operator

- *Traffic management & Safety* ➡️ **Main activities**

Daily monitoring
- Patrolling on the network
- Controlling and detecting events on the network through data collection
- Informing users

Incident response management
- Taking actions on a timely manner
- Liaising with Emergency & Breakdown Services

Traffic Control Room

Scope of a Road Operator

- ***Traffic management & Safety*** → **Major objectives:**

  - ✓ Optimise traffic flows through ***management of the information***

  - ✓ ***Improve Highway safety with shorter detection and intervention time***

  - ✓ Provide *accurate information* to users

Traffic Control Room

Scope of a Road Operator

- Asset management
- *Traffic management & Safety*
- Toll Collection
- Customer Relationship Management
- Reporting & Recording

Major objectives

- ✓ Optimise traffic flows through *management of the information*
- ✓ *Improve Highway safety with Shorter detection and intervention time*
- ✓ Provide *accurate information* to users

Main traffic activities

Daily operations
- o Patrolling on the network
- o Controlling and detecting events on the network through data collection
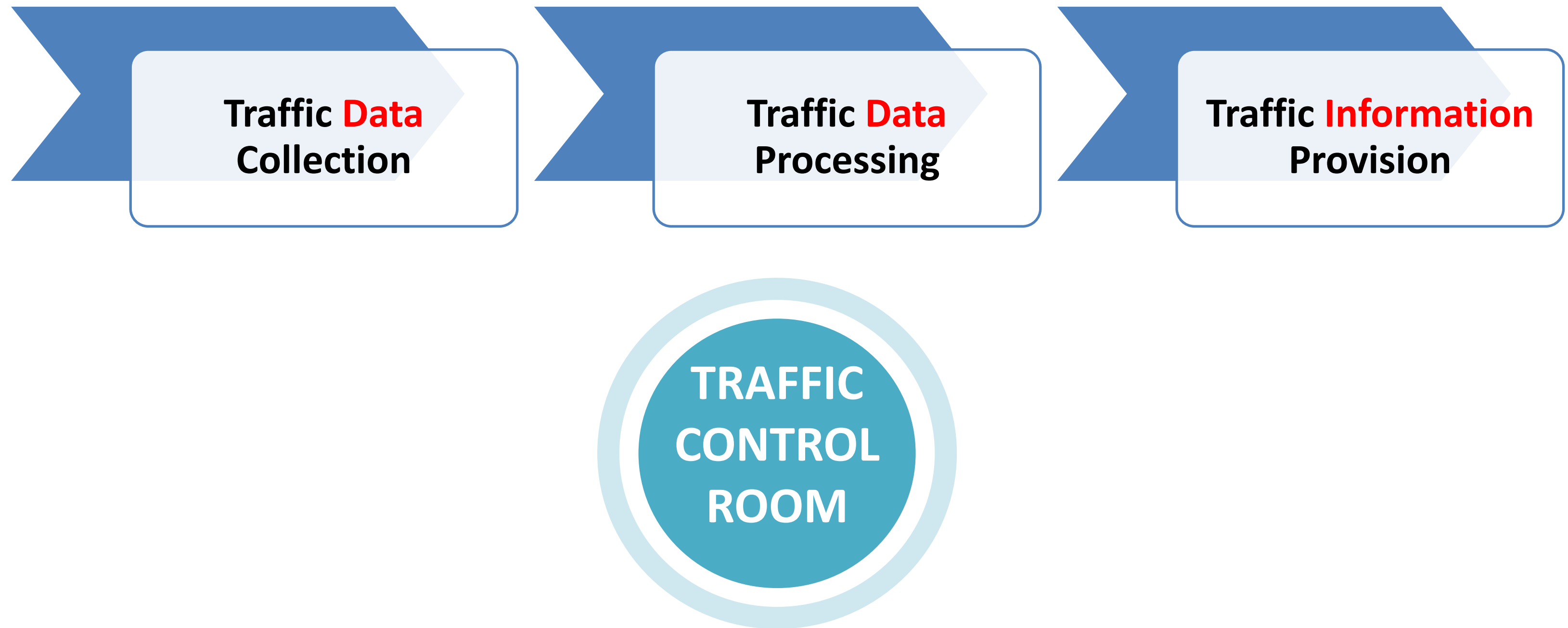- o Informing users

Incident management operations
- o Taking actions on a timely manner
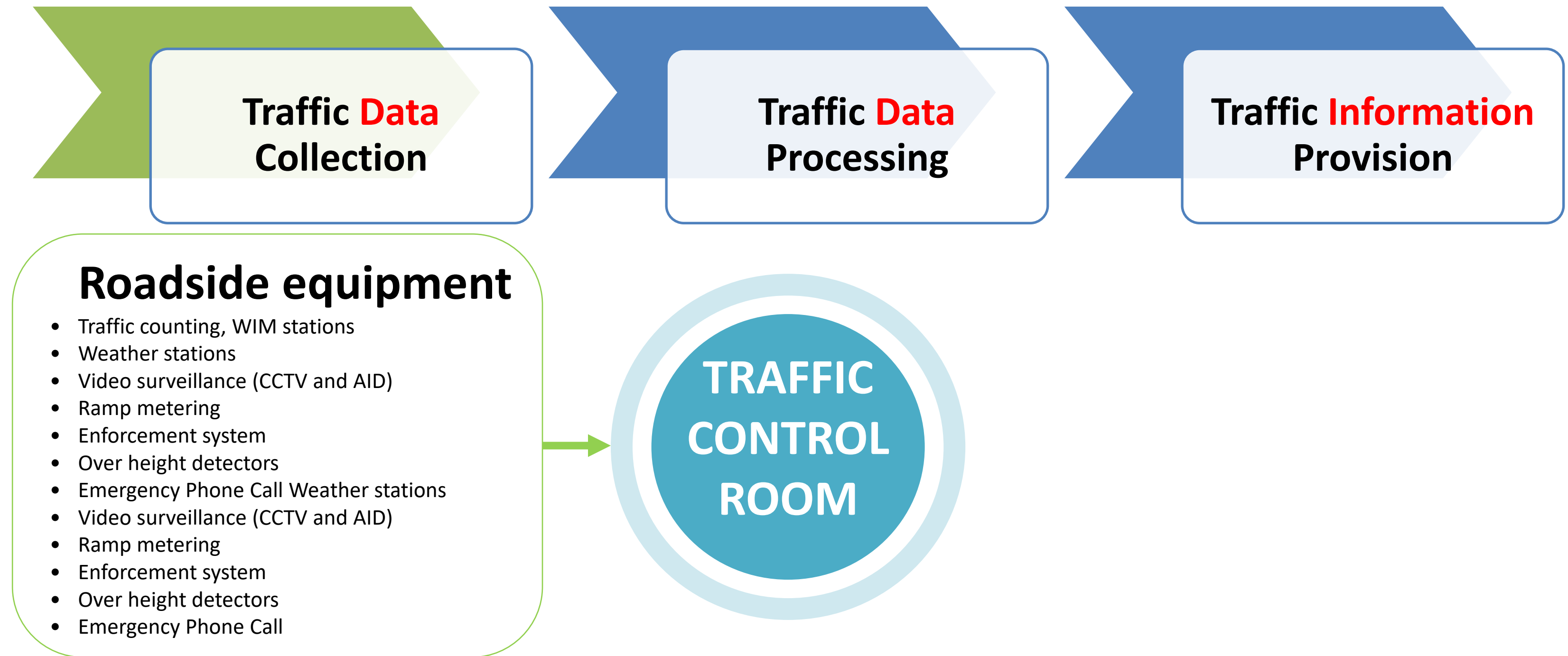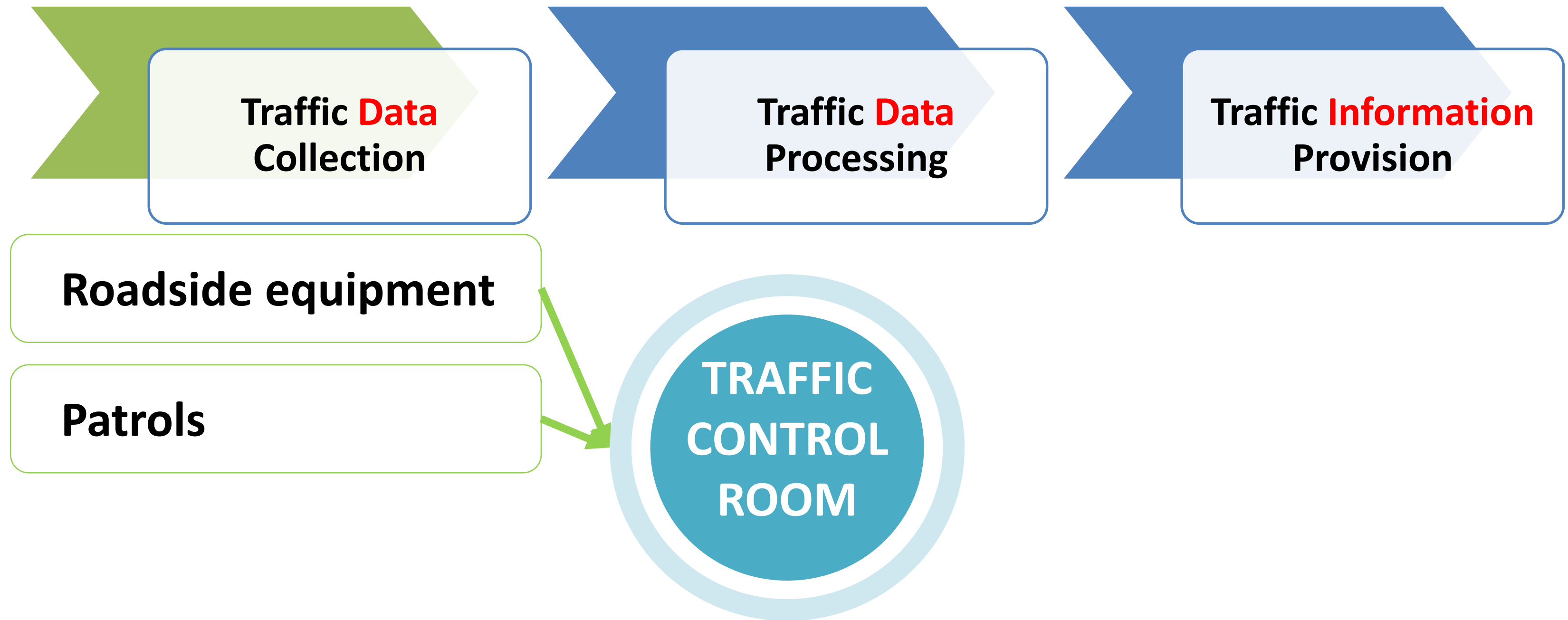- o Liaising with Emergency & Breakdown Services
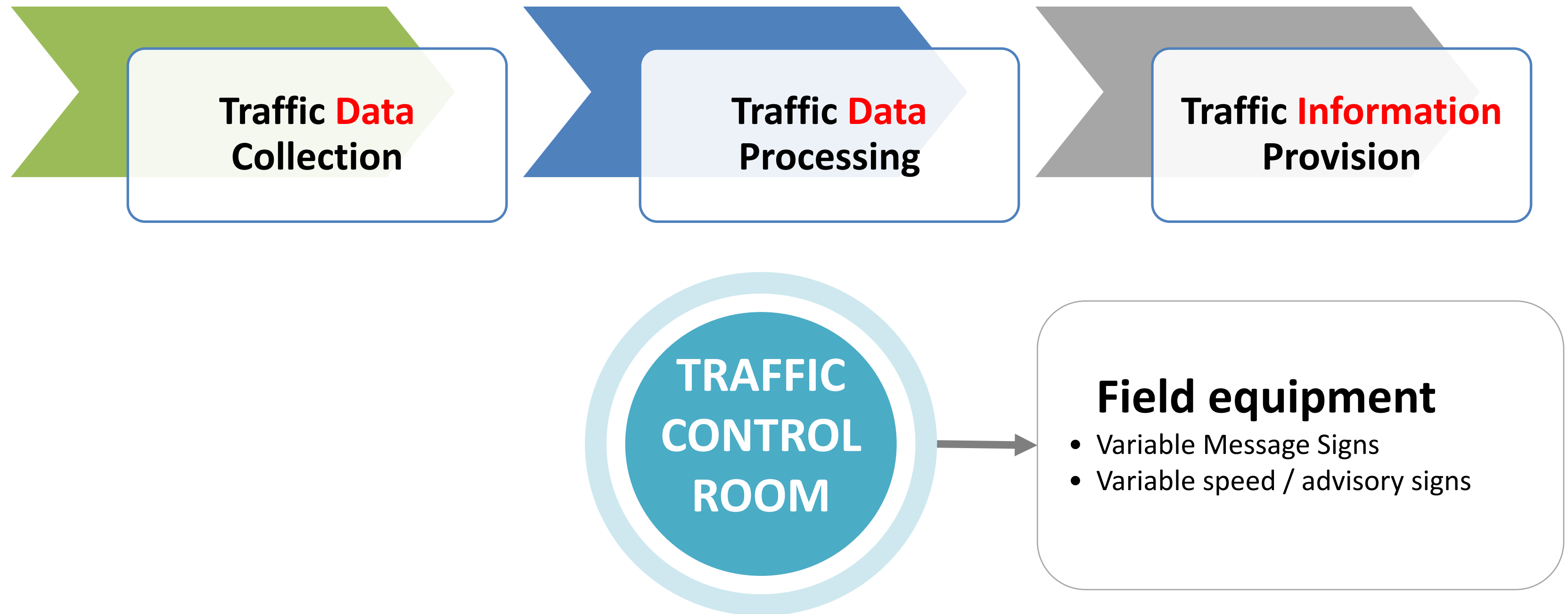
All is about data

Traffic Data Collection → **Traffic Data Processing** → **Traffic Information Provision**

TRAFFIC CONTROL ROOM

All is about data

Traffic Data Collection

Traffic Data Processing

Traffic Information Provision

Roadside equipment

- Traffic counting, WIM stations
- Weather stations
- Video surveillance (CCTV and AID)
- Ramp metering
- Enforcement system
- Over height detectors
- Emergency Phone Call Weather stations
- Video surveillance (CCTV and AID)
- Ramp metering
- Enforcement system
- Over height detectors
- Emergency Phone Call

TRAFFIC CONTROL ROOM

All is about data

Traffic Data Collection → **Traffic Data Processing** → **Traffic Information Provision**

Roadside equipment

Patrols

TRAFFIC CONTROL ROOM

All is about data

Traffic Data Collection

Traffic Data Processing

Traffic Information Provision

TRAFFIC CONTROL ROOM

Field equipment
- Variable Message Signs
- Variable speed / advisory signs

All is about data

Traffic Data Collection → **Traffic Data Processing** → **Traffic Information Provision**

TRAFFIC CONTROL ROOM → Website Radio Social media

All is about data

Traffic **Data** Collection → Traffic **Data** Processing → Traffic **Information** Provision

TRAFFIC CONTROL ROOM →

3rd parties
- Public Authorities
- Emergency, Police &
- Breakdown Services
- ...

All is about data

Enhance safety with data

Egis innovative solutions

Egis solutions

Linceo

Implementation: Mexico

Added value:

- Earlier accidents/incidents detection
- Real-time incidents alerts
- Quicker emergency response times
- Improved collaboration with authorities
- LINCEO
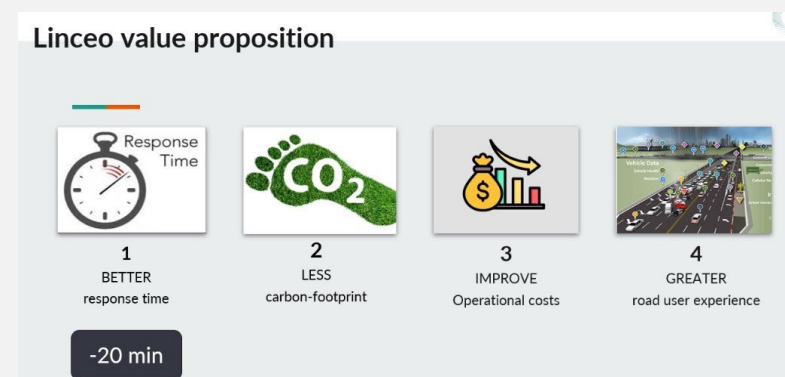
Road Traffic Analysis Platform

Implementation: Poland

Added value:

- Automation to monitor KPIs linked to intervention times and alert users on road disruptions
- WAZE crossed with other social media data: Yanosik, GoogleMaps NaviExpert+facebook…
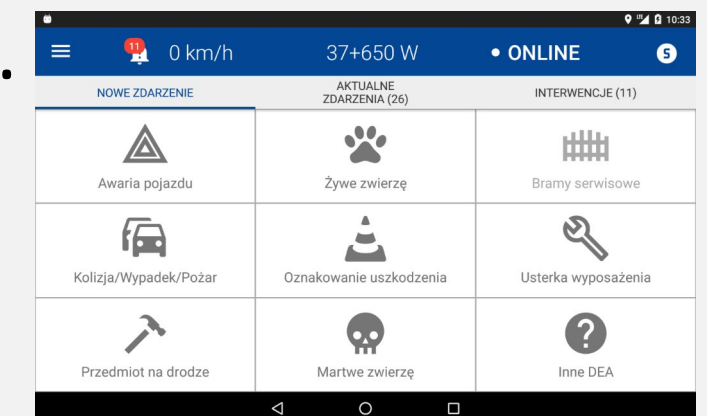
Linceo features

LINCEO
by egis

Features | Datasheet

What is LINCEO?

The traffic management tool that helps increase your road safety and improves your emergency response times

- Centralized monitoring of all your projects
- Customized configuration to your needs for each project
- Real-time incident alerts on your highways
- Web interface in any browser and mobile app for on-site incident management
- Currently available in Spanish, English, French and Portuguese

A platform developed to integrate multiple services on cloud, Mapping & Social Media data focused on Infrastructure Management
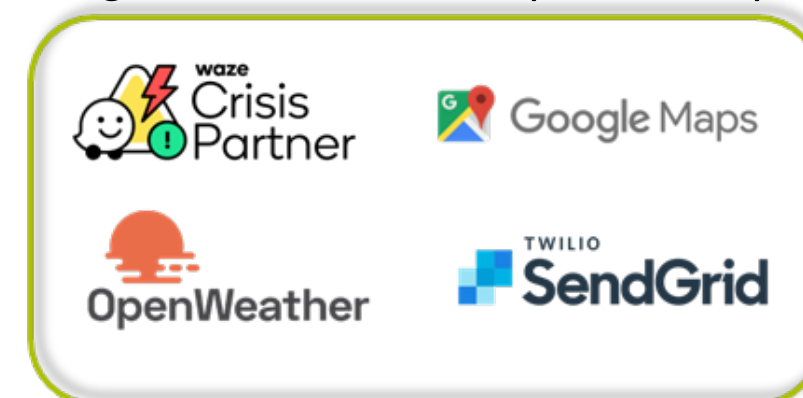
Online biunivocal contact with users
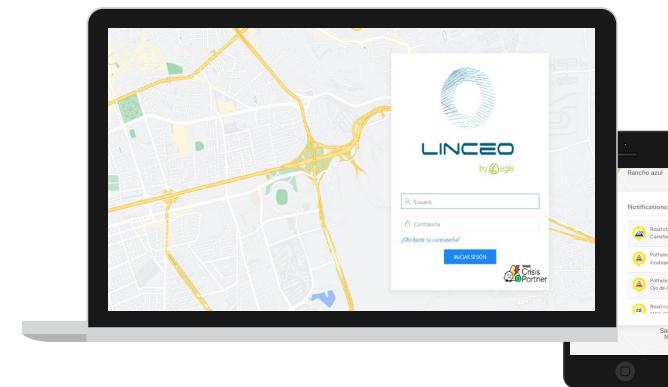
Preventive Alert to Users out of ITS

Assistance Effectiveness

Collaboration with Authorities

Carbon Footprint Reduction

Decision-making based on the current state of the highway.

Integrated services and partnerships

waze Crisis Partner

Google Maps

OpenWeather

TWILIO SendGrid

Road Traffic Analysis Platform

Objective:

Provide comprehensive, real-time, and historical road traffic information to enhance safety and optimize traffic management.

Key Requirements

- Real-time and historical data collection from multiple sources (internal and external)

- Detailed traffic analysis (travel time, average speed, road incidents, traffic jams)

- Flexible visualization tools

- Integration with other systems and data sources

- AI-driven natural language search
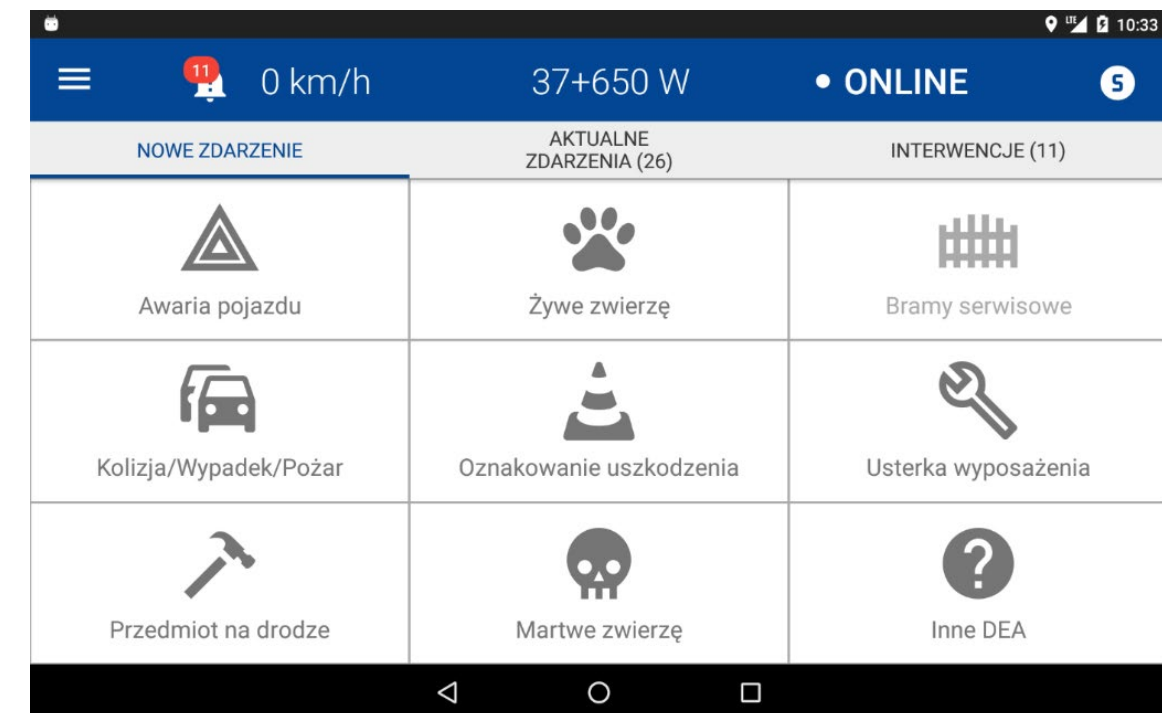
Enhance safety with data

Egis strategy

VigiePatrol

Delivering Value to our clients

Offer a solution to road operators allowing incidents & accidents:

➔ **EARLIER DETECTION**

➔ **PREDICTION BY LEVERAGING DATA**

➔ **REPORTING & VISUALIZATION**

1 Solutions already deployed in Poland & Mexico based on **Waze and Social media data**.

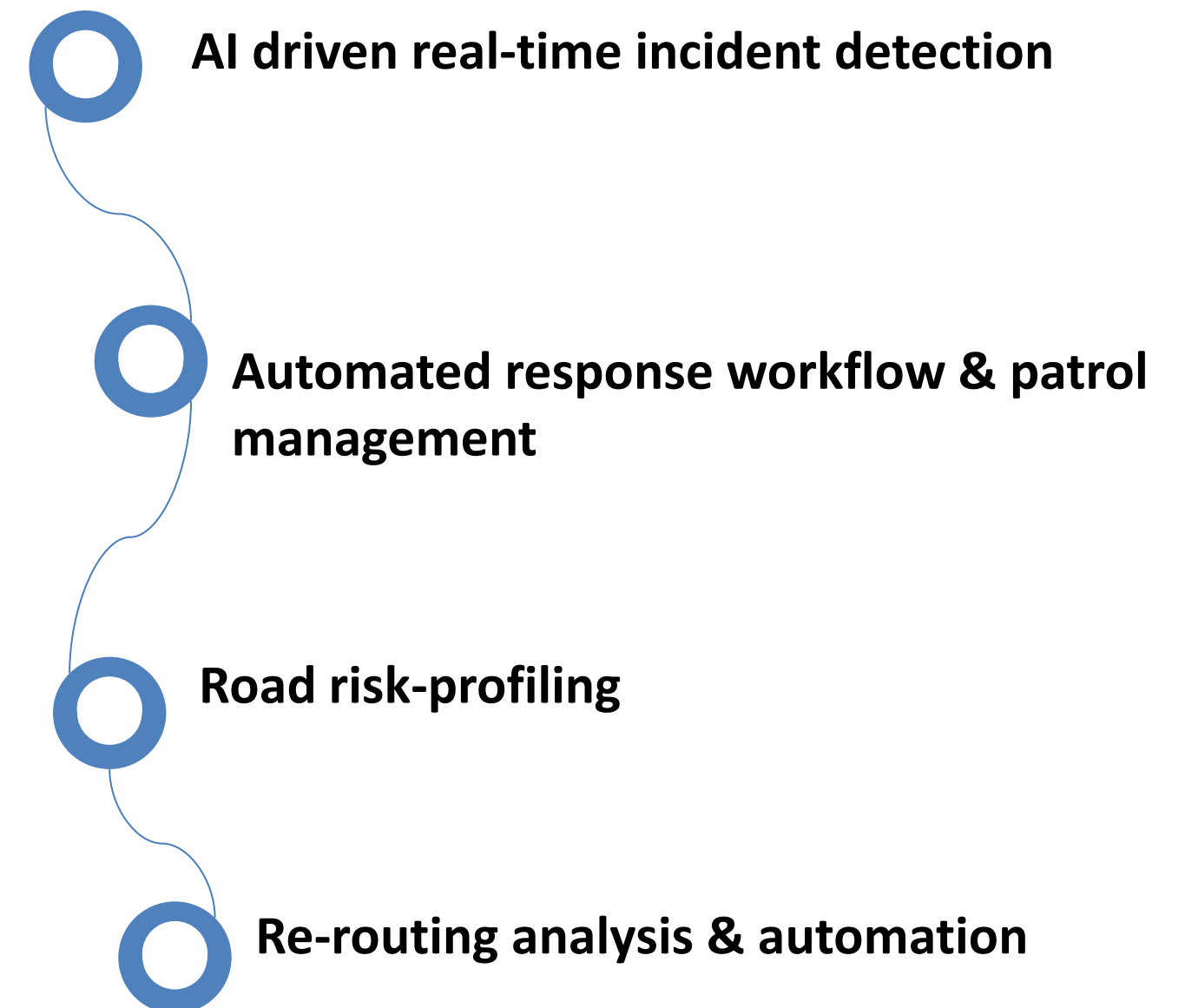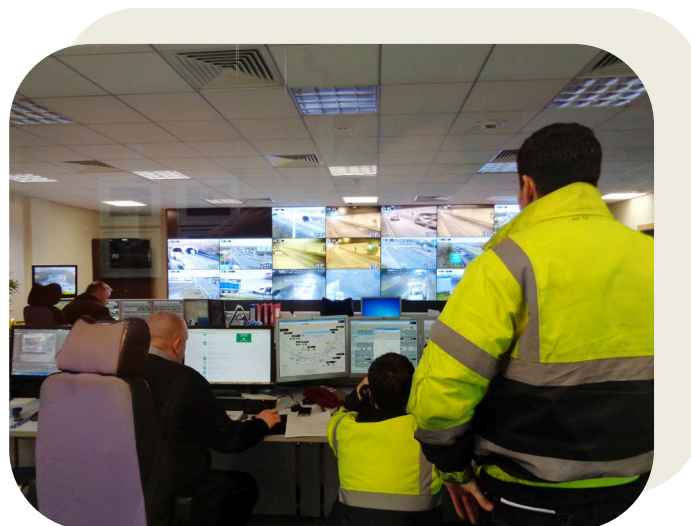**2** Solutions to be enriched with data to work on detection

3 Solution available with adequate reporting of events through Dashboard and hotspots Mapping

Egis strategy

VigiePatrol
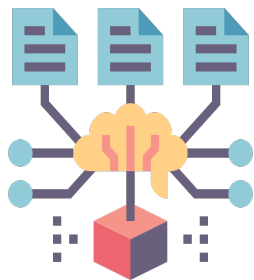
Safer roads, faster responses, seamless communication

- A solution for the control center to enable to respond faster, work smarter, and enhance overall road safety.

○ **AI driven real-time incident detection**

○ **Automated response workflow & patrol management**

○ **Road risk-profiling**

○ **Re-routing analysis & automation**

Enhanced Motorway Safety

Detect and alert users on incidents/accidents *in real-time*

Predict incidents/accidents (winter, high seasons...)

Prepare data for *disruptive projects* as: digital twin, assets resilience, autonomous vehicles...

Thank You

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