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Nicosia, Cyprus

8th Conference
Sustainable Mobility and Intelligent Transport Systems

Public Transport Telematics: Emerging Technologies and Future Developments

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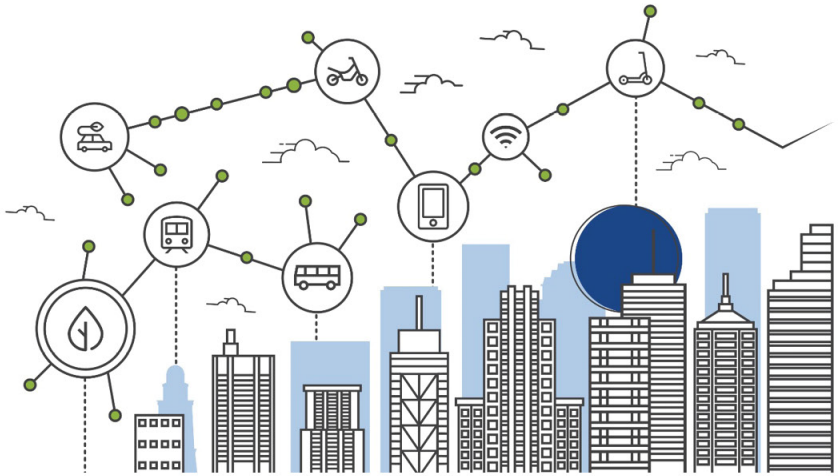


The Conference is implemented within the framework of the Cohesion Policy Programme "THALIA 2021–2027", Co-financed by the European Union.

Co-funded by the European Union

REPUBLIC OF CYPRUS

DEPARTMENT OF PUBLIC WORKS

GMV at a glance

A private-capital, family-owned technology group delivering tailored innovation since 1984

1984
Founded in Madrid

4,000+
Professionals

80
Countries with clients
Offices in 12 countries

€510M
Total income in 2025
75% international

Areas of activity

- Space
- Aeronautics
- Defence & Security
- Automotive
- Cybersecurity
- **Intelligent Transport Systems**

GMV in Intelligent Transport Systems

Designing, developing and delivering ITS systems worldwide

1,000+

Clients choose GMV's ITS solutions

35+

Countries in 5 continents

End-to-end delivery

Design, development, implementation and rollout of the complete project

Own hardware and software

Developed and manufactured by GMV

Long-term commitment

Including system evolution and obsolescence management.

Certified Management Systems

for quality, information security, energy and environmental management.

Solutions for

- Bus PT
- Rail
- Automotive

Global expertise. Local Commitment.



Diverse customers
Authorities, operators and OEMs

Own ITS Portfolio
Adapted to local needs

Market-driven innovation
Solutions for real problems

We don't just deliver technology, we are a technology partner for the long run

Cyprus: the project and its context

In 2016 the Ministry of Transport, Communications and Works tendered to modernise its bus concessions

Before

Manual operations

- Fleet management run manually by the operators
- Ticket collection done by hand
- No visibility of collections for the Ministry

With GMV

Multi-operator ITS since 2016



- **Integrated, automated and auditable ticketing**
- **A planned and controlled transit system**
- **A reliable passenger information tool**

Our customers in Cyprus

The Ministry of Transport, Communications and Works and the island's bus operators

Ministry of Transport Communications and Works

Customer since 2016

Public tender won by GMV to modernise the bus concessions

CYPRUS PUBLIC TRANSPORT | NICOSIA PUBLIC TRANSPORT | LARNACA PUBLIC TRANSPORT

ΕΜΕΛ
Εταιρεία Μεταφοράς Επιβατών Λεμεσού

15 YEARS Intercity Buses
ΥΠΕΡΑΣΤΙΚΑ ΛΕΩΦΟΡΕΙΑ ΚΥΠΡΟΥ

OSEA

ΟΣΥΠΑ ΛΤΔ
ΟΡΓΑΝΙΣΜΟΣ ΣΥΓΚΟΙΝΩΝΙΩΝ ΠΑΦΟΥ

The Cyprus project in numbers

One multi-fleet system for the island’s bus operators

1400+

Buses across city, intercity and school fleets

6

Operators in one multi-fleet system

70

Passenger displays:
30 LED, 40 solar ChLCD

8

Years of integral maintenance



Delivered on schedule

Completed in May 2018, meeting the Ministry’s deadlines

Cyprus school bus fleets

The government is modernising school transport across the island with GMV

750+

School buses

5

Operators

Every bus will be equipped with

Smart card system

Ticketing based on user accounts (ABT)

FMS

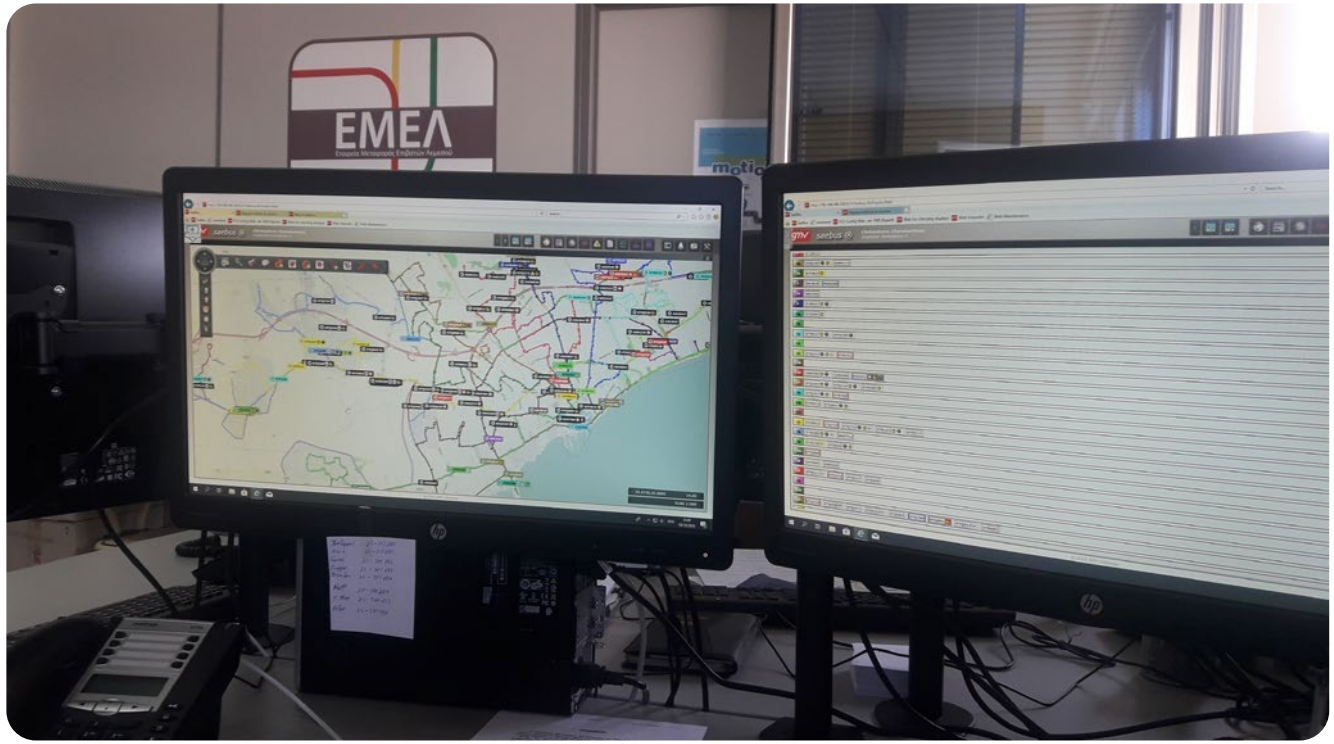
Fleet Management System

GMV ITS Suite fleet management

Dispatching, alarm management and regulation tools

The system in action

From the bus to the control room



Operator control room: the fleet live on the map

On board

Fleet management, ticket validation and CCTV

At stops and on the move

LED and solar displays, on-board multimedia, web and mobile app

Cloud platform

One central platform for the operators and the Ministry

Integral maintenance

Local team and facilities dedicated to Cyprus

Transparency for the Ministry

The Clearing House turns fleet and ticketing data into KPIs and monthly settlement

KPI 1
On-time departures

KPI 2
Punctuality at every stop

KPI 3
Changes made online

KPI 6
Eco-driving performance

How non-compliance is handled

Operators explain
Add a comment to explain a missed KPI (1 to 3)

Ministry validates
Ministry staff review and validate each case

Monthly settlement
Operator settlement calculated from system data

Next-generation ticketing

Account-based ticketing: ticket-free travel on the Cyprus bus fleet



EMV Level 3 pilot

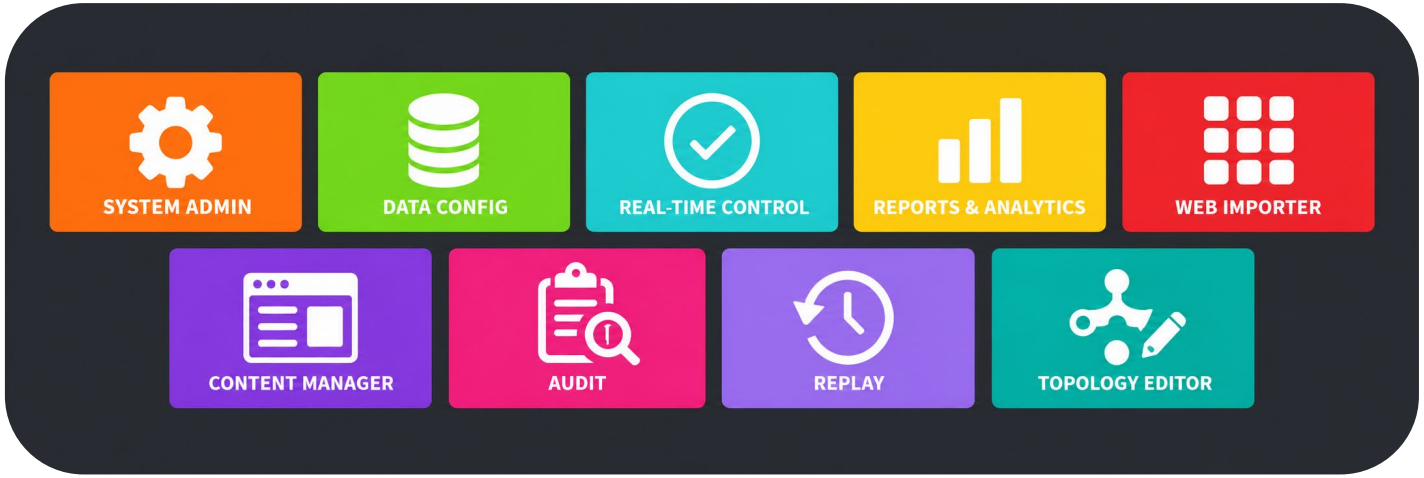
Bank-card payment on Famagusta buses, a Cyprus first

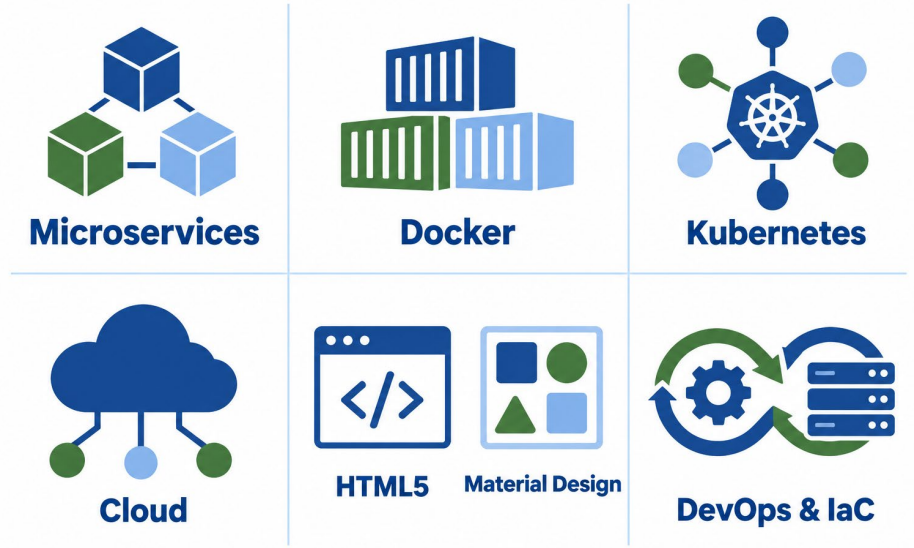
Cloud migration

The whole IT infrastructure now runs in the cloud

Upgrading the system: ITS Suite

From separate legacy applications to a single cloud-native platform





Cloud-native

Modern technology stack

7 × 24 operation

Load timetables & assignments without restarting the system

One control centre

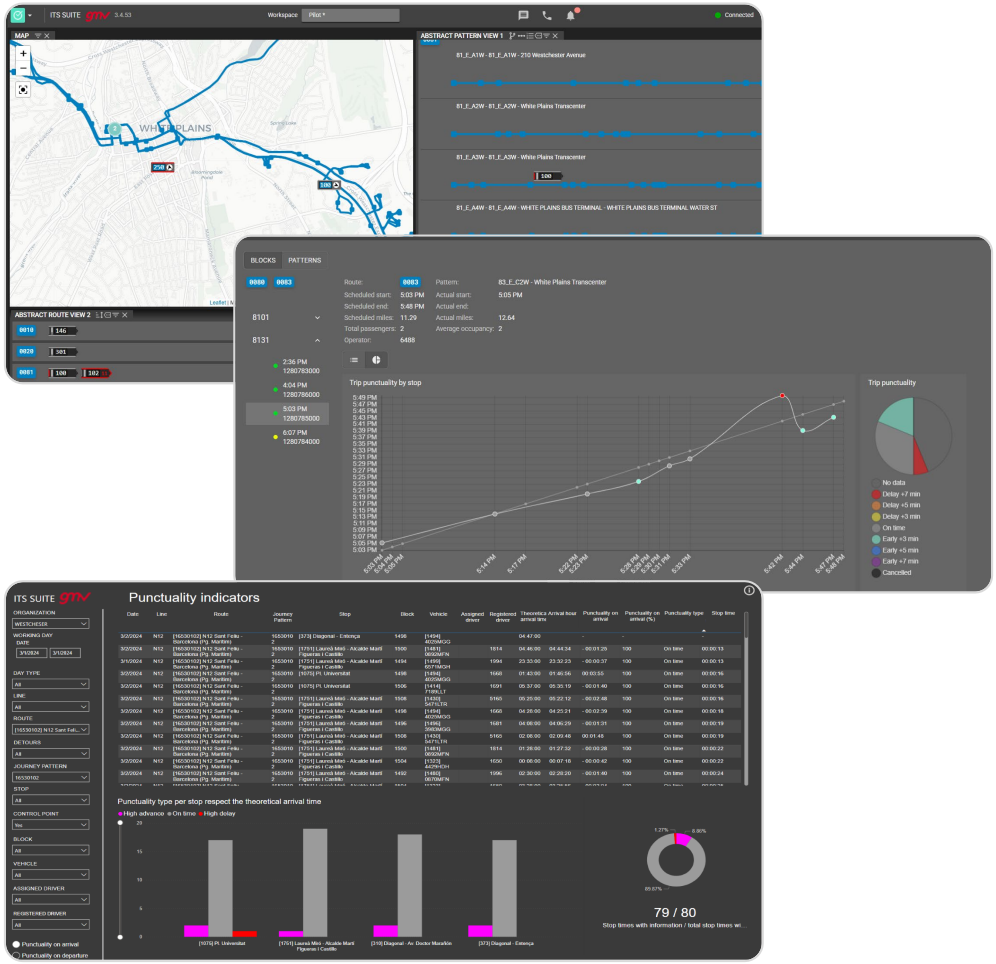
Fleet and fare management in one suite, with one login, one DB

Configurable workspace

Totally flexible at user level

Smarter fleet management

What the control centre gains with the ITS Suite



Topology versions

Instant fallback and summer or winter plans in advance

Chat-style messaging

WhatsApp-like messages and VoIP calls

Power BI analytics

Create your own dashboards, no GMV support needed

Open standards

GTFS, GTFS-RT, SIRI, NeTEx and ITxPT

Real time first

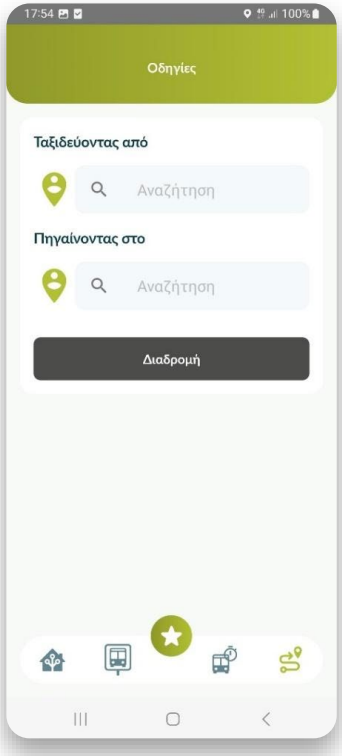
Heavy reports never slow live operations

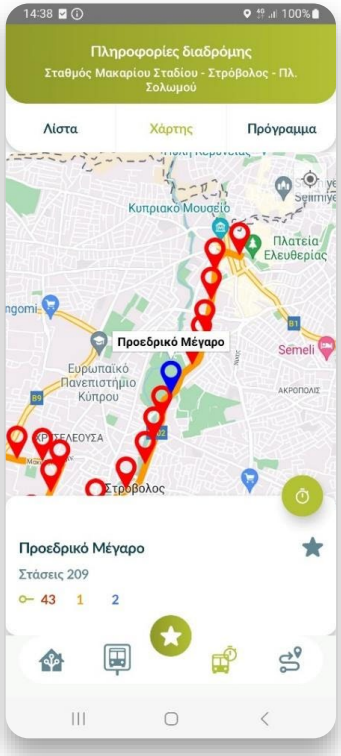
NIS2-ready security

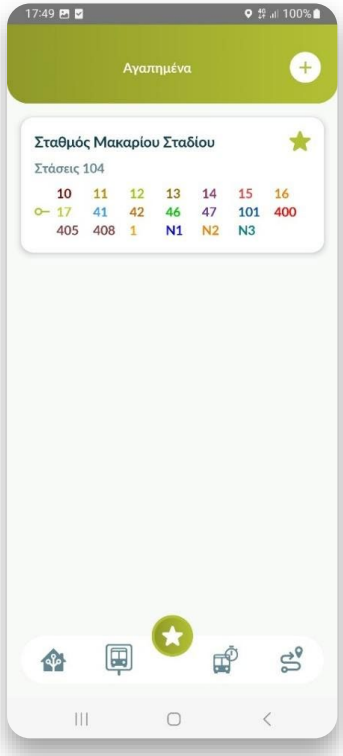
Designed for the EU cybersecurity directive

Real-time information for passengers

Mobile app, public website and live departure displays









Live departures at Solomou Square, Nicosia

Cyprus Bus app: iOS and Android

Open data: GTFS and SIRI APIs

Live displays at the main station

What changes, what stays

The proposed migration path, protecting what already works

Migrates to the ITS Suite

Ticketing control centre	→	**ITS Suite fare management**
Report management tool	→	**ITS Suite reports and BI**
Sales outlet	→	**POS100 software**
Inspection units	→	**New Android device**
Internet top-up services	→	**Purchasing API with JCC web page**
Proprietary protocol	→	**REST APIs and open standards**

Stays in place

- ✓ **Cyprus Bus mobile app**
- ✓ **Public website**
- ✓ **Solomou Square displays**
- ✓ **On-board CCTV**
- ✓ **Eco-driving reports**
- ✓ **Clearing House, adapted**

TV100: contactless payment for the whole island

One validator and one experience across every operator and line



TV100 validator

Designed and made by GMV

Any contactless payment

Bank cards, phones and smartwatches, EMV certified

Keeps working offline

EMV tokens and on-board logic validate without a live bank connection

Ready for ABT and QR

Plugs into account-based ticketing; the Cyprus variant also reads QR codes

Proven in Madrid

2,100
Buses pertaining to 12 operators live from day one

~70%
of the concession fleet divided across 35 contracts

98.6%
of normal validations kept during a blackout

Organisers

Ministry of Transport, Communications and Works

DEPARTMENT OF PUBLIC WORKS

SUSTAINABLE MOBILITY

Co-Organisers

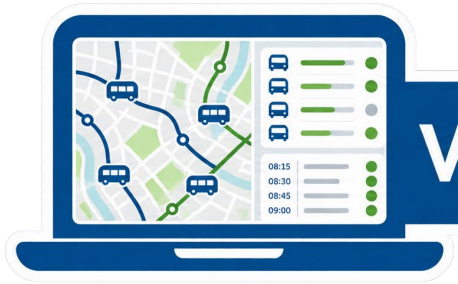
University of Cyprus

KOIOS Research and Innovation Center of Excellence

Σύλλογος Συγκοινωνιολόγων Κύπρου

Supporters

ETEK ΕΠΙΣΤΗΜΟΝΙΚΟ ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΚΥΠΡΟΥ



Visit us for a live demo



Thank you for your attention!

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