OdakUYS: Transportation Management System

Your City's Transport Network on One Screen, Under Your Control.

Starting Point

ODAKGIS
Inspiring the Community

OdakUlasim | 2026 Transport Vision

One City, Millions of Data Points: Why a New Infrastructure?

Current State & Operational Complexity



Vehicles & Operations. Tens of thousands of daily trips with parallel driver and fleet assignments.



Data & Analytics. Fragmented ticketing systems, manual tracking and disconnected map data.



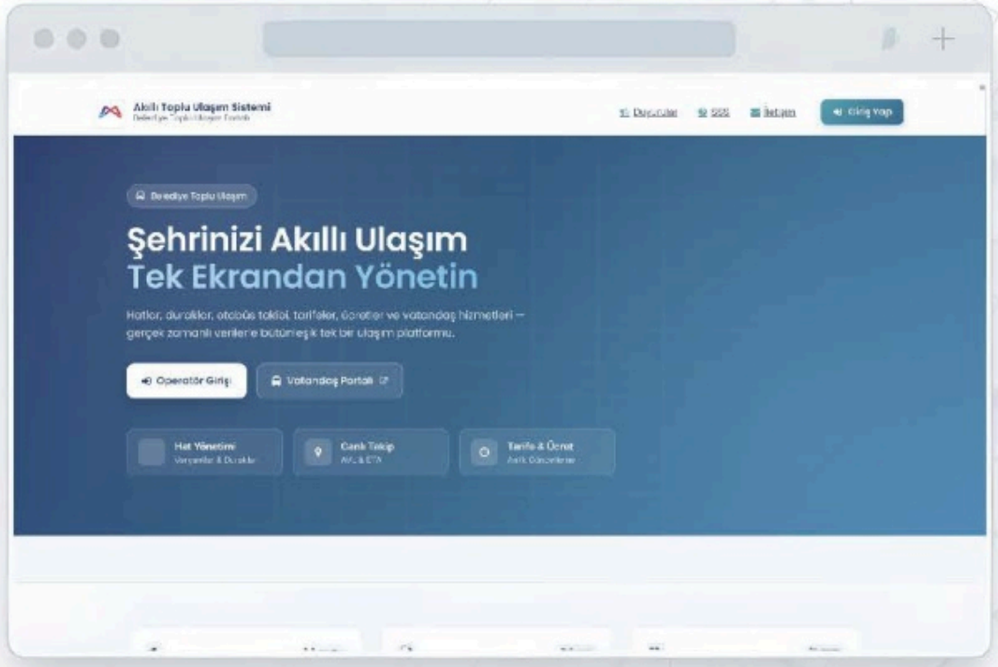
Citizen Communication. Passengers expect transparency and increasingly demand real-time arrival estimates (ETA).

Management visibility, centralized operational control and citizen transparency must come together in one integrated platform.

Central Station: OdakUlasim

20 Modules. Integrated coverage from operations to citizen services.

5-15 sec. Live location updates through SignalR.



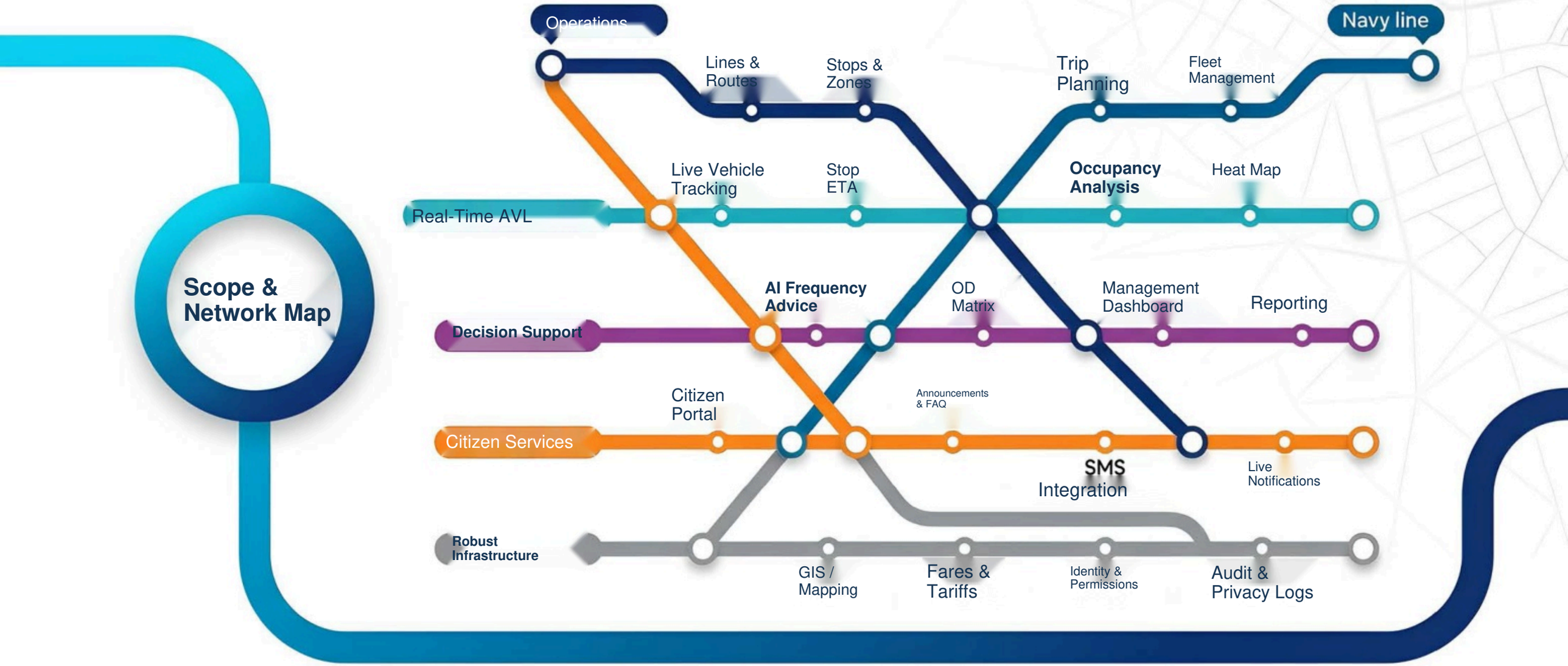
PWA Support. App-store-independent, instant web / mobile access.

Open Source. Single-tenant architecture; your data stays on your own server.

The Solution: Manage Your City from One Screen

A dedicated, GIS-based smart platform that manages municipal public transport operations from end to end.

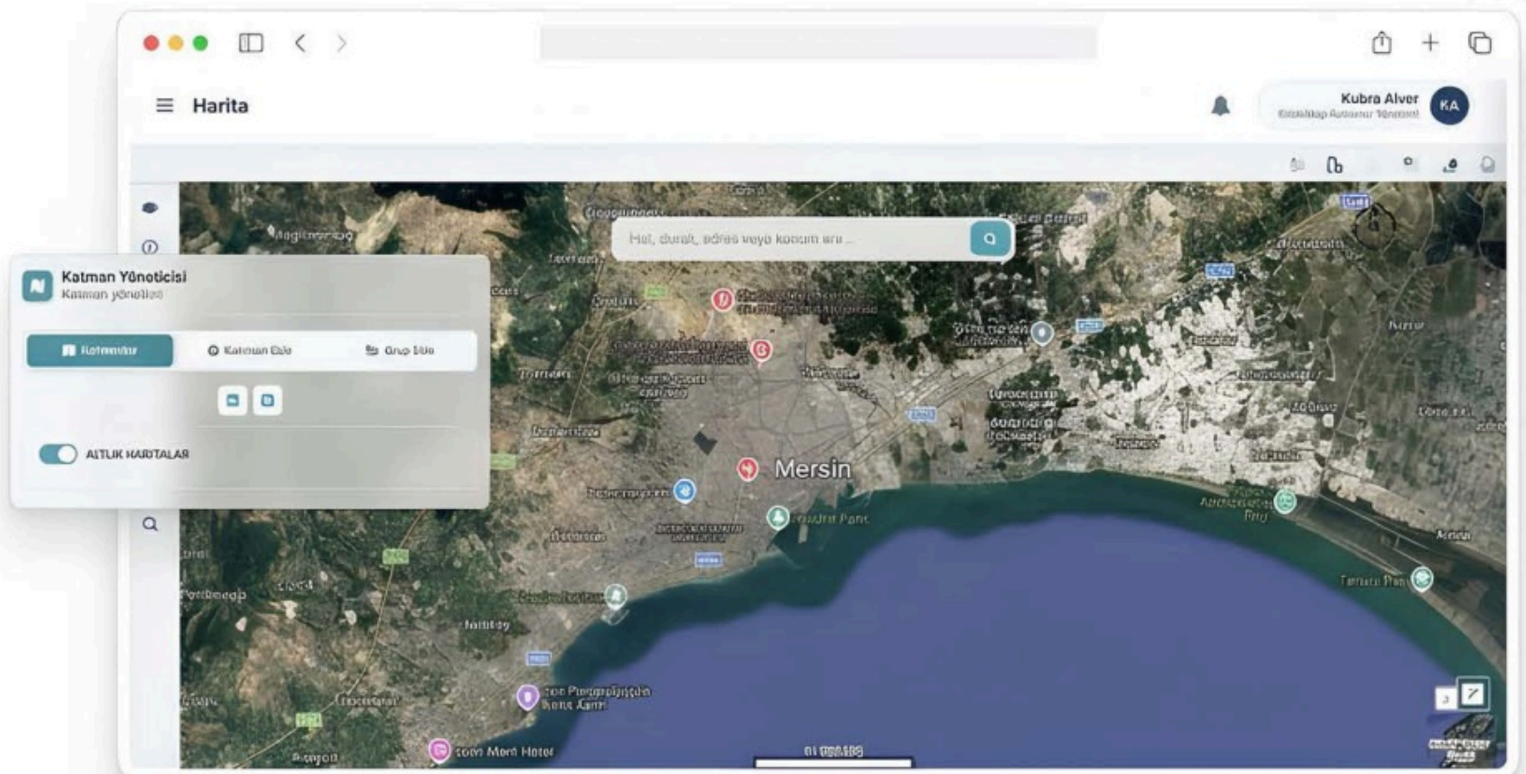
Twenty Modules, Five Main Lines



GIS Station

Powered by Geographic Information Systems (GIS)

Advanced mapping infrastructure supporting 18 coordinate systems and international standards.

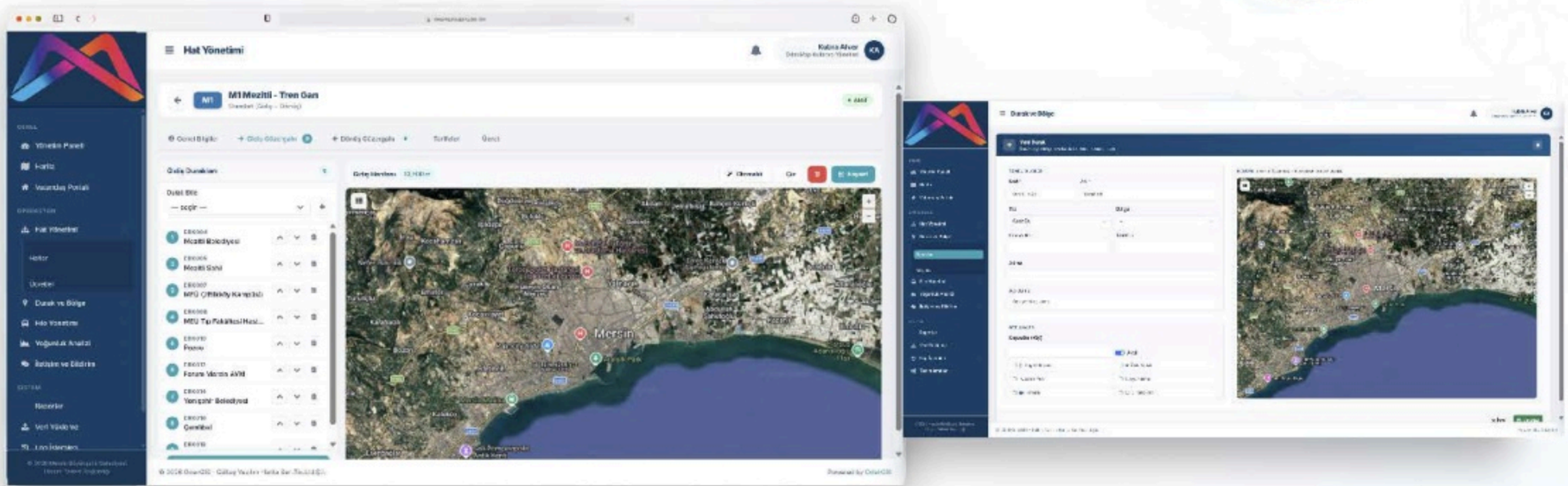


Layer & Data Management. Upload Shapefile, DWG, GeoJSON and GML; apply custom SLD styling.

Advanced Standards. 18 EPSG systems, 15+ POI categories, gazetteer search and detailed authorization.

Planning & Operations

Line, Stop and Zone Management



1. Define. Map every route variant (LineString) from garage departure to return.

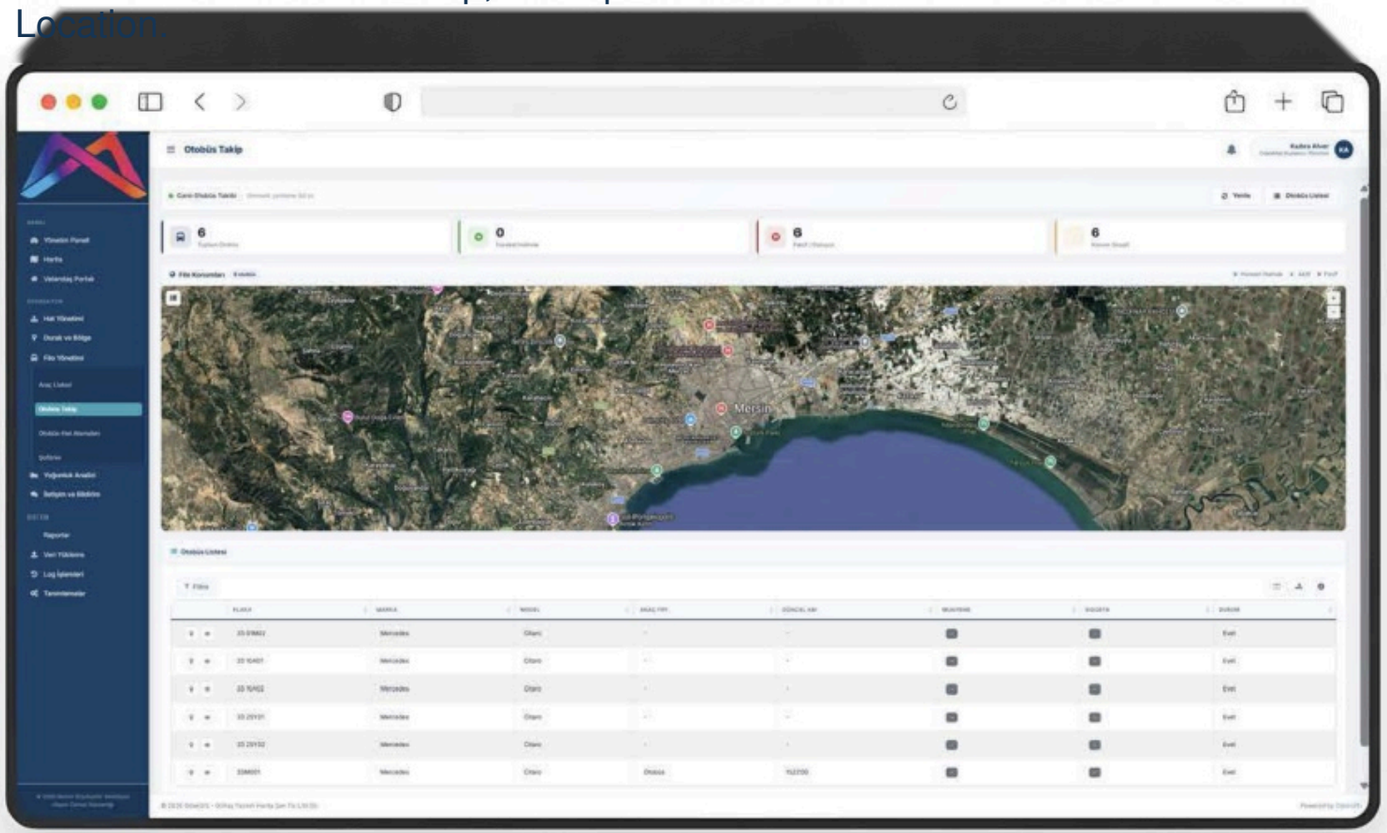
2. Locate. Position stops precisely on the map and record accessibility, cameras and shelters.

3. Manage. Coordinate trips, driver shifts and fleet status through GTFS-compliant infrastructure.

Live Fleet Control

The City's Pulse: Real-Time AVL Tracking

Your entire fleet on the map, with updates in seconds. AVL: Automatic Vehicle Location.



SignalR Infrastructure. Continuous live location updates every 5-15 seconds.

Proactive Response. React instantly to delays, breakdowns and route deviations.

Fleet Consolidation. Plates, makes, models, scheduled maintenance and insurance on one screen.

AI & Decision Support

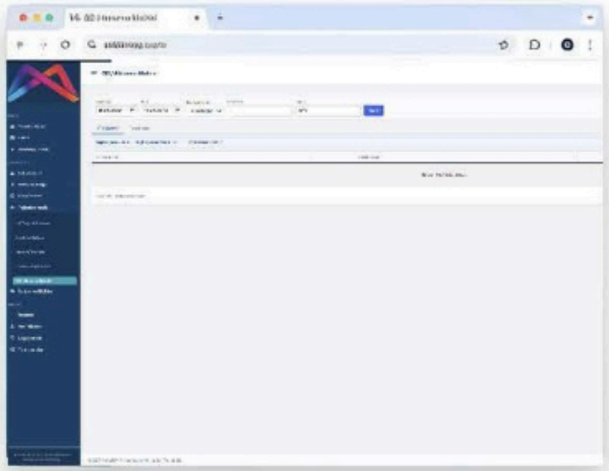
Turn Data into Decisions and Forecasts into Clarity

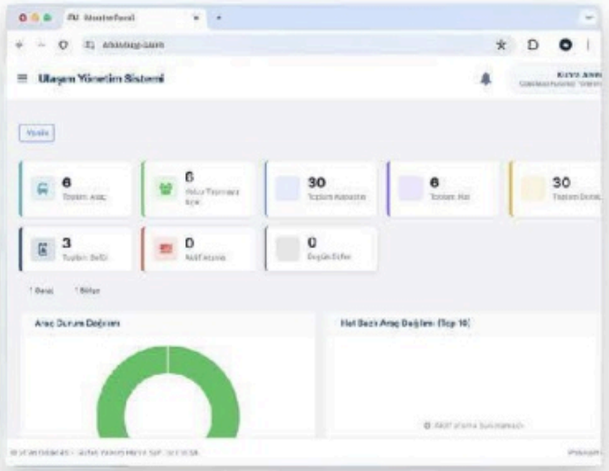
Data Flow

Vehicle Speed +
Dwell Time

+
Distance

Live ETA (Estimated Time of Arrival)





Analysis Engine
(FrekansOneriWorker)

OD Matrix +
Peak Demand

+

Seasonal Patterns

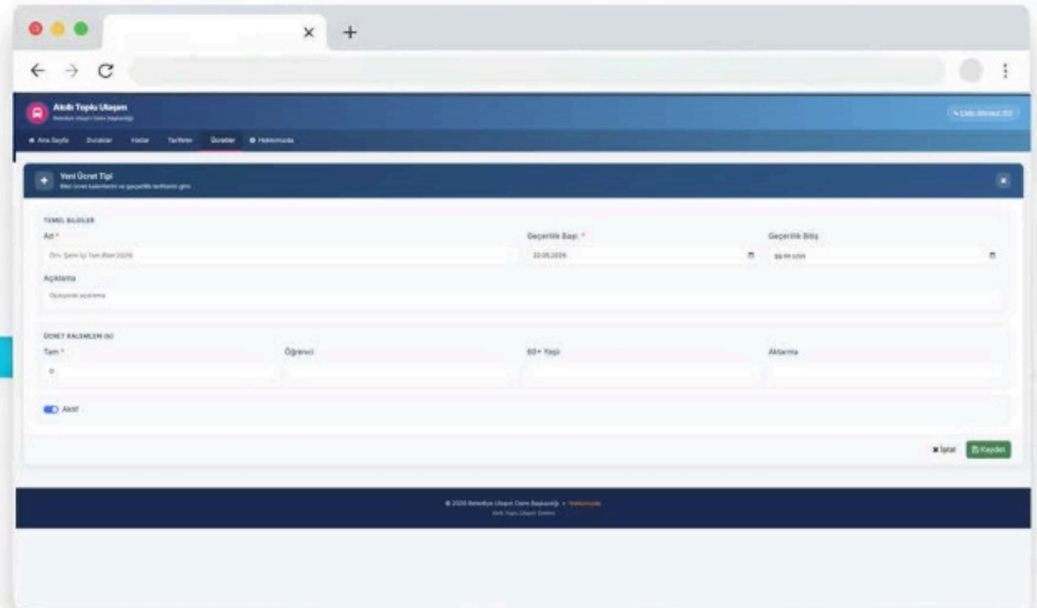
AI Frequency Advice
(Automatic service frequency optimization)

Occupancy Analysis

Live occupancy from 0% to 100%, geographic heat maps and historical comparisons.

The Origin-Destination (OD) matrix models passenger flows between trip origins and destinations. Combined with peak demand, capacity use and seasonal patterns, it supports AI-assisted scheduling and service frequency optimization.

Flexible Fares and Ticketing Integration



Fares & Finance

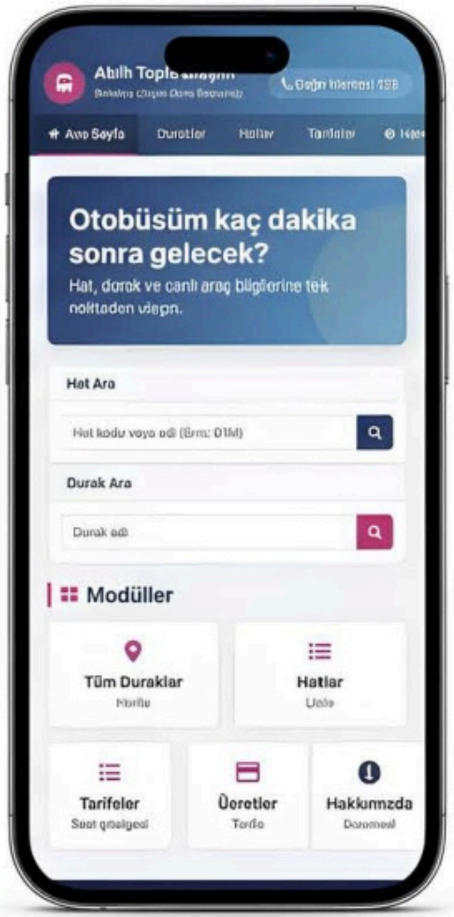
Dynamic Tariffs. Route-variant fares with start and end times, tailored to dates or special days.

Full Integration. Automatically match student, age 60+ and transfer smart card types with the system.

Financial Visibility. Directly analyze the financial performance of each line, trip or vehicle.

Transparent Passenger Communication: Citizen Portal

Citizen Experience



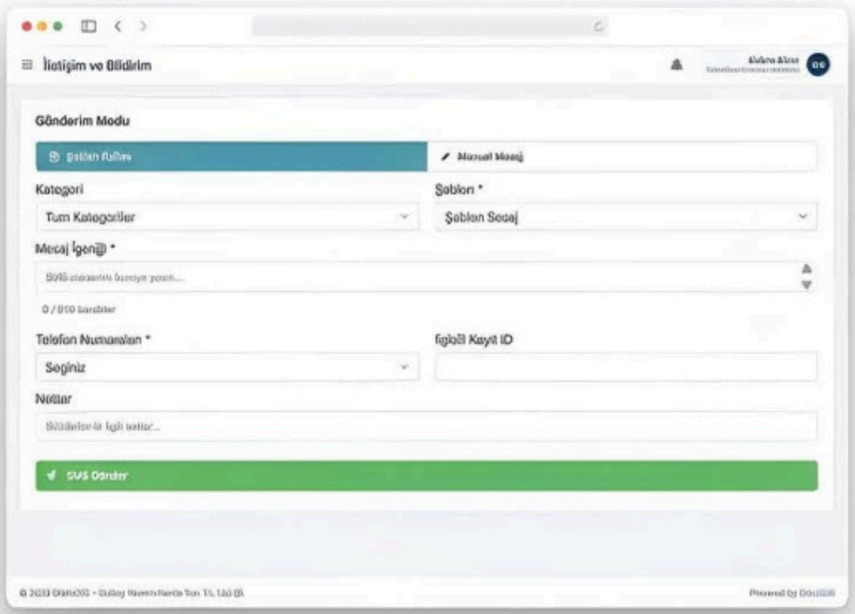
Device Independent (PWA). A native-like browser experience without installing a mobile application.

Live Information. Search lines and stops and ask 'Where is my bus?' Real-time ETA in the passenger's pocket.

Two-Way Interaction. Submit photo-supported, SMS-verified requests to the municipality and track their status.

Reach the Right Person at the Right Time

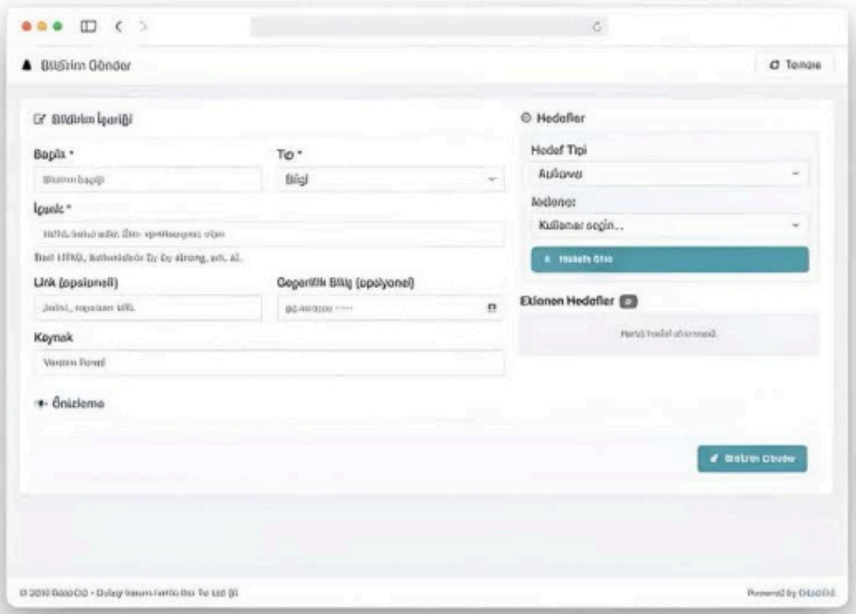
External Communication



SMS Infrastructure: Send template-based or instant messages, with audience targeting and OTP verification for fully integrated messaging.

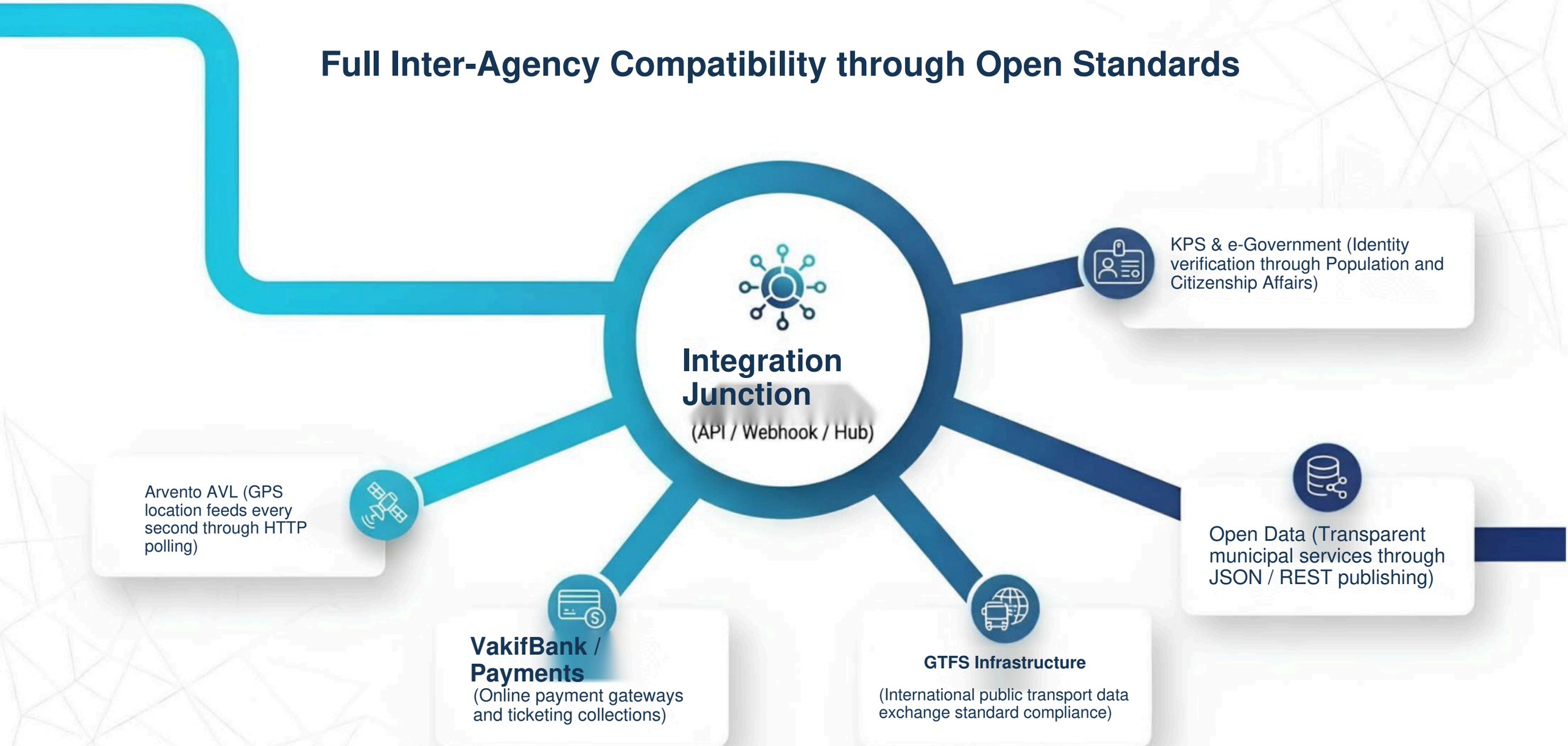
Operational Communication

Internal Communication



Internal Notifications: Role-, department- or permission-based pop-up alerts keep staff, operators and drivers informed of live changes.

Full Inter-Agency Compatibility through Open Standards



Traceable, Secure and Compliant Infrastructure

Authentication. SmartAuth dual-layer protection and JWT Bearer protocols prevent unauthorized access.

Enterprise Integration. Session management compatible with existing municipal IT through external STS (OAuth / SSO).

Advanced Audit Logs. Automatically record every addition, deletion and change, including old / new values, timestamps and user details.

Privacy Compliance. Personal data masking and processing / retention aligned with Turkey's KVKK requirements.

Security & Standards

Value Summary

Why OdakUlasim? Benefits for Your Municipality



Strategic Management (For Leaders)

See the full operation on one screen. AI frequency advice and OD matrices support data-driven transport decisions.



Operational Efficiency (For Department Heads)

Digitize manual processes. Single-tenant open-source architecture reduces hardware and license costs and optimizes driver and fleet assignments.



Citizen Satisfaction. A modern PWA interface, real-time ETA and transparent communication reduce uncertainty while waiting at stops.

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Inspiring the Community

Final Stop /
Contact

Let's Transform Your City's Transport Together

Take the first step toward smart, transparent and data-driven management.

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