ODAKGIS
Inspiring the Community

OdakMYS:

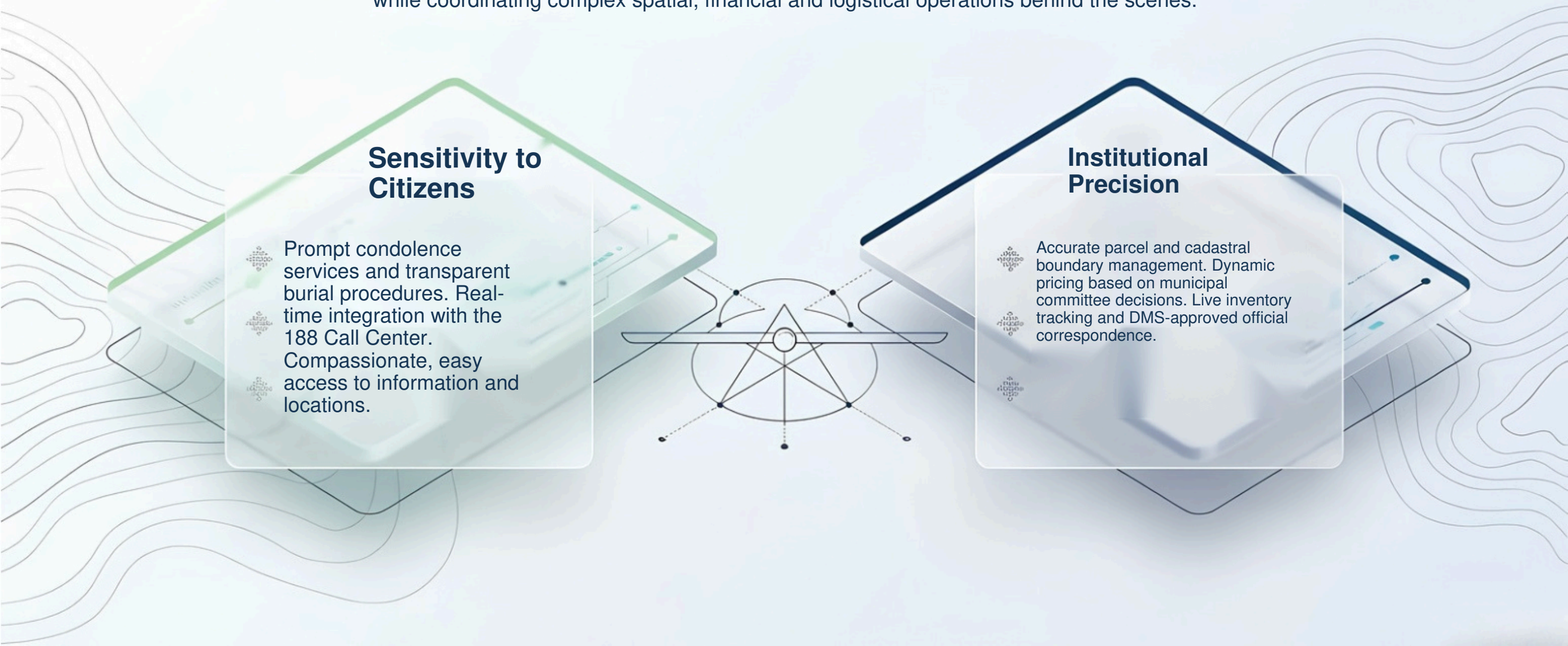
Cemetery

Management System



The Delicate Balance of Modern Municipal Services

Cemetery management demands flawless service at citizens' most sensitive moments,
while coordinating complex spatial, financial and logistical operations behind the scenes.



Sensitivity to Citizens

- Prompt condolence services and transparent burial procedures. Real-time integration with the 188 Call Center. Compassionate, easy access to information and locations.

Institutional Precision

- Accurate parcel and cadastral boundary management. Dynamic pricing based on municipal committee decisions. Live inventory tracking and DMS-approved official correspondence.

OdakMYS: A Comprehensive Smart City Pillar

Designed to Kocaeli Metropolitan Municipality standards, managing every process centrally:
an open-source, integrated digital infrastructure.

Smart Spatial Intelligence (GIS)



Administrative & Financial Core



Operations & Logistics



Citizen Experience



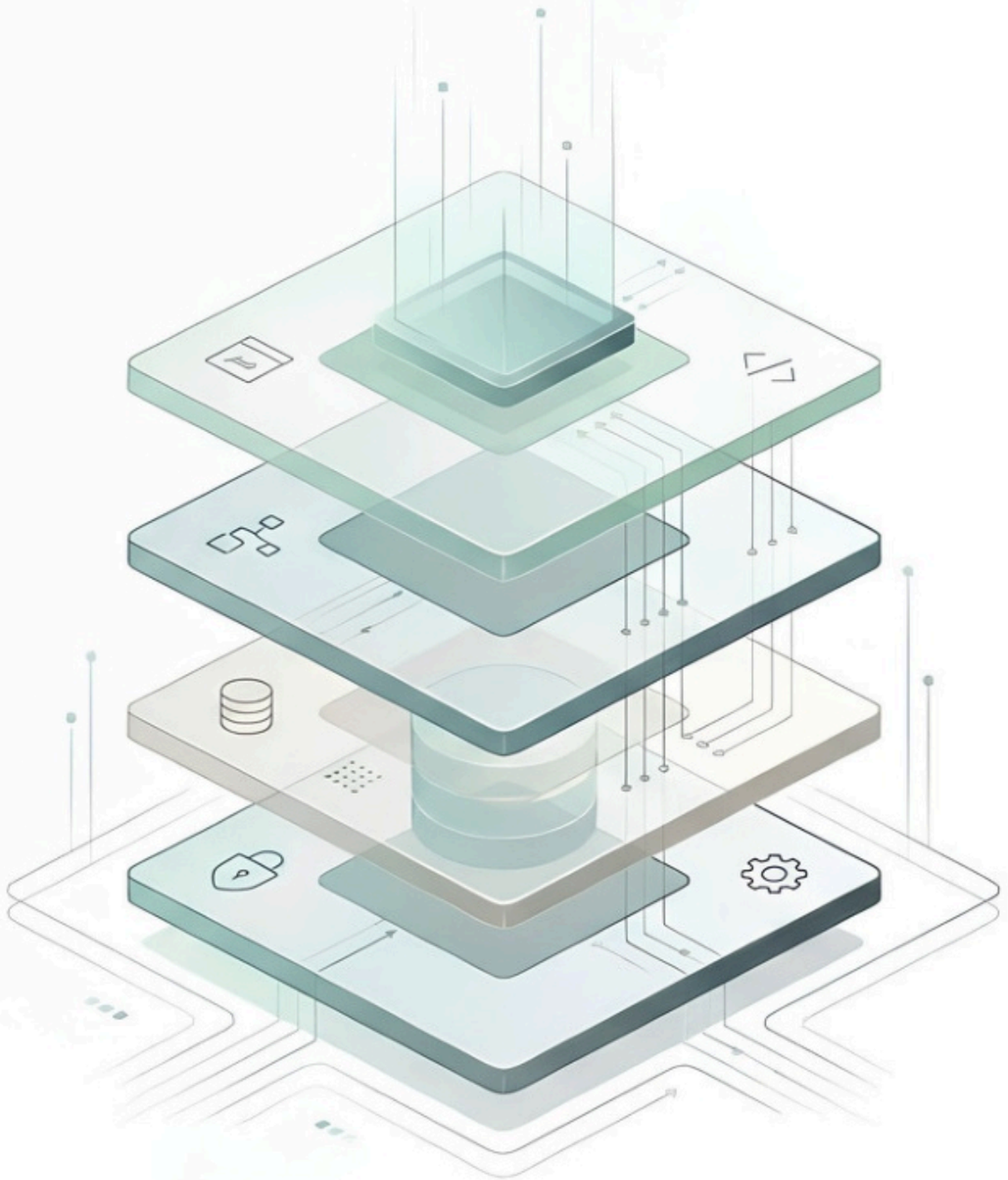
Open-Source, Reliable and Independent Infrastructure

Front end: HTML5, CSS, TypeScript and Angular 15. Responsive, plug-in-free web experience.

Back end: .NET 8 and Node.js. High-performance, independent server architecture.

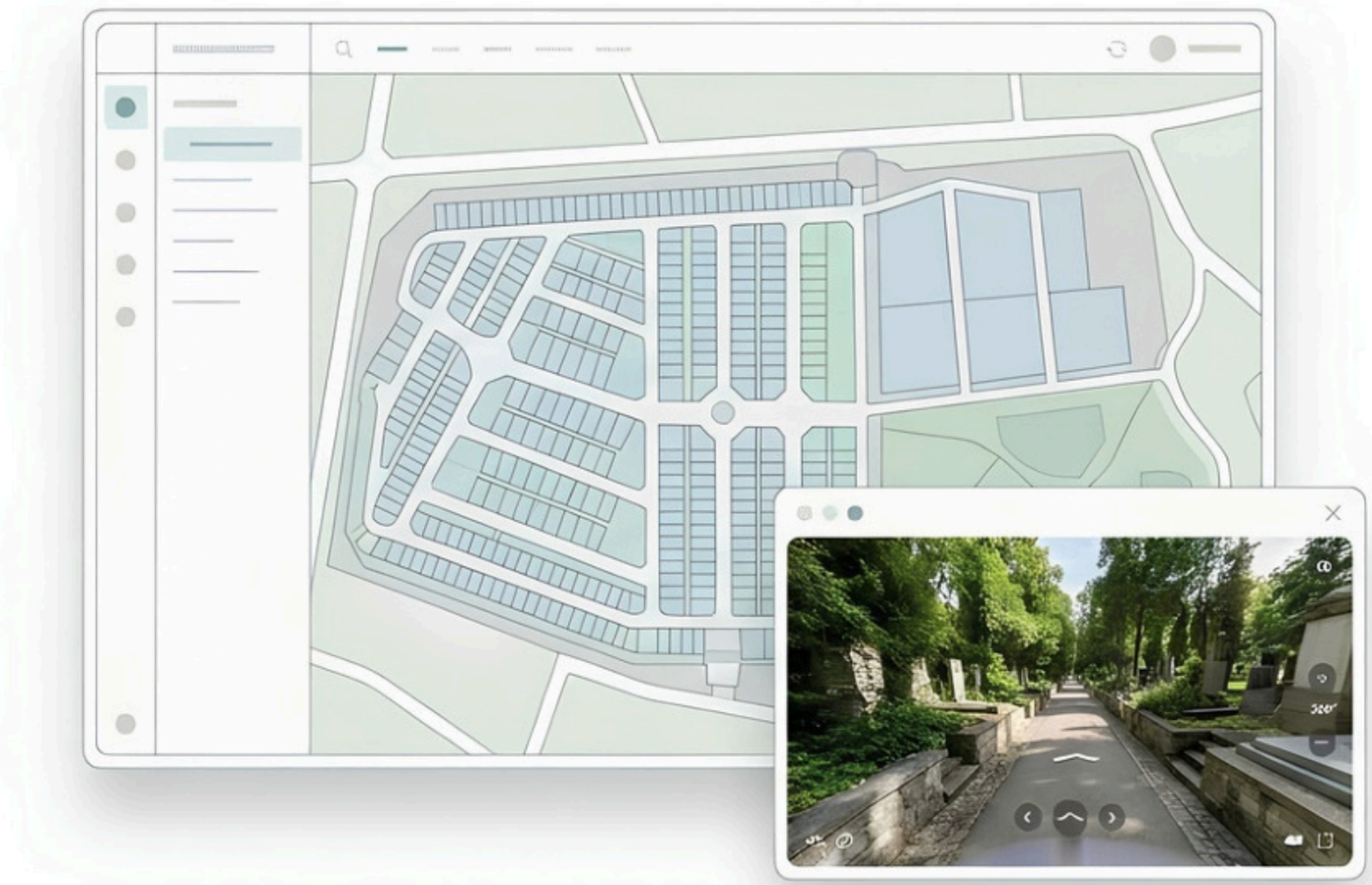
Database and mapping: PostgreSQL / MS SQL, GeoServer, OpenLayers. Full support for OGC standards (WMS, WFS).

Security: SSO-based roles, encrypted configuration and real-time IP / date-based transaction logs.



Spatial Intelligence and 360° Visualization

- Vector Data Management: Draw, edit and export SHP, KML and GML data online.
- **360° Media Integration: Virtual navigation and grave matching using panoramic cemetery photographs.**
- Dynamic Output: Instantly generate customized maps with legends, institutional logos and QR codes.



The Four Pillars of the Ecosystem

01. Spatial Intelligence (GIS)

- WMS/WMTS Services. 360° Panoramic Media. Dynamic Map Layers.
- Instant AutoCAD / SHP Conversion



02. Institutional Operations

- SSO2025 Central Identity. Digital Payments and Cashier Services.
- Full DMS Integration. Millisecond Audit Logs.



03. Field & Logistics

- Dynamic Warehousing and Stock. Vehicle and Fleet Management.
- Landscape and Tree Inventory. Approved Condolence Services.



04. Citizen Services

- Responsive Smart Search. Gravestone QR Codes. 188 Call Center Synchronization.
- Live Funeral Vehicle Location



Pillar 1: Smart Space and Spatial Intelligence

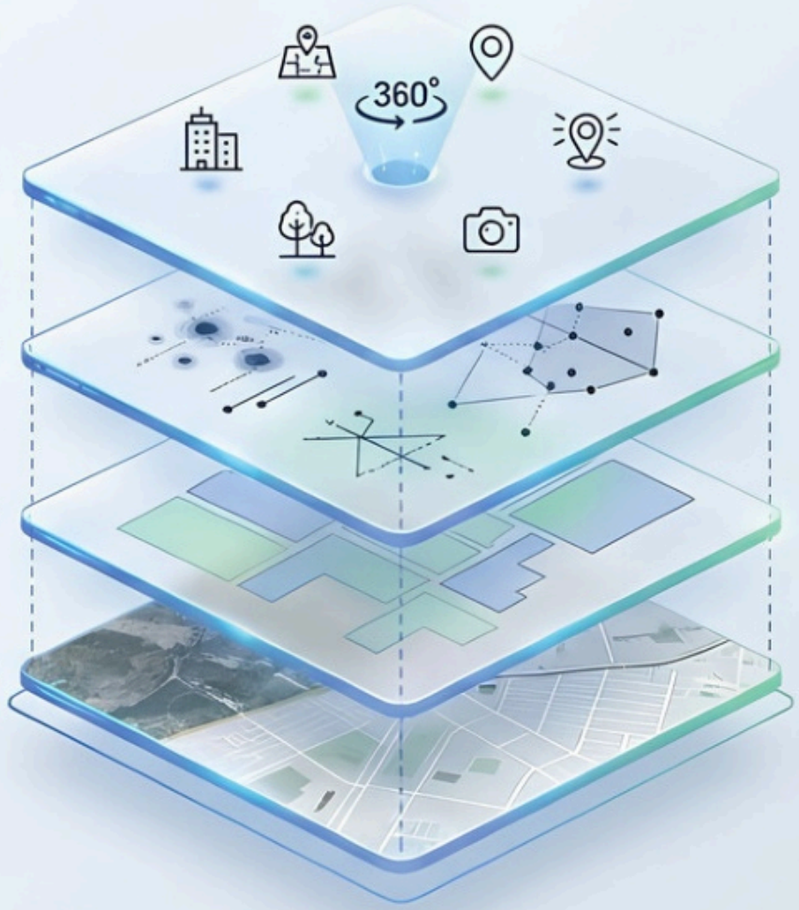
Seamless integration of attribute and spatial data. Grave locations, parcel ownership and forest land leases are digitized with precision.

POIs and 360° Panoramic Media

Grave Locations and Drawing Geometry

Blocks, Parcels and Cadastral Boundaries

Base Map



Direct DGN / DWG / SHP
Conversion to Web

Pillar 2: Administrative and Financial Core

Financial and administrative infrastructure designed for accuracy. SSO2025 integration secures access; DMS integration enables paperless operations.

Integrated Payments. Automatic pricing based on municipal decisions (TRY, USD, EUR), with a bank API payment gateway.

Central Identity (SSO). SSO2025 logs IP, user and session details with millisecond precision in an immutable audit trail.

Digital Archive (DMS). Manage death certificates, allocation records and permits as PDF / JPG files through DMS integration.



End-to-End Automated Burial Workflow

1. Identity Verification. Retrieve death and address information using the Turkish ID number.



2. Smart Allocation. Select a vacant or reserved grave on the GIS map.



3. Logistics Order. Assign a driver and vehicle based on the selected mosque and cemetery.



4. Stock and Burial. Deduct shrouds and coffins from stock; record the exact burial time.



5. Automatic Communication. Send relatives service confirmations and SMS updates.



Pillar 3: A Transparent, Seamless Citizen Experience

Compassionate interfaces provide instant access from any device, without bureaucracy at difficult times.



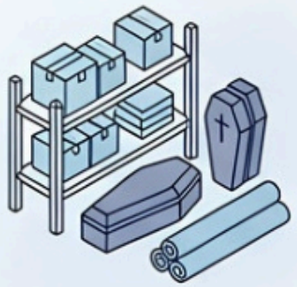


Live Tracking. Locate the funeral vehicle in real time on the map.

Multiple Search Options. Find graves and shortest routes by Turkish ID, name and birth / death year; navigate to the grave.

Digital Memory. Scan a QR code to access biographical information and memorials directly.

Pillar 4: Operations, Logistics and Landscaping



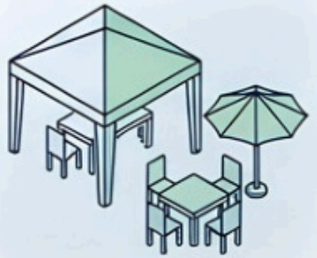
Dynamic Stock Management. Track shrouds, timber, cement and other supplies, with low-stock alerts and automatic deductions during tasks.



Vehicle and Fleet Management. Driver availability, intercity transport coffin inventory and automatically generated PDF assignment forms.

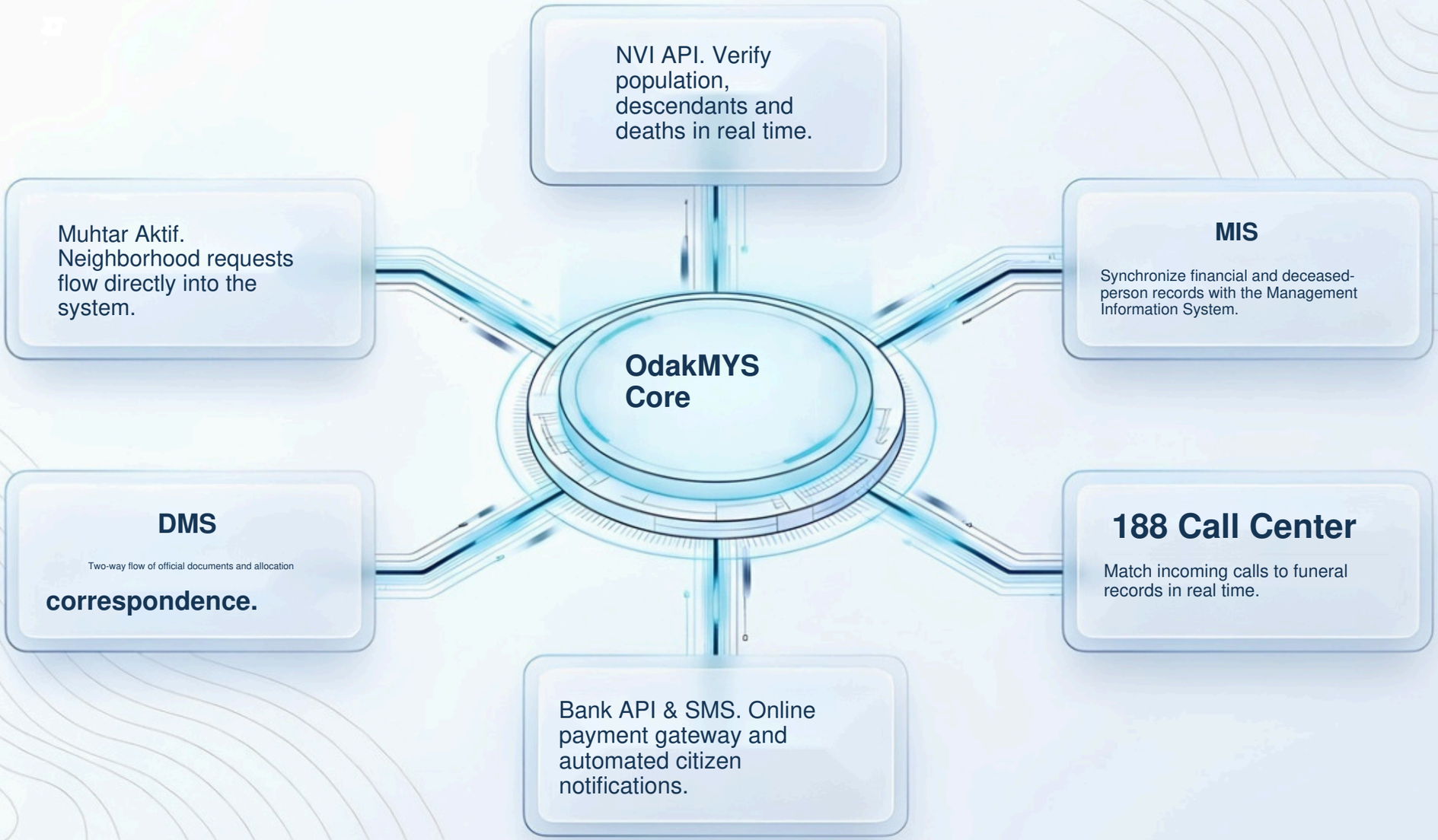


Landscaping and Maintenance. Cemetery tree / plant inventory and seasonal maintenance routes, including spring and autumn mowing.



Condolence Management. Allocate tables, chairs and shade structures; schedule service logistics after citizen approval.

Full Inter-Agency Integration



Advanced Analytics for Strategic Decisions

Capacity Heat Maps. Spatial analysis of cemetery area and parcel occupancy.



Financial Summary. Cashier and online payment records, end-of-day totals and construction permit statistics.

Demographic Charts. Visual reporting of age groups, grave types and annual death / transfer trends.

Audit Logs. Permanent system and integration logs with transaction date, IP and user details.

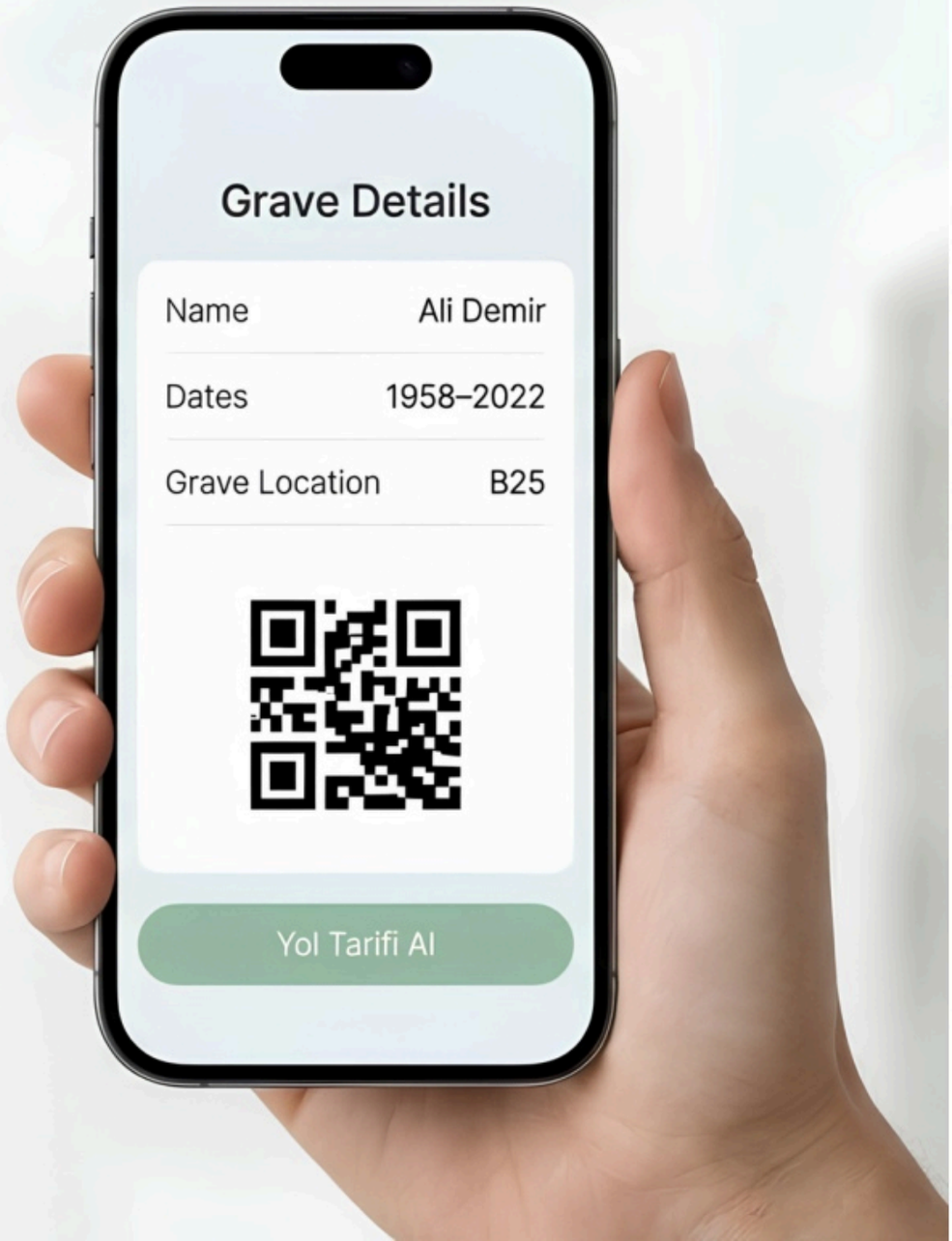
A Modern, Accessible Citizen Portal

Smart Search: Instantly locate the deceased and their grave by ID, name or date of death.

Shortest Route: Combine Google Maps with cemetery vector data for navigation all the way to the grave.

Smart QR Gravestones: Instantly access biographies, photographs and locations by scanning a code.

Notable People: Highlight historic figures from art, science and politics on the map.



Data-Driven Management and Statistics

Live Capacity Monitoring: Cemetery occupancy rates and vacant parcel analysis.

Demographic Reports: Monthly / annual death statistics, burial types and age distributions.

Operating Costs: Supply consumption, logistics utilization and maintenance / repair costs.

Dynamic Output: Instant Excel / PDF reports using multiple user-defined filters.



Strategic Benefits for Municipalities

01



Operating Cost Optimization. Data-driven management avoids resource, vehicle and stock waste and eliminates duplicate work.

02



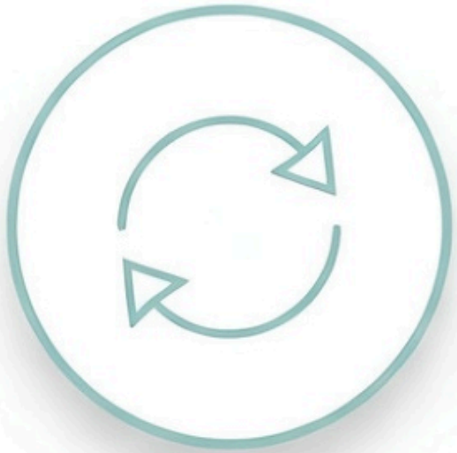
Complete Data Integrity. Property attributes and geographic data are inseparably linked in a centralized PostgreSQL database.

03



Greater Citizen Satisfaction. Transparent, respectful, digital municipal services without bureaucracy at the most difficult moments.

Sustainable Security and Maintenance



Continuous Improvement

Six months of continuous software improvement and maintenance in line with specifications and institutional requests.



Advanced Security

Encrypted configurations and connection strings, real-time session auditing and protection against authorization breaches.



Full Institutional Ownership

All source code and generated spatial / attribute data are hosted entirely in the municipality's own data center.

Respect for the Past, Vision for the Future.

The new standard in digital cemetery management.



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