ODAKGIS | Natural Gas Infrastructure Management Solution

Inspiring The Community

OdakMapGaz

A web and mobile solution for managing natural gas network data on a central GIS

network data on a centralized GIS, accessible on web and mobile.

solution.

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What Is OdakMapGaz?

OdakMapGaz is a centralized web and mobile GIS system that digitizes the operational, technical and administrative processes of natural gas distribution companies.

It integrates internal and external users and offers map-based

advanced GIS capabilities including map-based management, layer and asset queries, thematic mapping, network analysis and reporting.

GIS capabilities.

Integration with systems such as TAKBIS, MAKS and MERNIS increases data accuracy. Field and office teams can work in sync on the same platform.

Explore your data and manage processes with Geographic Information Systems.



OdakMapGaz

Applications and References

• With its GIS infrastructure, OdakMapGaz meets the data management, monitoring and analysis needs of institutions

provides data management, monitoring and analysis solutions for institutions and organizations

for their requirements.

• Wide adoption and strong integration capabilities

its wide adoption and strong integration capabilities make it a foundation for many

projects nationwide.

• Natural Gas Distribution Companies and

Electricity / Energy Distribution

• Zorlu Energy

• Municipalities and Affiliated Companies

• Industrial Facility Infrastructure

• Engineering & Maintenance Services



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Key Benefits

- Record field data immediately through the map-based platform.
- Enable integrated data sharing between internal and external users.
- Provide a customizable, secure GIS solution built with open-source technologies.

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Key Outcomes

• GIS infrastructure enables quick and easy map-based access to all network

assets can be accessed quickly and easily from the map.

- Access every network asset quickly and easily through the GIS map.
- Make data-driven strategic decisions using time-based reports, tracking and visualization.
- Integrate with TAKBIS, MAKS and MERNIS to improve data accuracy and process integrity.
- Secure data and support operational audits with role-based access control.
- Work seamlessly outside the office through mobile and web access.

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OdakMapGaz Modules

Geographic Information System

Network Management

Request & Process Tracking

User & System Management

- Layer Management Tools
- Search Tools Module
- Thematic Mapping Tools
- Spatial and Network Analysis Tools
- Reporting Tools
- Department Customizations - Request Creation Tools
- General Overview - Dynamic Dashboard
- Integration Module
- Map Component - Basic and Advanced Functions
- Application Component - Management Dashboard
- Mobile Application Component

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USERS



Public Institutions and Agencies

Natural Gas Distribution Companies

Energy Companies Technical and Operational

Teams

Management Teams and Decision Support Departments

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BENEFITS

- Integrated GIS infrastructure centralizes all natural gas network spatial data and makes it readily accessible.
- View and manage network connections, valves, pipelines, service boxes and other assets on the map.
- GIS analysis tracks relationships between regions, sectors and assets, calculating connectivity chains and service areas.
- Thematic maps group subscribers without service boxes, pipelines without gas and users without contracts.
- Export linepack, connection, service box and contract status reports as PDF or Excel.
- User- and role-based permissions limit each department to its authorized data.
- Web and mobile access lets field and office teams work on the same database.
- Customizable open-source GIS infrastructure provides a sustainable, cost-effective solution.
- TAKBIS, MAKS, MERNIS and VEDOP integration maintains current, consistent data.



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SYSTEM FEATURES

Flexible architecture supporting new technologies

Open-source architecture

Web-based and compliant with relevant international standards

Mobile capabilities

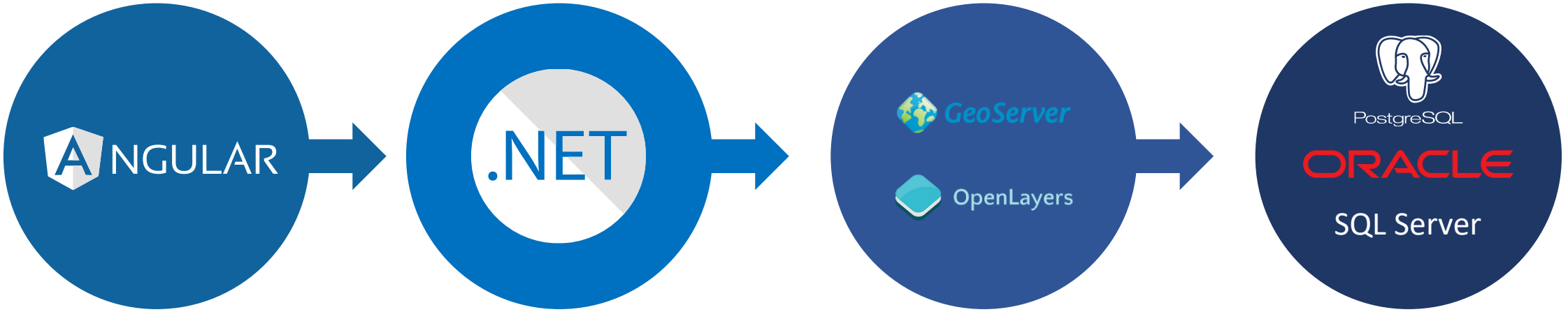


Integrates with e-government systems (TAKBIS, MERNIS, VEDOP)

Fast data queries, map rendering and efficient resource use

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TECHNOLOGIES



FRONT END

TECHNOLOGIES

BACK END

TECHNOLOGIES

MAPPING

TECHNOLOGIES

DATABASE
TECHNOLOGIES

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MAPPING CAPABILITIES

Spatial Data Editing

Map-based drawing tools support the following operations on geographic features:

- Clip
- Subtract area
- Close polygon
- Merge
- Move
- Edit vertices
- Add by coordinates, drawing or file upload
- Update attributes
- Delete
- Clear screen
- Save to database

Data Conversion

Read and write vector data in DGN, DWG, DXF, GML, KML, KMZ, NCZ, TAB and SHP formats. Convert data online and zoom to the geographic location of uploaded reference data.



Layer Management

- Add layers from WMS/WMTS and TMS services
- Create layer groups
- Filter layers and apply CQL filters
- Define custom styles
- Select attributes for information pop-ups
- Search layers
- List active layers
- Show/hide layers
- Display legends
- Set display scale

Map Output

- Save output templates
- Add scale bar
- Add images
- Add legend
- Add north arrow
- Add map title
- Print
- Export screenshots (JPEG, PNG)

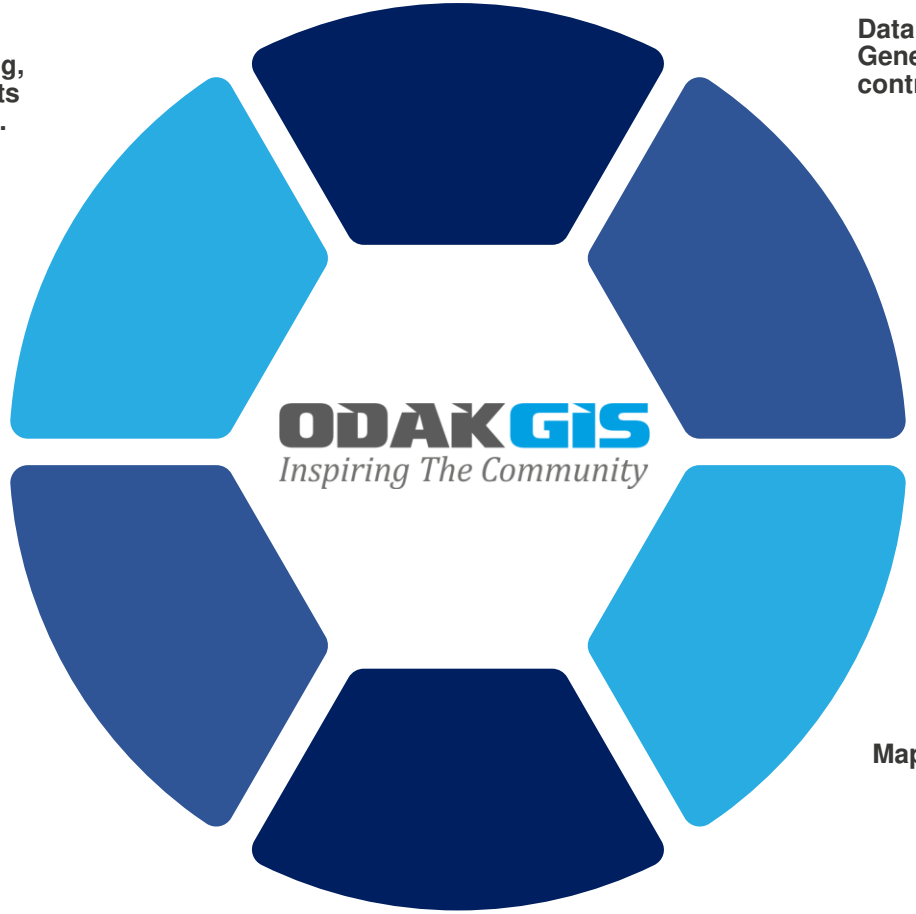
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CORE FEATURES

Layer Search / Spatial Query
Search parametrically by asset type (building, subscriber, valve, RMSA, etc.). Locate results on the map and access detailed information.

Display / Select on Map
Group selected assets thematically, such as subscribers without service boxes. View details of selected features in information cards.

Data Upload / Add SHP
Upload local SHP files, display them on the map and link them to existing layers.



Data Download / Reporting
Generate dynamic reports by layer, such as gas contracts, valves and connection

components). Export reports as PDF or Excel formats.

Attribute-Based Filtering
Search layer features using detailed

filtering, enabling data analysis against the desired criteria.

Map-Based Information Cards

Display the selected asset's information card, navigate to its location,

add media and files.

possible.

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SYSTEM OVERVIEW

1. Layer Management

Define, group and authorize layers; set visibility,

and styling.

Integrate external layers through WMS, WMTS and WFS

services.

2. Query

Buildings, valves, subscribers, streets,

customer stations and similar assets can be queried by attribute.

Access a feature directly using its GIS Asset ID.

3. Drawing

Draw points, lines, polygons and

text on the map. Name and save or export drawn features.

4. Measurement

Measure distances, areas and angles on the map.

Provides infrastructure for location-based analysis.

5. Upload / Download Data

Upload sample layer data and export to Excel, PDF, SHP or KML.

Attach media and documents to layers for data visualization and analysis.

6. Information Card

Display detailed information for the selected feature.

Display asset locations on the map and attach media or explanatory documents.

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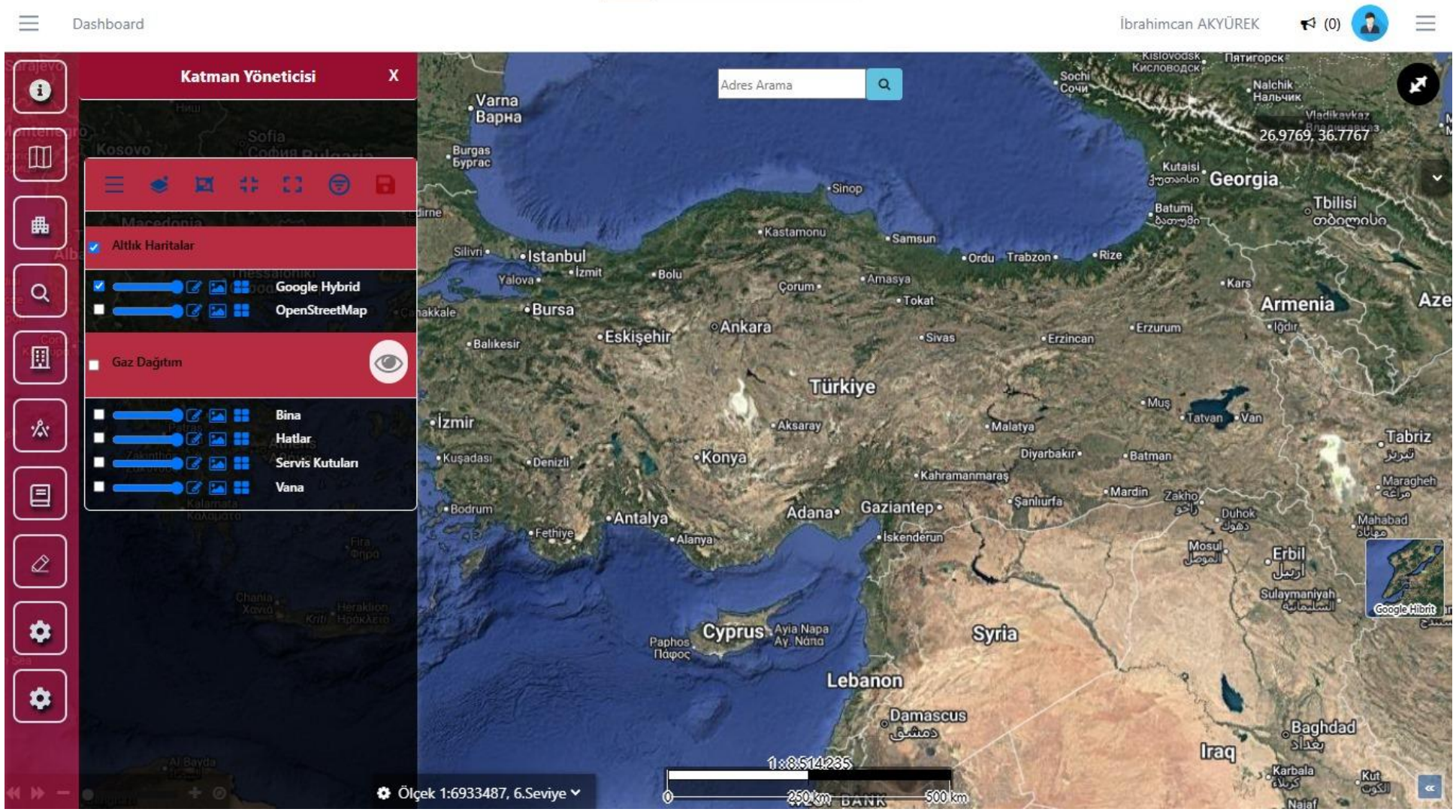
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SCREENSHOTS

EXAMPLES

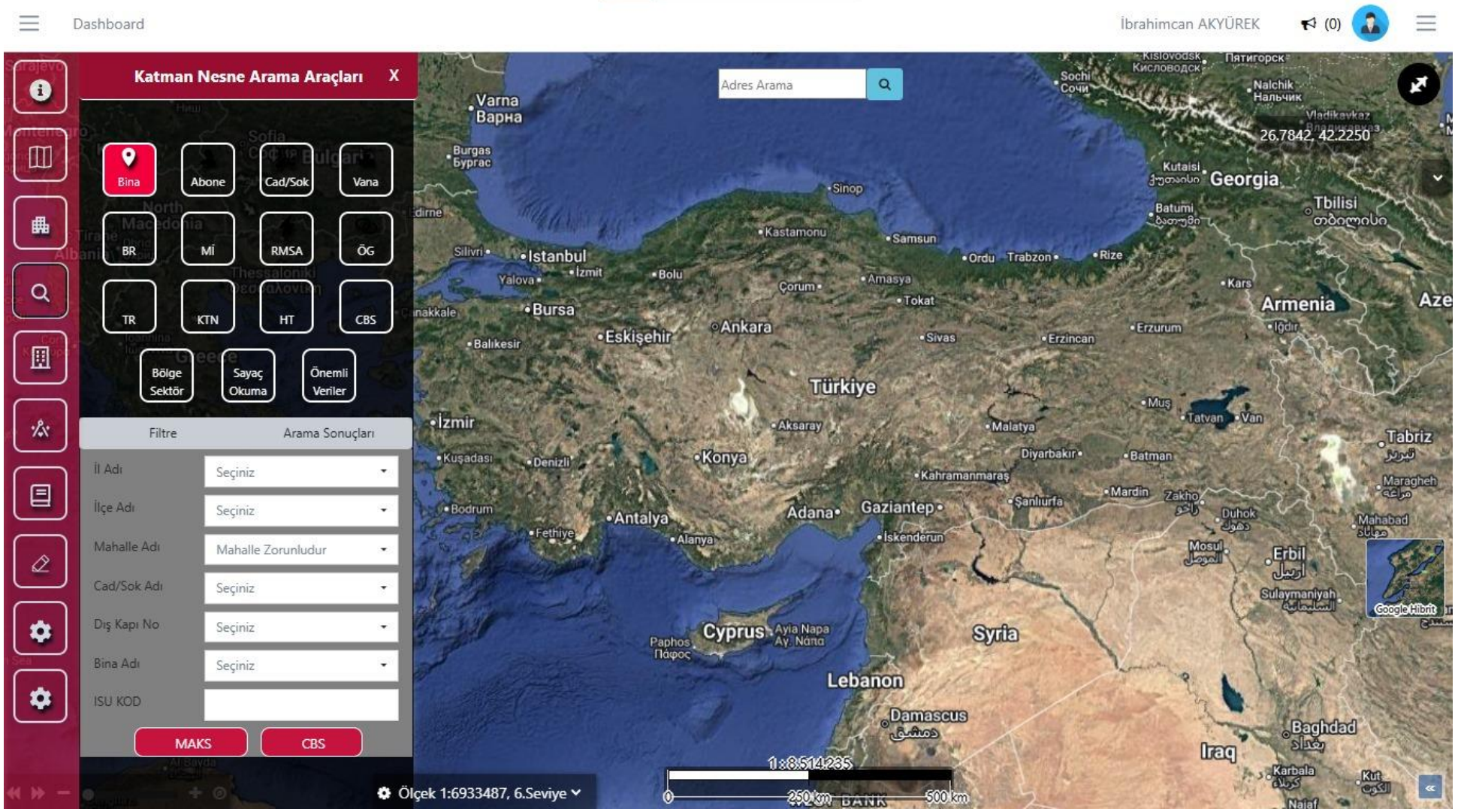
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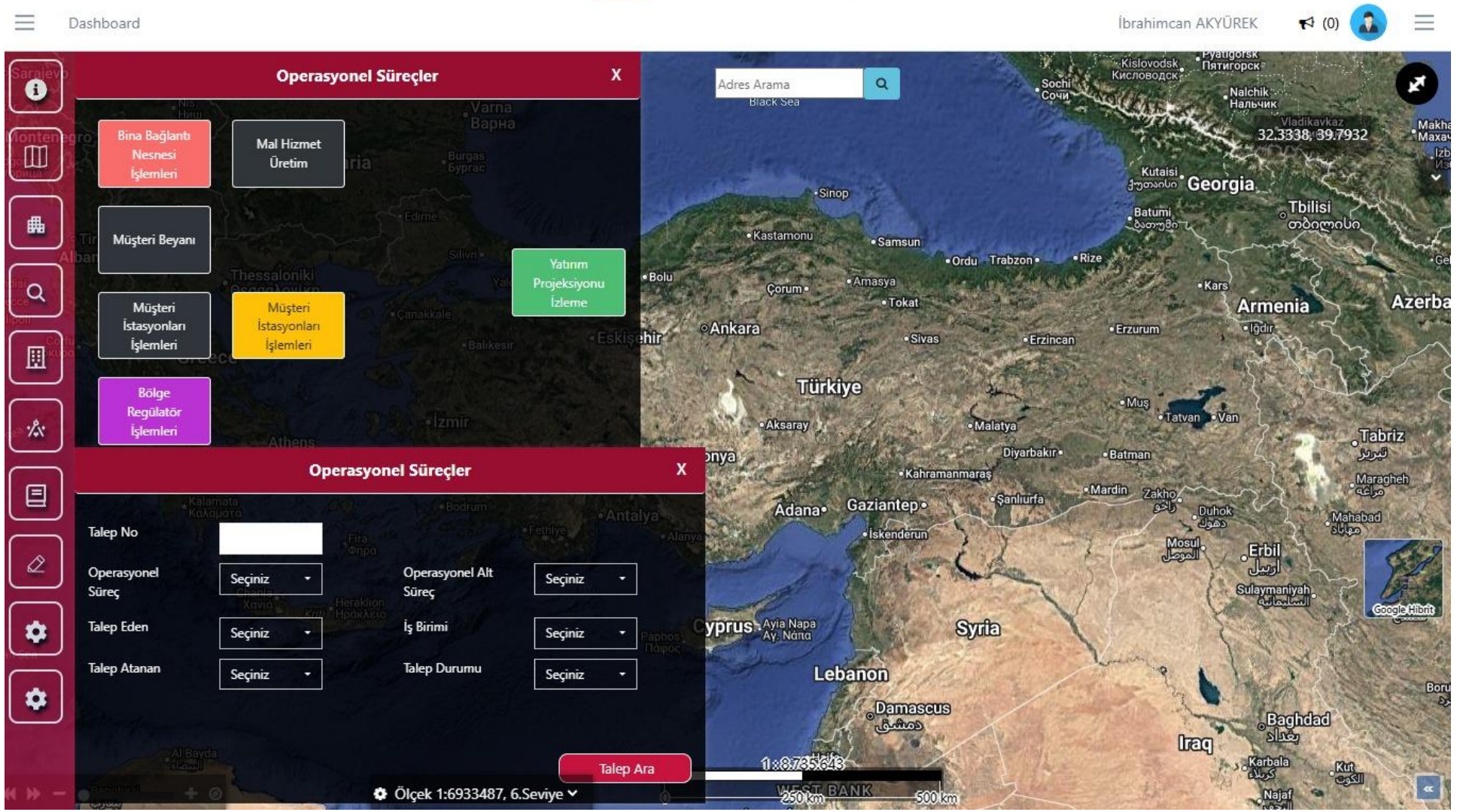
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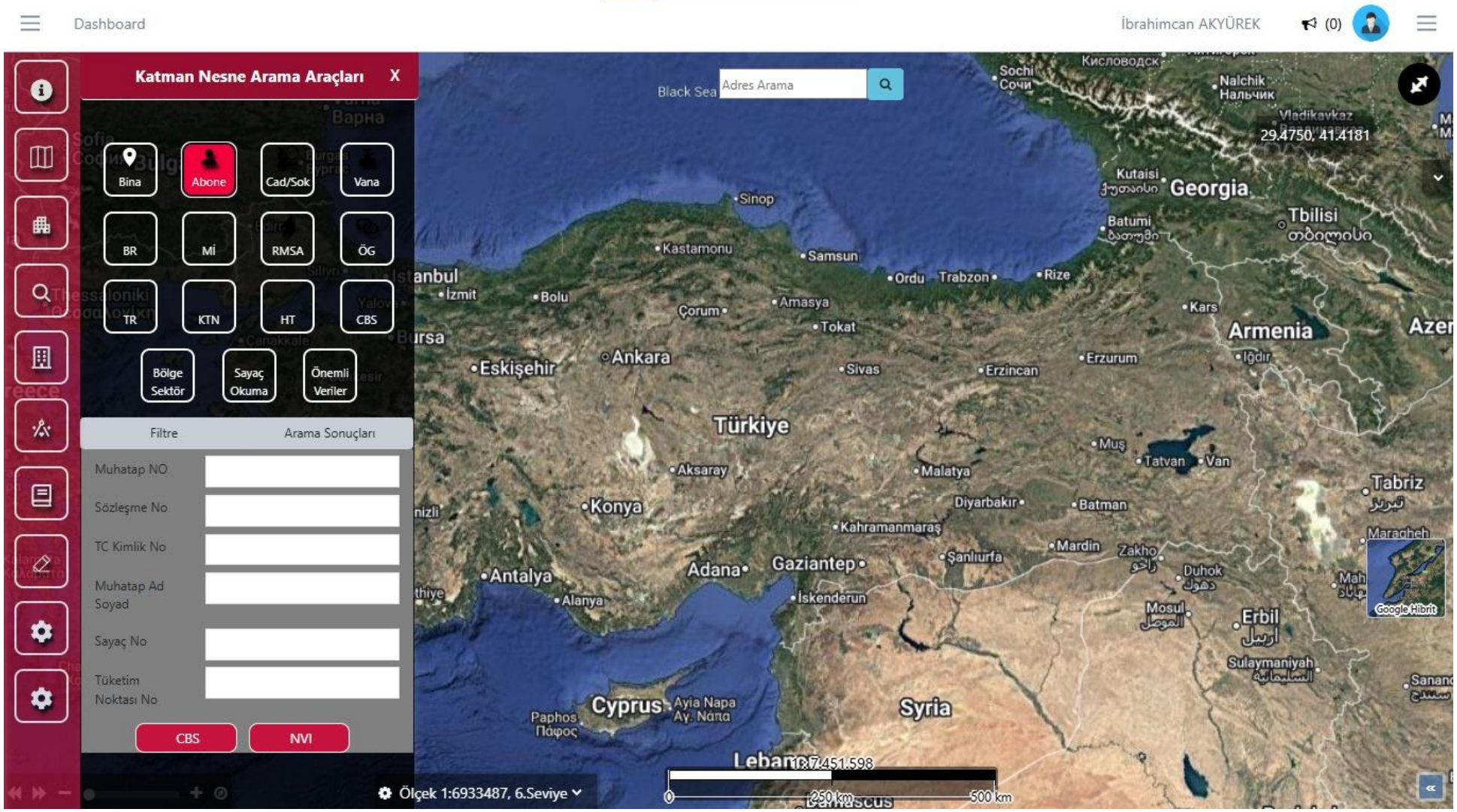
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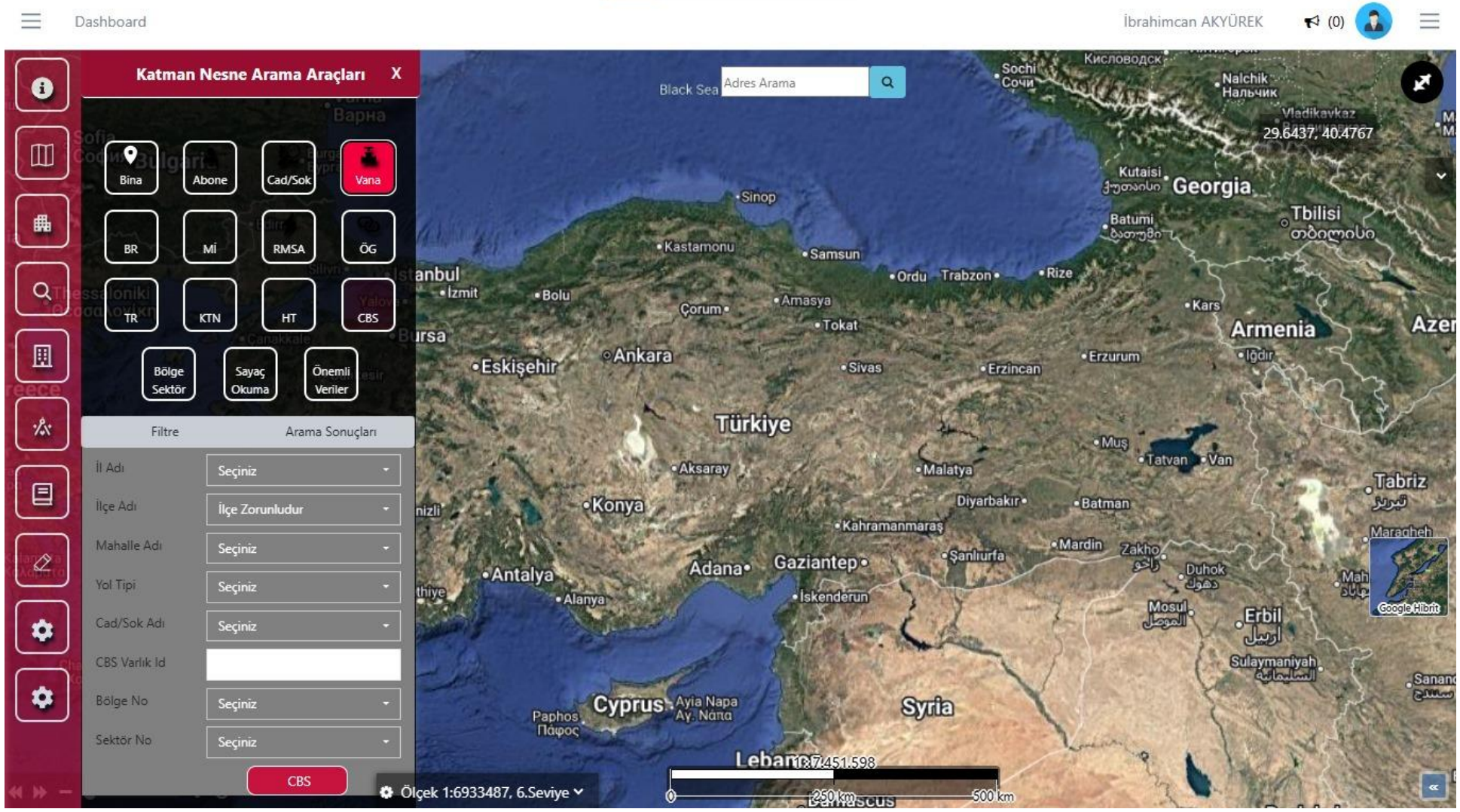
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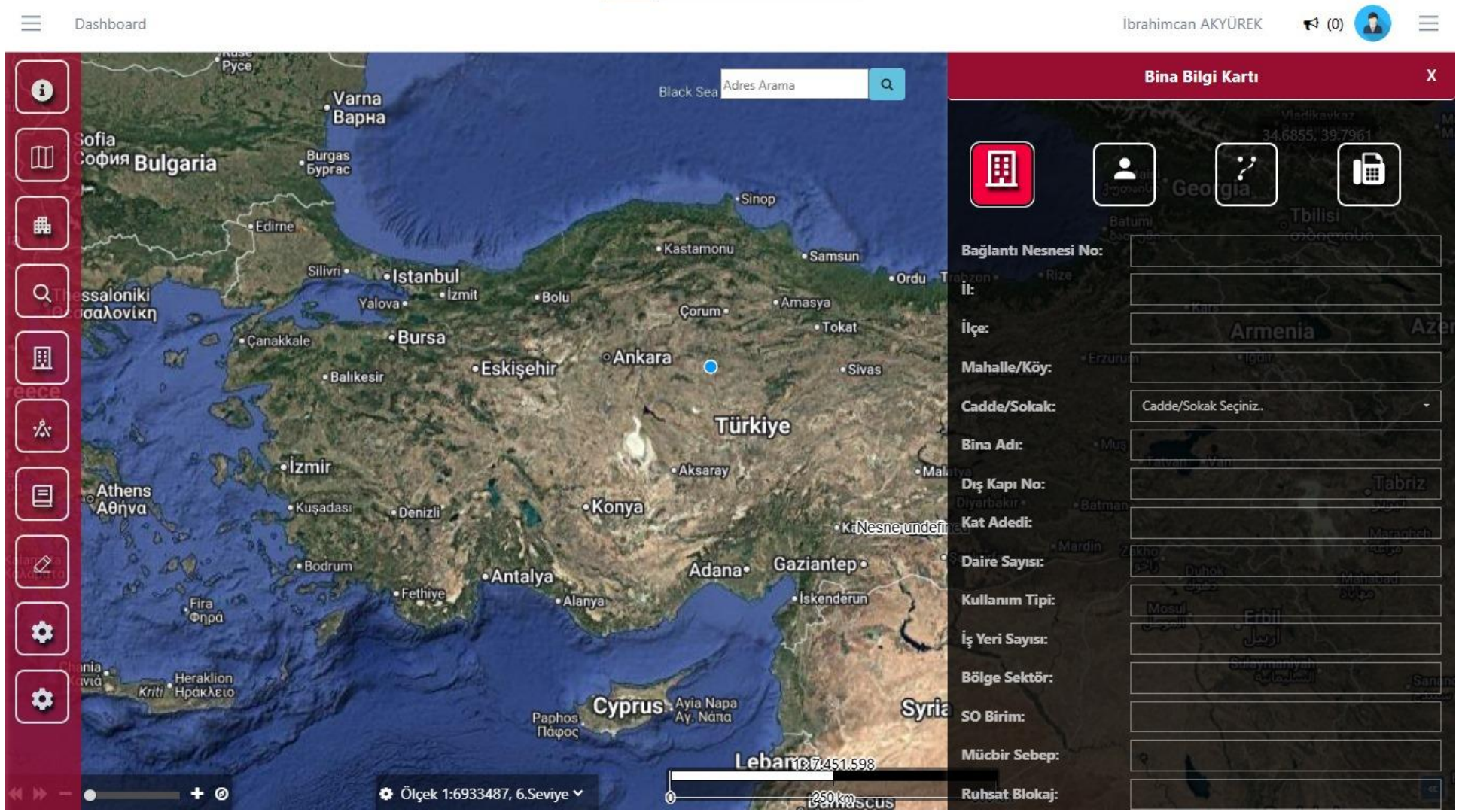
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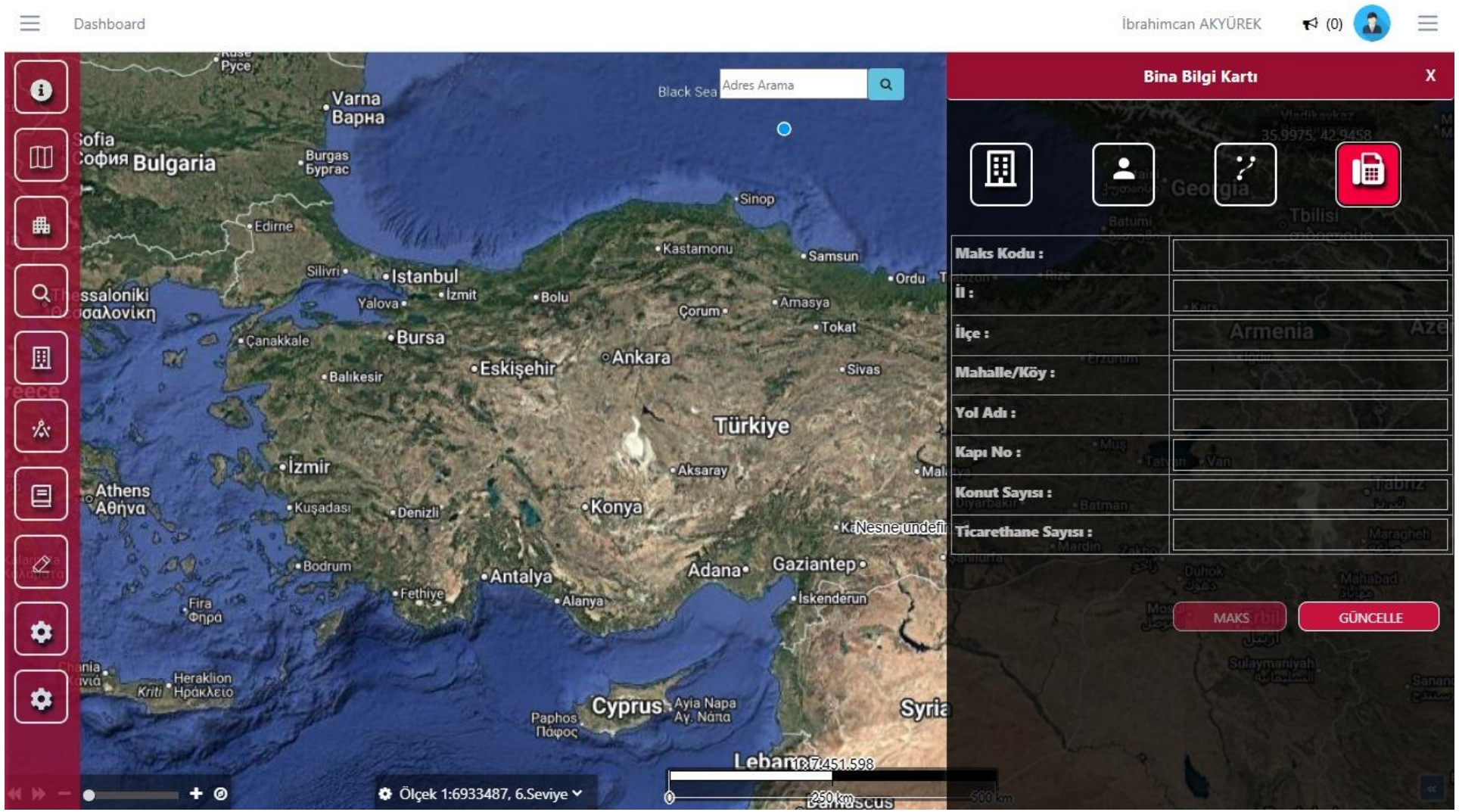
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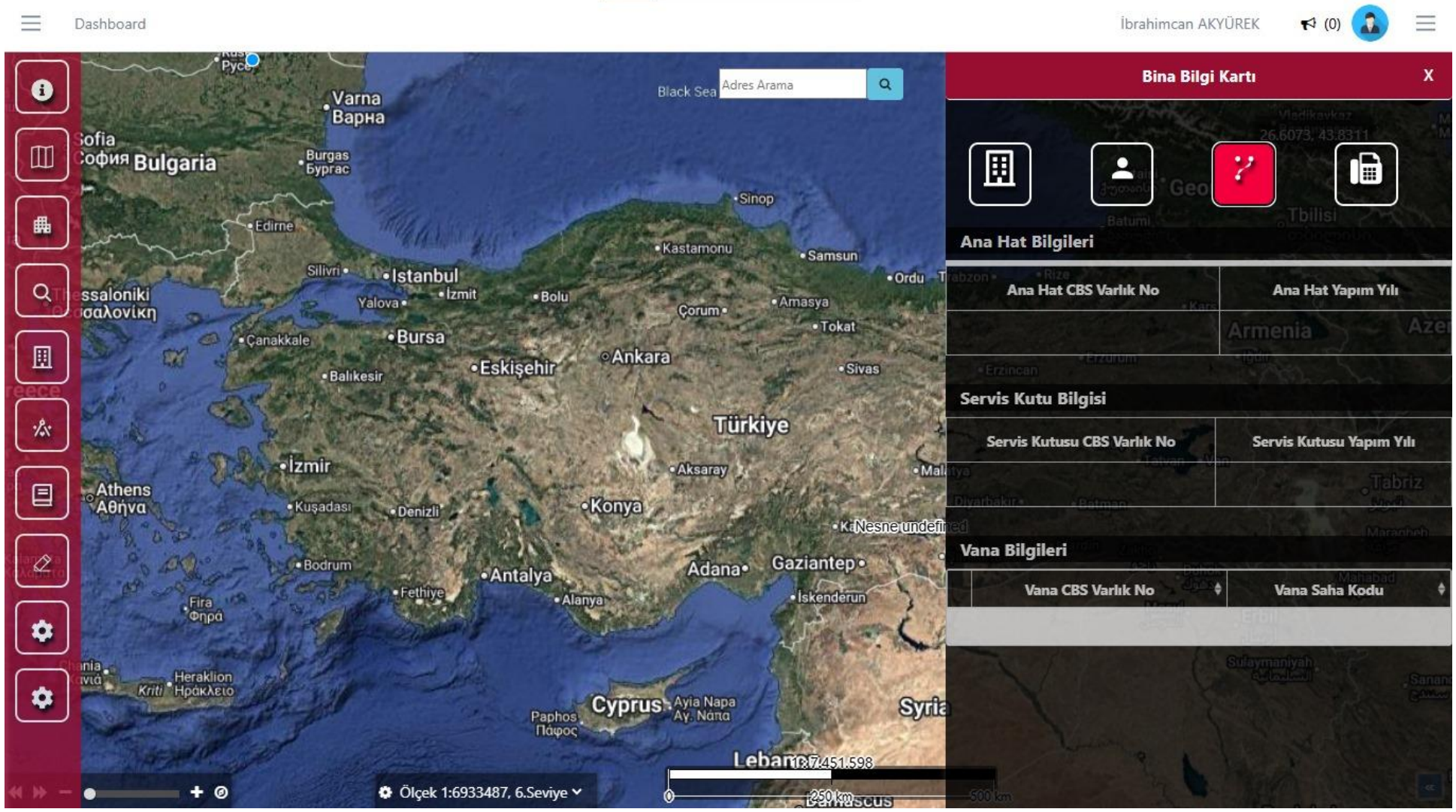
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