

*Project Management and Monitoring Automation  
for  
Land Consolidation Projects*

# Land Consolidation Web Portal

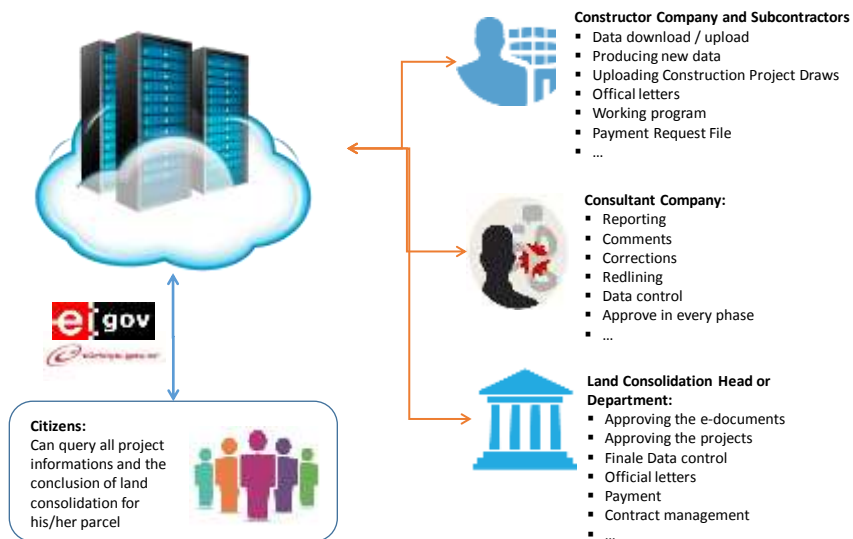


ODAKGIS

October 2015

## What is TVK?

TVK is a web portal that all land consolidation process have been managed and monitored over a central database with the contents of geographical and textual data.



## Scope of TVK

- Contract Management
- Project Management and Monitoring
- Schedule Planning and Monitoring
- Operation Management and Monitoring
- Data Management (Textual and Geographical)
- Estimated Cost Calculation for a LCP by using unit price pool
- Progress Payment Management and Monitoring
- Final Account Calculation
- Interim and Final Acceptance Procedures
- Official Letters
- Official Reports
- Project Statistics
- Mapping
- Geographical Data Marking, Correction, Comparison
- Redlining

## Project Consolidation



- Textual-Geographical Data
- Practice Project Data
- Application Project Data
- Progress Payment Data
- Official Letter Data
- Official Report Data
- User Data
- History
- Unit prices
- etc.

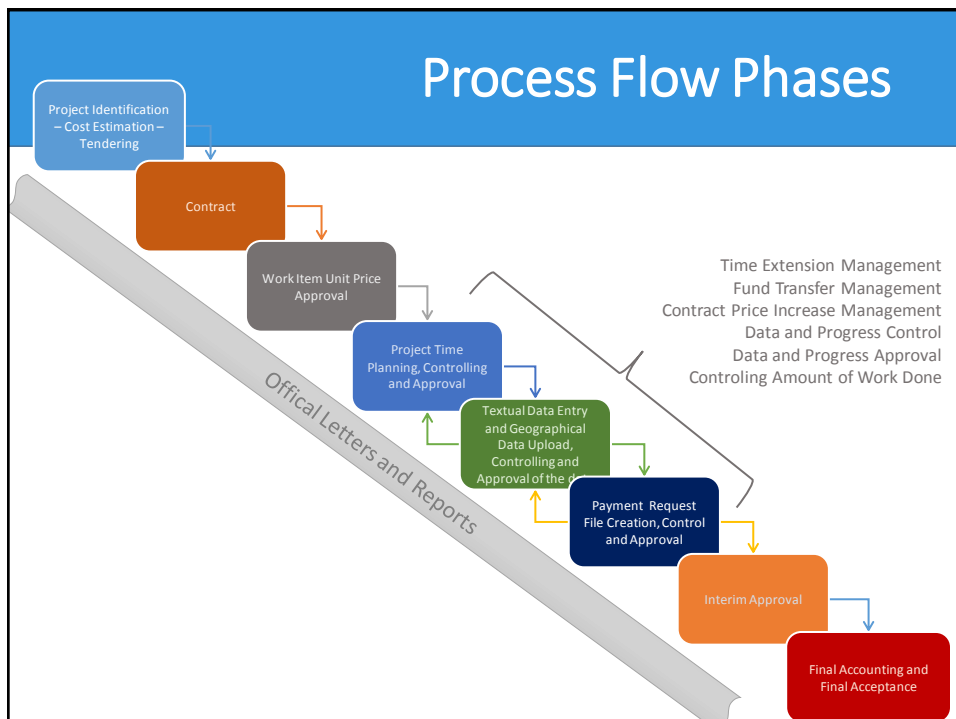


Land  
Consolidation  
Web Portal

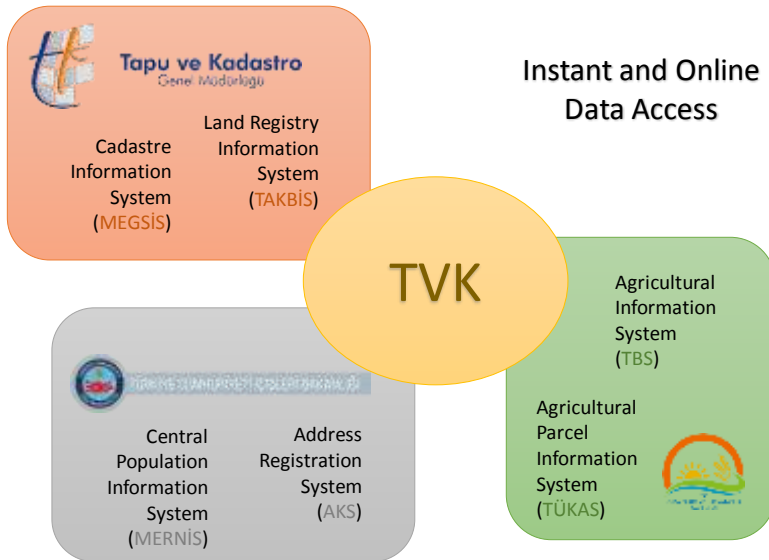
TVK

# Benefits of the Portal

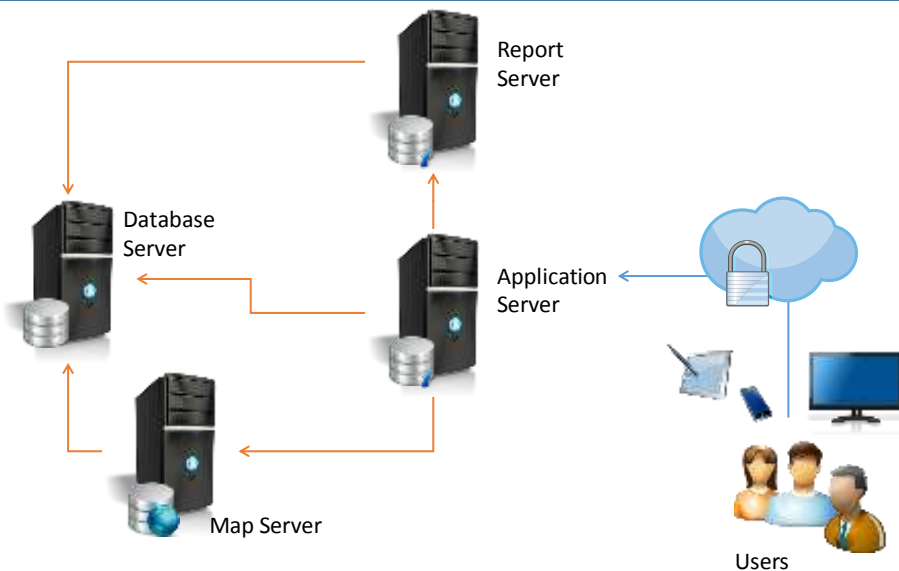
- All Project data and information are managed centrally
- 5 in 1 (Planning, Management, Monitoring, Evaluation, Auditing)
- Standardization on the data generated by the contractors
- Instant Statistics for individual LC projects and LC program
- Instant project progress and performance monitoring
- Instant payment and budget monitoring
- Control mechanism for payment according to project progress
- Online and instant data available for supporting process improvement decisions
- Archiving (Geographical and Textual Data, Reports, Official Letters and Reports of projects)



# Integrated Systems



# System Topology



# Standards

- OGC
- GML (Geographical Markup Language)
- ISO 19115
- ISO 19139 INSPIRE Metaveri Standard
- WMS (Web Map Service)
- WFS (Web Feature Service)
- WMTS (Web Map Tile Service)
- Simple Features
- ISO-TC211

TVK is a web portal developed in open source.



**The Open International Standards mentioned above were implemented .**

# Project Execution



# Why TVK?



- Time lost while accessing on going and past data
- Calculation and planning errors (human factor)
- Difficulties in benefiting from corporate memory
- Losses and deterioration in the documents
- Failure to establish the internal standard
- Difficulties in reaching the instant statistical data about the executed projects



- Increasing access of data easily
- Instant project realization monitoring
- The formation of the corporate memory on projects
- Live statistical information
- Follow-up of the project on the map
- Live project statistical information before and after
- Online statistics for high level management



# Base Features



## Ability on Map



Layer Management



Basic and Advance Map Functions



Info



MEGSİS-TAKBİS Integration



Online Land Registry Access and Download



Redlining / Editing

## Mobil Features

- User can monitor detailed and statistical informations about projects via Android/IOS based smart phones.
- All of the phases of progress payment activities can be tracked from entry to approval.
- Maps used in the base map (google maps, bing maps etc.) can be changed on request.
- Basic map functions are applicable anywhere where internet is via android/ios based smart phones. (length measure, area measure etc.)



## As a result ....

- Easy access to data from every where internet available
- Tracking the instant and live progress
- Quick access to data from the map
- Monitoring of projects on the map
- Graphical monitoring of the Project progress on the map
- Cross query and reporting
- Statistical information



## Close Look to Web Portal



General Directorate of Agricultural Reform  
Land Consolidation Web Portal

[tvk.tarim.gov.tr](http://tvk.tarim.gov.tr)





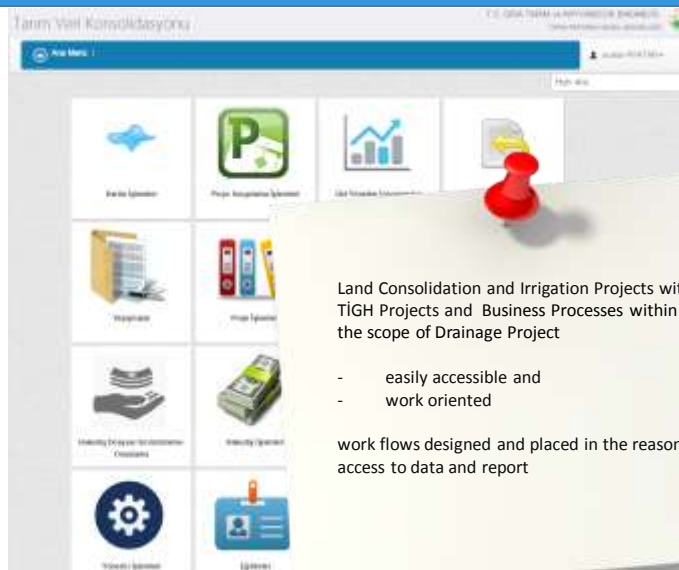
# TVK Statistics

August '15

Number of Project	Completed	587
	Continuing	273
Number of Villages (Continuing)		4004
Total Project Area (Continuing)		4,162,197 Ha
Number of Payment File Record		1192
Payment Calculations Done by TVK		478
Number of Project Under Control on TVK		248
Number of Official Letters Prepared for Contract Price Increase		38
Budget Transfer and Time Extension Official Letters		229
Active Geographical Object Count		9.457.420
Uploaded File Count		44.321

Total Users	593	Advisor User	76
Government User	320	Contractor User	197

## Web Portal Features



# Project Features

# Project Querying

Tanım Veri Konsolidasyonu				T.C. SİGA TABAN ve HAYVANCILIK BAKANLIĞI (Kırsal Kalkınma İşleri, 2020/4, 2021)																																																																																																																																																			
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# Progress Payment Calculation

# Project Management

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certificate of completion

Downloaded from <http://imr.sagepub.com> at 10/20/14

**1. Generalized Anxiety Disorder**

- For more information, please contact:**

View Chapter

11/19/2016

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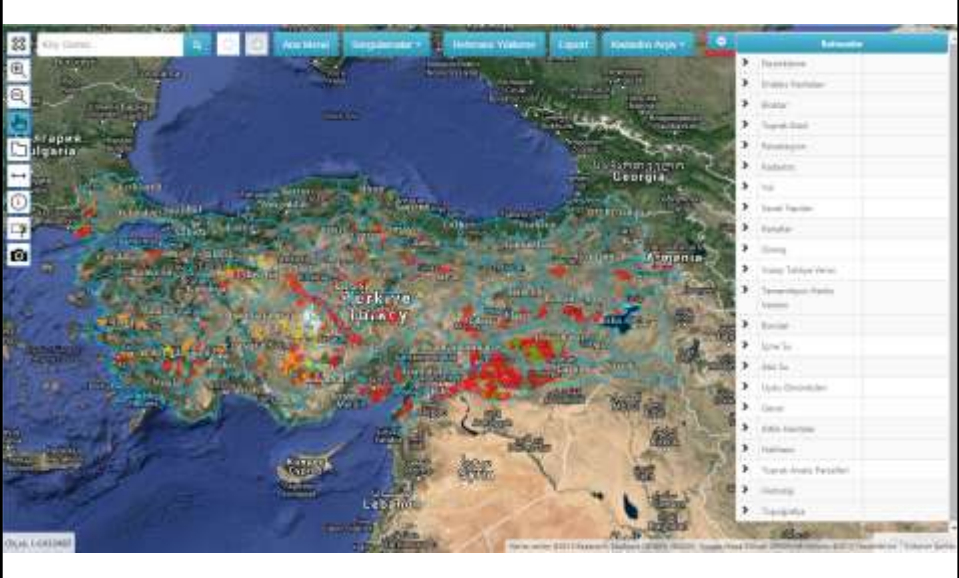
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**1. Content Available:**

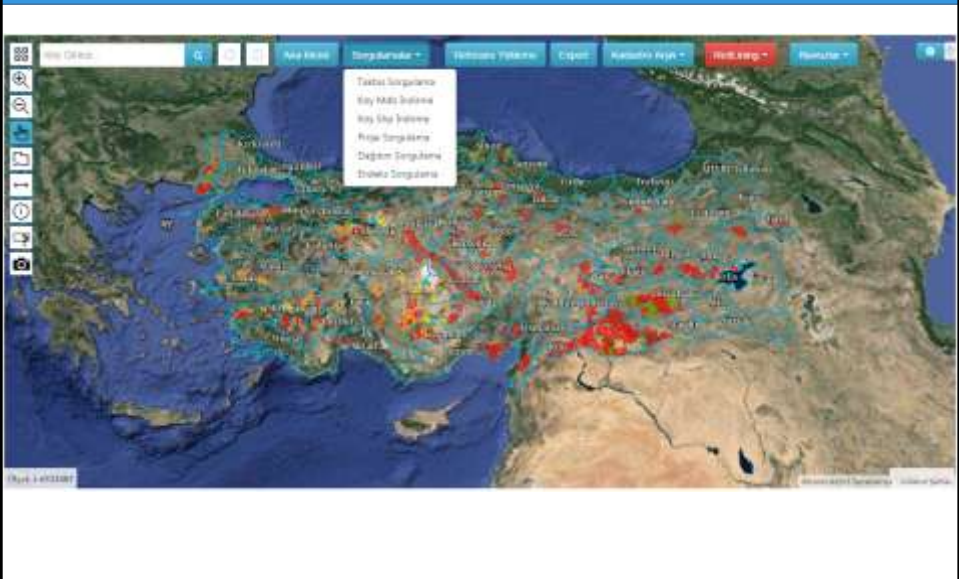
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2	0002	Avusturya Sivil 2. Kurulması Toplantısı ve TGA Projesi	2014	08.12.2014	Hüseyin Yılmaz



## Map Layers



## Geographic Querying

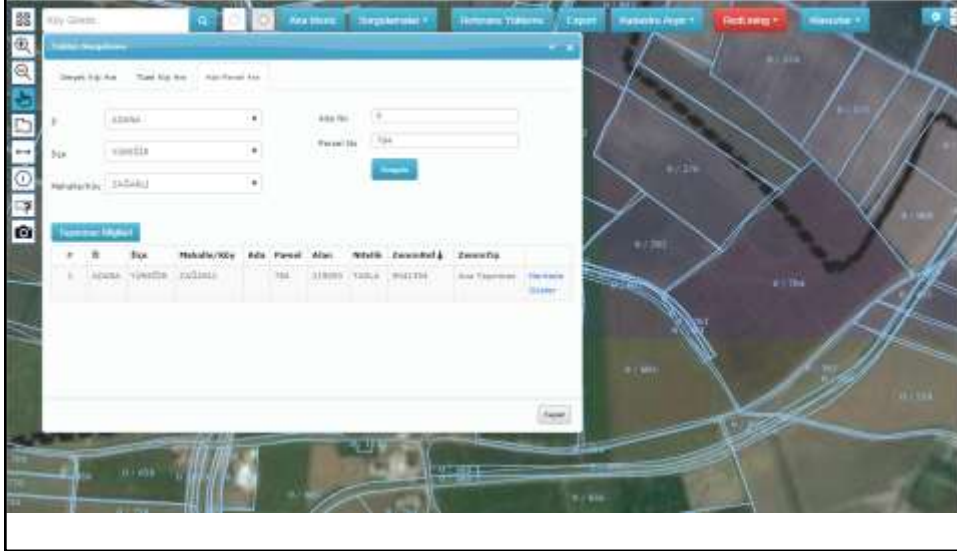


# Locationing

# MEGSis Querying



# TAKBİS Querying

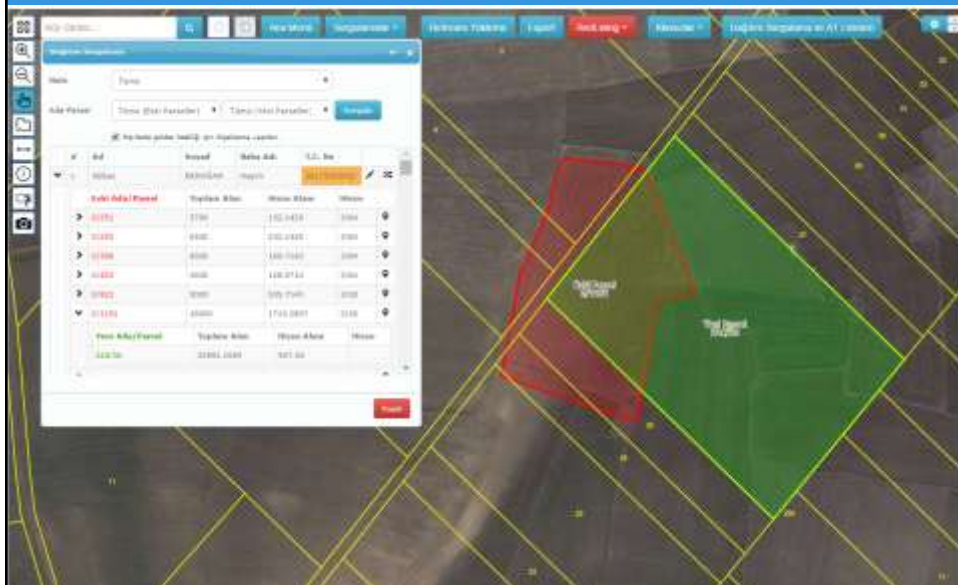


## Redlining

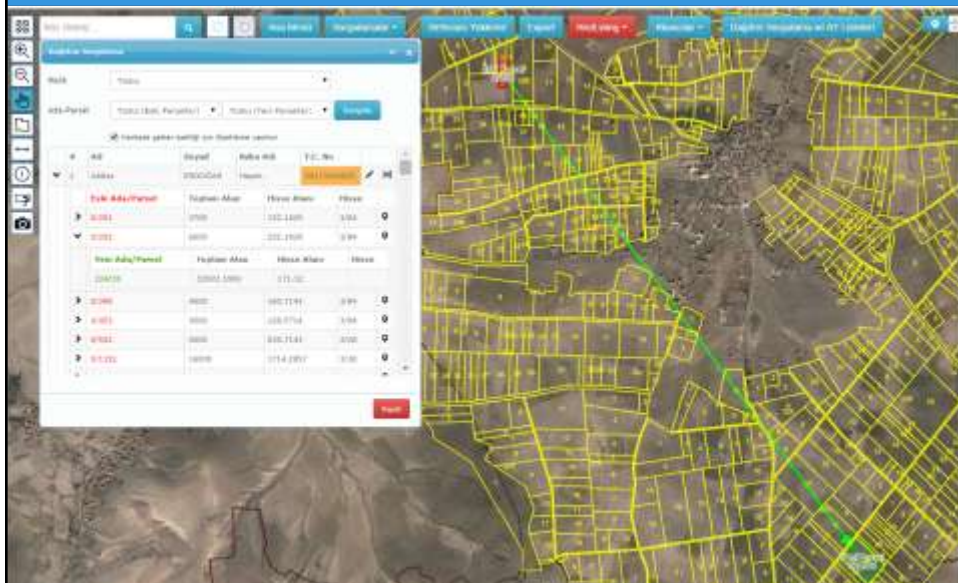
Recording comments, fault, missing data, and comments on marked areas, lines, and points



# Before and After Consolidation



# Before and After Consolidation

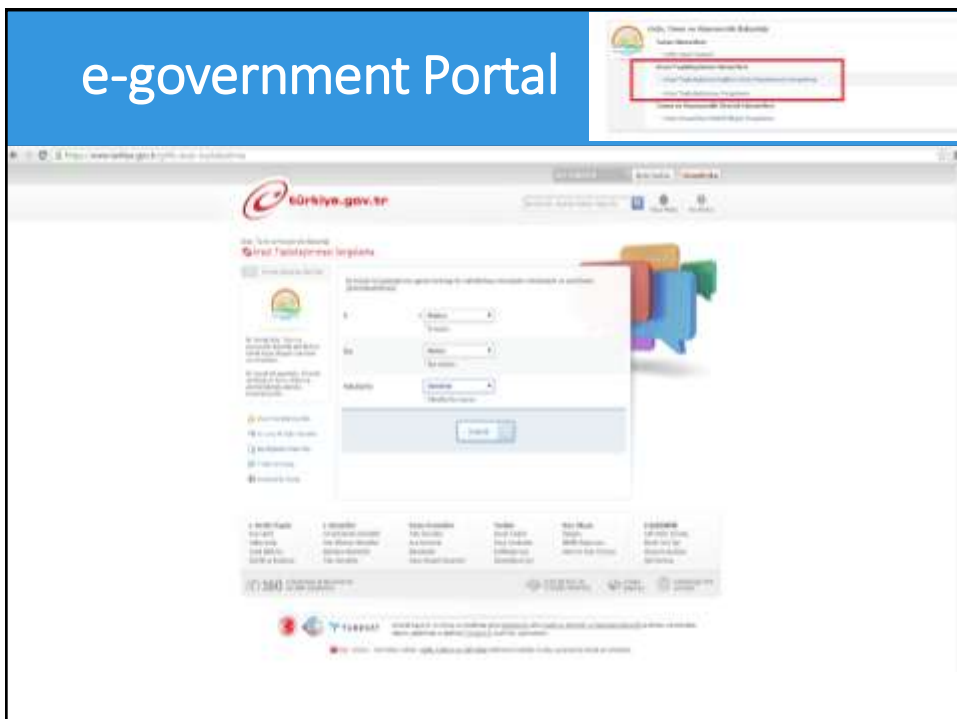


# Before and After Consolidation

## e-government



## e-government Portal



# e-government Portal

## Project Information

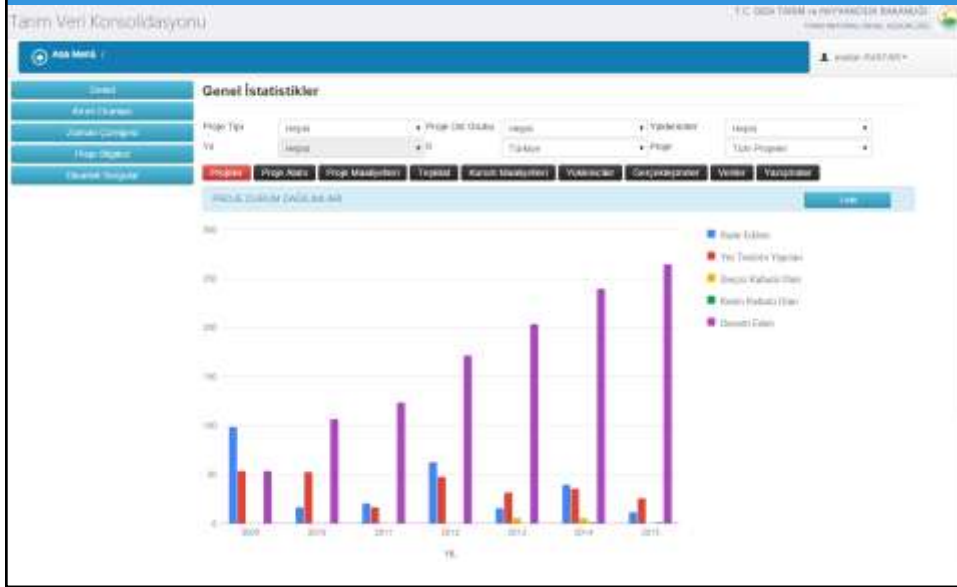


# e-government Portal

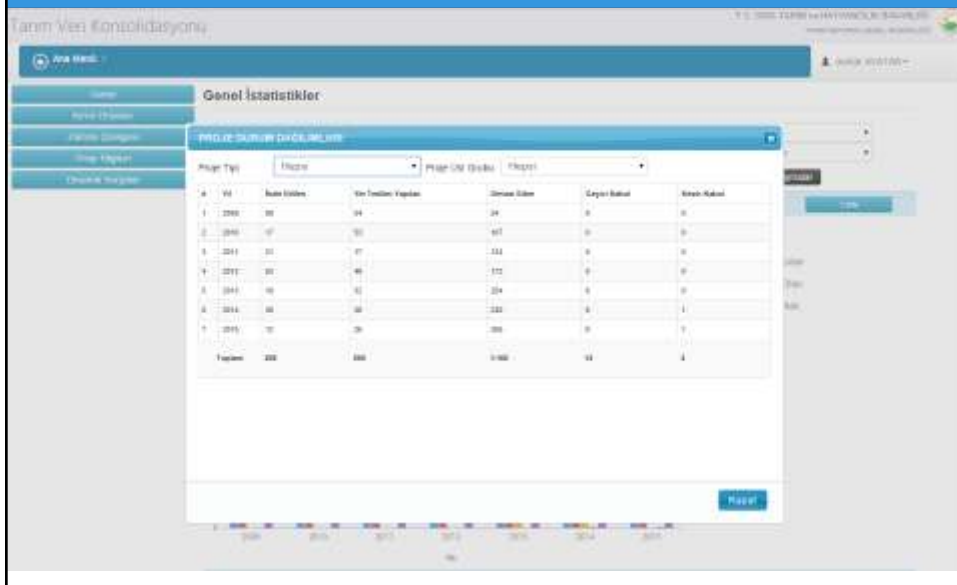
## Parcelation Information



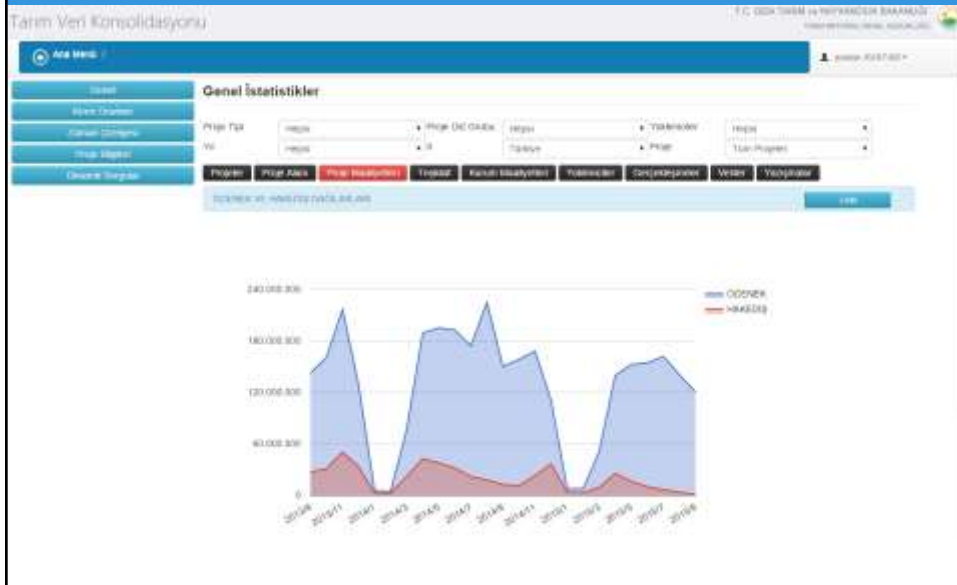
# Cockpit – Higher Managemet



# Cockpit – Higher Managemet



# Cockpit – Higher Managemet



# Cockpit – Higher Managemet

Taahhüt Veri Konsolidasyonu

YATIRIM MENKUL DEĞERLER A.Ş.

Yatırımcı: YATIRIM MENKUL DEĞERLER A.Ş.

Genel İstatistikler

Proje Tipi: HES Proje Üst Grubu: HES Yönetim: HES

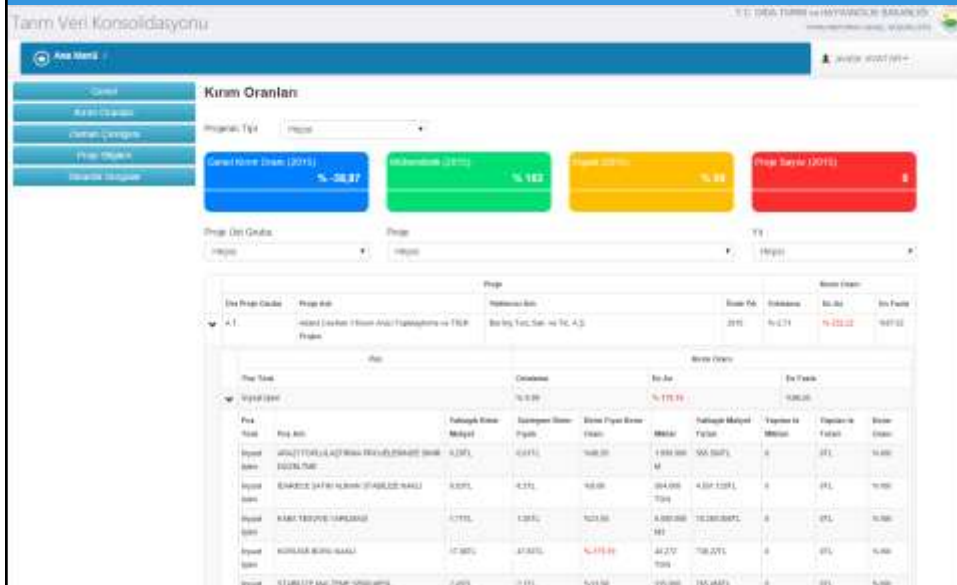
Yö: HES Tutar: Proje Tutarı Proje Başlatma Tutarı Kararlı Başlatma Tutarı Yönetim Tutarı Gecikme Tutarı Vade Tutarı

YATIRIM MENKUL DEĞERLER A.Ş.

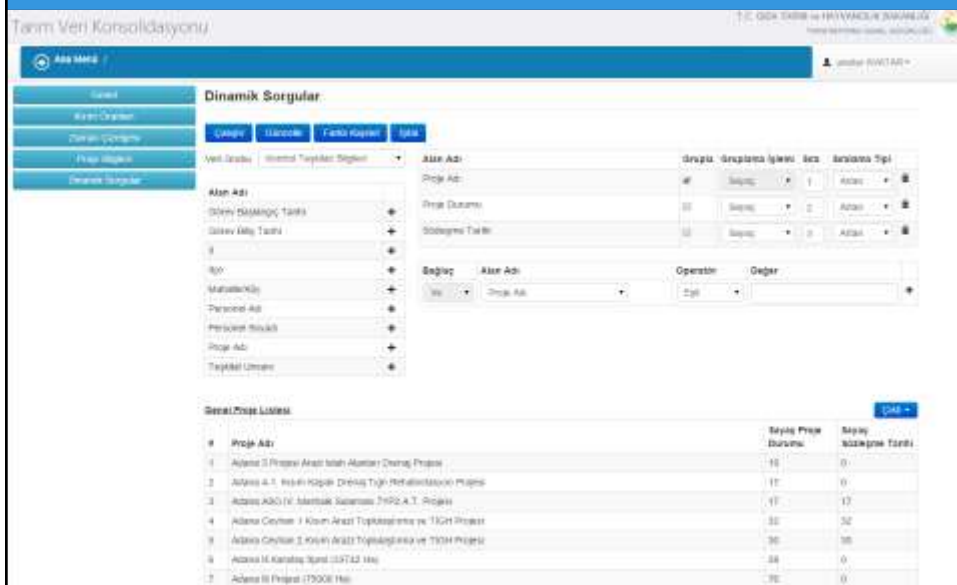
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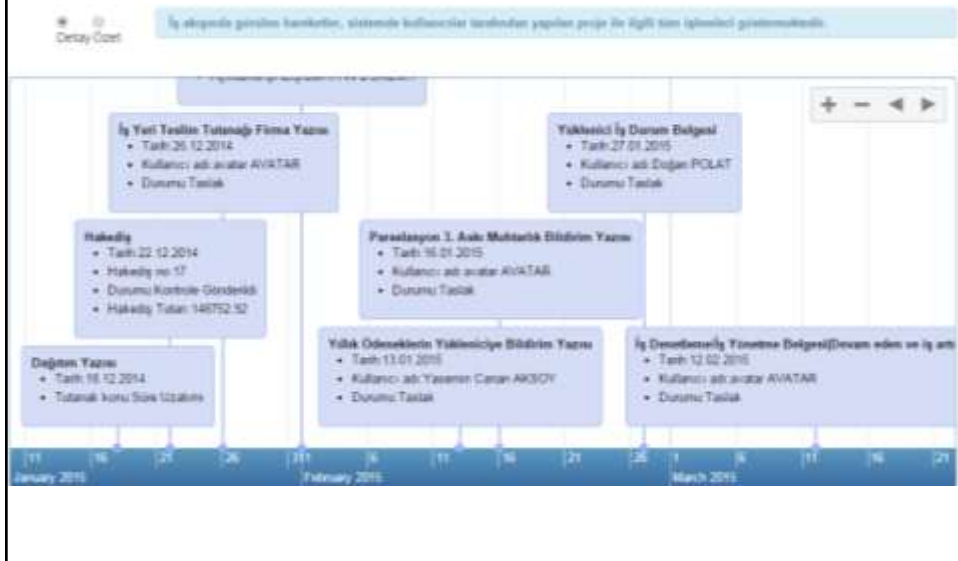
## Cockpit – Higher Management



# Cockpit – Higher Management



# Time Line



# Mobile





**Thank you for listening to us.**

**Questions?**

*Project Management and Monitoring Automation  
for  
Land Consolidation Projects*