

Republic Of Turkey Ministry of Food Agriculture and Livestock The General Directorate of Agrarian Reform







Contents





BULGARISTAN

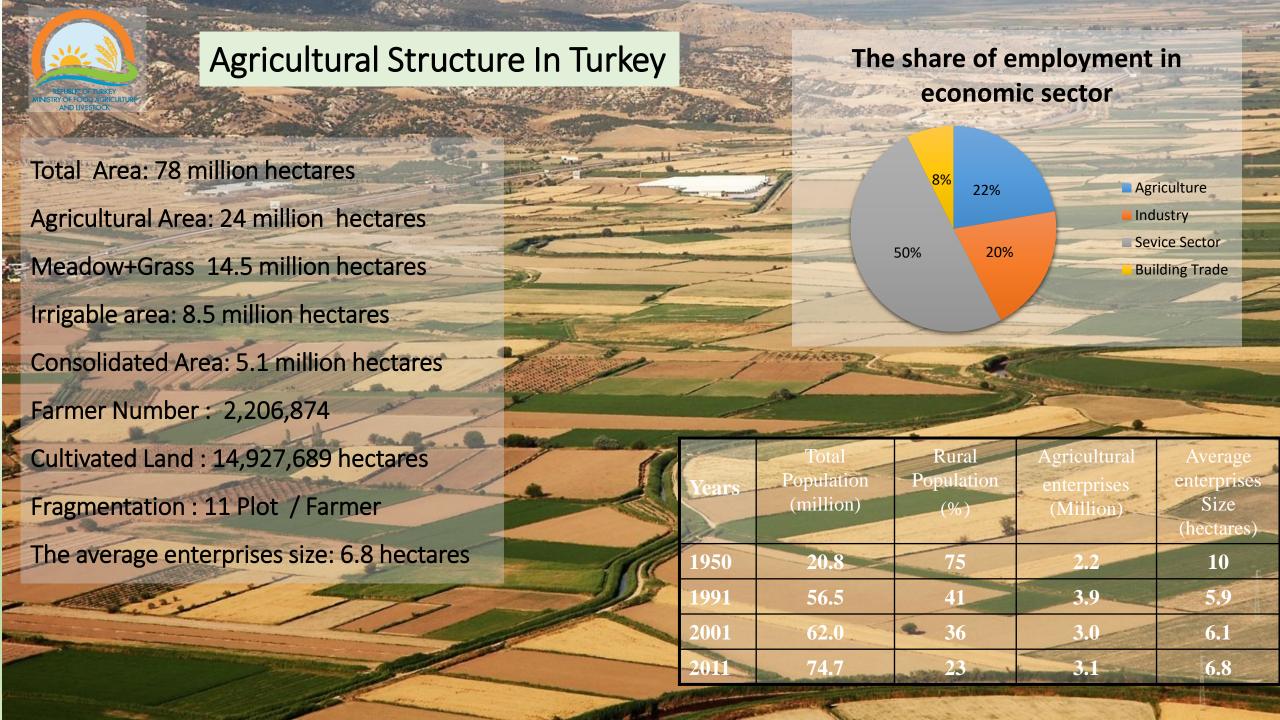
About TURKEY



Capital city: Ankara
Population: 78 million
7 Geographic Regions
81 Proviences
957 Districts

AKDENIZ







Land Consolidation Requirement

- Agricultural Lands are scattered, little therefore inability to use land efficiently and economically
- The empty plots
- Soil erosion, floods
- Irrigation needs
- Drainage
- Village settlement infrastructure
- Field road
- Land levelling
- Stoniness
- Public investment
- Pruductivity
- Lobour and fuel savings
- Meadow arrengaments



New approaches in LC

REGIONAL LC NOT ONLY ONE VILLAGE LC

Handle basin all of needs

MULTİ PURPOSE LC

LC aims not only agriculture land spape and size improvement but also restructure of rural infrastructure and protection landscape, nature, spice

Having specified goal in the project

- Parcel shape and size
- Improvement of riverbed
- Field road, in village road and villages access road the others tourism road e.g.
- Drainage problem and solution underground and on the surface drainage
- infrastructures water, Energy, road, railway, airport
- Phiysical improvement cross field, levelling, collect storage stone rock
- Historical and conservation area determination in the agriculre area
- As drinking water pipe line, sewerage social investment service

with LC not only arrangement of parcels but also rural infrastructre

1. Expropration, different infrastructure types (water canal, pipeline, road, railway..)

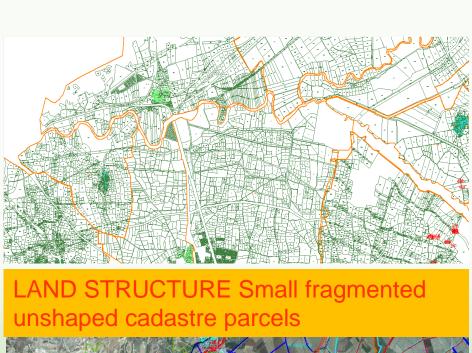
2. Rehabilitation (drainage, storage stone...)

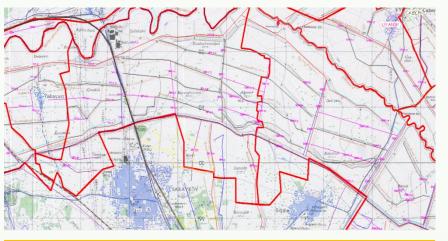
3. Agriculture purpose and nature (greenhouse, viticulture...)



- Irrigation investments sychronization with LC (decrease investment cost and LC a tool acceleration investment)
- Physical infrastructure (parcellation, field road and field crossing, ecolojic coridors, determination historical and protected area, village interroad, such as sewerage and drinking water pipeline social infrastructure, top drainage and covered drainage implemntations
- Land Consolidation: To prevent the disintegration and disintegration of arable land by natural and artificial effects and to create new parcels which are more functional in economic, ecological and social aspects by combining more than one piece of land with natural characteristics, use integrity and ownership rights in fragmented lands, to determine the usage patterns and to provide land development services (regulation 5403, article 4)

Why land consolidation? (requirement LC)





YAKATURT

Using Satellite image

PUBLIC INVESTMENTS
Water Canals, roads





LC PROCEDURE

Technical survey



Parcellation

construction

Company implementation Controlling by TRGM



Complete
LCproject 2-3
years

Put out the tender projects implementation

Phases LC



Prepare Land consolidation project



Volntary - Statuary LC Acceptance List Study

Determination Project contactor



Approval LC: yes Landhowners 2/3 and these are own $\frac{1}{2}$ total land in the LC project area



Road and water system construction



Reallocation

- .Old parsel list
- New parcellation plan (3time annoncement)
- .Approval plan
- .Cadastre and Title





Historical process land consolidation in Turkey

1961-1973 The General Directorate Soil and Water 28 348 hectare area consalidated with 46 projects

1984- 2005 GDRS 380 577 hectares area consalidated with land development projects with 465 projects

2005 to now Special Provincial Administrations LC with 6 projects

2006 GAP - "Land Consolidation Research Commission"

2007 By Law Number 5578 coming into force (5403 Number Soil Conservation and Land Use Law) (Appendix 3

par: 31.01.2007 -5578 / 4 Sec.) (Article 17) DSI LC wit 37 projects and Baklan Municipilty 1 Project (call

private LC)

1984- 2010 GDAR (12 project ARİP) 166 Project 2 838 298 hectares area LC was contracted according to the 3083 no law.

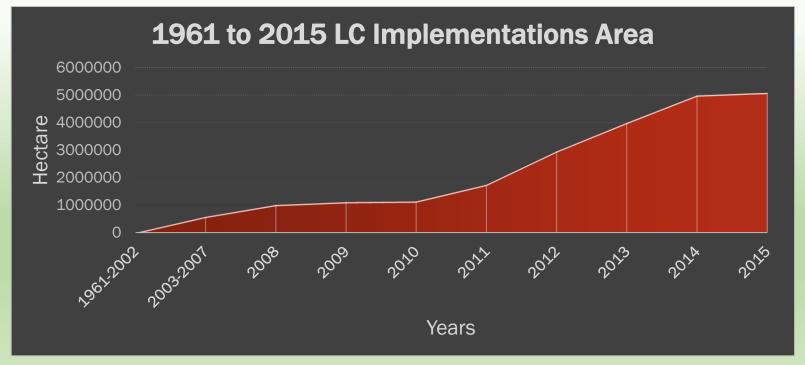
2011-2015 GDAR 2 142 049 hectares area with 135 Projects LC was contracted according to the 3083 no law.

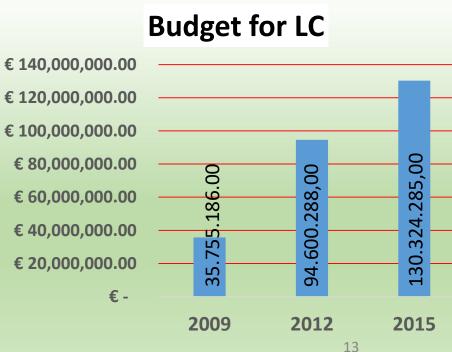


Land Consolidation Implementation Area and the Allocated Funding from Treasury in Turkey

After the 2009

- Basin based land consolidation projects has started. (A Project area 20.000-30.000 hectares)
- Multi purpose land consolidation has started (ecology, hydrology, historycal places, public investment, state investments etc.)
- Project area has been improved to 1 milliyon Ha per year
- Total budget per year has improved.







Land Resources and Land Consolidation in Turkey at Present

Land Consolidation Projects Distribution in TURKEY

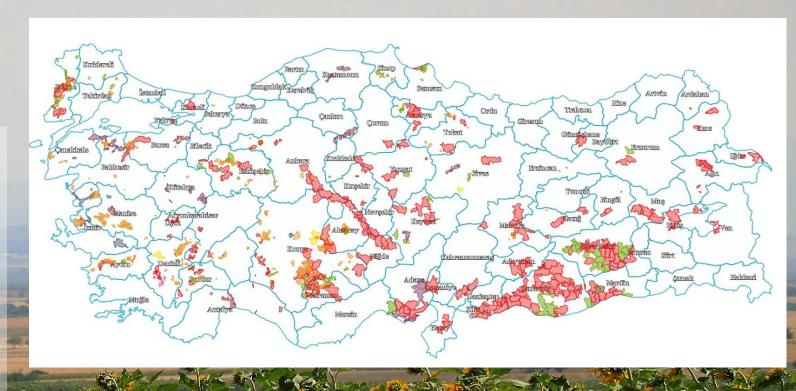
At the beginning to present LC implementation area in TURKEY

▶1961-2005540.000 hectar

>2005-2015......4.560.000 hectar

▶Total......5.10.000 hectar

2016 ongoing......1.850.000 hectar





Current Law Legislation At Land Consolidation

 Ministry of Food Agricultre and Livestock General Directorate Agrarian Reform (3083,5403)

Ministry of Forestry and Water Affairs

General Directorate of Hydraulic Works (5403)

Constituion 44 Number Agrarian Reform Act For Land Arrangements In Irrigation Areas, no. 3083

Law No. 5403 the Law on Soil Conservation and Land Use Law

Private Land Consolidation

Agrarian Reform Act Implementation Guideline

GDAR Land
Consolidation
technical instructions

Soil Conservation and Land
Use Law and Land
Consolidation Statute



3083 Law No. LC Implementation Phases

- Demand
- Pre study
- Evaluation
- Implementation Area

Council of Ministers

Decision

3083 Implementation Area

- Implementation Area land commentary
- LC Study Evaluation
- LC General Directorate Confirmation
- Announcement
- Consent from Landowners (voluntary or obligatory)

- Project
- Approximate Cost
- Offer Investment Program
- Bidding
- Delivery place the contractor

Implementation Stage

Land and Agrarian Reform application areas are the areas published at Official Gazette after being determined with the General Directorate Agrarian Reform's offer and the Cabinet decision. This decision is common weal.

Voluntary land consolidation

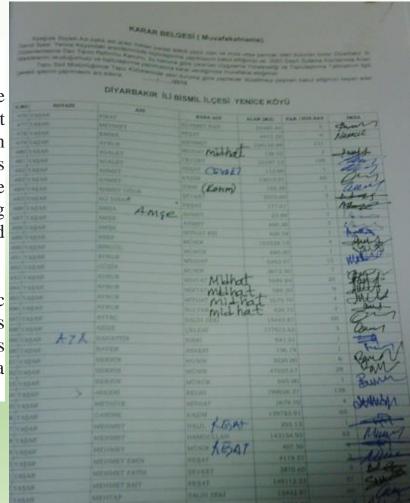
Statutory land consolidation

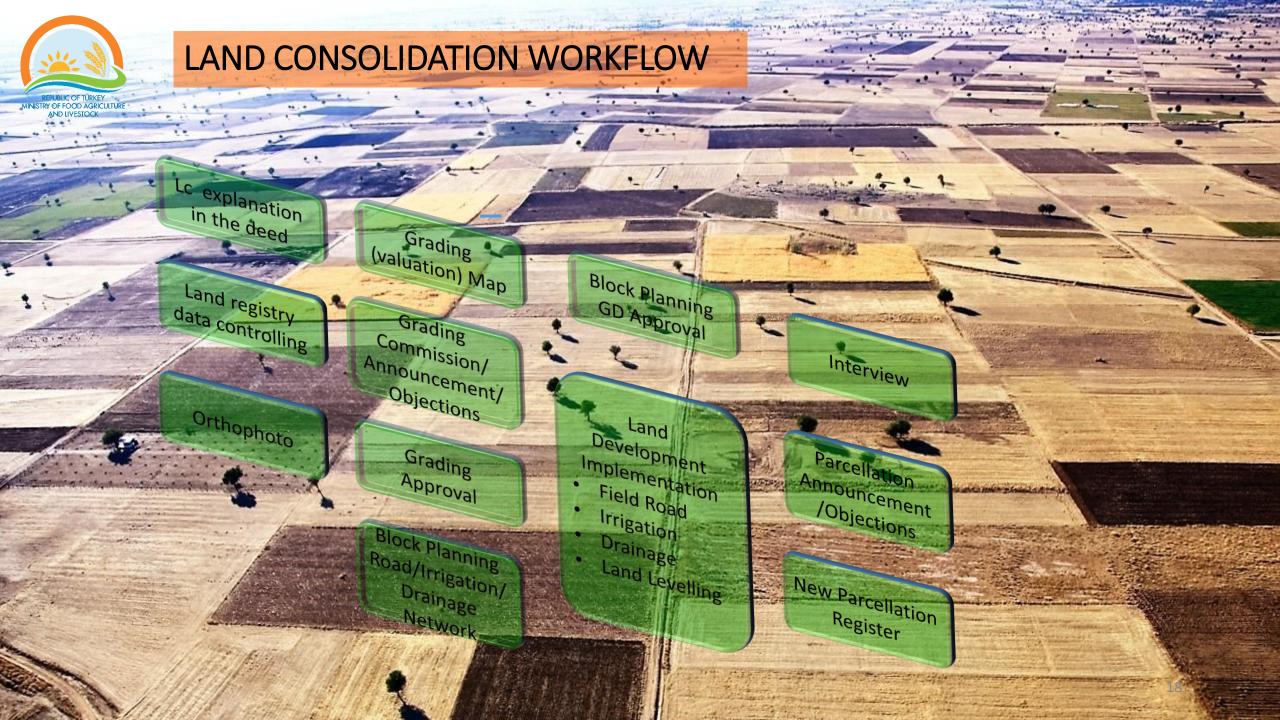
To 5403 law number regulation

Determination and finalization of land consolidation areas

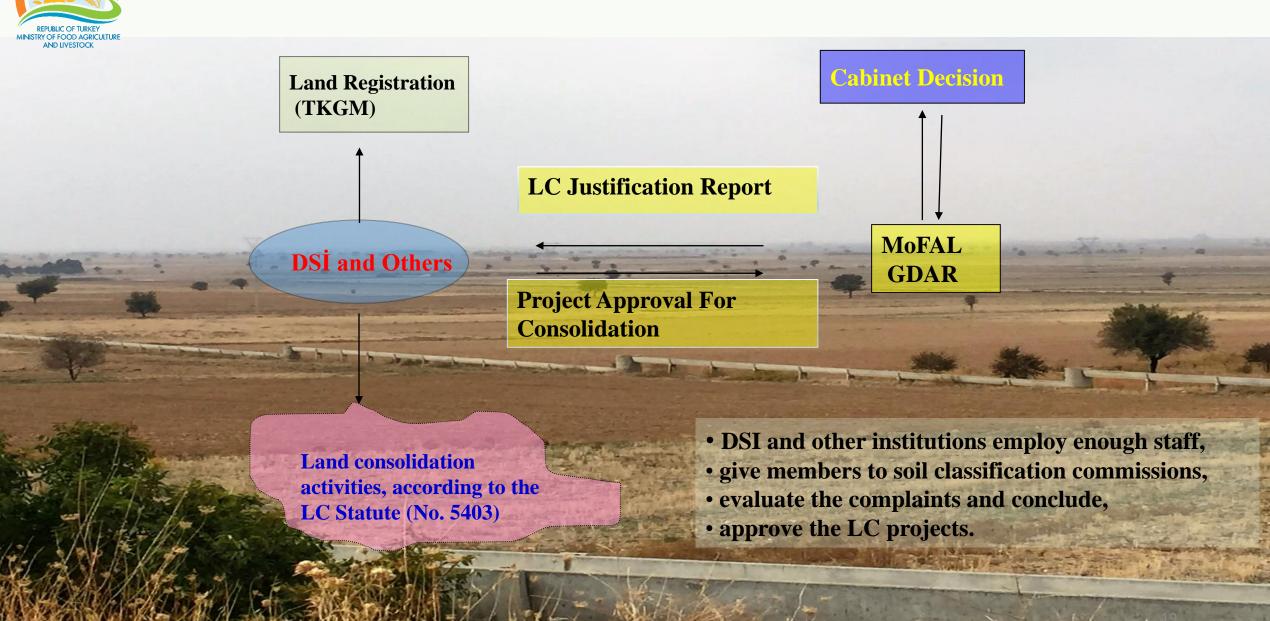
ARTICLE 6 - (1) in order to establish viable enterprises in the agricultural sector and to ensure the rational use of agricultural land to form the parcel sizes at optimum metric, re-arrangement of existing parcel pattern according to the requirements of inter-parcel transportation, modern irrigation and agricultural mechanization techniques, and to do in-field development services if necessary; on the affirmation of those who have more than half of the land and who constitute more than half the number of the owners, on the request of the Ministry or the boards observing the public interest irrespective of demand, the project site for land consolidation is determined with the decision of the Council of Ministers.

(2) This decision of the Council of Ministers shall be considered as the decision of public interest in terms of land consolidation and other operations. After the announcement of this decision in the Official Gazette, the related head of village or municipality and the district's largest civil administration authority shall be notified by specifying the boundaries of the area of consolidation. The decision is announced with the usual tools in place.





ACTION FRAMEWORK OF "PRIVATE LAND CONSOLIDATION"





Participation

LC is done in two ways: voluntary and compulsory

For 3083 Law
Approval LC: yes
Landhowners 2/3 and these
are own $\frac{1}{2}$ total land

Farmers Participation In Etut(Pre-study Works) phase

For 5403 Law
Approval LC: yes
Landhowners 1/2 and these
are own ½ total land







Shareholder Meeting (Public Services Instutions and Farmers)

Agrarian Reform and the other institution make a protocol for LC

State Hydrolic Works

Land Registry

Highway

TEİAŞ

Ministry of Transport

Forestry

Investigation - Planning and Data

Cadastre map

Title

Parcel Data



21

Governerships

Municipalities

Cooperatives

Unions

RELATION WITH OTHER INSTITUONS



State Hydrolic Works

Land Registry

Highway

Cadastre map

Title

Parcel Data

Expropration line



Local Managements
Governerships
Municipalities
Villages governing
Cooperatives
Unions

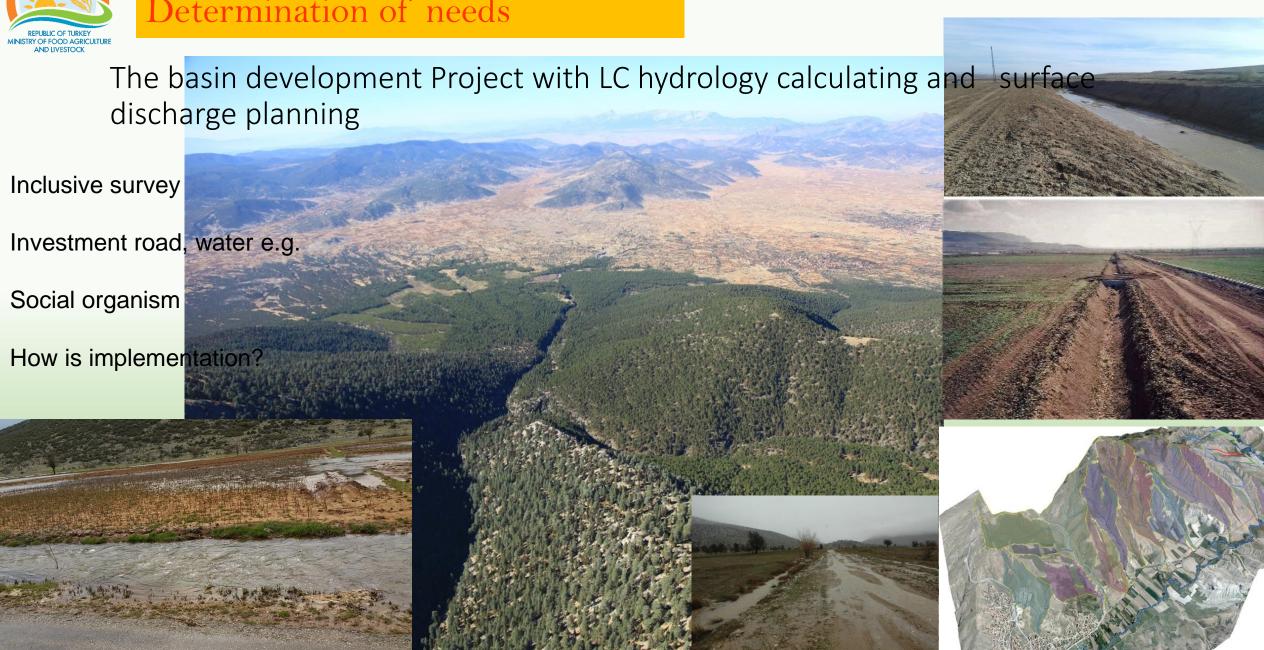
GIDA TARIM VE HAYVANCILIK BAKANLIĞI

Investigation - Planning and Data





Determination of needs



3083 Law number Land Grading (rating)in Land Consolidation

- 30 point asset point
- 40 point soil point
- 20 point location point
- 10 point commision point

Plot index = $0.4 \times 10^{-4} \times 10^{-$

5403 Law Number Land Grading in Land Consolidation

- 70 point soil point (i)
- 20 point location point
- 10 point productivity

- i = Soil İndex
- A = Soil profil group value
- B = Top soil quality value
- C = Land slope value
- X = The other soil feature value
- i= A*B*C*X
- Plot index = 0,7 x Soil İndex+ Location point + Productivity point
- Parsel endeksi hesaplanır. Bu değer parsel değer sayısını hesaplamak için kullanılır.
- PDS= PE*Alan/100
- Plot value number= Plot index*Plot area/100

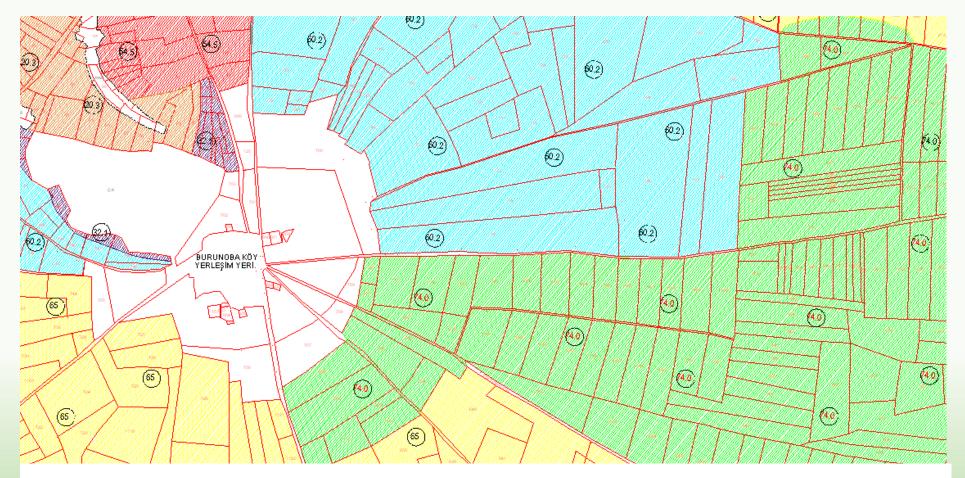
- For example in a Project area we have 5 grade;
- 1. Grade Point: 72
- 2. Grade Point : 67
- 3. Grade Point: 53
- 4. Grade Point: 45
- 5. Grade Point: 33

Correlation coefficient (denkleştirme katsayıları)

- 1.derecenin 1. dereceye denkleştirme katsayısı K=72 / 72=1.0000'dir.
- 1.derecenin 2. dereceye denkleştirme katsayısı K=72 / 67=1.0746'dir
- 1.derecenin 3. dereceye denkleştirme katsayısı K=72 / 53=1.3584'dir.
- 2.derecenin 1. dereceye denkleştirme katsayısı K=67 / 72=0.9306'olur.
- 3.derecenin 1. dereceye denkleştirme katsayısı K=53 / 72=0.7361'olur.
- Diğer derecelerin denkleştirme katsayıları aynı şekilde bulunur ve proje alanı için denkleştirme katsayılarını gösteren tablo aşağıdaki şekilde düzenlenir.

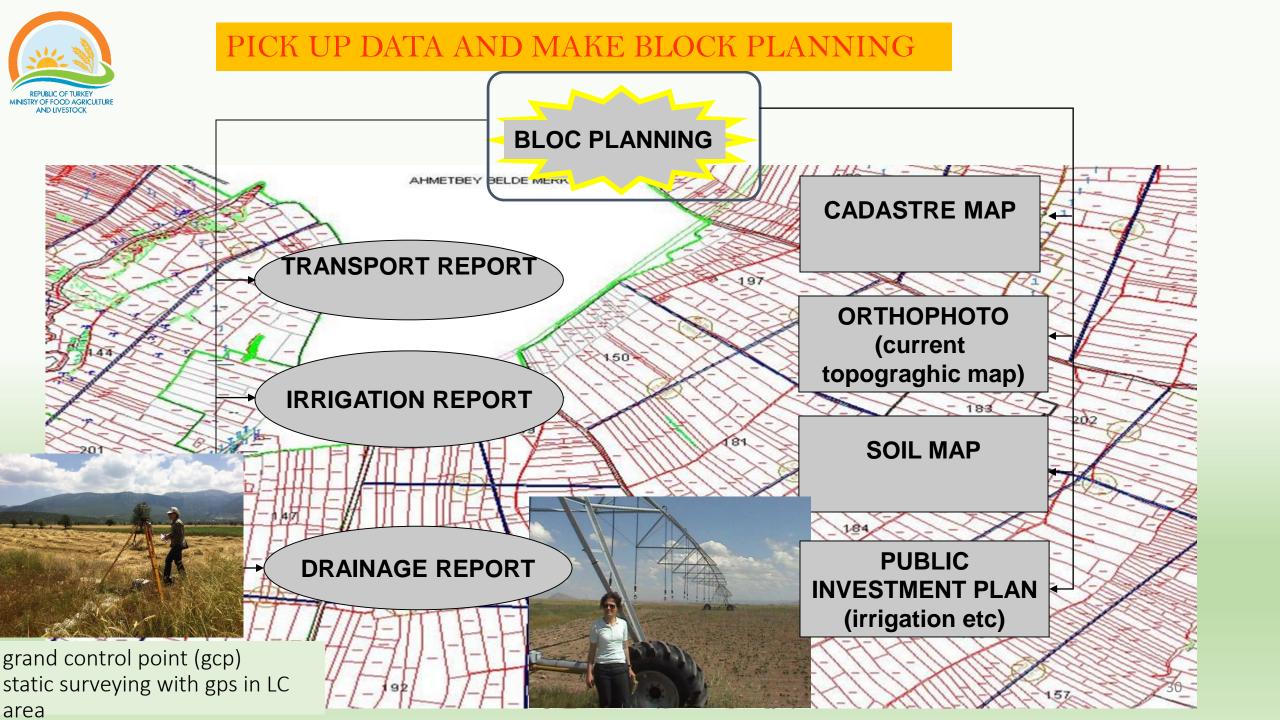
Grading equivalent table

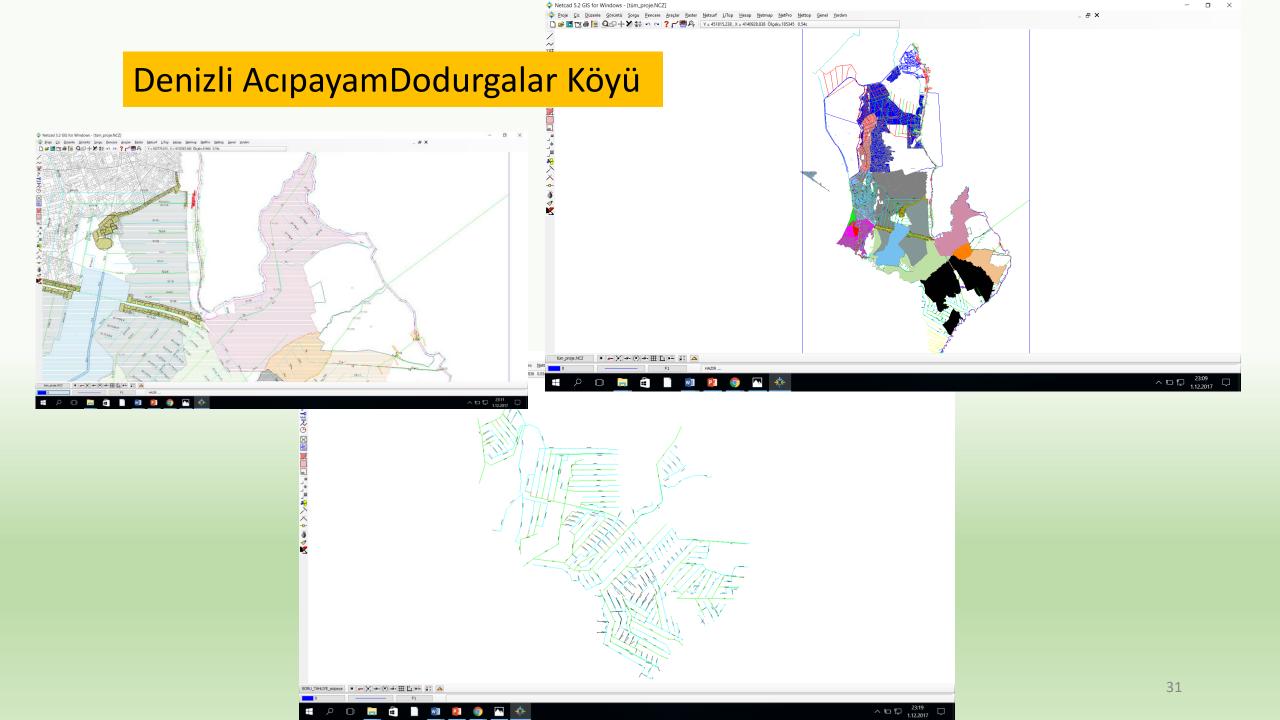
	1	2	3	4	5
1	1.0000	1.0746	1.3584	1.6000	2.1818
2	0.9305	1.0000	1.2641	1.4889	2.0303
3	0.7361	0.7910	1.0000	1.1777	1.6060
4	0.6250	0.6716	0.8490	1.0000	1.3636
5	0.4583	0.4925	0.6226	0.7333	1.0000



BURUNOBA KÖYÜ DENKLİK DÖNÜŞÜM TABLOSU

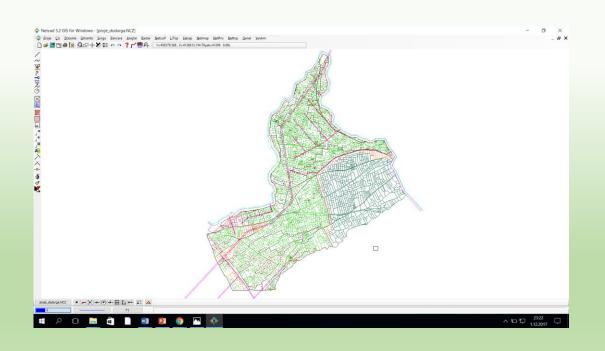
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	70-75	1	74,0	1,000000	1,138462	1,229236	1,357798	1,577825	2,305296	3,645320
	64-69	2	65,0	0.878378	1,000000	1,079734	1,192661	1,385928	2,024922	3.201970
	57-62	3	60,2	0,813514	0,926154	1,000000	1,104587	1,283582	1,875389	2,965517
	50-56	4	54,5	0,736486	0,838462	0,905316	1,000000	1,162047	1,697819	2,684729
	40-49	5	46,9	0,633784	0,721538	0,779070	0,860550	1,000000	1,461059	2,310345
	30-39	6	32,1	0,433784	0,493846	0,533223	0,588991	0,684435	1,000000	1,581281
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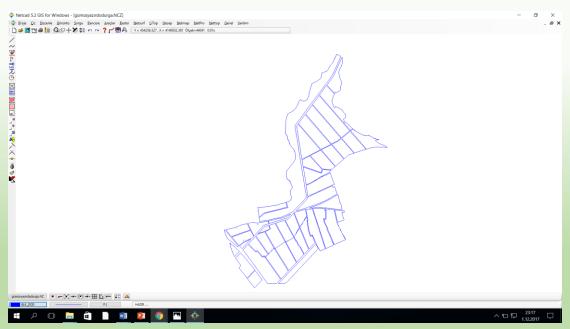




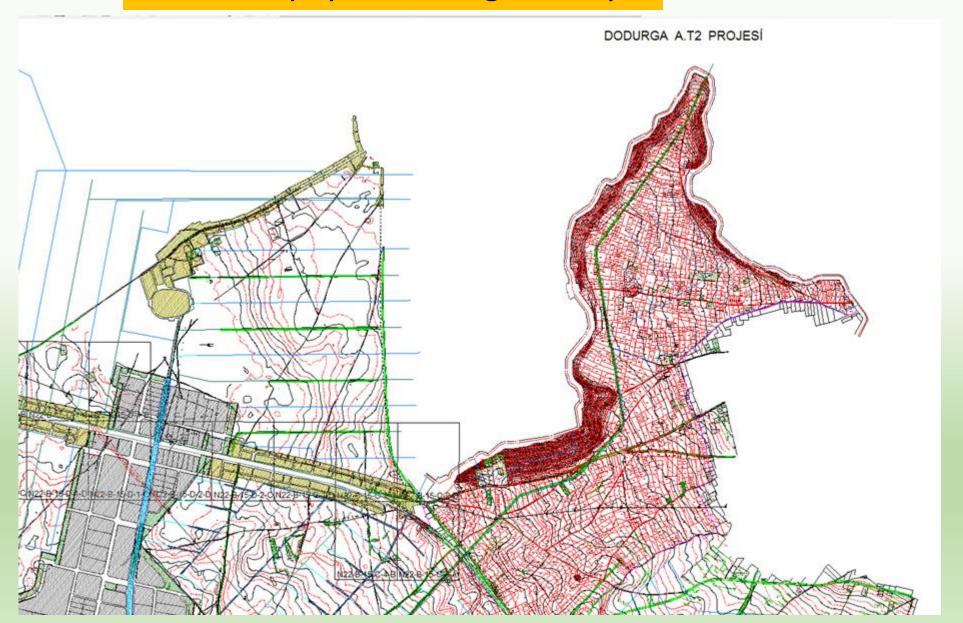


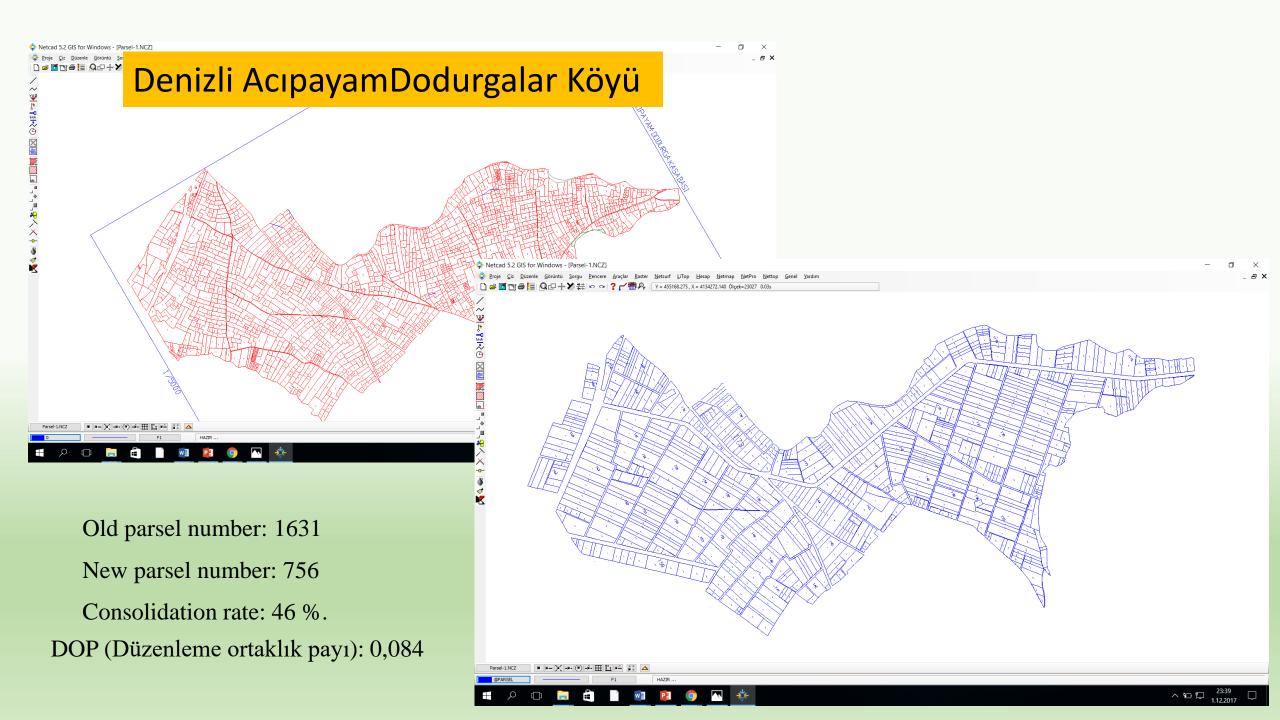
Denizli AcıpayamDodurgalar Köyü

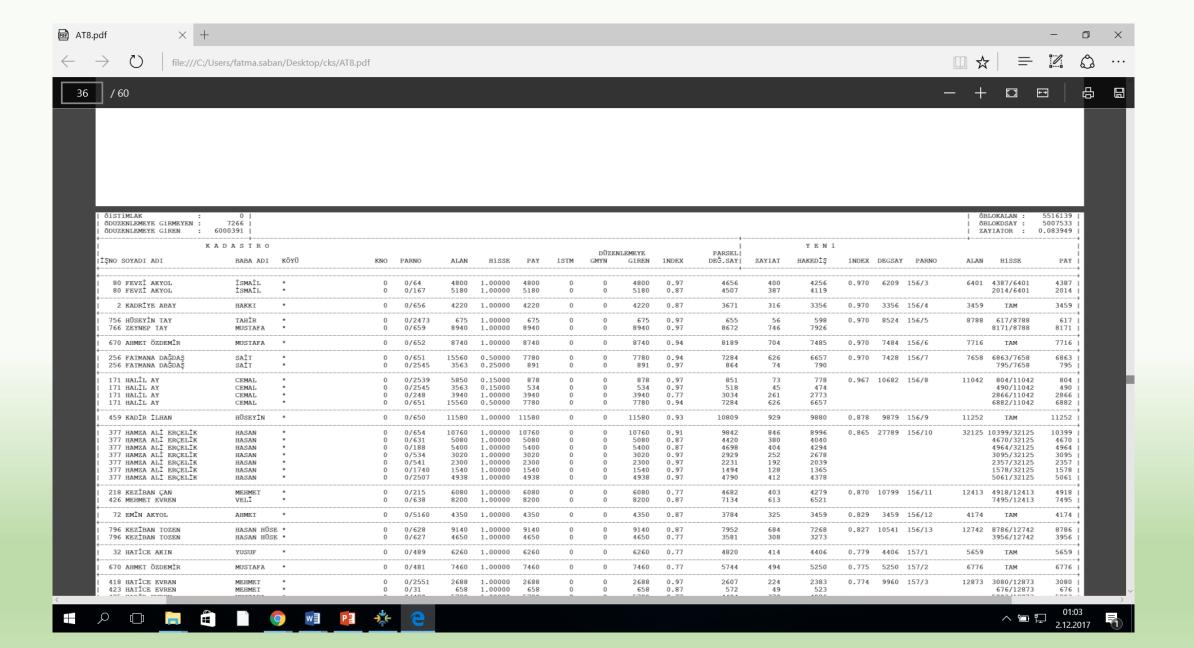


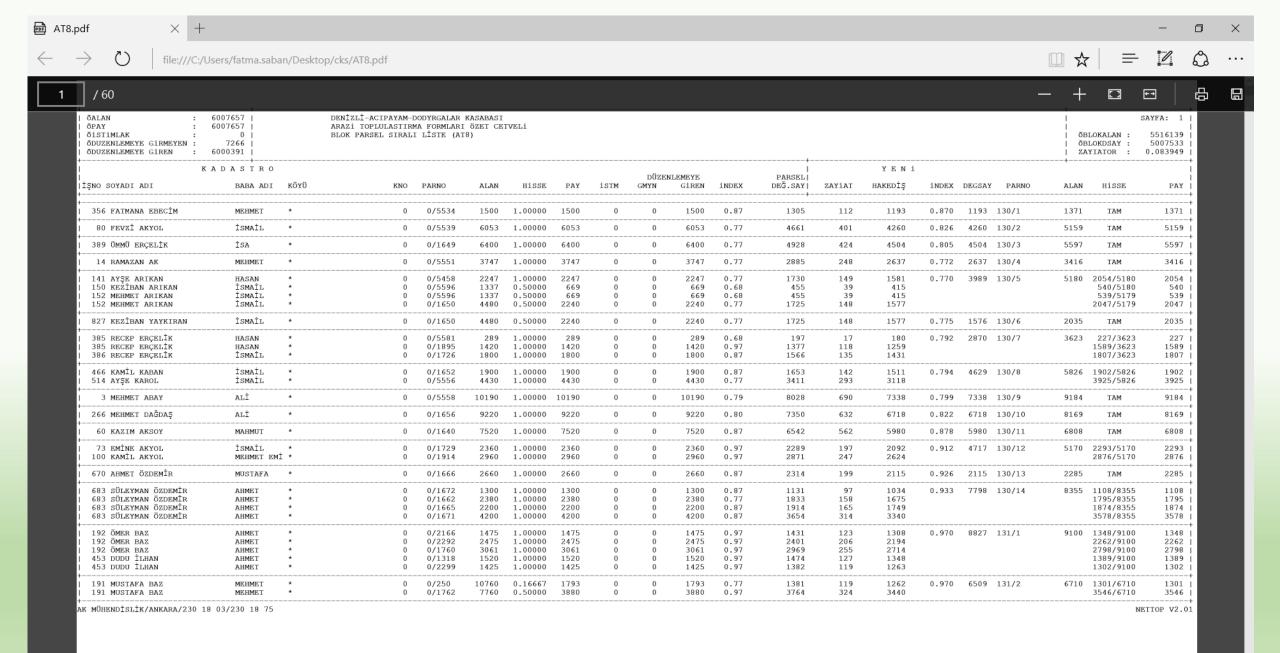


Denizli AcıpayamDodurgalar Köyü

































MÜLAKAT FORMU

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LANDOWNERS CONSENT FOR LC

Interview with farmers and take their preference in the village for the new parcellation voluntary or compulsory ротног тнем иттекчем with



Before the lc interview with farmers etut phase





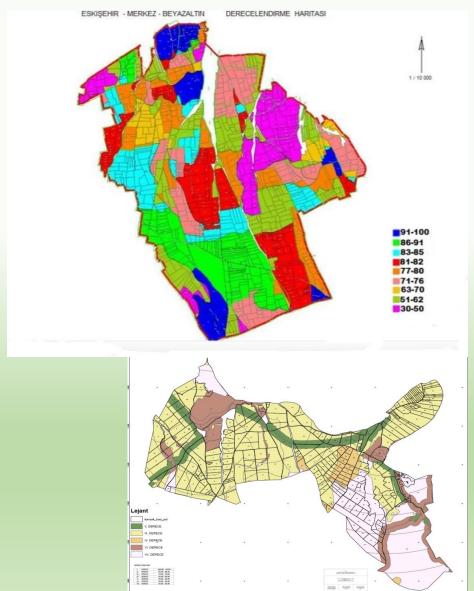




Interview with farmers for taking choice ongoing LC project



FARMERS INVOLVEMENT





- 4. multicipity president or village head man,
- 5. one is select landowners by election from among landowners in the project area.

ARAZİ TOPLULAŞTIRMA LİSTESİ (Yeni Blok Parsel Sıralı)

Çizelge No: AT - 8

Köy	Köy Adı: Akalan Kesinti Oranı: 0.038037 Sayfa No : 2 / 83															2/83							
İşletme	Malikin			Ada	Parsel	Tapu Alanı	Hissesi	Paya Düsen	Düzenlemeye (m2)		Parsel	Parsel Değer	Kesinti	Hakediş	Olduğu	Yeni Blok	Y. Parsel Değer	Blok	Yeni Parsel	Yeni Parsel	Yeni Parselde	Yeni Parselde	
No	F.C. Kimlik No	Adı	Soyadı	Baba Adı	No	No	(m2)	1115562		Girmeyen	Giren	Endeksi	Sayısı	Miktarı	Hakeuiş	Blok	Endeksi	Sayısı	No	No	Alanı	Hisse Oranı	Paya Düşen Alan
877		Mukaddes	ÇZDEMÎD	Mevlüt .	764	18	4,043.64	1/8	505.46		505.46	0.875100	442.32	16.82	425.50	838						486/3888	486.23
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1255	40000040000	Eşana		Ali	764	33	5,229.67	36/56	3,361.93		3,361.93	0.875100	2,942.03	111.91	2,830.12	838						3026/20035	3,026.28
1255		Eşana	[Ali	764	33	5,229.67	36/56	3,361.93		3,361.93	0.875100	2,942.03	111.91	2,830.12	838						208/20035	207.77
337	001202102.3	Ümmügülsüm	,	Ali	764	22	3,392.54	Tam	3,392.54	595.04	2,797.50	0.875100	2,448.09	93.12	2,354.97	838	0.875100	1,438.82	838	15	2,691.09	1644/2691	1,644.18
337	_:::2	Ümmügülsüm	2. azu :-	Ali	764	22	3,392.54	Tam	3,392.54	595.04	2,797.50	0.875100	2,448.09	93.12	2,354.97	838						1047/2691	1,046.91
1306	40.40007.	Turgut	LILIVIAL	Şükrü	764	24	2,151.65	1/2	1,075.83		1,075.83	0.875100	941.45	35.81	905.64	838	0.875100	905.64	838	16	2,069.81	1035/2070	1,034.90
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878	,	Rahime	[:]	Halil İbrahim	764	23	1,853.44	Tam	1,853.44	710.68	1,142.76	0.875100	1,000.03	38.04	961.99	838						828/1100	827.57
958	,	Fatma	Carrer.	Ali	764	27	15,494.66	Tam	15,494.66	0.00	15,494.66	0.875100	13,559.38	515.76	13,043.62	838	0.875100	11,620.53	838	18	13,609.30	13279/13609	13,279.09
958	470000 J. 14	Fatma	ë	Ali	764	27	15,494.66	Tam	15,494.66	0.00	15,494.66	0.875100	13,559.38	515.76	13,043.62	838						330/13609	330.21

ARAZİ TOPLULAŞTIRMA LİSTESİ (Eski Parsel Sıralı)

Çizelge No: AT - 6 Köy Adı: Akalan Kesinti Oranı: 0.038037 Sayfa No : 34 / 83

İşletme		Malikin			Ada	No No		Hissesi	Paya Düşen	Düzenlemeye (m2)		Parsel	Parsel Değer	Kesinti	Hakedis	Olduğu		Y. Parsel Değer	Blok	Yeni Parsel	Yeni Parsel	Yeni Parselde	Parselde
No	T.C. Kimlik No	Adı	Soyadı	Baba Adı	No		No	(m2)	Tilissesi	Alan (m2)	Girmeyen	Giren	Endeksi	Sayısı	Miktarı	Hakediş	Blok	Endeksi	Sayısı	No	No	Alanı	Hisse Oranı
1339		Verasette İştirak - 1339			605	7	997.36	Tam	997.36	0.00	997.36	0.294300	293.52	11.16	282.36	875	0.294300	282.36	875	8	959.42	Tam	959.42
	,	Meral	n.]	Ahmet İsmail																			
			1.2.2.	Ahmet İsmail																			
		Bayram	, with	Ahmet İsmail																			
		A	Aumen	Mustafa																			
692	LUU	Usman	اسېې.	Bayram	605	8	12,382.90	Tam	12,382.90	0.00	12,382.90	0.615986	7,627.69	290.13	7,337.55	875	0.571094	5,538.90	875	9	9,698.76	Tam	9,698.76
692	·· •^)	Osman	NLYY.	Bayram													0.736906	1,798.65	882	7	2,440.82	Tam	2,440.82
1187	45 _000 ,c	Ömer Hüseyin	. 5. 5. 5	Ömer	605	9	14,565.10	Tam	14,565.10	0.00	14,565.10	0.574324	8,365.09	318.18	8,046.91	882	0.727392	4,200.00	875	13	5,774.05	Tam	5,774.05
1187		Ömer Hüseyin		Ömer													0.460385	3,846.91	882	9	8,355.84	Tam	8,355.84
1362		Zeynep		Ahmet	605	10	6,705.07	1/2	3,352.54	0.00	3,352.54	0.294300	986.65	37.53	949.12	882	0.665300	787.06	876	1	2,366.03	1183/2366	1,183.02
1361		Ramazan	DEVAIE ,	Ahmet				1/2	3,352.54	0.00	3,352.54		986.65	37.53	949.12		0.665300	787.06	876	1	2,366.03	1183/2366	1,183.02
1362		Zeynep	LIVIU NO	Ahmet				1/2	3,352.54	0.00	3,352.54		986.65	37.53	949.12		0.875100	162.06	888	6	19,614.16	185/19614	185.19
1361		Ramazan	DE.	Ahmet				1/2	3,352.54	0.00	3,352.54		986.65	37.53	949.12		0.875100	162.06	888	6	19,614.16	185/19614	185.19
497	١٠٠	Nurittin		Mevlüt	605	11	27,877.62	1/4	6,969.41	0.00	6,969.41	0.294720	2,054.03	78.13	1,975.90	882	0.313858	1,975.90	875	12	6,295.52	Tam	6,295.52
496		Mustafa	×	Mevlüt				1/4	6,969.41	0.00	6,969.41		2,054.03	78.13	1,975.90		0.304338	1,975.90	882	8	19,477.35	6492/19476	6,492.45
493	_, ,,,,,	Esat	E	Mevlüt				1/4	6,969.41	0.00	6,969.41		2,054.03	78.13	1,975.90		0.304338	1,975.90	882	8	19,477.35	6492/19476	6,492.45
494		Fatmana	· <u>*</u>	Ahmet				1/4	6,969.41	0.00	6,969.41		2,054.03	78.13	1,975.90		0.304338	1,975.90	882	8	19,477.35	6492/19476	6,492.45
693	INF	Ramazan		Osman	605	12	3,172.75	Tam	3,172.75	0.00	3,172.75	0.335905	1,065.74	40.54	1,025.21	882	0.389354	1,025.21	882	6	2,633.10	Tam	2,633.10
2514		Hayriye	···	Rahmi	605	13	5,875.86	Tam	5,875.86	0.00	5,875.86	0.772210	4,537.40	172.59	4,364.81	882	0.772295	4,364.81	882	5	5,651.74	Tam	5,651.74
370	:::::::::::::::::::::::::::::::::::::::	Yakup	vi	Mehmet Ali	605	14	4,392.84	Tam	4,392.84	0.00	4,392.84	0.772219	3,392.23	129.03	3,263.20	882	0.771461	3,263.20	882	4	4,229.90	Tam	4,229.90

Project Administration Works

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1 – Etut Report
2 - Property map procurement (from Cadastral Directorate),
3-1/5000 scale topographic map supply (if any – ),
4 – Old property lists (at 1), (from Land Registry Directorate)),
5 - Preparation of the old property alphabetical list ( at 2 ),
6- Preparation of land ownership cards (at 3),
 7 – Decision document (Muvaffakatname) to be annoncument
and taken, (Voluntary or Obligotary)
8 – The Decision Of The Council Of Ministers,
9 - Preparation Of Tender Document,
10 - Tender Of Land Consolidation Project
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After The Tender Works To Be Done By Contractor

- 11-Status (topographic) Map
- 12 Cadastral survey and control of Parcel areas (land registry and cadastral area)
- 13-Soil Survey Report and grading (Classification) map preparation (approval and announcement)
- **14-Interview With Farmers**

After The Tender Works To Be Done By Contractor

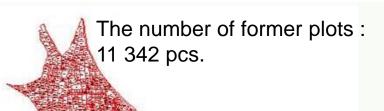
- 5-Projecting
- a) Planning of blocks and parcels,
- b) Preparation of new property Properties,
- c) Approval of Parcel Plan (provisional Confirmation),
- d) Suspension and announcement of the Parcel planning project,
- e) Examination and evaluation of objections,
- f) Application and temporary distribution of wooden piled corners of new parcels,
- 16 Final Approval Of The New Parcel Plan

After The Tender Works To Be Done By Contractor

Field Road construction and the other land development investment



Agriculture Aim Land Consalidation

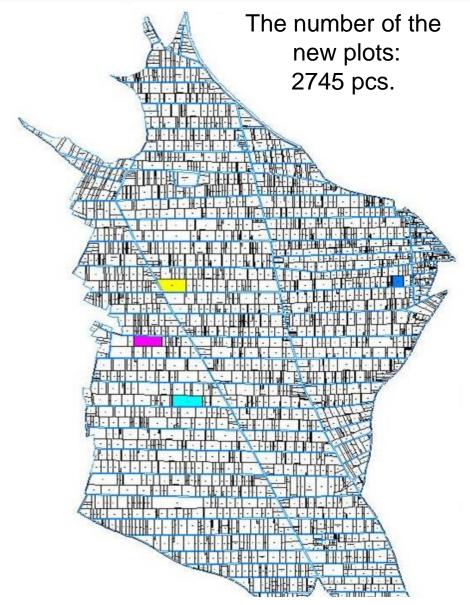




The Cadastral Map Showing the Previous

Situation DENİZLİ Nikfer Village

27 Parcels

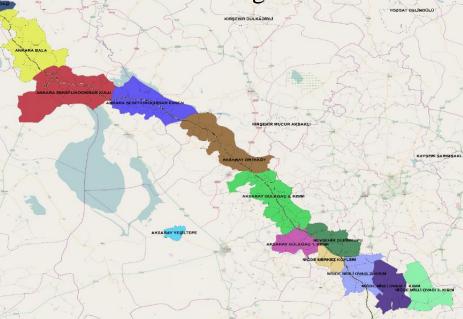


The Map After the Consolidation

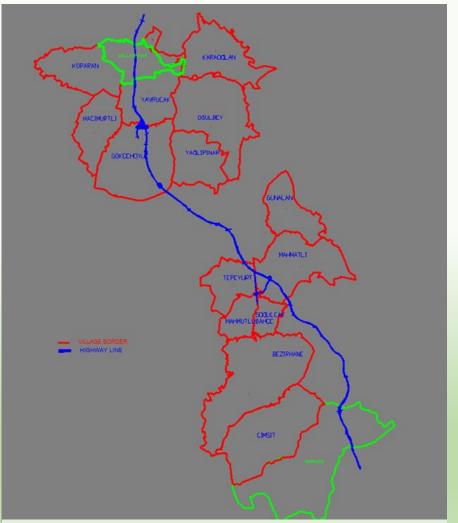


Expropriation Aim at Land Consolidation Example; Gölbaşı LC and Land Development Project for Highway

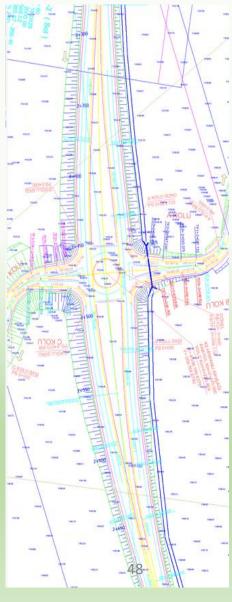
Ankara Gölbaşı LC and development services Project implementation area takes 33 km. length of Ankara-Pozantı highway route with 223 km. length.



A protocol on consolidation between GDAR and GDH has been signed for reorganization of highway route, which is in Gölbaşı LC Project implementation area, in 04.04.2013.



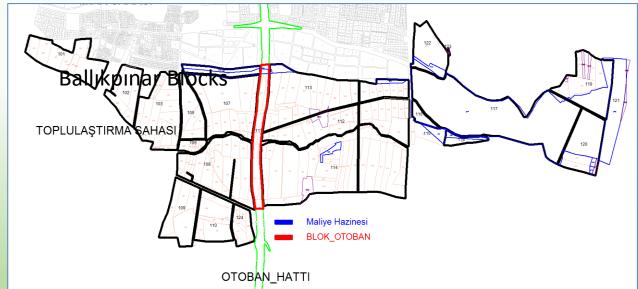
11 LC Projects implement in this 223 km. route by GDAR. Gölbaşı Project includes 16 villages



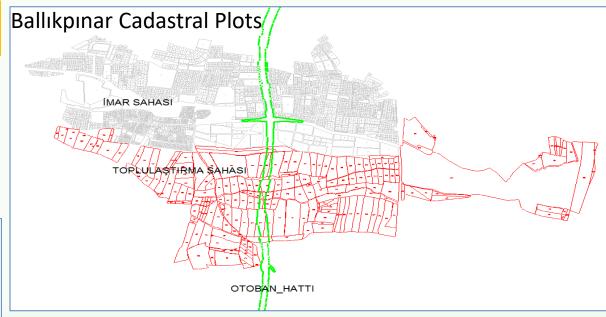


Ballıkpınar Village LC Area

Parcel number in project area dropped from 269 to 147. LC rate is 54%.



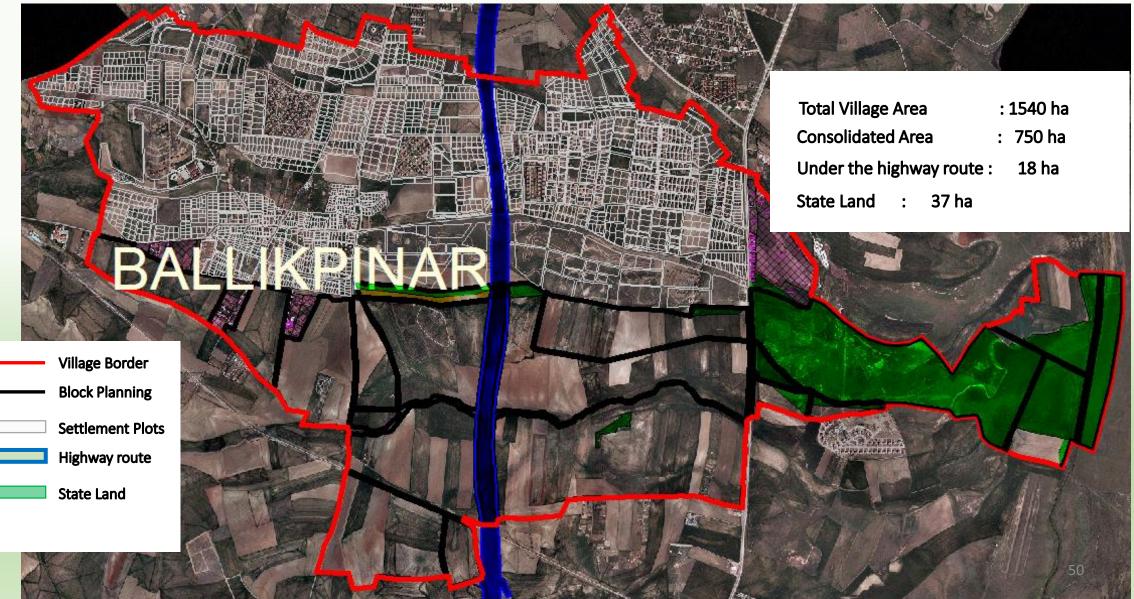
DOP (contribution reallotment plan) the amount of deduction was about 1,5% in this study in Ballıkpınarı village Project. Drainage and ecological corridors are protected, and it is planned to keep a frontage on field road for every plot at the new formed block.







Ballıkpınar Village in LC Area



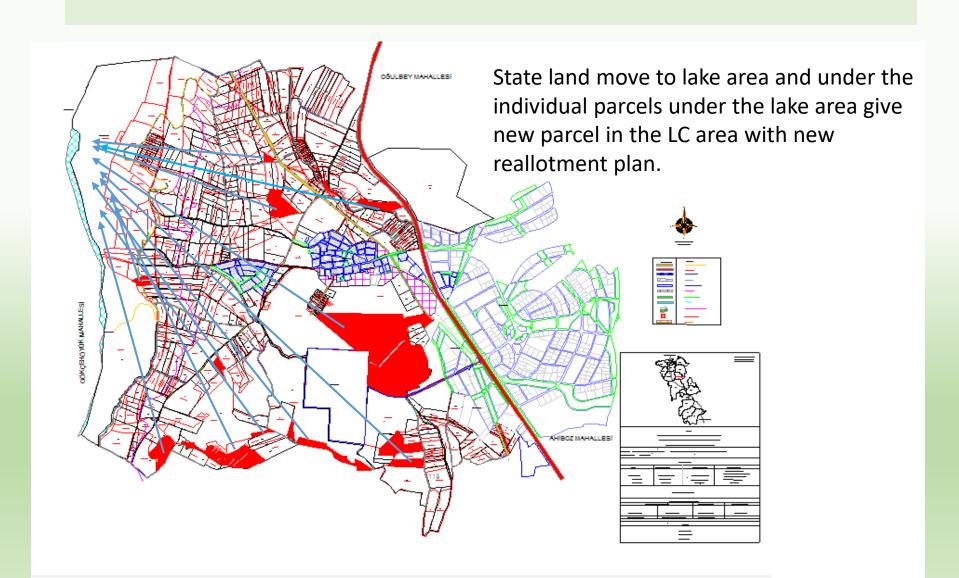


Highway route in agricultural area without land consalidation implementation





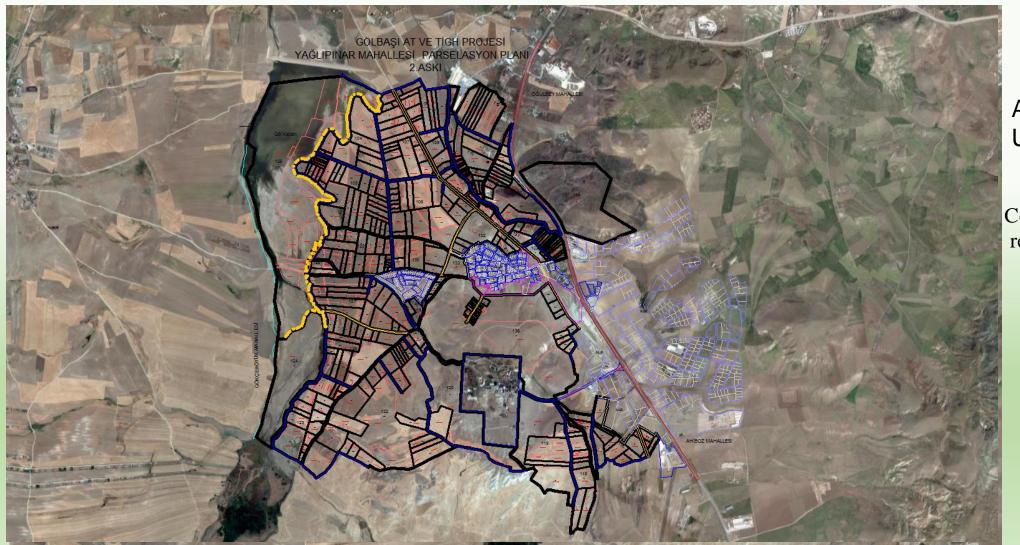
Expropriation Aim at Land Consolidation Example Gölbaşı LC and Land Development Project for Lake Trap





Expropriation Aim at Land Consolidation Example Gölbaşı LC and Land Development Project for Lake

Lake trap in Yağlıpınar Village Gölbaşı LC Project

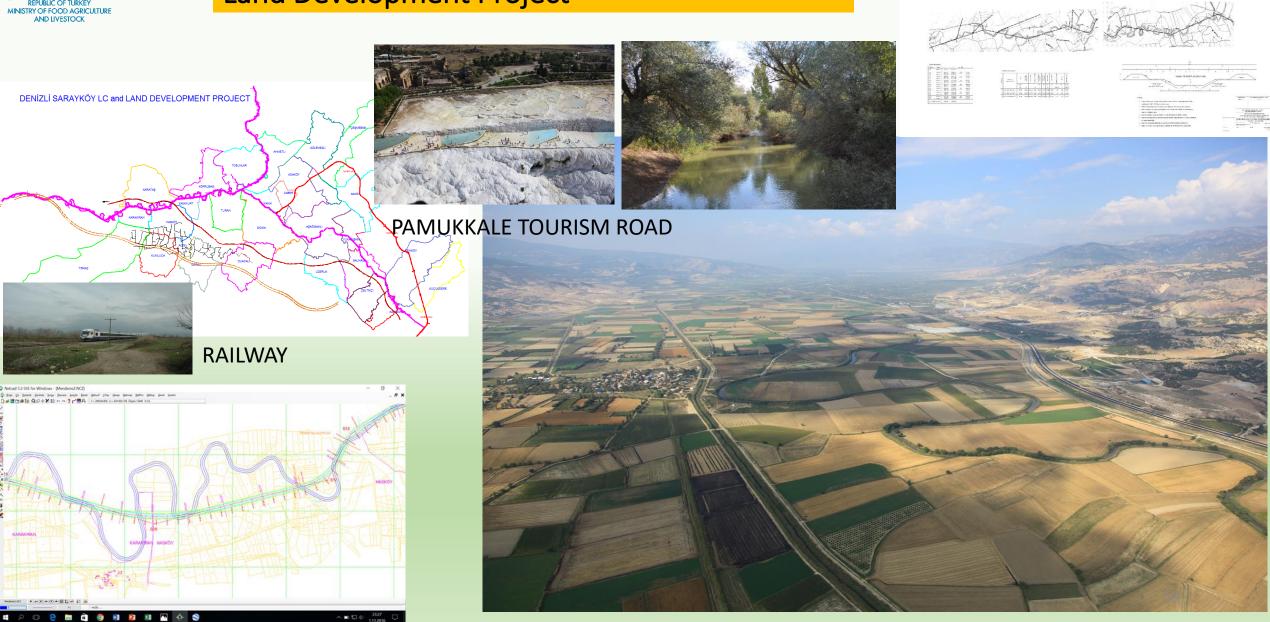


Agricultural plots
Under the lake area
142 hectares

Contribution reallotment plan:0,024

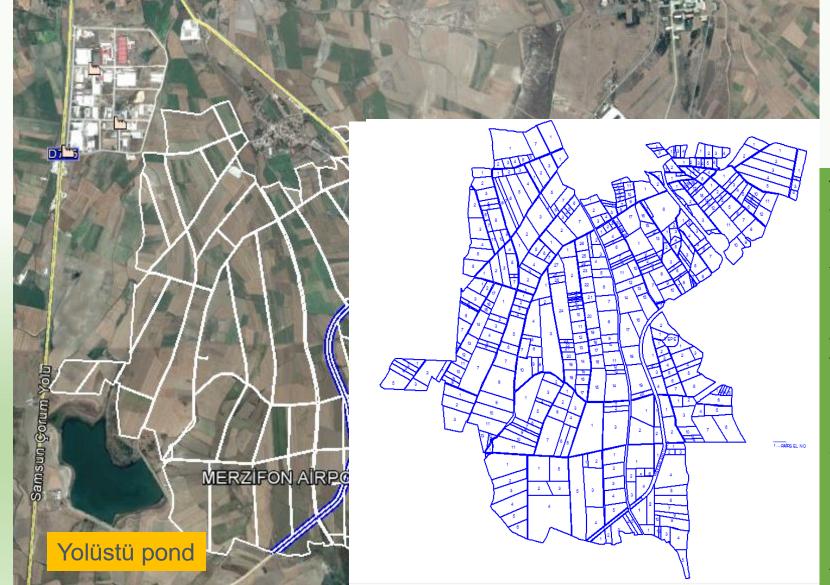


Big Meander River in Denizli at Sarayköy LC and Land Development Project





Amasya Merzifon LC and Land Development Project Yolüstü Project Area



Total Project area:16800 hectares Yolüstü Village one of the 23 villages in the Project

Yolüstü Village LC Area: 1140 hectares Irrigation system pipe line lenght: 33 780 m.

Airport Highway lenght 6038 m.and transfer 2,2 hectares state land in the

higway route

and total 10,7 hectares

Start date the project: 2011

contribution reallotment plan:0,029

Land consolidation rate:%28 Before lc plot number:663 After lc plot number: 478



Turkish Electricity Transmission Company (TEİAŞ)

By the protocol held between GDAR with

Turkey Electricity Transmission
Company Headquarters (TEIAS) in
22.04.2015 if the areas in the
transformer center
and immovable that corresponding
the poles yet to be obtained by
expropriation exist,
about areas given in the plan by
TEIAŞ will be left on behalf of
Treasury or not registered area.















Agricultural activities across the Turkey display differences.

The agricultural lands meeting different needs in different areas shows we need to use different steps on planning from the agricultural point and determine services with specific solutions at every region.

The fact of using LC as a tool to solve different needs' solution at the performing of these steps comes up.

Plantation Diversity (rose hip, Lavandula stoechas, etc)









 Priority at LC is currently on the areas which opened or will open to irrigation, and the aim is for all lands. GDAR is keeping its work based on basin. Also Law number 5403 has provided great opportunities on spreading of LC across the country with other investment institutions for expropriation purpose

 After 2002 LC has taken among prior labors of MoFAL

and continued with rising allowance by the years

- We should deal with integrated solution at agriculture
- Land Banking System sould be occured and used in LC Projects
- Private and Public Sector
 Employment in LC should be run up.







Specified fields afforestation in the consolidation lands protocol was signed between General Directorate of Forestry, General Directorate of Desertification and Erosion Control, General Directorate of Nature Conservation and General Directorate National Parks and GDAR in 03.12.2013.

Land levelling and cutting trees in land consolidation area





Before LC ın Denizli Acıpayam Plain





After LC Denizli Acıpayam Plain

