



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



LAND CONSOLIDATION PLAN AND FINANS IN TURKEY (Target 2023)

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Land Markets and Land Consolidation

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“Land consolidation in EU rural development policies”.

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LC AND FARMLAND INFORMATION SYSTEM

Agricultural parcels were digitized

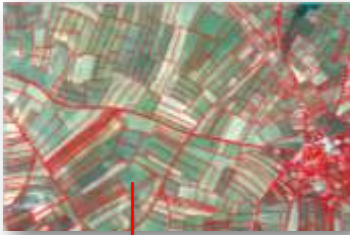


Total surface land : 78 million ha
Total Agricultural land : 24 million ha
Irrigable agricultural land : 8.5 million ha

Farmland informations system was established
In order to monitor the parcel based
production and supports

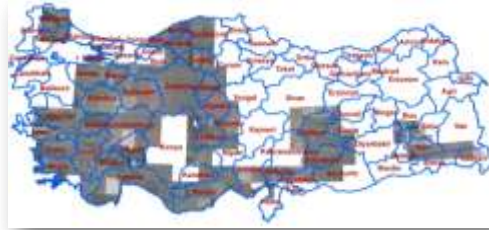


The main data used in Farmland digitization



Cadastr Parcels

identification number for each parcel



Ortophoto Map ~ 350000 km2



SPOT 5 Satellite images 330 adet

* Spatial data (existing)

Location of the land,
Class, Structure, Slope,
Dry-irrigated situation
Owners

According to land parcel information system

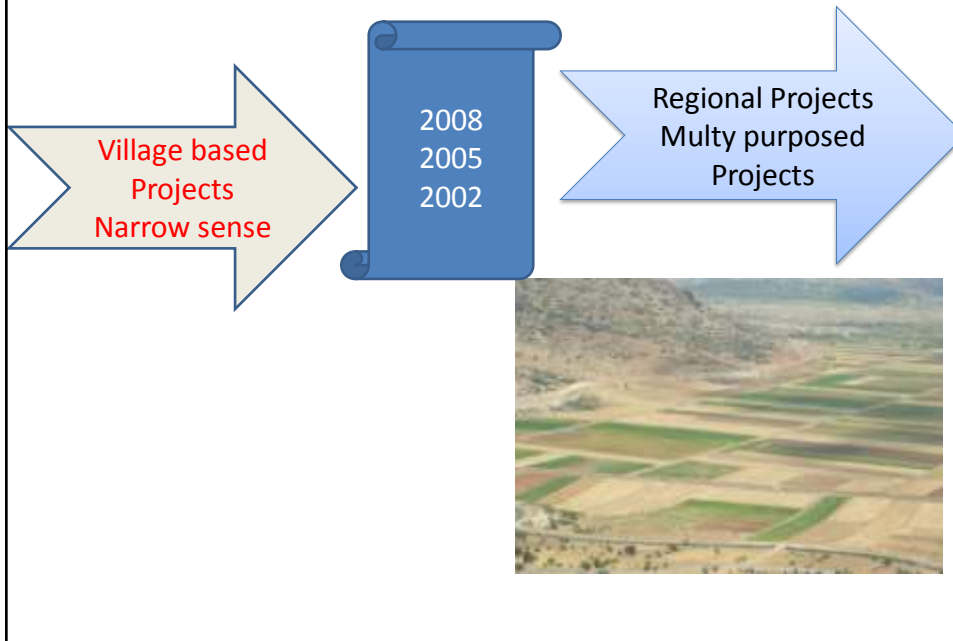
- Agricultural Holdings : 3.1 milyon
- Average land size : 6 ha
- Parcels per holding : 10

LC is inevitable !

- Agricultural Parcels : 30 million
- Total shareholder(owner) : 40 million
- Active business : 3.1 million
- Shareholder not cultivated land : 37 million

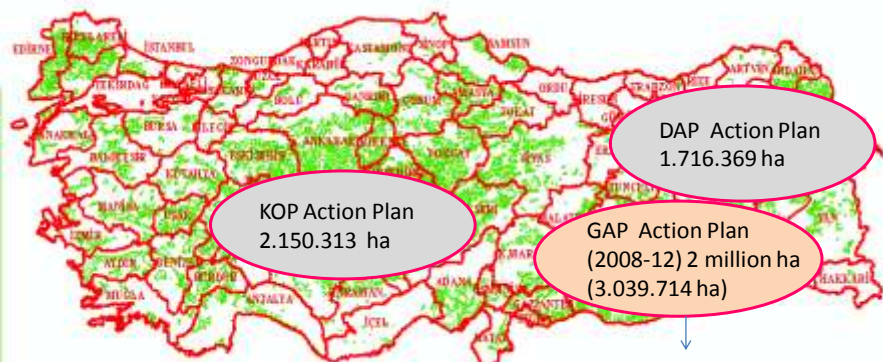
Transfer of shares is compulsory to active business

Land Consolidation in Turkey



Distribution of the suitable areas for Land Consolidation in Turkey

The areas can be consolidated 14 billion hektar
- Irrigated areas 8,5 billion ha



• Completed

1960 - 2002 (42)	450.000 ha
2003 - 2012 (9)	2.550.000 ha
TOTAL	3.000.000 ha

Regional Development Project

(4 axis – 73 programme)

1. economic development
2. Social development
3. Infrastructure (Irrigation-LC– transp.)
4. institutional capacity

LAND CONSOLIDATION PLAN AND COST

- Target 2023 14 million ha
- Completed 3 million ha
- On going 2 million ha
- **Target 2013-2023)** **10 milyon ha**
- **Annual Target** **1 million ha**

The cost of the project LC : 550 \$ /ha

Soil survey and mapping

Parcelation map

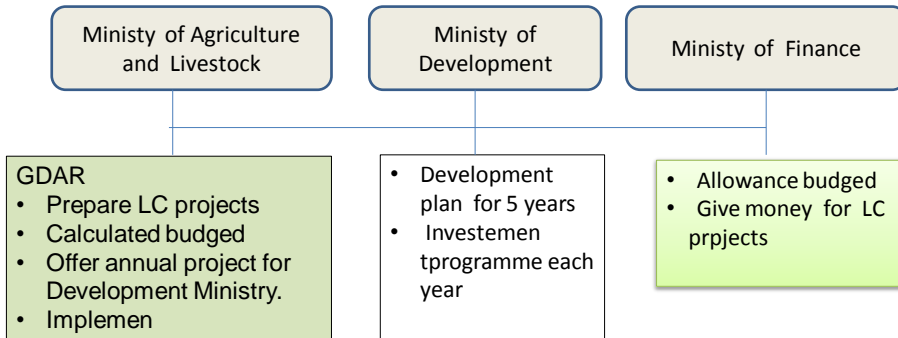
On farm developments

Need : **550 million \$** for **1 million ha** each year

FINANS NEEDS (2013 -2023)

Year	LC project area (Ha)	Investment budget (\$)	Period	10 years
			LC area	10 million ha
2013	1.000.000	550.000.000	Total need	5.5 billion \$
2014	1.000.000	550.000.000		
2015	1.000.000	550.000.000	Investment costs are covered by the national budget	
2016	1.000.000	550.000.000		
2017	1.000.000	550.000.000	No Iparad - may be after 2015	
2018	1.000.000	550.000.000		
2019	1.000.000	550.000.000	There is no participation of beneficiaries and NGO's as a money	
2020	1.000.000	550.000.000		
2021	1.000.000	550.000.000		
2022	1.000.000	550.000.000		
2023	1.000.000	550.000.000	farmers loses and damages are paid during the construction (irrigation canal)	
Total	10.000.000	5.500.000.000		

COORDINATION



Ministries work in collaboration

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Problems

Investment problems *(from 1985 to 2008)*

- Construction problems
- Financial problems (Deficit budgets)
- Expropriation problems
- Losses of producer during construction

Production problems

That's why, it wasn't possible to finish investments on time.

Multipurpose LC Projects

- LC - Irrigation projects
- LC - Highways & Ring Roads
- LC - Railway project

LC is a key factor on accelerating public investments such as highway, irrigation projects.



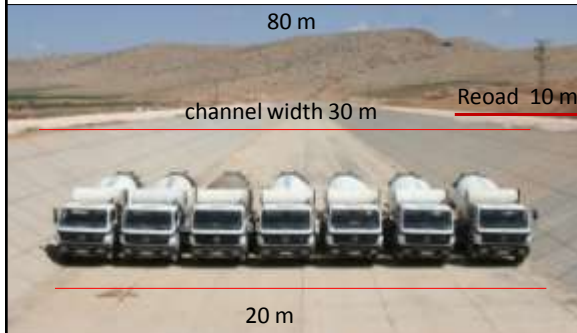
WHY LAND CONSOLIDATION FOR INVESTMENTS?

When the investments of irrigation carried out with land consolidation, some facilities can be provided

Land consolidations have a significant impact on accelerate of investments and the reduction of investment costs (less cannal and less cost)

Fragmented, small, dispersed and untidy land parcels re-design by land Consolidation. During the land consolidation, land needed for the common usage, such as road and canal are planned by using property (max %) and treasure land. According to the Law No. 3083 land property can be reduced up to 10 % and not pay money.

Farmer's production loses are paid until new parcels are delivered.



Kralkızı-dicle Irrigation main cannal Without LC

- The main canal length 300 km
- Expropriation width 80 m
- Expropriation land 2 400 ha

With LC

- deduction rate is 7 %

investments have been accelerated by consolidation

- Construction works has been carried on more than 700 km main channels in 2008-2012 continously
- The expropriation expenses were decreased significantly
- The expropriation saving in 3 years is about 300 million \$
- For product losses, 20 million \$ was paid to farmers
- Need 8 Billion \$ to finish all project (Dams, energy, irrigation..)
- Need for LC 700 million \$
- In total, consolidation will save up to 2,4 Billion \$ (2 million ha)