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Land Consolidation in Turkey and Land Consolidation Project at state of Kayseri-Bünyan

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Completed Land Consolidation Projects in Turkey

Year	Hectare
1961-2002	450 000
2003-2007	132 000
2008	430 000
2009	103 000
2010	26 000
2011	601 998
2012	1 210 604
2013	1 036 356
2014	992 827
2015	100 000
Total	5 082 785

In this study, Land consolidation projects in Bünyan was reviewed

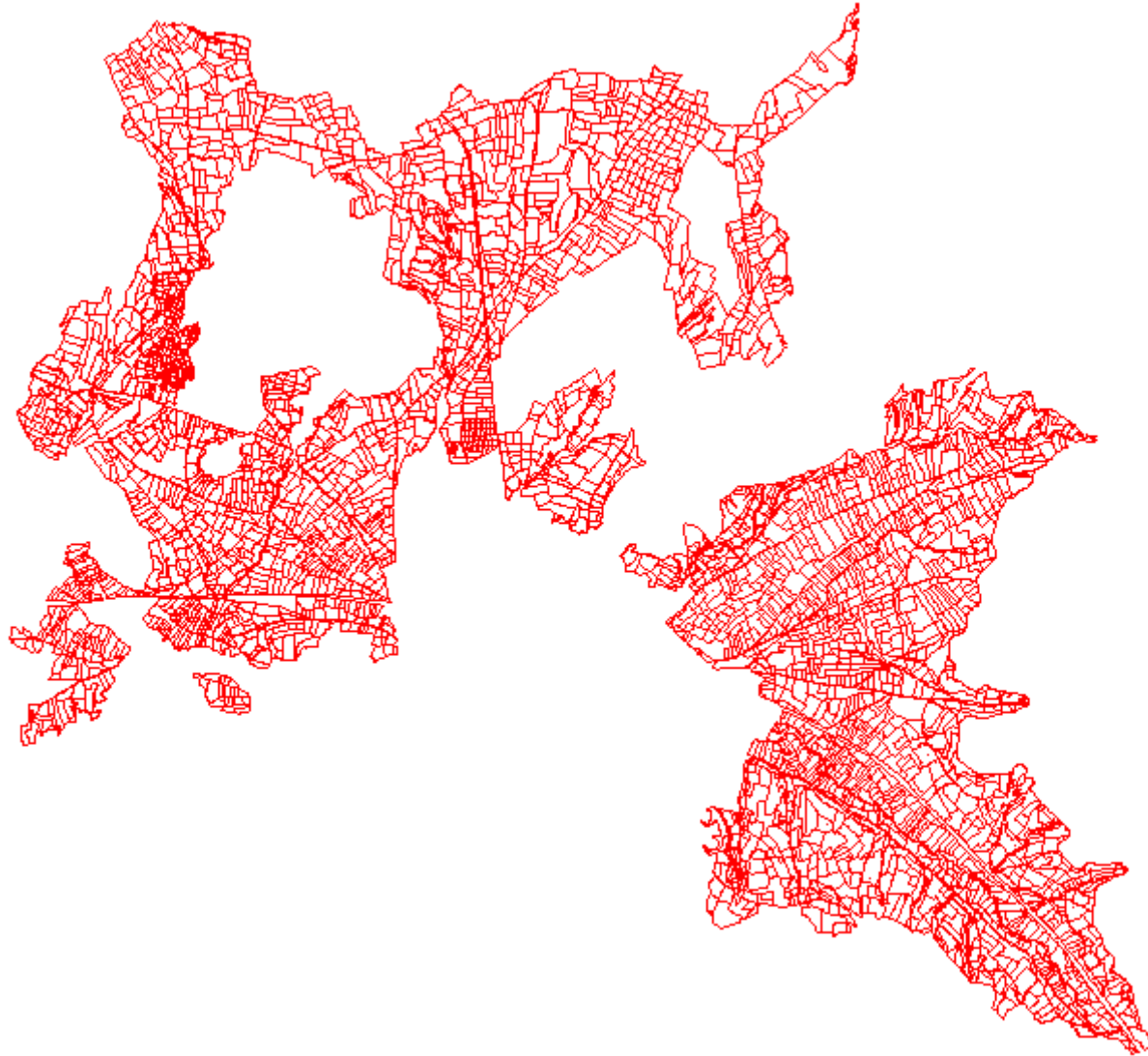
- Reduction in the number of parcels
- Increasing in average parcel size
- Changes in the number of amorphous parcel
- Number of newly formed geometrically shaped parcel
- Changes in the number of parcels with transport before and after consolidation

STUDY AREA BUNYAN-KAYSERİ

Bunyan is a state of Kayseri Province in Central Anatolia, Turkey and it has nearly 540.000 decare land area.



Before land consolidation the project area consisted of 4040 parcels.



The number of parcels was reduced to 2844 after the consolidation



Parcel areas before land consolidation

Area m2	Parcel Number	Ratio (%)
0-5000	1180	29.21
5000-10000	936	23.17
10000-20000	1158	28.66
20000-30000	418	10.35
30000-40000	151	3.74
40000-50000	88	2.18
50000<	109	2.70
Total	4040	100

Ownership state of parcels before the project area

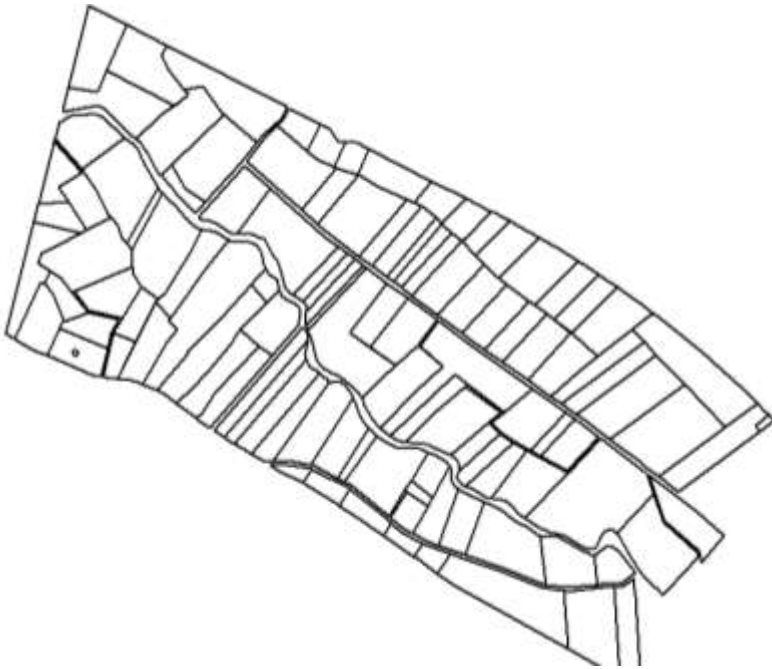
Number of Owners	Number of Parcels	Ratio
Full	3294	81.53
2 Owners	374	9.26
3 Owners	130	3.22
4 Owners	70	1.73
5 Owners	54	1.34
6 Owners	33	0.82
7 Owners	29	0.72
8 Owners	17	0.42
9 Owners	21	0.52
10 and more owners	18	0.45
Total	4040	100

Ownership state of parcels after the project area

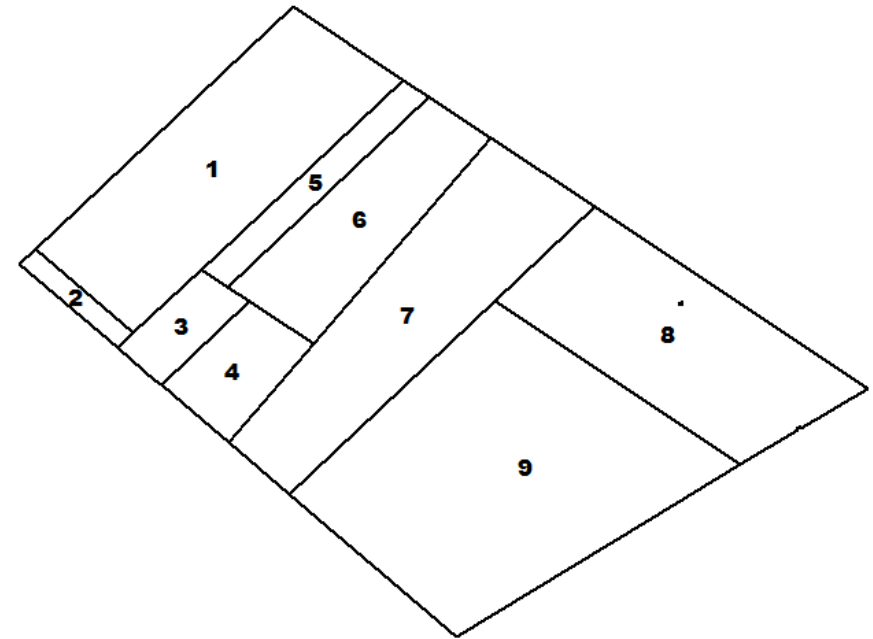
Number of owners	Number of Parcels	Ratio
Full	2319	81.5
2 Owners	254	8.9
3 Owners	82	2.9
4 Owners	57	2.0
5 Owners	42	1.5
6 Owners	29	1.0
7 Owners	24	0.8
8 Owners	12	0.4
9 Owners	17	0.6
10 and more owners	8	0.3
Total	2844	100

Parcel Shapes on the Project Area

The parcels were tried to be created in geometric shapes as much as possible



Before

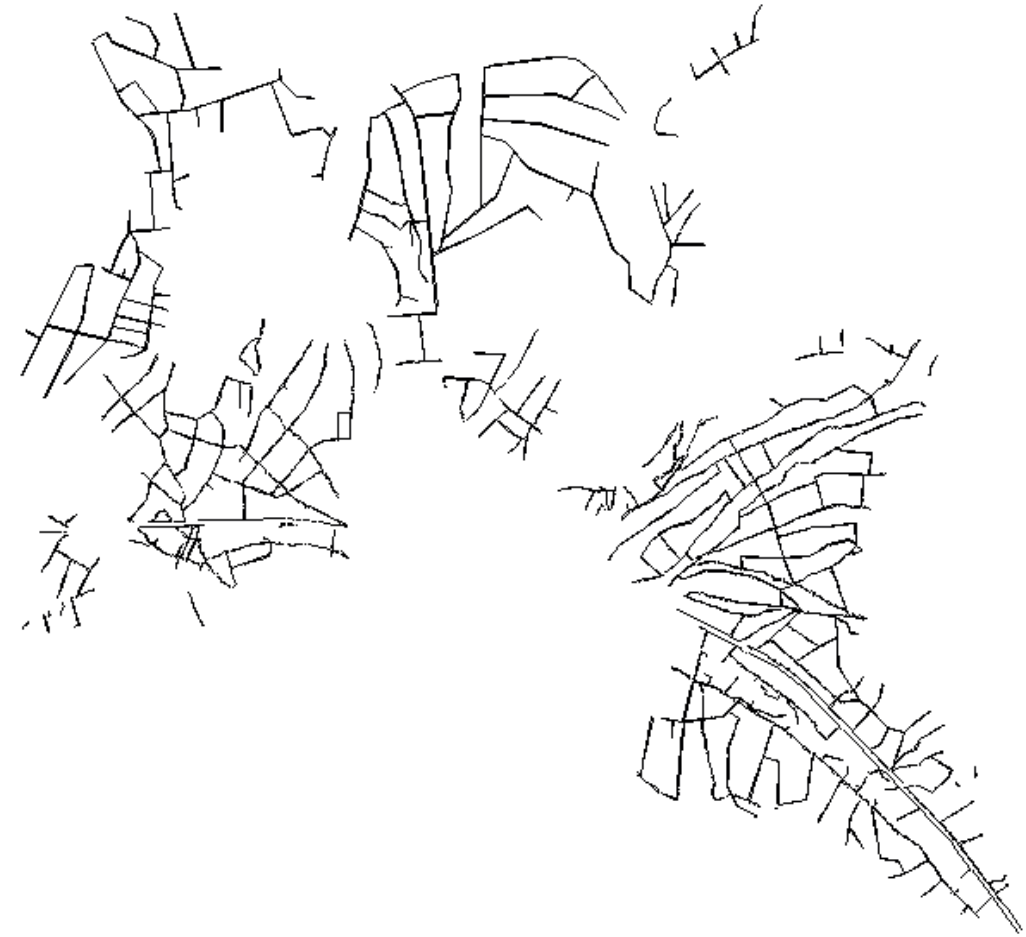


After

Road Network on the Project Area



Before



After

Conclusion

- 4040 cadastral parcels were reduced to 2844 parcel. There was a 29.60 % decrease in the number of parcels in the study area
- The average size of parcels was 15093 square meters before the land consolidation and it went up to 17905 square meters after the land consolidation.
- 1356 parcel is geometrically shaped and 1488 do not because of the structure of the land, gardens, and fixed structures
- New block plans created. By this way , every parcel has a connection to road.
- Existing irrigation network was insufficient and the State Hydraulic Works Administration created new canals and irrigation networks. The newly formed irrigation network provided connection between the parcels and irrigation networks.