





MULTIPURPOSE USE OF ORTHOPHOTO MAPS FORMING BASIS OF DIGITAL CADASTRE DATA AND THE VISION OF THE GDLRC









Base Map Production

In order to complete rural cadastre, 1/5000 scaled base map production has been carried out for 480.000 km² area after 1955 by photogrammetric method ...

Digital Orthophoto production has been started after 2007 for kadastral renowation and update works for the purposes of decision-support, quality control and establishing legal basis







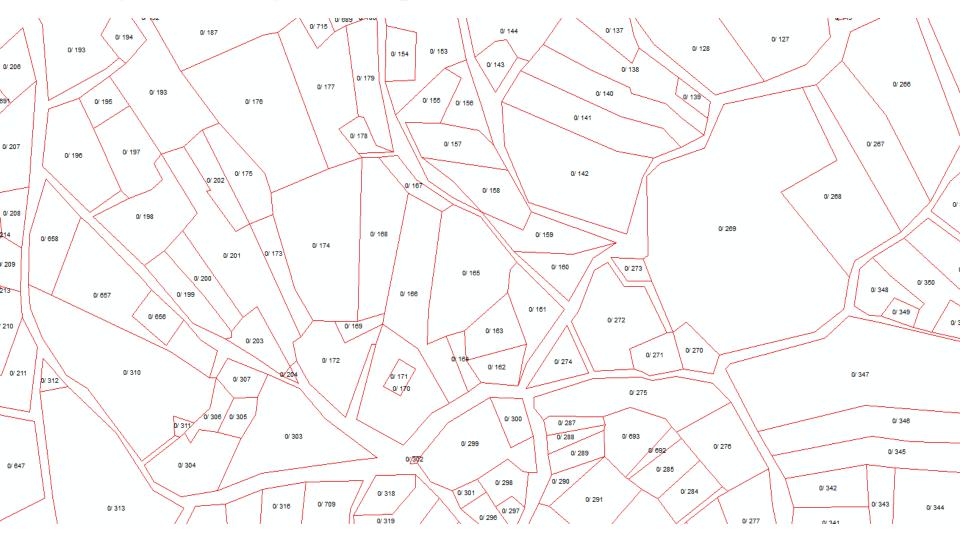








Orthophoto Map – Usage at Cadastre









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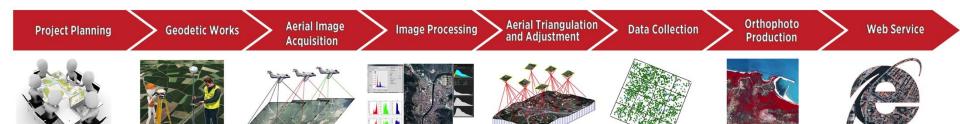


ORTHOPHOTO INFORMATION SYSTEM





Orthophoto Map Production Process











Aerial Image Acquisition

Aerial photography services for aerial image acquisition are provided by 2 airplanes equipt with digital aerial camera in GDLRC



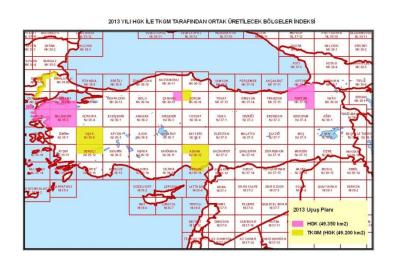


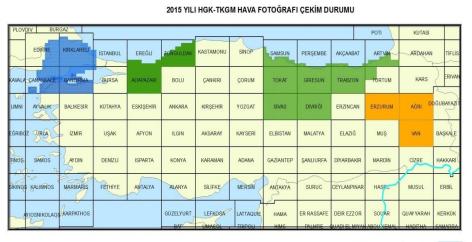




Orthophoto Map Production - Planning

- Considering requests made by the Department of Cadastre,
- Orthophoto map production areas are determined annually within the context of Joint Map Production Protocol signed with the General Command of Mapping since 2010.



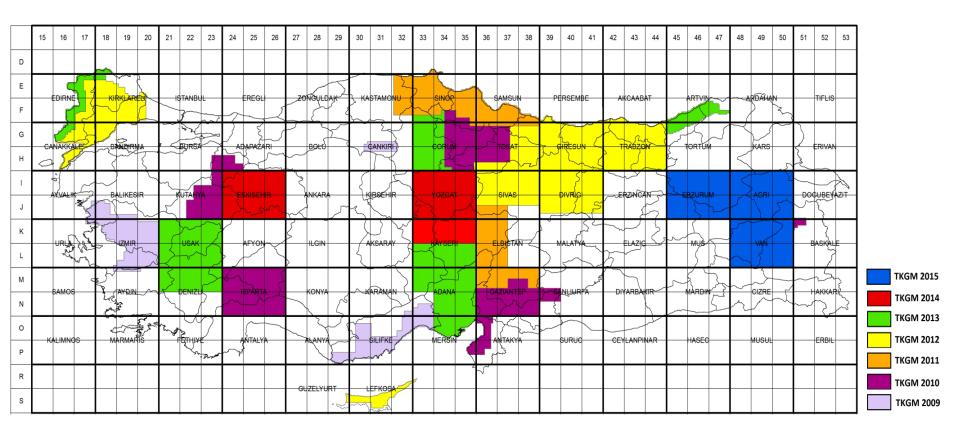








Orthophoto Map Production Situation - GDLRC

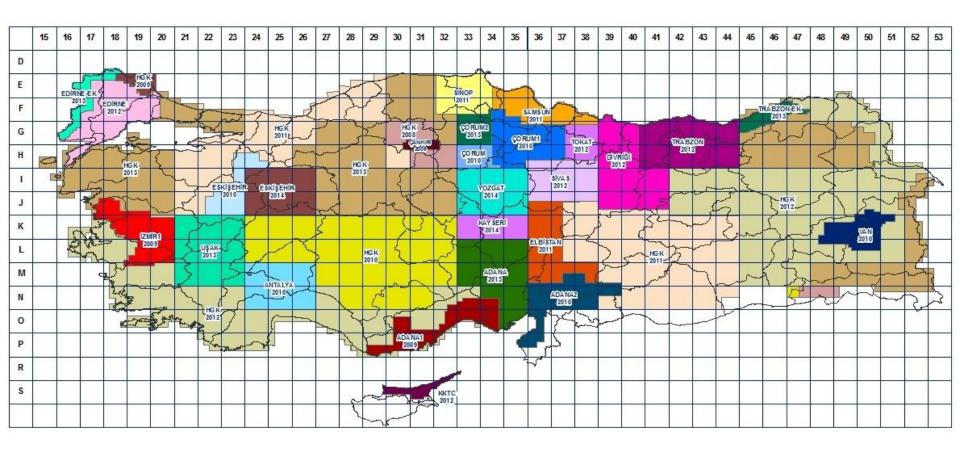








Orthophoto Map Production Situation – General 15-30-50 cm GSD









Orthophoto Maps - Web Services (WMS)







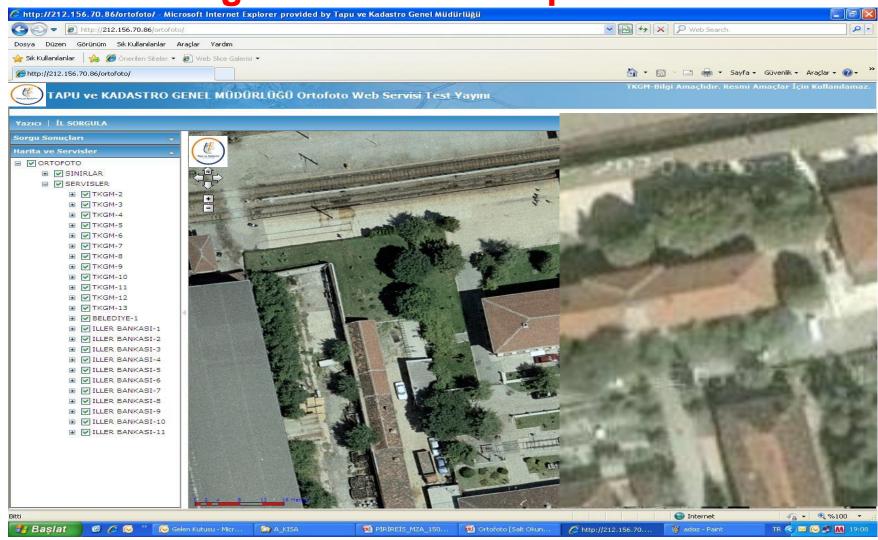
1.75 USD / Km²







WMS - Images taken from Airplane and Satellite



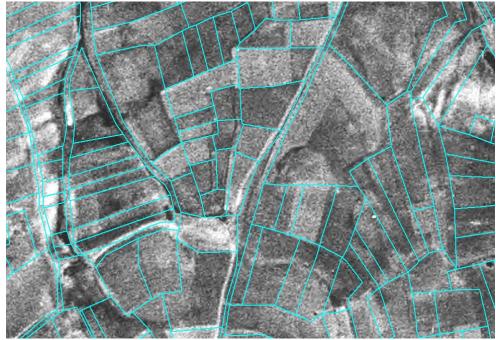






ORTHOPHOTO PRODUCTION WITH B/W ARCHIEVE AERIAL PHOTOGRAPHS









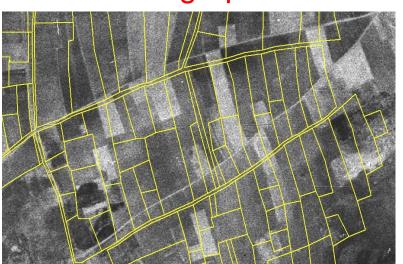


Existing Situation;

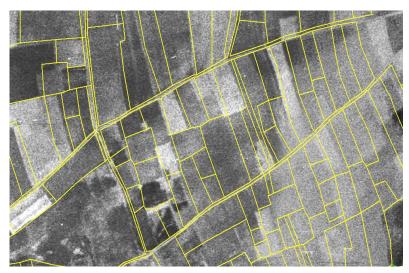
Old-dated aerial photographs within the archieve of GDLRC, whose orthophotos were not produced, are demanded and used by Cadastre Directorates at renewal and update of cadastral maps

It is quite hard to use these images at cadastral works, which are not in orthophoto format, having no coordinates & scale and including errors arising from field slope.

Aerial Photograph+Cadastre;



Orthophoto+Cadastre;



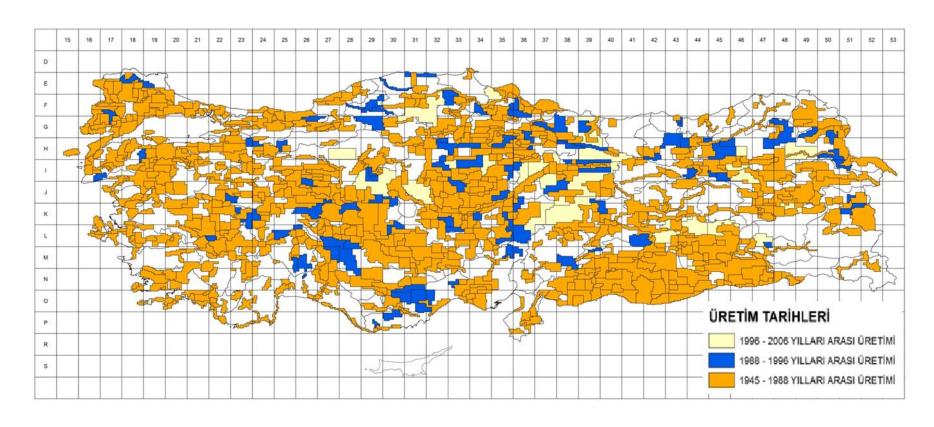






Current

Production of **Archieve Orthophotos** by scanning 1/16.000 scaled aerial photos taken for **1/5.000 scale** standard topographic map production over an area about **480.000 km²** has been contracted. Project is finished by Jan 2016











Malatya 1970



Malatya 2011



Gaziantep İslahiye 1965

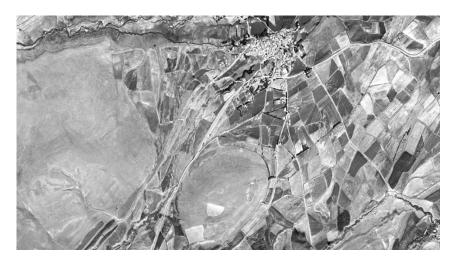


Gaziantep İslahiye 2010











Erzurum Palandöken 1973



Trabzon 1975



Erzurum Palandöken 2011

Trabzon 2012









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