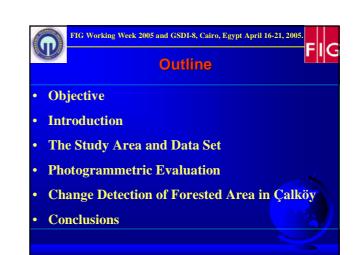


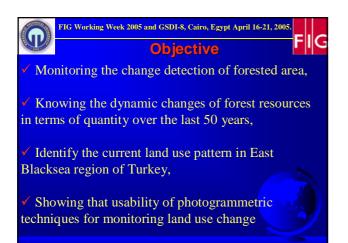
F18 Working Week 2005 and 8501-8 From Pharaohs to Geoinformatics

FIG

Monitoring Land Use Changes and Determining The Suitability of Land for Different Uses with Digital Photogrammetry

> Fevzi KARSLI Karadeniz Technical University Trabzon, Turkey





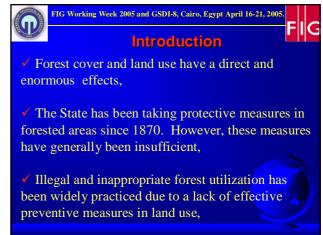
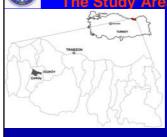


FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Introduction

Photogrammetry become still an important contribution to many disciplines such as foresty,

✓ Remotely sensed data has become the major data source in the change detection of diverse applications including forest cover changes.

### ing Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005



G

a and Data Set ☐ ↓ 
 situates in Çalköy
 district in the East Black
 Sea Region of Turkey
 ✓ has a rugged
 topography
 ✓ has 4318 of population
 ✓ 600 hectares and 1200

m average elevation

<u>Aerial photos:</u> taken in 1955, B/W images, scale of 1/35000; taken in 2002, Color infrared images, scale of 1/16000

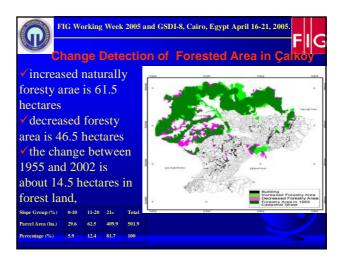


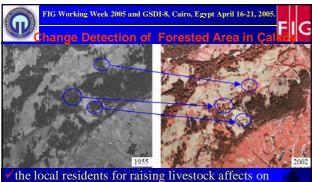
### FIG Working Week 2005 and GSD1-8, Cairo, Egypt April 16-21, 2005. Photogrammetric Evaluation

- ✓ Z/I Imaging Digital Photogrammetric System,
- ✓ Microstation V.8 as CAD tool,
- ✓ Stereo photogrammetric evaluation,

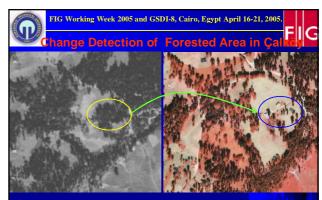
✓ Ground control point (GCP) measurement using GPS (Global Positionin System),

✓ Vector data evaluated by using ArcInfo and ArcView GIS softwares.





✓ area for a sing investock areas on the forest areas,
✓ avaliable 48 houses in outside of the forest area in 1955,
✓ 107 houses in the same area by 2002,



22 houses available in 1955 remained in the same place, 43 houses were built in different places in the forest area

# FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Conclusions

✓ In the result of the study, it can be said that remotely sensed data like aerial images can be used as very handy and appropriate tools for monitoring and change detection.

✓ Local residents have cleaned small cluster forest area and have converted it to farmland and residential areas,

## FIG W

#### FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Conclusions

✓ It is necessary to carry out forest cover monitoring and to warn local government on time on their exceed change,

✓ Developing appropriate planning and management interventions for conservation and sustainable utilization of foresty.

