

Introduction



Digital Satellite Photogrammetric Technique

- ✓ Advent of satellite imagery high-resolution within 0.5m or less
- ✓ Cost-effective and Time-saving way better than Other Techniques
- ✓ Being utilized in many areas, especially in spatial information industry
- ✓ Less contributed to cadastral mapping purpose





Introduction



Why not in Cadastral Area?

- ✓ Still not satisfying positional accuracy because of ownership protection
- ✓ Being likely to cause inconsistency with already existing legal boundaries



Feasibility?

- ✓ In case Area where registration is newly or renewably required
- ⇒ Not associated with existing legal boundaries
- ✓ In case land information management is more important than ownership security
- ⇒ Less influenced by positional accuracy

Current Status(Turkmenistan)



Land affairs in Turkmenistan

- ✓ All nation's lands are owned and managed by the government
- ✓ The government distribute a certain amount of land to household for cultivation
- ✓ Drafting annual report covering land information is as a reference data for taxation and national decision-making
- ✓ Trouble in drafting annual report due to poor quality of reference map and analog method
- ✓ The government has attempted renewal and computerization of land administration for better land information management

Joint Pilot Project for 'The Modernization of Cadastral System in Turkmenistan'

Pilot Project

Title

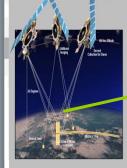
The Modernization of Cadastral System in Turkmenistan

Overview

- Period
- -12.2010~06.2012(18 month)
- Project Area:
- -Baharly, Ahla Velaya(600sqkm)
- Implementing Agency
- Korea Cadastral Survey Corporation
- Major Activities
- GPS Surveying for GCPs observation
- 1:5000 Digital Cadastral map Production
- Land information Management System

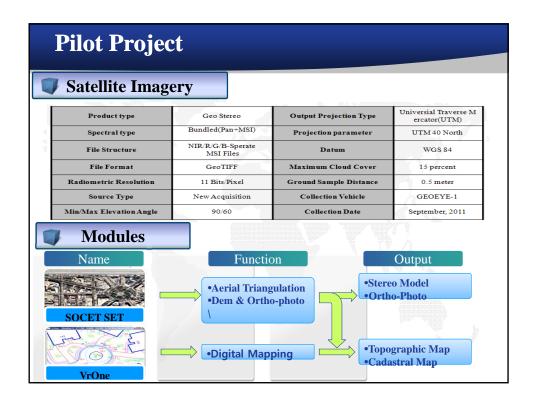
Using Satellite Imagery

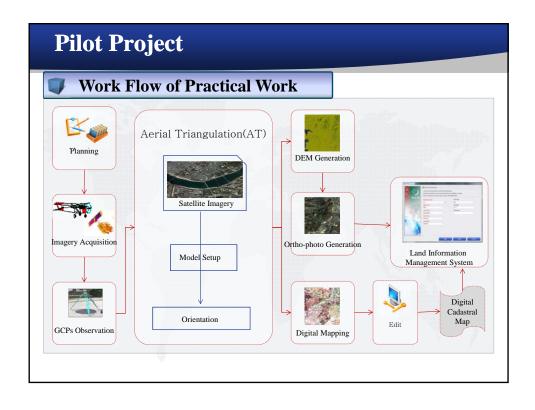
- ✓ Renewably Land Registration
- ✓ For Land Information Management
- ✓ Cost-effective and time-saving way in a wide range of lands

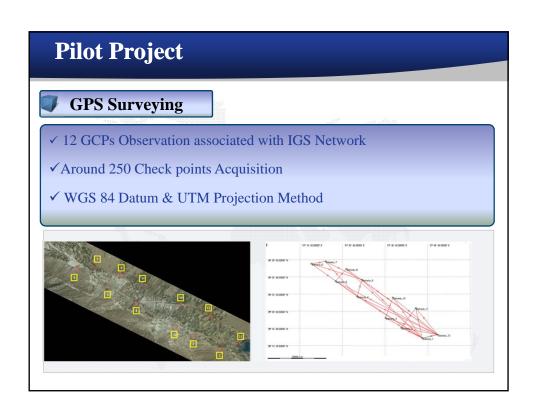


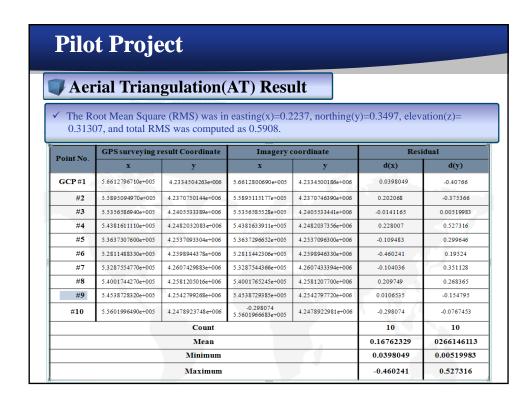


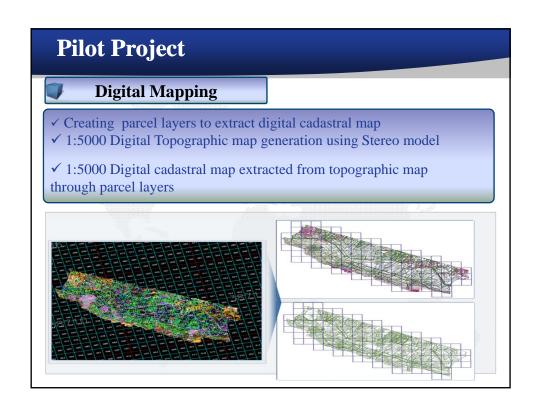










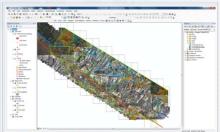


Pilot Project

JLand Information Management System

- ✓ Vector data(Topographic map, Cadastral map) & Attribute data(Land Information) assigned to DBMS
- ✓ Designed to establish infrastructure as to provide reference data for taxation and national decision-making
- ✓ Enables users to register and manage land information in computerized way





Conclusion

Satellite Photogrammetric Technique

- ✓ Has emerged as a new area to deal with mass data in cost-effective and time-saving way
- ✓ Less contribute to cadastral areas due to positional accuracy and inconsistency with existing legal boundaries
- ✓ Could be an alternation solution In case newly or renewably land registration is required, or land information management is top priority

Through Pilot Project in Turkmenistan

- ✓ Attempted land registration renovation through pilot project
- ✓ Generating1:5000 topographic map and cadastral map
- ✓ Establish land information management system, which enables computerization of land administration