

**17TH SESSION OF THE INTERGOVERNMENTAL
CONSULTATIVE COMMITTEE MEETING ON THE REGIONAL
SPACE APPLICATIONS PROGRAMME FOR SUSTAINABLE
DEVELOPMENT**

24 - 27 November 2013, Bangkok, Thailand

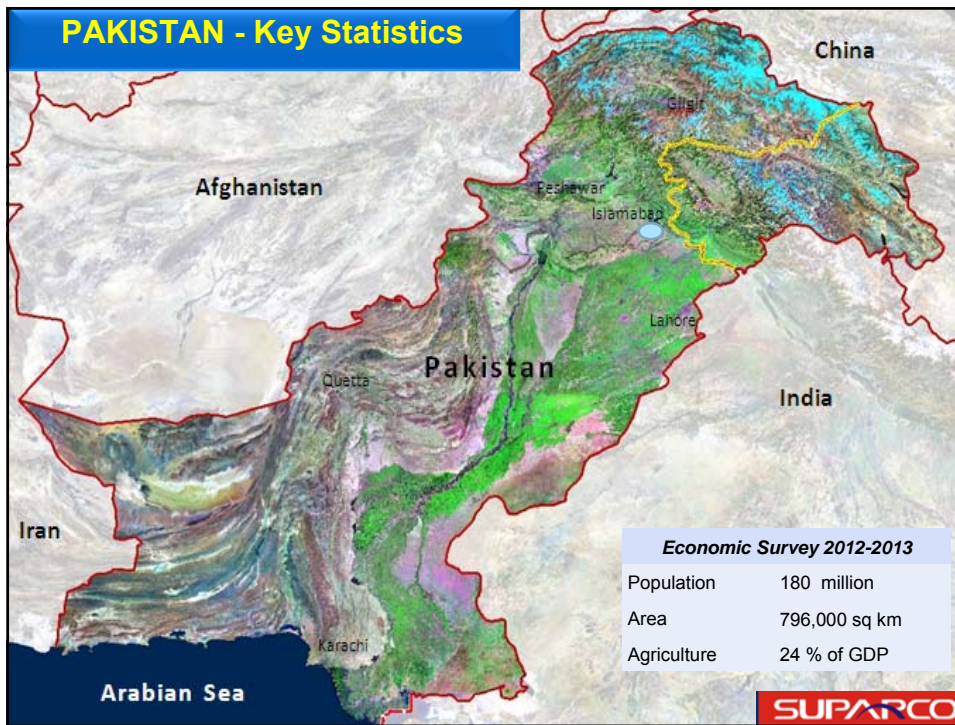
**ACHIEVEMENTS OF APPLICATIONS OF SPACE TECHNOLOGY IN
PAKISTAN TO SUPPORT SUSTAINABLE DEVELOPMENT**

SUPARCO

SEQUENCE OF PRESENTATION

1. Pakistan - Key Statistics
2. 50 Years of Pakistan Space Programme
3. Earth Observations and Its Applications
4. International Collaboration
5. Conclusion

SUPARCO



50 YEARS OF PAKISTAN NATIONAL SPACE PROGRAMME





Space Vision 2040 stands approved

Long term development program approved

Granted the status of Commission

Renamed as SUPARCO

Space Sciences and Research Wing established

1981 1982 1984 2011





Mandate

- Carry out R&D activities in the field of Space Sciences & Technology
- Promote space applications for socio-economic development of the country

SUPARCO

EARTH OBSERVATIONS AND ITS APPLICATIONS

- Earth Observation and its applications has contributed significantly to national development and better management of available resources.
- The priority areas are:
 - Agriculture and food security
 - Health and education
 - Hydrology
 - Disaster monitoring and mitigation support
 - Environment, climate change and snow / glacier monitoring
 - Urban planning
 - Land cover Mapping
 - NSDI
 - Coastal and marine resources
 - Geology and mineral prospection
 - Forestry

The logo for SUPARCO, consisting of the word "SUPARCO" in white capital letters on a red rectangular background.

AGRICULTURE AND FOOD SECURITY

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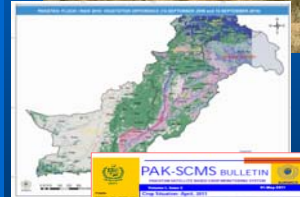
SATELLITE BASED CROP MONITORING SYSTEM

On going project on the improvement of national and provincial capacity to collect and analyze agricultural information and deliver accurate, reliable, timely, precise and cost effective agricultural statistics using satellite and ground based observations to address issues of national food security.

This is being obtained through:

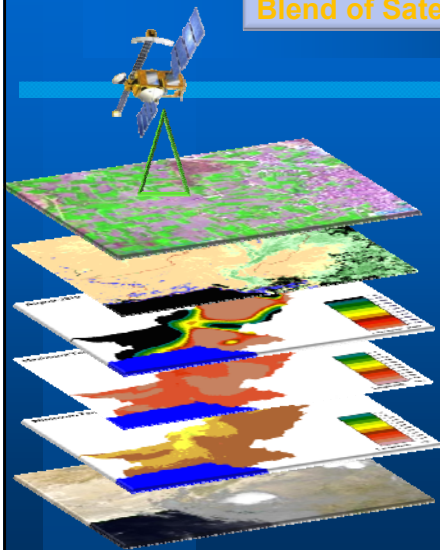
- integration of remotely sensed data into existing data collection, analysis, and dissemination systems
- design and implementation of rigorous agriculture and rural survey methods (e.g. area frame and crop yield models)
- improvement of quality and outlook of current crop forecast/estimation bulletins
- development of human resources and technical capacities

Wheat Harvesting in Fatehjang, District Attock



CROP MONITORING SYSTEM

Blend of Satellite and Ground Systems



SPOT 5 (2.5, 5, 10 m)

SPOT VGT 1000m

Ancillary Ground Data

Rainfall

Max Temp

Min Temp

Irrigation

Fertilizer

Field Info

Analysis

Forecast/Estimation

Development of agricultural masks for all major crops

FAO, UN, SUPARCO collaborative project

Objectives

- To develop agricultural mask showing distribution of different seasonal crops
- To understand the pattern of different main crops in response to market condition
- Assess the changes in agricultural land use
- Database development on spatio-temporal variation of different crops

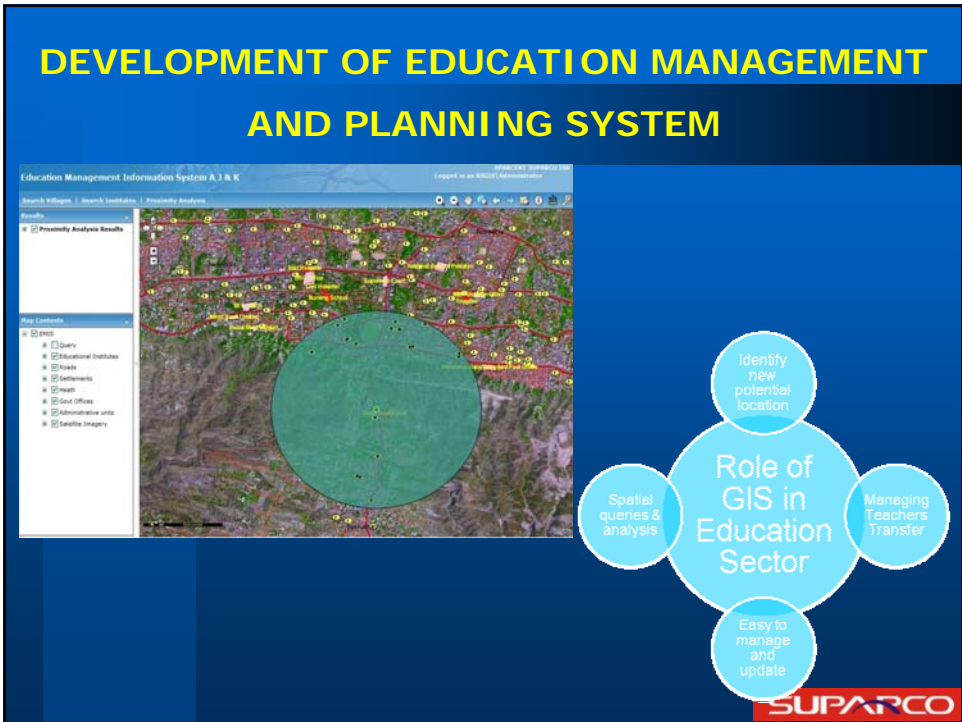
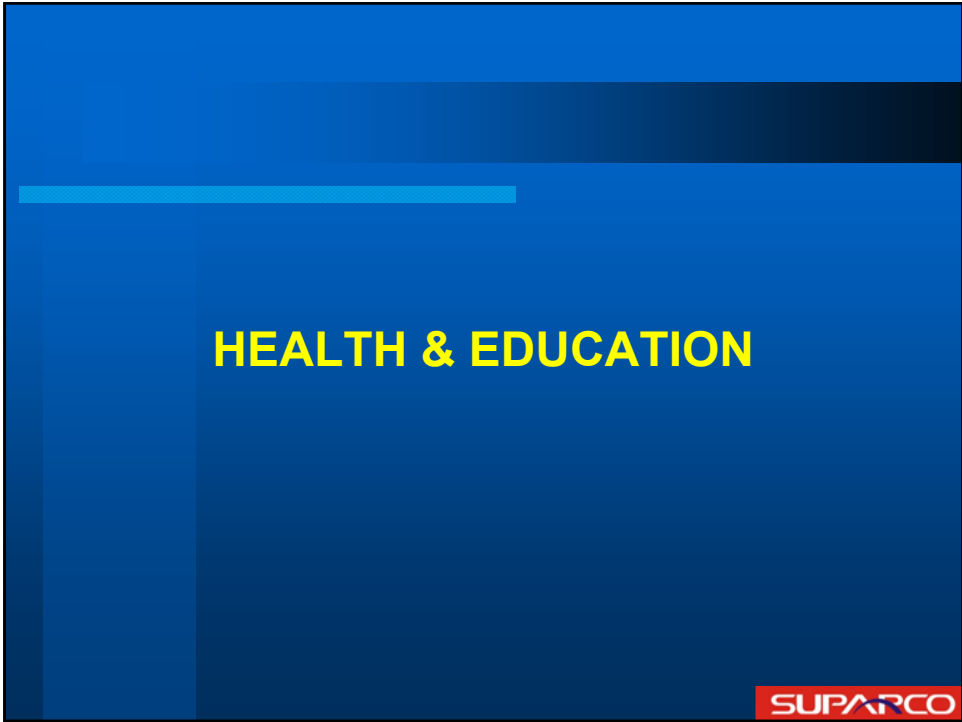


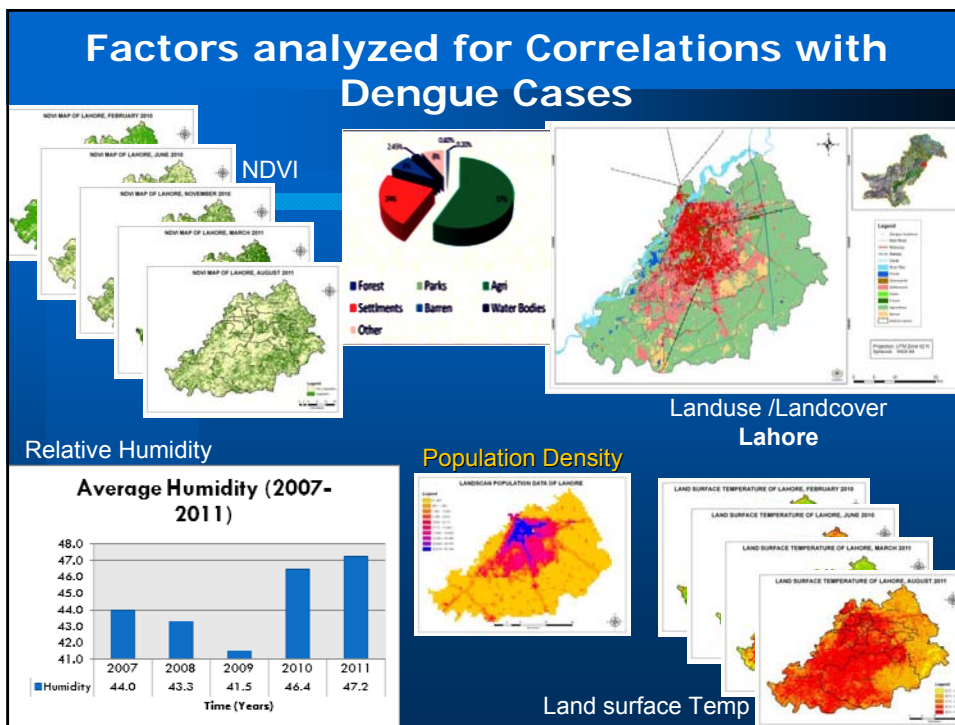
PAK-SCMS BULLETIN

A monthly Pakistan Satellite based Crop Monitoring System (Pak-SCMS) bulletin is being issued

<http://www.suparco.gov.pk/pages/pak-scms.asp>

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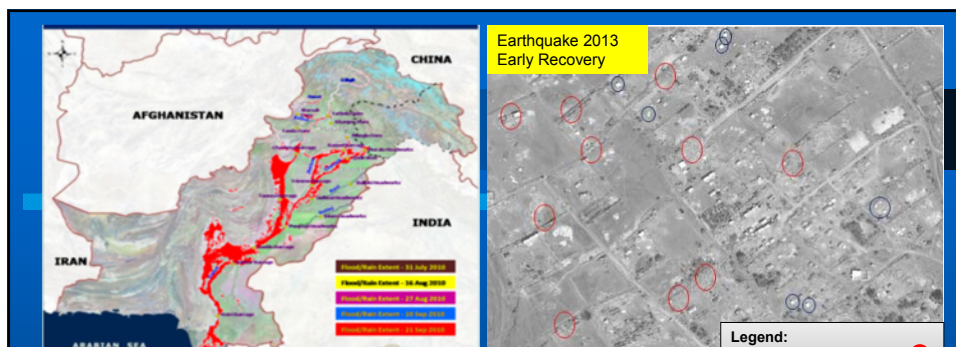


DISASTER MONITORING AND MITIGATION SUPPORT

SUPARCO

MAJOR DISASTER MONITORING AND MITIGATION SUPPORT

- Since the earthquake of 2005 satellite imagery has been extensively utilized for relief/rescue, early recovery and rehabilitation/reconstruction efforts.
- SUPARCO & UN Office of Outer Space Affairs (UNOOSA) signed a cooperation agreement for establishment of UN-SPIDER Regional Support Office (RSO) during 47th Scientific & Technical Subcommittee Sessions on Peaceful Use of Outer Space (COPOUS) on 10th Feb 2010
- PAK_RSO is Responsible for provision of timely space based information incase of major disaster in the region. It also undertakes awareness, capacity building and technical advisory support of organizations involved in disaster management and mitigation. The PAK-RSO operates on 24/7 basis.



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_6149

