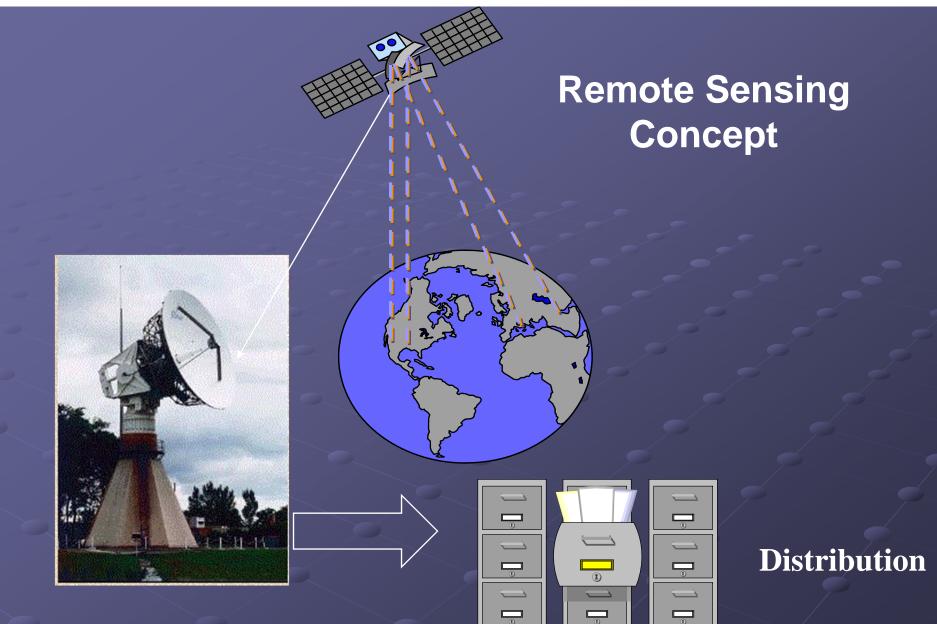
INTRODUCTION TO REMOTE SENSING



What is Remote Sensing?
History of Remote Sensing
Remote Sensing Basic Processes
Advantages of Remote Sensing
Remote Sensing Applications
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What is Remote Sensing?

"The art, science, and technology of obtaining reliable information about physical objects and the environment, through the process of recording, measuring, and interpreting imagery and digital representation of energy patterns derived from non contact sensor system "



Receiving station processing

Archiving

History of Remote Sensing

1972 - 1978: Landsat Series (US Landsat1 to 6)

1986: France launched the first satellite (SPOT1)

IKONOS (2002)

Quckbird (2006)

GeoEye (2008)

Advantages of Remote Sensing

Provides a regional view (large areas)
Provides repetitive looks at the same area
Provides geo-referenced, digital, data

Remote Sensing Applications

Land-use mapping
Forest and agriculture applications
Environmental applications
Hydrology and coastal mapping
Urban planning
Emergencies and Hazards Management
Global change and Meteorology

Remote Sensing Organizations

- ISPRS- International Society for Photogrammetry and Remote Sensing
- NASA -National Aeronautic and Space Administration (USA)
- ESA- European Space Agency (Europe)
- NASDA- National Space Development Agency (Japan)
- CNES- Centre National d'Etudes Spatiales (France)
- DARA- German Space Agency
- CSA Canadian Space Agency
- NRSA- National Remote Sensing Agency of India