



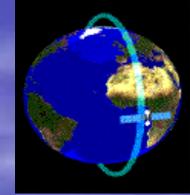
**The Egyptian Space
Program
& its Role in the
Sustainable Peaceful
Development of Egypt,
Middle East & Africa**

Dr. Hamdy A. Ashour

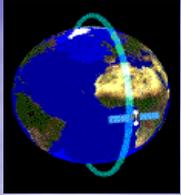
NARSS



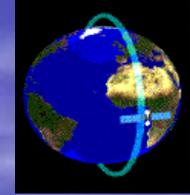
Objectives of Egypt's Space Program



- Launching and operation of a series of three satellites:
 - Egypt-Sat 1 Launched successfully on April 17, 2007.
 - Egypt-Sat 2 Planned to be launched in 2012.
 - Desert-Sat Planned to be launched in 2017.



Objectives of Egypt's Space Program

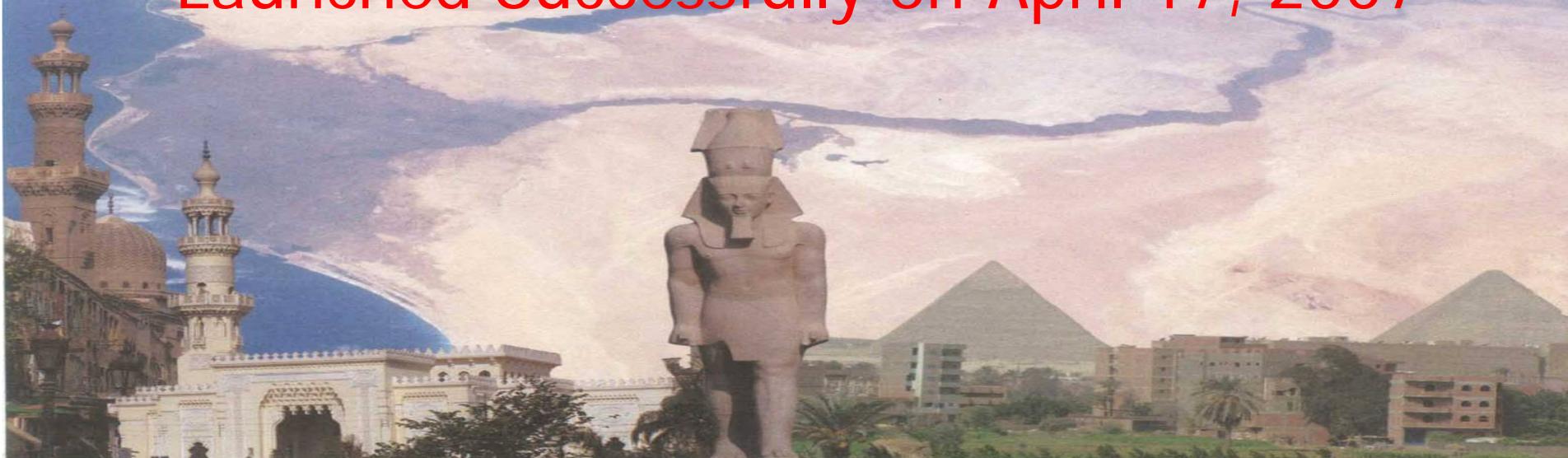


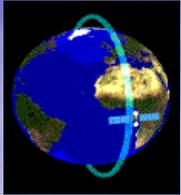
- The objective of the three satellites is to provide images for Egyptian lands necessary for the purpose of comprehensive peaceful sustainable development of the country.

EgyptSat-1

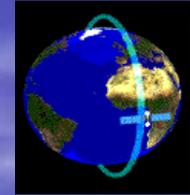


Launched Successfully on April 17, 2007



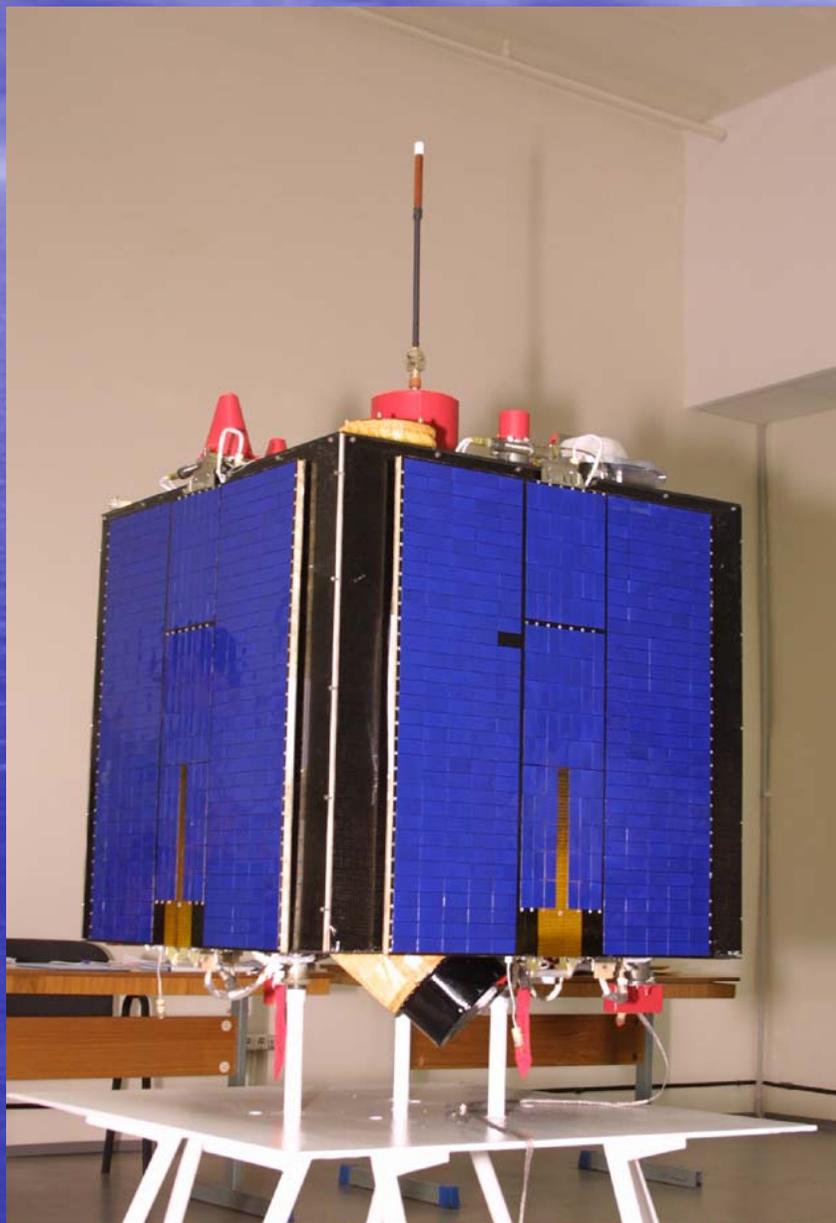


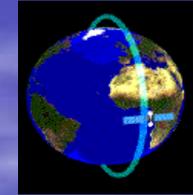
Objectives of Egypt's Space Program



- Egypt Sat-1 satellite is a research satellite for peaceful uses which has been designed, built and tested by the Ukraine with the continuous participation of Egyptian engineers. It has:
 - A polar orbit of about 700 m.
 - An image resolution of about 8 m.
 - A multi-band earth imager.
 - A near infra red camera.
 - Provides a complete coverage of Egypt in 70 days.
 - Useful Operation Period of 5 years

Engineering Model of Egypt-Sat 1





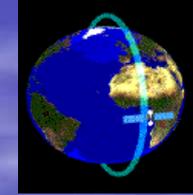
Objectives of Egypt's Space Program

- Egypt Sat-2 will be a similar but not identical satellite to Egypt Sat-1 with much greater contribution by Egyptian Engineers.



Objectives of Egypt's Space Program

- Desert Sat will be concerned with the peaceful exploration and observation of Egyptian Deserts.



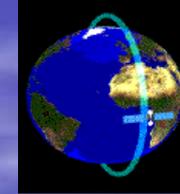
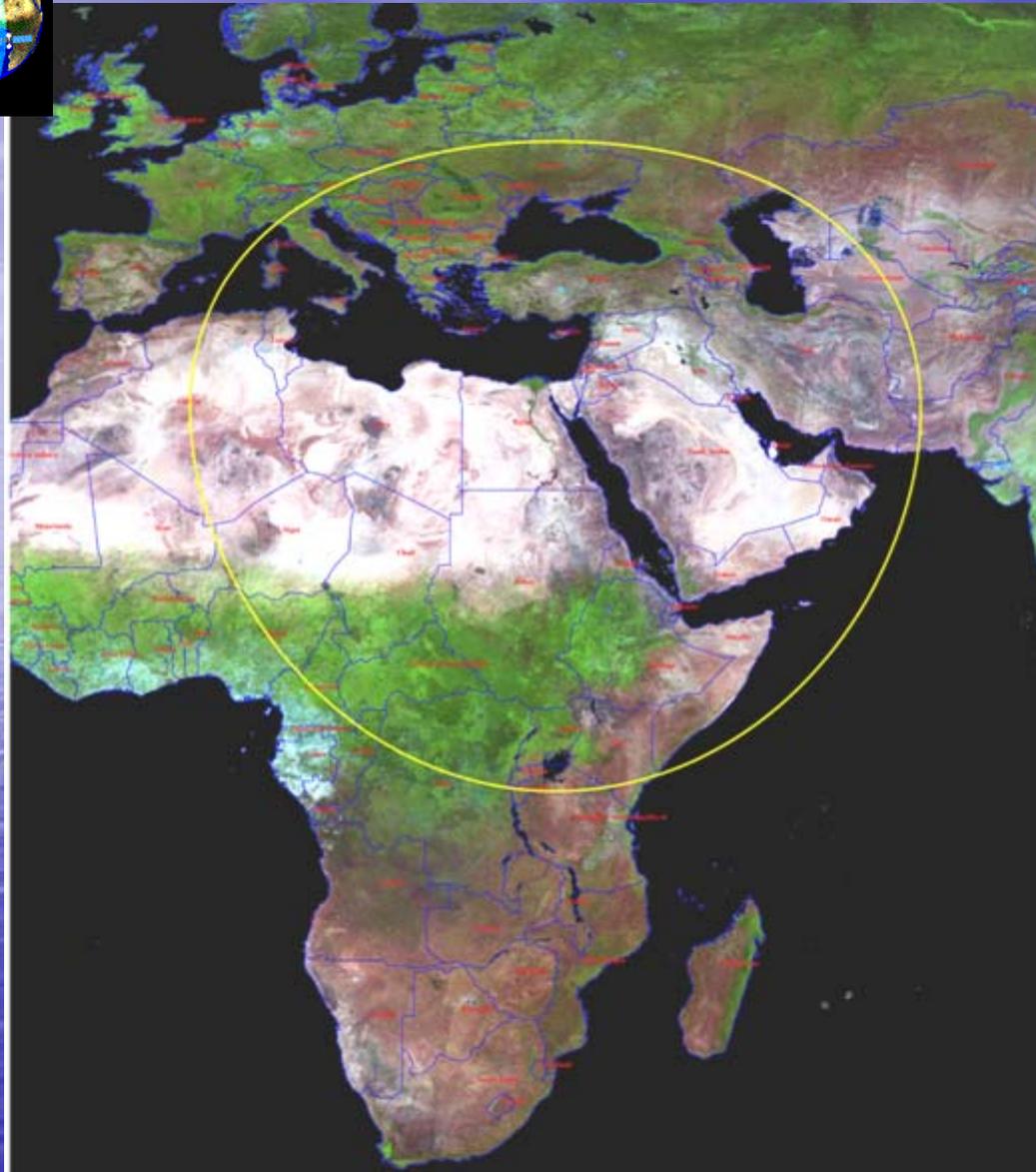
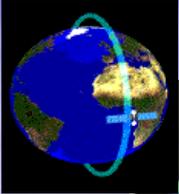
Egypt's Space Program

- Egypt has a control station for its satellites near Cairo.
- Data receiving stations are near Cairo and in Aswan at the extreme south of Egypt.
- Data coverage of Aswan Station includes south Europe, middle East and a good part of Africa.
- Data are currently received from NOAA, Spot & Land Sat satellites.



Aswan Receiving Station



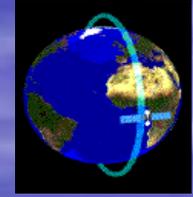


*ASWAN Receiving Station
Coverage*

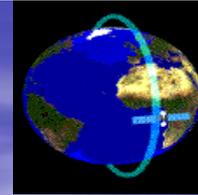
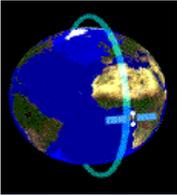
- Egypt*
- Arab countries.*
- Central Africa*
- South Europe*
- west Asia*



Aswan Receiving Station



- Countries within the coverage area of Aswan station can request images from Land Sat & Spot Satellites for the purpose of peaceful sustainable development of their lands.



**THANK
YOU!**