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

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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.
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 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!