

# Land Surface Imaging (LSI) Virtual Constellation

Co-Leads:

U.S. Geological Survey (USGS), Indian Space Research Organization (ISRO), and the Instituto Nacional de Pesquisas Espaciais (INPE)



SIT-26 – Frascati, Italy 24-25 May, 2011



## **Status Report**

- LSI Portal Enhancements
- LSI Mid-Resolution Optical Guidelines
  Document
- LSI Freeware Tools
- LSI Support to:
  - GEO FCT/GFOI Task
  - JECAM (new)

(To be covered else where on the agenda)



### **LSI Portal Enhancement**

- Expand functionality to include cross-system, granule-level, search and data retrieval
  - Highest priority: The addition of a prototype map-based query and direct data download capability to the Portal using CWIC as the interface to the member data systems.
  - CWIC will provide an access point for major CEOS agency catalog systems.
- CEOS Plenary in Rio: CEOS initiated a review and assessment of CEOS GEO Portals
  - CWIC implementation within the LSI Portal **on hold** pending the recommendations from portal assessment.
  - Request support from SIT to finalize a way forward resulting from the CEOS GEO Portal Assessment

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## **CE** LSI Mid-Resolution Optical Guidelines

#### **On Going Progress**

**01-Mar-2011**: Complete 2nd draft report for review by the LSI Constellation Team.

**01-Jun-2011**: Complete 3rd draft report for review by the LSI Constellation Team.

**30-Sep-2011**: Final report completed and presented at the CEOS SIT Workshop.

**October 2011** - submit a plan for use by the land imaging community at the CEOS Plenary

CEOS SEO Points of Contact: Jennifer Keyes (Jennifer.P.Keyes@nasa.gov) Brian Killough (Brian.D.Killough@nasa.gov) SIT-26 – Frascati, Italy 24-25 May, 2011



### LSI Freeware Tools (INPE)

### **On Going Progress**

**16 Feb 2011**: Release of stand-alone command line orthorectification tool. (<u>http://www.ceos.org/LSI</u>)

INPE recently coordinated the development of a new tool, the MS3Ortho, a significant contribution to the LSI Constellation and CEOS. MS3Ortho is a stand-alone command line orthorectification tool that implements two algorithms: the standard ortho process using RPC files and a rigorous model that uses ephemerides, attitude and the camera geometric model. It supports most mid-resolution sensors that are available: Landsat, ResourceSat, and CBERS.

**April 2011**: beta version of SPRING freeware GIS with orthorectification; final release in August 2011.

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## FCT/GFOI and JECAM

- LSI Support to FCT/GFOI and JECAM previously discussed
- LSI is committed to on-going support of both FCT/GFOI and JECAM