



Know the Earth...Show the Way

NGA Commercial Imagery Program JACIE Workshop

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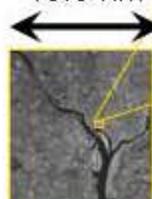
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► Unclassified Imagery: “We’ve come a long way”

Full Landsat 7 scene
183 km



Full QuickBird
Scene
16.5 km



50 km

QuickBird 2 (16.5 km x 16.5 km)

IKONOS II (11 km x 11 km)

OrbView-3 (8 km x 8 km)

Landsat 7 Scene at
Full Resolution (30 m)



DigitalGlobe
QuickBird Scene at
Full Resolution (61 cm)



Data Comparison

Landsat 7

- 6 MS bands, 30 m
- 1 Thermal band, 60 m
- 1 Pan band, 15 m
- Total data set size
 - 33,300 km²
 - 406 MB (8 bpp)

QuickBird 2

- 4 MS bands, 2.44 m
- 1 Pan band, 0.61 m
- Total data set size
 - 272 km²
 - 1,511 MB (11 bpp)

**NextView-era
imagery will have
18-33% better
resolution**

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► Commercial Imagery: “Imagery Ready for Use”

- Today
 - Electronic Access in all security domains
 - IKONOS, Quickbird, Orbview-3
 - “NextView” License
 - Physical media ordering/dissemination from CSIL
- Coming Soon
 - Unclassified GBS dissemination
 - Streaming imagery via WARP-UNIL
 - “NextView” Satellite (0.5m) imagery
 - Limited UNIL storage of non-NITF imagery
 - Radarsat
 - SPOT
 - Landsat
 - Aerial

► Commercial Imagery: “Integral to our mission”

- Support to US & Coalition forces
- Urban Atlases
- City Map Books
- Controlled Image Base ®(CIB ®)
- Orthorectified products
- HarborView ® program
- Stereo Airfields

► Commercial Imagery: “Getting the word out”

- Outreach program
 - 44 site visits in FY06; increased demand in FY07
 - DoD Commands & Services/NATO/Civil Agencies
- Commercial Remote Sensing Guidebook
 - Version 2 delivery in Summer 2007

► Commercial Imagery: What's "Next"?

- WorldView-1/GeoEye-1 Launches
- Enhanced Integration in NGA Architecture
 - Integrated Exploitation Capability (IEC)
 - National Exploitation System (NES)
 - Integrated Exploitation Support System (IESS)
 - GeoScout Block II (RTM)
- Services (aka "Citysphere")
- Vendor products
- New Sources

► Summary

- NGA is *aggressively* integrating commercially remote sensed imagery into its business plans, processes and architecture
- Commercial imagery is an *essential* source for NGA's users/partners and the production of Geospatial Intelligence
- NGA is developing a growing partnership with industry to leverage its capabilities to meet the mission needs of our users