



*Know the Earth...Show the Way*

## Consolidated Lessons Learned from NGA sponsored crosswalk with Fed/Civ community

Presented on: 2 May 2006

TO: ASPRS sponsored Lessons Learned Working Group

**Presenter: Peter Paquette**

**(703) 735-3530**

**[Peter.j.paquette@nga.mil](mailto:Peter.j.paquette@nga.mil)**

# ► OVERVIEW

- What worked well?
  - Communication/Collaboration
  - Data Format
  - Discovery of imagery
  - Outreach Support
- Areas for Improvement
  - Data Standards
  - Architecture: (interface and capacity)
  - Tasking Processing Exploitation Dissemination Process
  - Data Format
  - Data Dissemination

# ► What worked well

- **Communication/Collaboration:**
  - NGA & USGS Teleconferences/notes
  - Subject Matter Experts on-line for services
  - Follow-up on actions timely
  - Partnerships with Vendors
  - Data sharing (licenses relaxed)
- **Way Forward:** Continue teleconferences in future disaster operations

# ► What worked well

- Data Format:
  - GIS ready imagery format
  - Pan Sharpen Orthorectified GEOTIFF Product
- Way Forward:
  - The first clear image will be requested as a 16 bit NITF and a pan sharpened 8 bit GEOTIFF to be delivered as quickly as possible
  - Same image should be used to create an orthorectified pan sharpened GEOTIFF to be delivered as soon as possible

# ► What worked well

- Discovery of imagery:
  - NGA's Website, Commercial Satellite Imagery Library, WARP Retrieval and query
  - USGS – EDC website (archive/dissemination)
    - Creating georeferenced browse images available for viewing or downloading
    - Posted imagery with 24 hours of collection
  - Vendors archives
- Way Forward: Continue improving search and discover websites/tools

# ► What worked well

- Outreach support:
  - NGA's Commercial Imagery Reps
  - Vendors GIS Technical Support
- Way Forward: Continue outreach support in future disaster operations

# ► Areas for Improvement

- Data Standards:
  - Inconsistent Naming conventions
  - Vendor creates an image ID, NGA renames it to fit inside our archives, EDC renames it to fit in their archives variety FTP sites
- Way Forward: NGA provided Nextview vendors with Statement Of Work (SOW) outlining the standard naming convention for NextView data.

# ► Areas for Improvement

- **Architecture: (interface and capacity)**
  - Some customers unable to get to NGA's website or couldn't download due to bandwidth capacity
  - Connectivity unreliable in the field.
  - Some customers require special interfaces to gain access to agencies systems
  - Volumetrics scaled to pipe size
- **Way Forward:** NGA working to provide streaming, chipping capability, and increasing bandwidth on both ends

# ► Areas for Improvement

- Tasking Processing Exploitation Dissemination Process
  - Manage Expectation with Timelines
  - Requirements flow during crisis
  - Collection Strategy
  - Prioritization of requirements
  - List of sources and products available
- Way Forward: Work In Progress

# ► Areas for Improvement

- Data Format:
  - Converting to Orthorectified GEOTIFFs
  - JPEG 2000, Compression
  - Converting to 8 bits
  - Mosaic product
  - Processing level
  - Minimum metadata
- Way Forward: Work In Progress

# ► Areas for Improvement

- Data Dissemination:
  - Central Repository (unclassified)
  - File size (increase bandwidth)
  - Packaging for delivery (<2 gigs)
  - DVDs, Firewire, FTP sites
  - Delivery delays due to certain USPS restrictions
  - Time/Stamp Date important (Pre-post Katrina)
  - Not always timely due to processing
  - Delivery options for areas with little infrastructure
- Way Forward: Work In Progress



# QUESTIONS?

# NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY ▼

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