



Know the Earth...Show the Way

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

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TO: ASPRS sponsored Lessons Learned Working Group

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► 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 ▼



➤ *Know the Earth...Show the Way*

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