NVision Solutions - Who Are We

Geographic Information Systems
- Data Production
- Application Development
- System Support

Remote Sensing – Feature Extraction

Database development/deployment

Software Development
- Enterprise
- Desktop
- Web-based

Program Support
- On site
- Off site
Awards

- 2002 ESRI Special Achievement in GIS (SAG) award
- 2004 Louisiana Technology Innovator of the Year
- 2005 Mississippi Small Business Innovator of the Year
- 2005 ESRI New Business Partner of the Year
- 2005 ESRI Special Achievement in GIS (SAG) award
- 2006 Tibbett’s Award for Excellence in Federal Research
- 2006 SBA Small Business Person of the year in Mississippi
- 2007 Top 20 in NASA Innovative Partner Program
Where Are We Located

Located in Hancock County on the MS Gulf Coast
EOC presence since 2003
NIMS ICS Certified
  At least ICS 200
114,000 man hours in active EOCs
  St. Tammany Parish
  Jefferson Parish
  Hancock County
  FEMA
55 man years corporate experience
Post-Katrina - What We Did

- Maps
- Charts
- Damage Assessment
- Analysis
- Data Mining
- Data Creation
- Data Sharing
- Data Management
- Data Recovery
- Basic IT Support
- Low-level Training
- GIS Outreach
Problems – Solutions

**Problem** – Difficulty in tracking products due to volume of requests

**Solution** – Map Request form
- Allowed tracking of map creation
- Provided product use analysis
- Prioritized importance of specific products
Map Request Form

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Position (Please Circle One):

- [ ] EBT Transportation
- [ ] EBT Social Services
- [ ] EBT Animal Control
- [ ] Other

Jurisdiction:

- [ ] City
- [ ] County
- [ ] State
- [ ] Federal
- [ ] Other:

Quantity: ___________ Map Size: 9x11 11x17 17x22 22x28 34x44

Description: ________________________________

Production Tracking
6 Month Map Production – Gulf Coast FEMA Office

Biloxi FEMA AFO Cumulative Totals

- Cumulative Created
- Cumulative Printed
6 Month Map Production - Hancock EOC
Problems – Solutions

Problem – Responders/Managers unsure of how to ask for what they needed
- Usually needed basic navigational maps
- Required quick turnaround of product to get back into field

Solution – Maps2Go
- Numbered and displayed frequently-requested maps
- Pre-printed maps to provide instant turnaround
- Simplified request process for basic maps
Problems – Solutions

Problem – Make GIS accessible to public and response groups

Solution – No restricted access at the EOC
- Central, well-identified location
- Anyone could request maps
- Data accessible to anyone at the EOC
Problems – Solutions

Problem – Intermittent power and network issues
- Set up quickly to start generating products
- Power outages cost more time than just the outage

Solution – Backups, UPS, Static/Reserved IP Addresses
- UPS on everything, including printers/plotters
- Static/Reserved IP addressing sped up recovery time
- Central data repository storage (ArcSDE) with backup schedule
Problems – Solutions

Problem – Frequent need to share/update data to other organizations
- Facilities, PODs, Gas Stations, Kitchens, Open Businesses, etc. changed daily
- Tried using different solutions at the time (Microsoft Groove, FTP, “sneaker net”)

Solution – ERDAS TITAN
- Geospatial data-specific
- Permissions-based
- Data sharing and real-time communication
- Data streaming
ERDAS TITAN
Data Acquisition/Sharing

**Problem – Data Acquisition**
- 80% of EOC GIS time spent acquiring and managing data
- Only 20% of time spent producing backlog of emergency map products.

**Solution – Backups, UPS, Static/Reserved IP Addresses**
- UPS on everything, including printers/plotters
- Static/Reserved IP addressing sped up recovery time
- Central data repository storage (ArcSDE) with backup schedule
Data Acquisition/Sharing

Solution – HazNet and Titan
- HazNet serves EOC applications and maintains ICS compliance
- Share data through Titan
Contact NVision
Craig Harvey and Joel Lawhead
Web: http://www.nvs-inc.com
E-mail: sales@nvs-inc.com
Phone: 228-242-0015