

Disaster Preparedness, Response, and Post-Disaster Operations



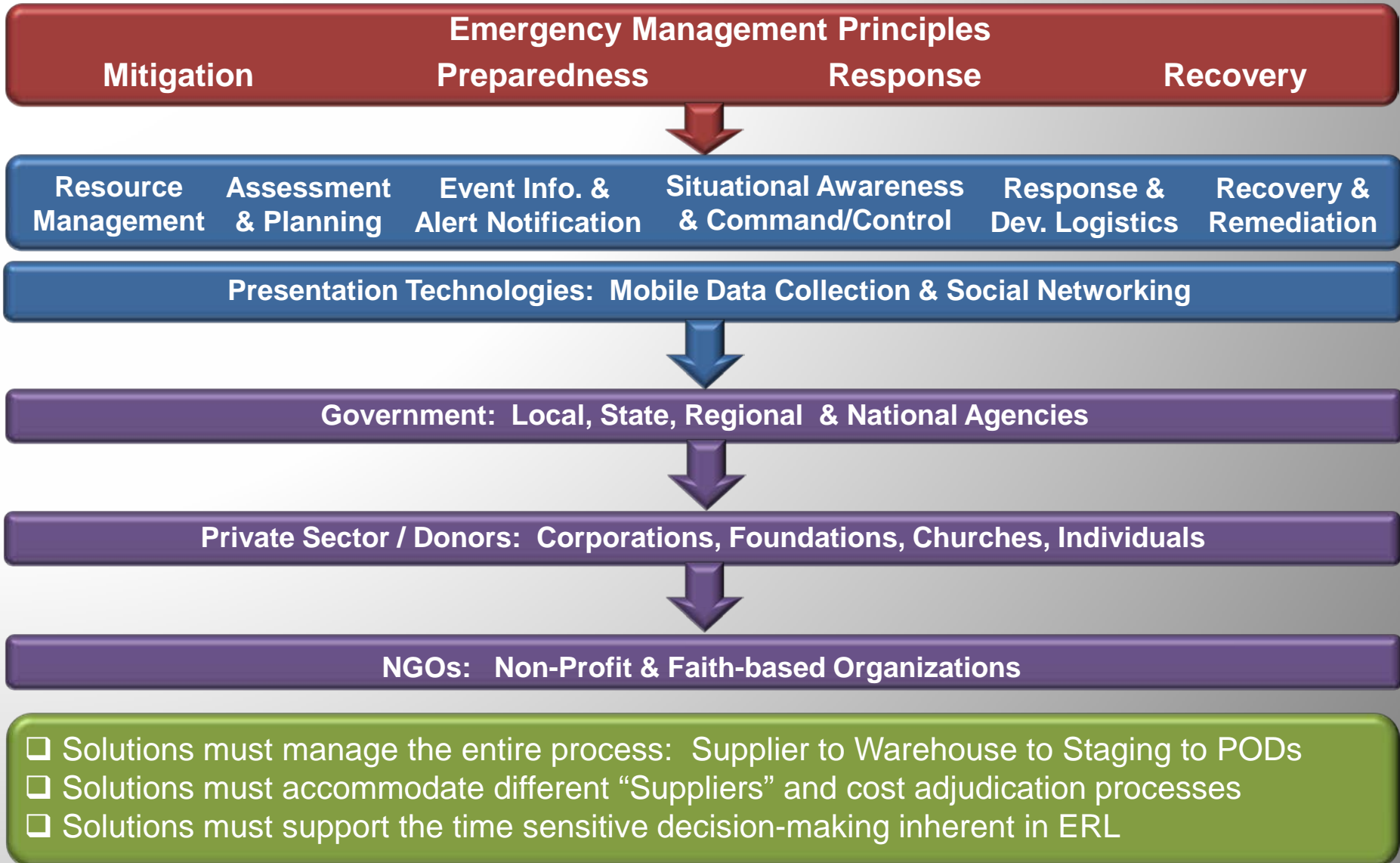
Emergency Visions

EXPERTISE • BANDWIDTH • TOOLS

Emergency Visions provides world class technology for emergency response logistics and incident management, supported by emergency management subject matter expertise, training, and rescue/relief services.

For more information please call (888) EVI-4911 (384-4911) or e-mail to
“info@emergencyvisions.com”

Technologies for Emergency Response Logistics



Florida Division of Emergency Management



State of Florida Governor Charlie Crist is joined by state officials for the ribbon cutting of the new State Logistics Response Center opened by the Florida Division of Emergency Management in Orlando.

State Emergency Resource Management Network (SERMN)

– A Logistics-focused “Hub” for Emergency Management Info.:

- The SERMN combines the capabilities of multiple software solutions into one integrated offering for Catastrophic Event Planning and Response**
 - Incident Management**
 - Resource Management**
 - Personnel Credentialing**
 - Situational Awareness and Geo-Mapping**
 - Multi-modal Shipping/Transportation**
 - Inventory / Warehouse Management**
 - eLearning and Training**

The SERMN is a solution for Total Asset Visibility (TAV):

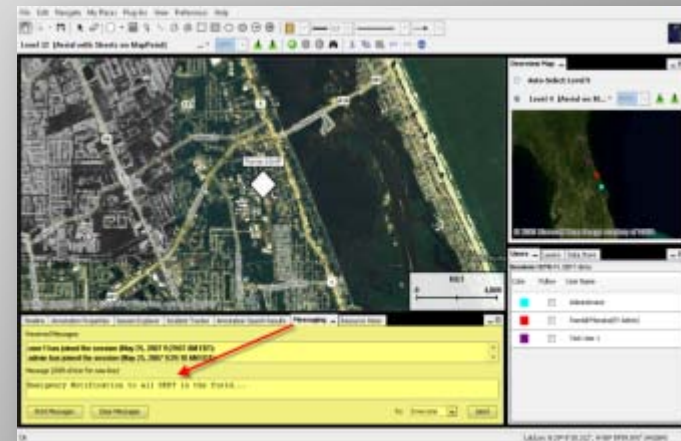
- ❑ SERMN is a **physical asset catalog** organized by asset category, kind, and type including asset identifiers, description, location, ownership, and status
- ❑ SERMN is a **personnel management and credentialing system** designed to track human resources: name, title, organization, role, professional affiliations, all contact detail, current status, licenses, certifications, training, education, language, and more
- ❑ Assets can be grouped into functional standing teams and/or strike teams – linking human and physical assets together

The image displays three overlapping screenshots of the SERMN web application interface. The top-left screenshot shows a 'Category List' with a tree view of categories such as Agriculture, Boats and Small Craft, Building, Clearing, Logging, Commercial, and Construction. The top-right screenshot shows a 'Resource Kind List' with a table of resource kinds. The bottom screenshot shows a 'Kind Detail List' with a table of resource kinds.

Edit	Cost Code	Structure	Reference	Description
[E]		NERR	Air Boats with Operators	NERR: Boats and Related Personnel category -- Air Boat with skilled operational personnel
[E]		NERR	Air Boats without Operators	NERR: Boats and Related Personnel category -- Air Boat without skilled operational personnel
[E]		NIMS	Airborne Communications Relay-Fixed Wing (CAP) Type I	IFR Capable Fixed Wing CAP Aircraft with aircrews available for extended operations. Pilot Commercial (Instrument) Rating or higher. Airborne radios and repeater capable of patching across multiple operating radio bands.
[E]		NIMS	Airborne Communications Relay-Fixed Wing (CAP) Type III	Fixed Wing CAP Aircraft with aircrews available for extended operations. Pilot Private Rating or higher. Standard FAA FM Radio and VHF radios.

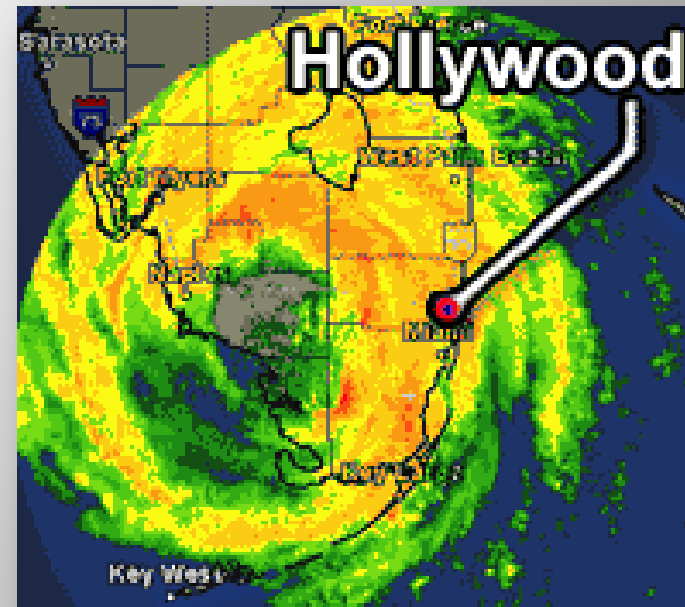
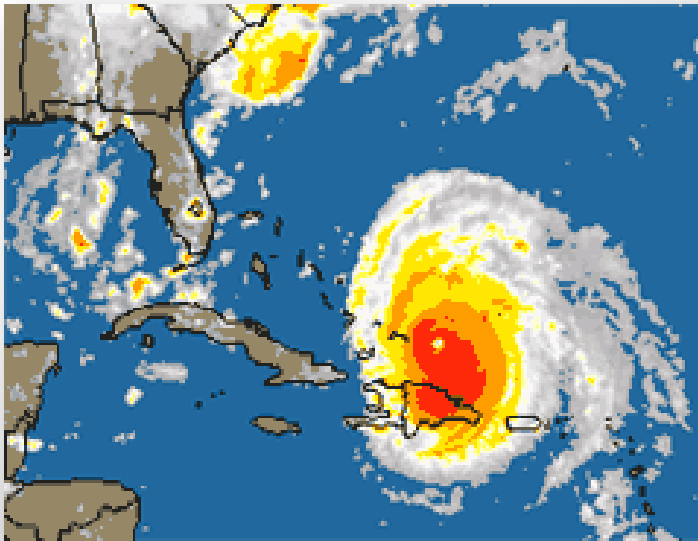
The SERMN provides a common operating picture:

- ❑ SERMN's Total Asset Visibility (TAV) functions are integrated with a situational awareness tool for visualizing unified command and control efforts
- ❑ The SERMN is transportable to the field for real-time access by first responders
- ❑ Simultaneous sharing of information among users, departments, and agencies, including suppliers and other third parties
- ❑ Inventory and warehouse management functions are included
- ❑ Logistics tracking via transponders, a web portal, and an Integrated Voice Response System



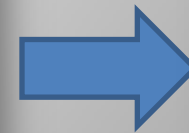
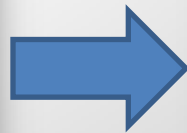
Case Study: Hurricane scenario

- ❑ 0800: A Category 4 hurricane is expected to make landfall in the Collier county area within the next 72 hours



Case Study: Hurricane scenario

- ❑ The Florida State Emergency Operations Center has been activated and a “Mission” has been created requesting 1,000 truckloads of water for distribution to storm victims
- ❑ SERMN’s Resource Database will be used to place the Order and Select Suppliers to fill the Order



- Using the SERMN web-portal, Suppliers can fill the Order by confirming the truckloads of water that can be shipped and by generating the necessary bar-coded freight documentation for checking in the cargo upon delivery.



Event Information:	
P.O. #:	25987516984 <input type="button" value="Set PO"/>
Shipment Date:	5/29/2008 ...
Expected Delivery Date:	5/29/2008 ...
Transportation Information:	
Truck Type:	48 Van <input type="button" value="v"/>
<input checked="" type="radio"/> Please send trucks	
<input type="radio"/> I have trucks	
# Loads:	100

Using the SERMN Software an Order for a new Resource / Supply (ex. 1,000 truckloads of water) can be tracked

All new and existing resources in the database can be tracked from a supply chain management perspective. A user can track actions (referred to as “Order Transactions”) such as Quantity Ordered, Quantity Shipped, Quantity Received, Quantity Committed, etc.

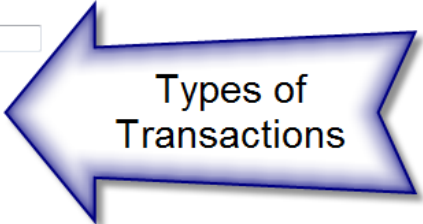
Add/Edit Transaction Info

Type: <---Select--->

Type Value: *

✓ Add

- <---Select--->
- Ordered
- InTransit
- Committed
- Delivered
- RemainingToBeShipped
- RecycledBeforeDelivery
- Quarantined
- ReOrder
- Received**
- RecycledAfterDelivery



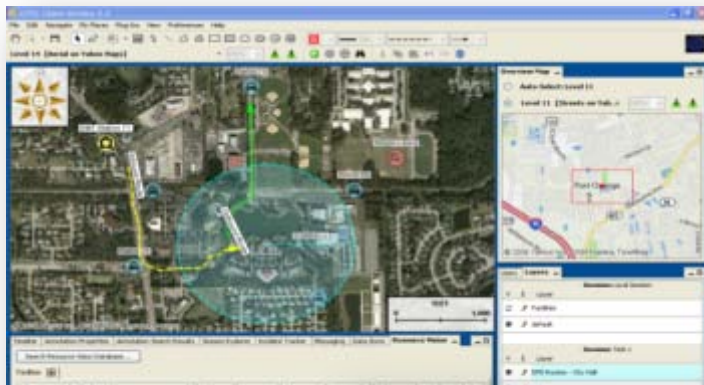
Types of Transactions

SERMN includes a warehouse management applications (with bar coding), and a Logistics/Shipping web-portal (with an Integrated Voice Response System) to track these truckloads of water across the nation to delivery in Florida for disaster victims

Task #	Location	Scheduled Date	Actual Date
Load 1740	Current City & State: Gainesville, FL	(Select a Status) ▾	Save
Pickups			
Complete?	1 ABC Water - Atlanta	5/27/2008 7:00:00 AM	5/27/2008 8:00:00 AM
Drop-Offs			
Complete?	1 State Logistics Response Center	5/28/2008 3:00:00 PM	
Load 1747	Current City & State: Lake City, FL	(Select a Status) ▾	Save
Pickups			
Complete?	1 ABC Water - Atlanta	5/28/2008 7:00:00 AM	5/28/2008 8:00:00 AM
Drop-Offs			
Complete?	1 State Logistics Response Center	5/29/2008 7:00:00 AM	
Load 1762	Current City & State: Ocala, FL	(Select a Status) ▾	Save
Pickups			
Complete?	1 ABC Water - Atlanta	5/29/2008 6:00:00 AM	
Drop-Offs			
Complete?	1 State Logistics Response Center	5/30/2008 7:00:00 AM	

Finished

- The SERMN's Geo-spatial Maps track shipments of water from their source location to County PODs



Resource Configuration for - Garner Environment Tractor Trailer with Driver

Resource | Resource Comments

Category Configure

Category Name	Structure
IBIS-ESFP 05 - Base Care, Housing, and Human Services Emergency Support Function	IBIS-ESFP 05

Unit Configure

Unit	Description
Heavy Equipment	Heavy Equipment Resources
Personnel	Personnel Resources
Supplies	Supply Resources
Vehicle	Vehicle Resources

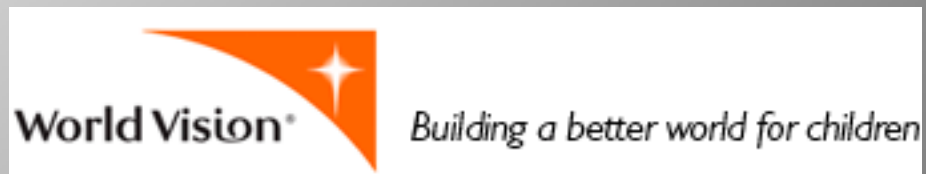
Assignment Configure

Include	Component	Metric	Quantity	Units
Assignments	Driver, Tractor, CDL		1	1
Assignments	Generator 210		1	1
Assignments	Base Officer		1	1



World Vision Emergency Response Logistics – Global Rollout

- ❑ **World Vision has selected an Emergency Response Logistics solution for disaster response and daily aid operations across their 98 country program offices. This solution provides the following:**
 - **Disaster-related Situational Awareness**
 - **Supply Chain/Logistics for food and water distribution**
 - **Inventory and warehouse management (18 global locations)**
 - **Donor accountability and cost adjudication**
 - **Daily donated goods distribution**
 - **NGO collaboration**

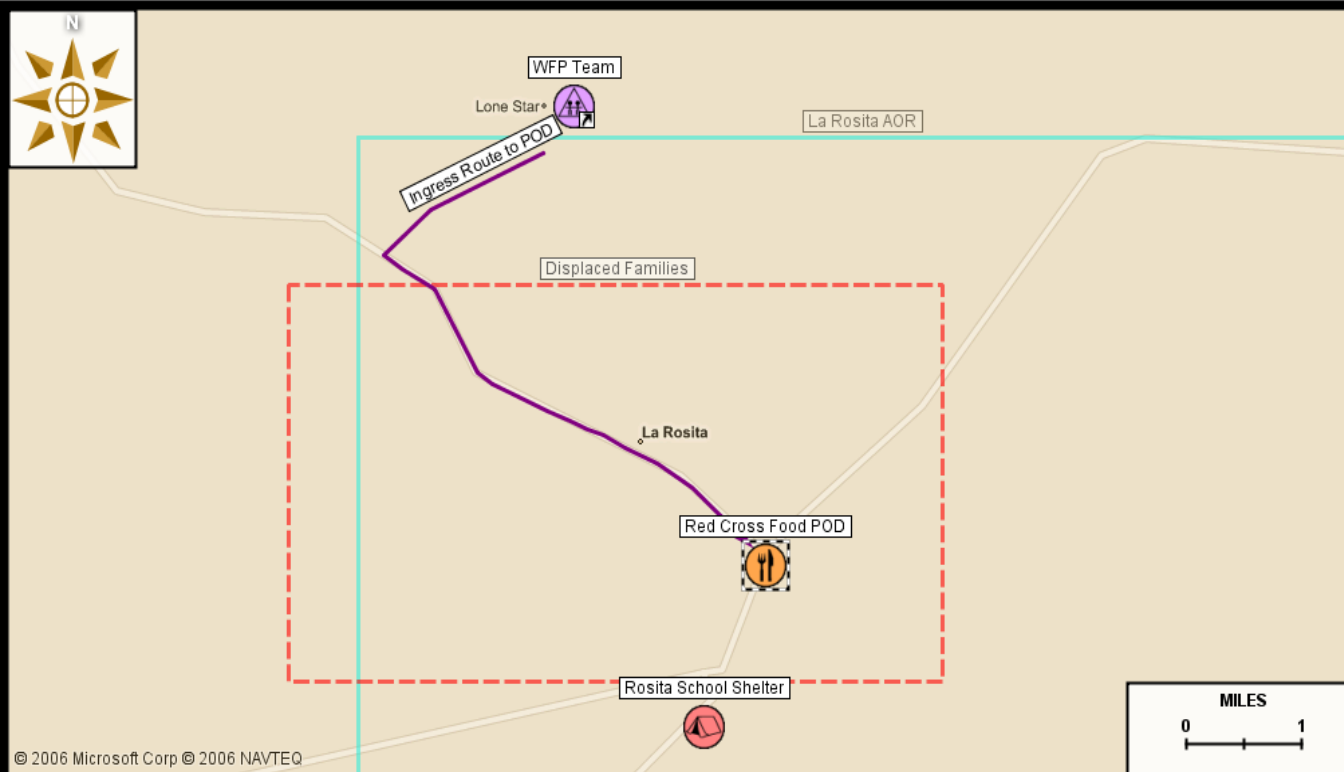


Hurricane Ida 2009 -- Nicaragua:

- ❑ **Situational awareness**
 - ❑ **National Hurricane Center track**
 - ❑ **Landfall location and Storm Surge effects**
 - ❑ **Infrastructure damage from in-the-field assessment reports**
 - ❑ **Road / bridge closures that affect aid locations**

- ❑ **Local response efforts**
 - ❑ **Evacuations in affected areas and Shelter locations**
 - ❑ **Government/Military response**

- ❑ **NGO / aid operations**
 - ❑ **WV ADPs**
 - ❑ **Other NGOs and a visualization of their operations**
 - ❑ **Locations, Team structures, Assignments, and Activations**
 - ❑ **Types of aid provided and “last mile” tracking and cost adjudication (donor accountability)**



Users Layers

Session: Local Session

V	E	Layer
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AOR
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AOR - Poverty
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Evacuations
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Infrastructure Damage
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NGOs
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NHC
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	default

Buttons: [Save] [Print] [Close] [Refresh]

Timeline

Annotation Properties Session Explorer Incident Tracker Annotation Search Results Messaging Data Store Resource Vision

Session Started: Feb 22, 2010 9:30 AM

Last Update: Feb 22, 2010 9:34 AM

Timeline axis: 9:31 AM, 9:32 AM, 9:33 AM, 9:34 AM

Displayed Time: Feb 22, 2010, 9:34:20 AM

1 second [Start to Replay Session]

Disaster Preparedness, Response, and Post-Disaster Operations are facilitated by Emergency Response Logistics:

- ❑ **Florida DEM's SERMN is a state-wide, in-production example of Emergency Response Logistics**
- ❑ **World Vision's Emergency Response Logistics selection proves the value in both post-disaster and daily humanitarian aid**

- ❑ **What makes ERL different from "traditional" supply chain automation?**
 - **Time-sensitive decision making**
 - **"Supplier" Variances -- State Agencies, Counties, Vendors, and NGOs can all provide the same type of resource – Financial management varies greatly among these**
 - **Need to accommodate and track multiple Team Structures**
 - **"Last Mile Track and Trace" (Staging to PODs) requires situational awareness and visualization**

- ❑ **Lessons-learned:**
 - **Local-level adoption is key to the success of the system**
 - **Accuracy and currency of data from Suppliers facilitates logistical decision-making**
 - **Technologies must adapt to new social networking tools**