

Disaster Preparedness, Response, and Post-Disaster Operations



Shawn D. Smith -- Emergency Visions, Inc.

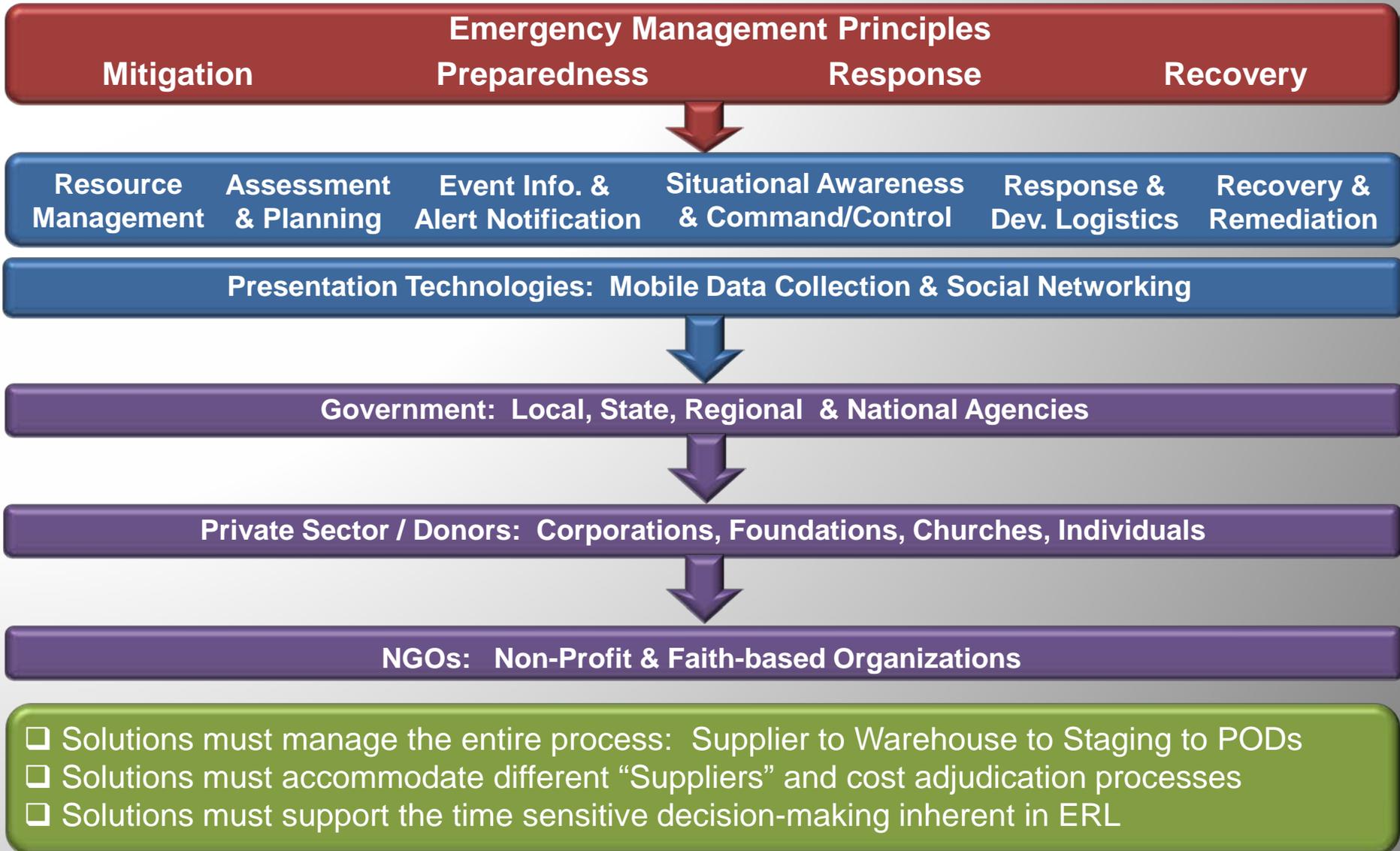
 Emergency Visions

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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.

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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.

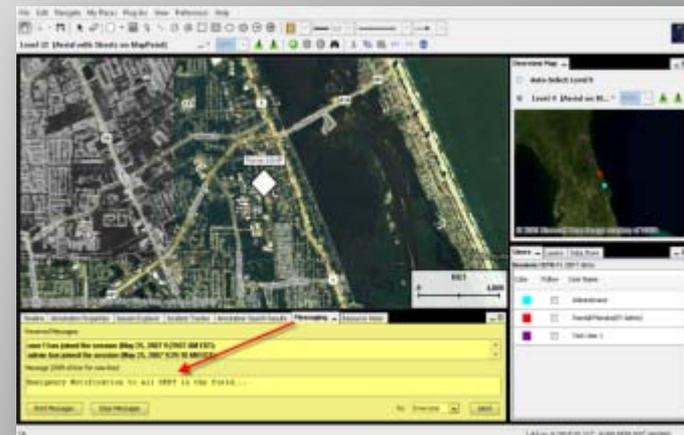
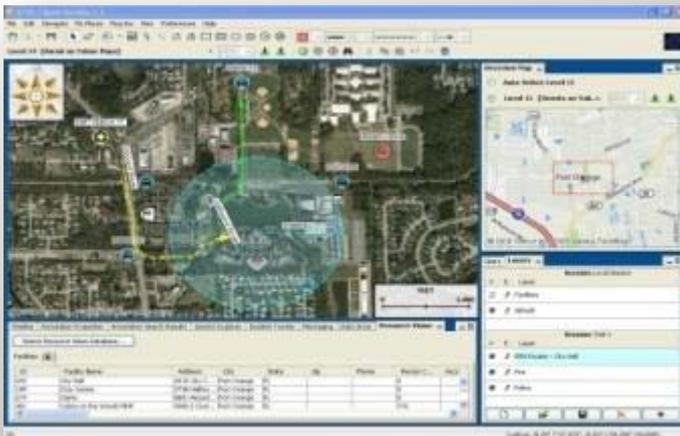
State Emergency Resource Management Network (SERMN)

– 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**

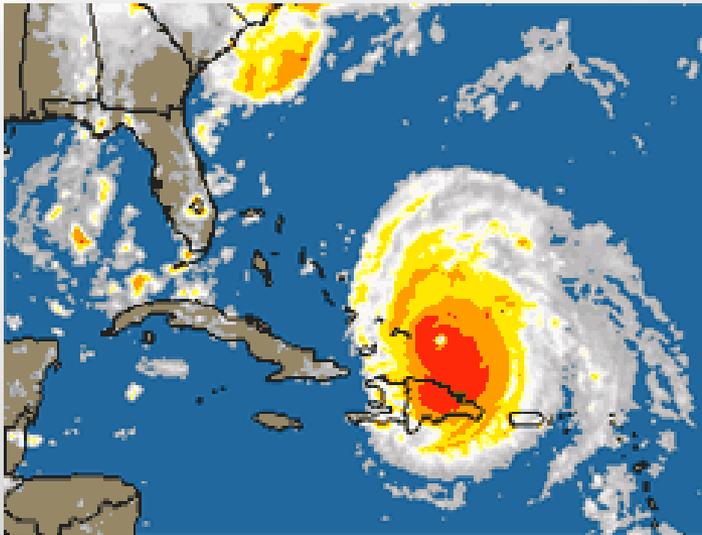
The SERMN provides a common operating picture:

- ❑ 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

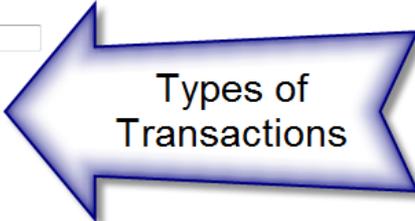
❑ **Using the SERMN Software an Order for a new Resource / Supply (ex. 1,000 truckloads of water) can be tracked**

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:
 Type Value*:
 Add

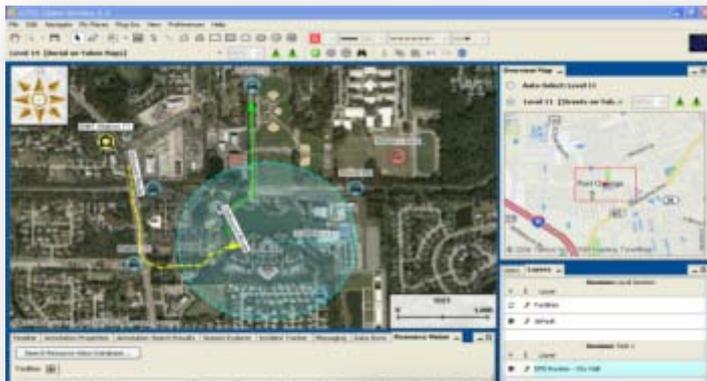
- <---Select--->
- Ordered
- InTransit
- Committed
- Delivered
- RemainingToBeShipped
- RecycledBeforeDelivery
- Quarantined
- ReOrder
- Received**
- RecycledAfterDelivery



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) ▾	<input type="button" value="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) ▾	<input type="button" value="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) ▾	<input type="button" value="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	

- 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

Item Configure

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

Assignment Configure

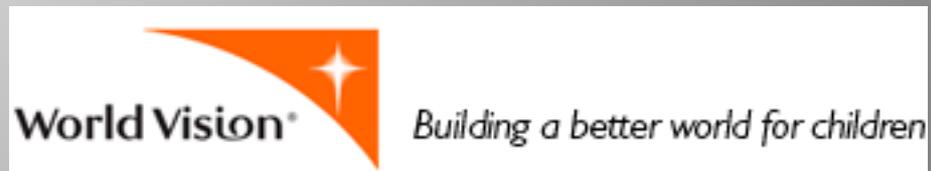
Include	Component	Structure	Quantity	Units
Assignments	Driver, Tractor, CDL		1	1
Assignments	Generator 210		1	1
Assignments	Base Officer		1	1



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**

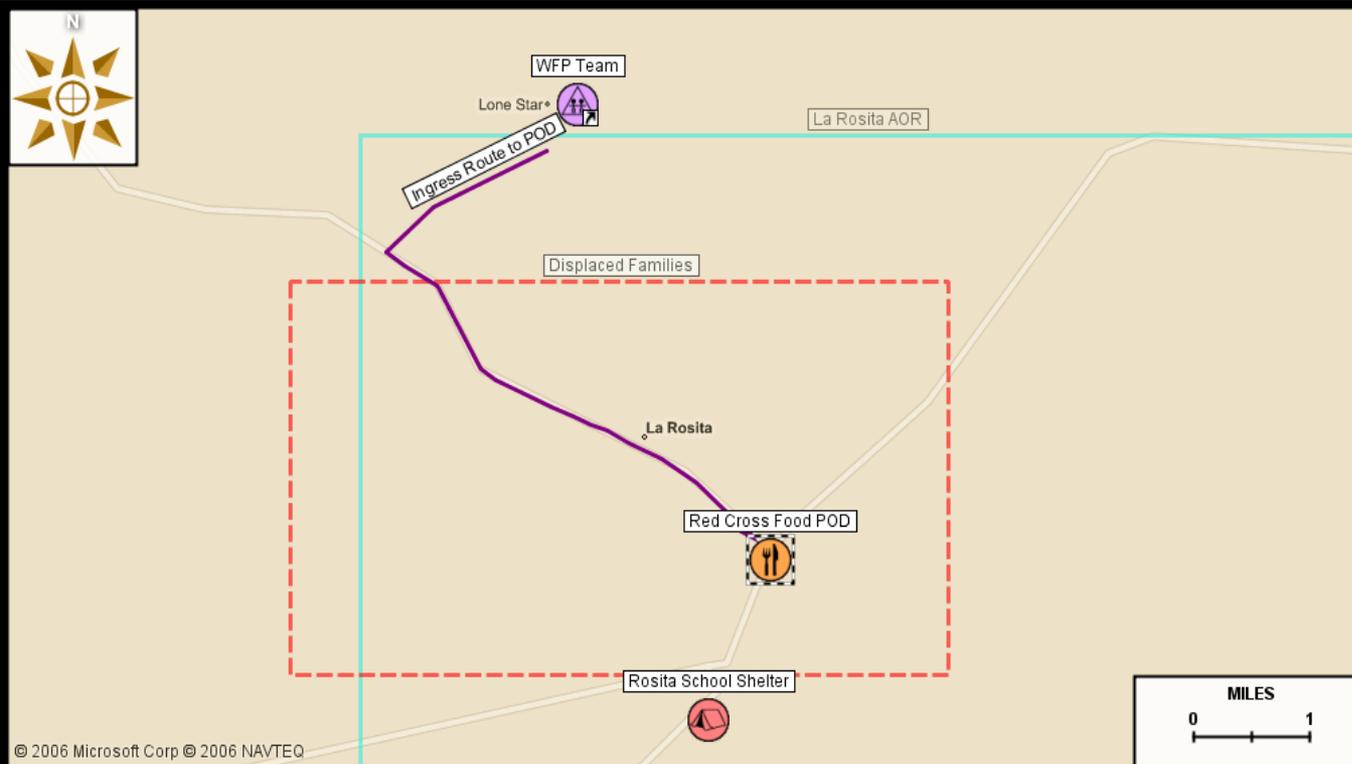


Hurricane Ida 2009 -- Nicaragua:

- ❑ **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**