

SCHOOL RISK MANAGEMENT PLANNING

LEVERAGING DATA, TOOLS AND PARTNERSHIPS

December 4, 2013

DEPARTMENT OF PUBLIC SAFETY

John Dorman North Carolina Emergency Management



North Carolina Emergency Management - Mission

Prepare for: Respond to: Recover from:







all hazards and/or threats whether natural, technological, or civil



SERT State Agencies

- NCDPS (Lead Agency) NCEM, Corrections, SHP, NCNG, ALE
- Administration Purchase & Contract, Facility Mgmt.
- ► Insurance Fire Marshal's Office, Building Inspections
- Labor OSHA
- Agriculture Food Safety, Animal Protection, Forestry, Crop Damage & Insurance
- Transportation Debris Clearance, Road /Bridge Repair, Snow & Ice Removal, Hwy. Mgmt.
- **Public Instruction** School Safety, School Buses
- Commerce Economic Development, Retail Merchant's Association
- ➤ **Health & Human Services** Public Health, Office of Emergency Medical Services, Mental Health, Social Services (Shelters), Radiation Protection
- Environment & Natural Resources Air and Water Quality, Public Water Supply, Dam Safety, Landslides
- Cultural Resources Historic Sites, Museums
- ➤ NCSU Coop. Extension Agriculture Advice, Support to Disaster Impacted Communities

Integrated Hazard Risk Management – Legislative Intent

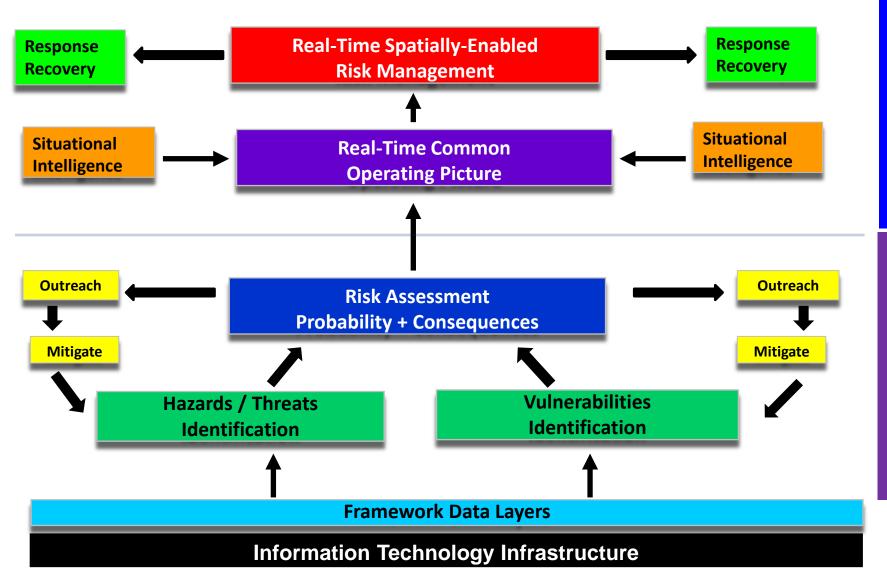
G.S. 166A-19.12 Powers of the Division of Emergency Management.

- (14) Serving as the **lead State agency for the coordination of information and resources for hazard risk management**, which shall include the following responsibilities:
 - a) Coordinating with other State agencies and county governments in **conducting** hazard risk analysis.
 - b) Establishing and maintaining a hazard risk management information system and tools to display natural hazards and vulnerabilities and conducting risk assessment.
 - c) Acquiring and leveraging all natural hazard data generated or maintained by State agencies and county governments.
 - d) Acquiring and leveraging all vulnerability data generated or maintained by State agencies and county governments.
 - e) Maintaining a clearinghouse for methodologies and metrics for calculating and communicating hazard probability and loss estimation.

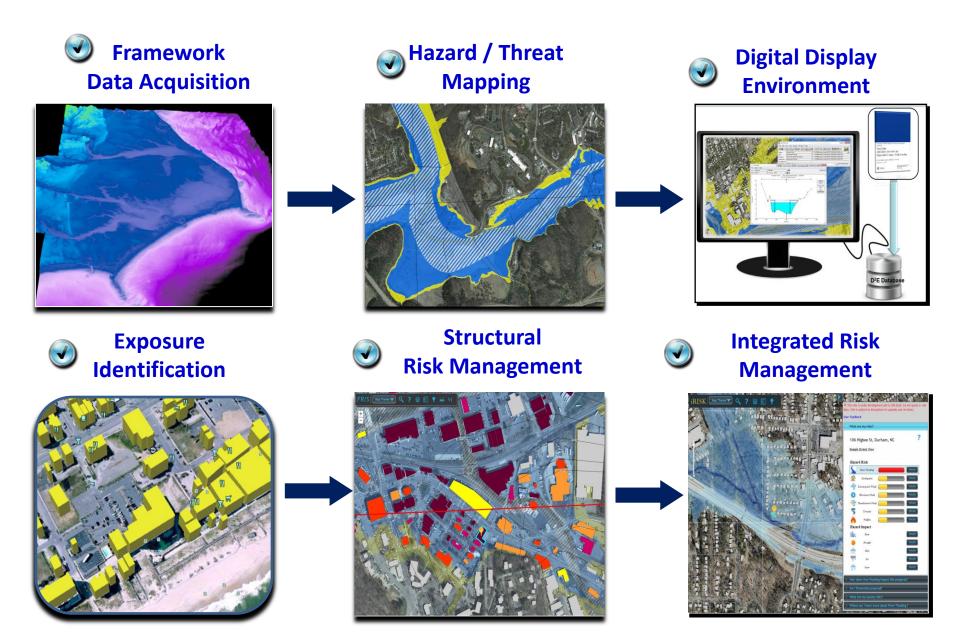
Real-Time

NC Risk Management Framework

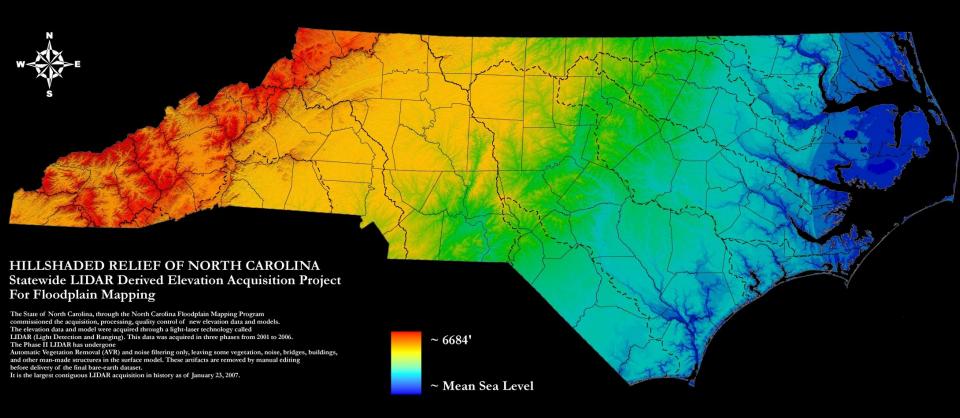
prevent, prepare, protect, respond, recover

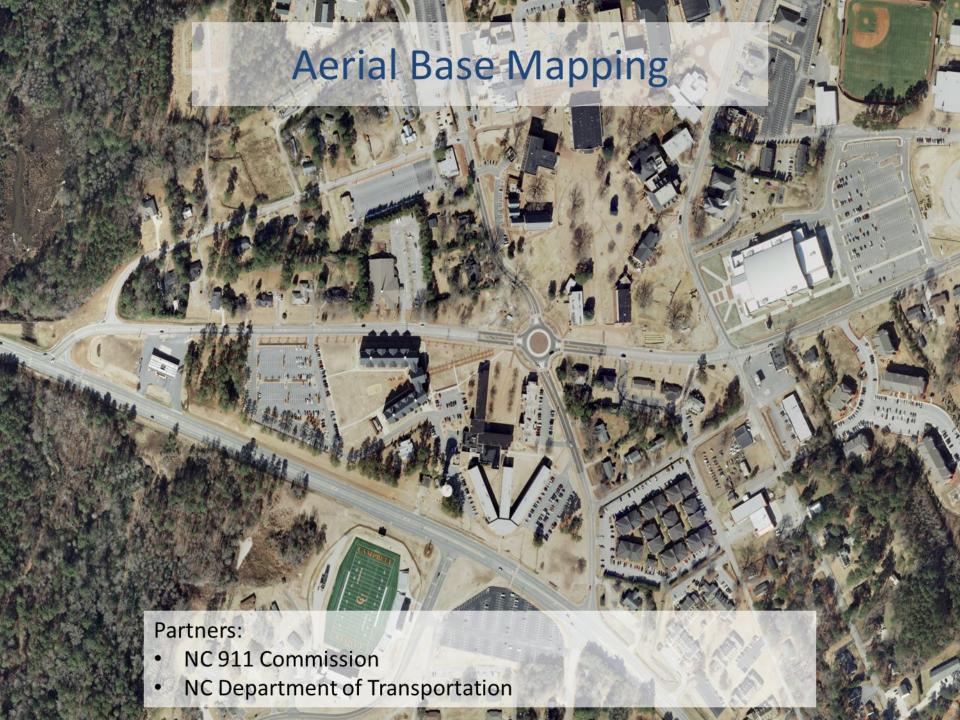


NCEM Progression To Integrated Risk Management



LiDAR-Derived Digital Elevation Model





Exposure Identification - Statewide Building Footprints



Field Collection **First Floor Elevation Foundation Type Roof Shape Roof Slope Number of Stories Parcel Conflation Occupancy Type Building Value Year Built Heated Sq Ft Roof Shape HAZUS Block Conflation Roof Cover Type Roof Cover Quality Water Resistance Roof Deck Attachment Roof Deck Age Roof Wall Connection Roof Frame Type Hurricane Shutters Roof Tie Downs Window Area Masonry Reinforcing Joist Spacing Number of Units**



This site is under development and is still draft. Do not quote or cite data. Site is subject to disruptions for updates and revisions.

User Feedback

- ▶ How does river flooding impact this property?
- What are my county risks?
- County Information

Edgecombe

Number of buildings in county: 32,449 Number of buildings potentially affected: 1,453 Building Damages: \$7,775,000



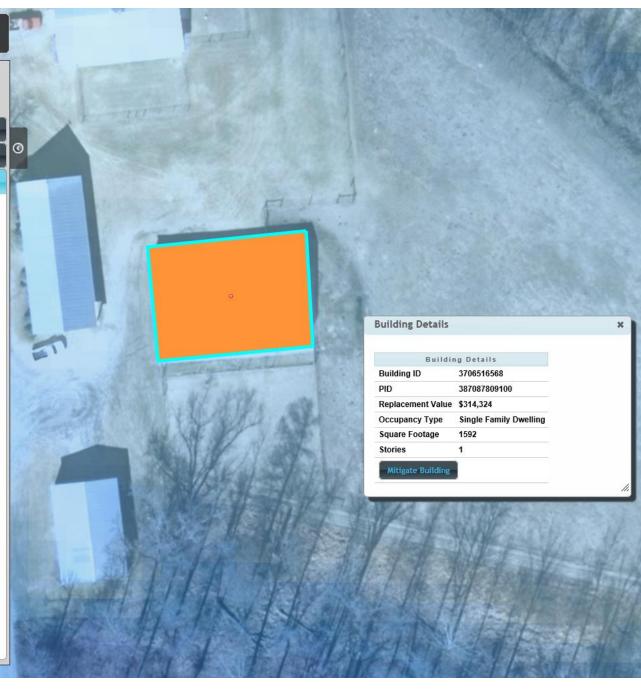
River Flooding

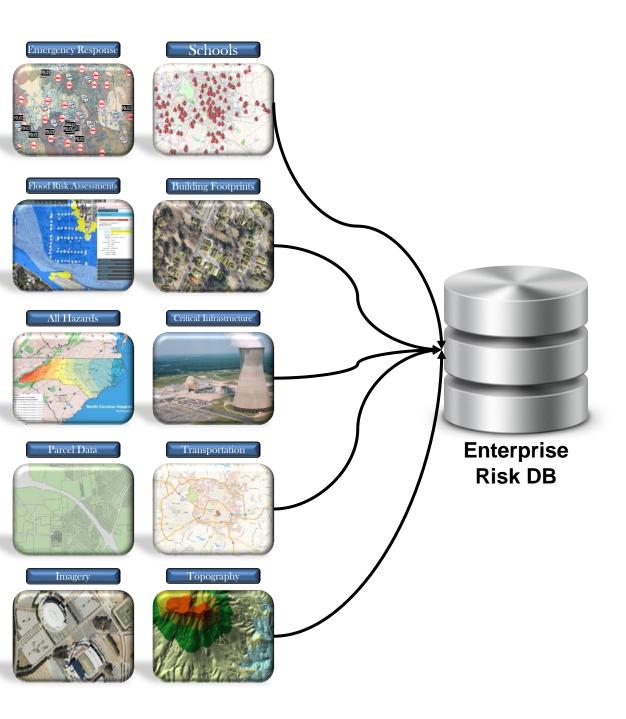
Choose a Return Period (in years)

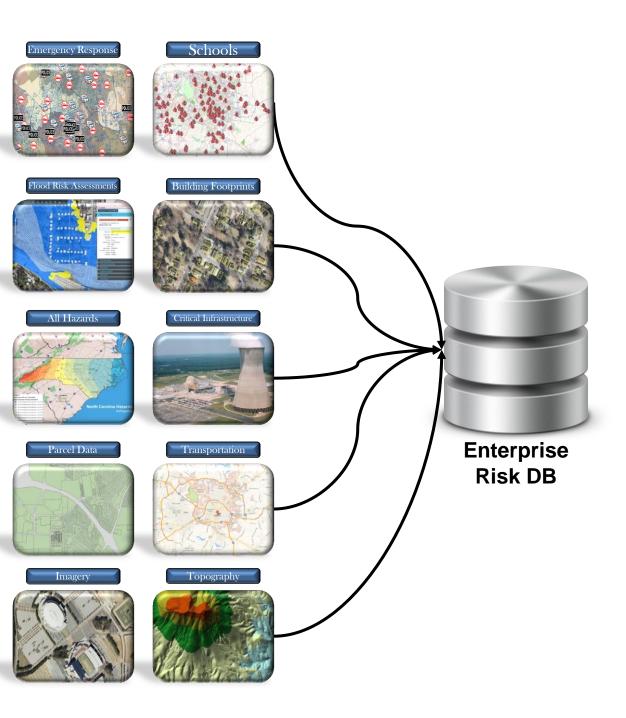
○ 10 ○ 25 ○ 50 **●** 100 ○ 500

Buildings	Ту	rpe of Damage	
10 💠	Residential •		Go
PID	Value (\$)	Replacement Value (\$)	Damages (\$)
38708780910	314,324	314,324	51,643
387132525600	6,559	133,811	47,369
48117612150	95,964	168,091	46,897
473658991100	55,984	208,598	44,974
48116568180	81,313	149,790	39,994
38814120320	101,396	169,147	36,205
473771710100	109,049	109,049	35,899
38700719970	137,889	144,440	35,821
47365762190	121,612	121,612	35,122
47376493470	135,036	135,036	30,815

County Mitigation Wizard →



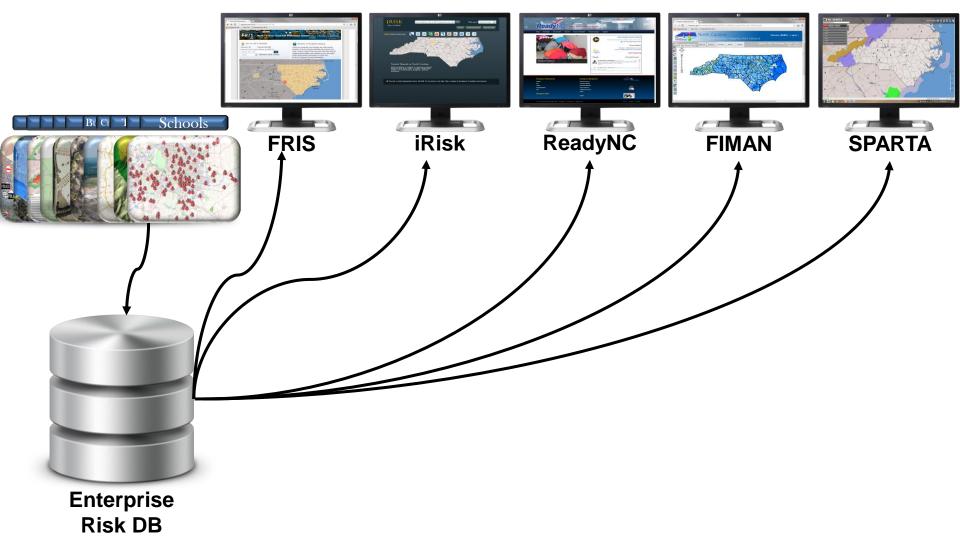


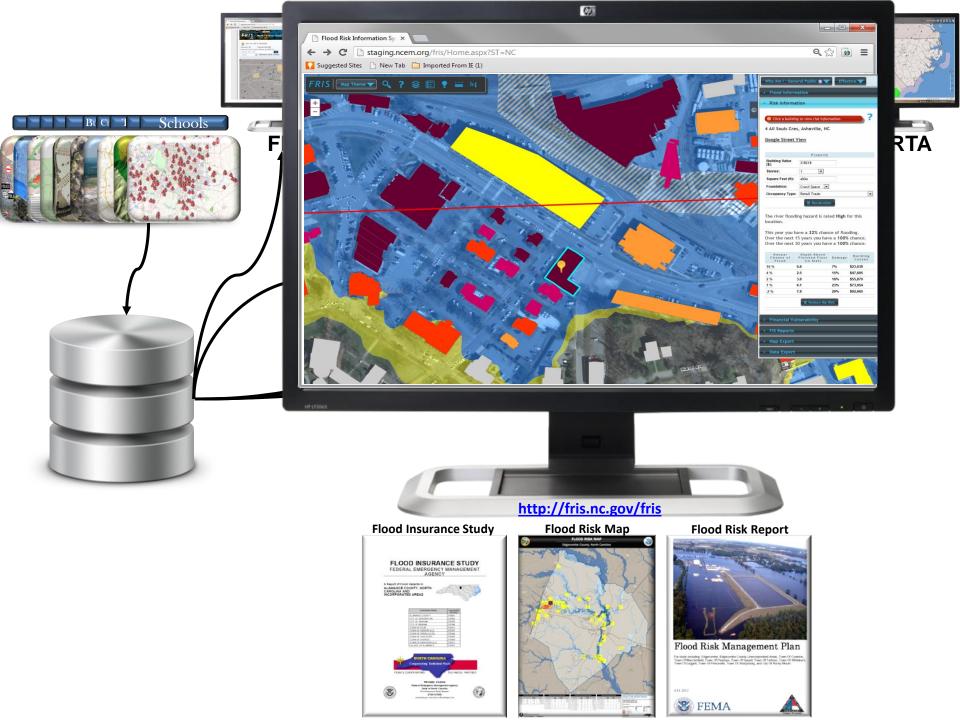


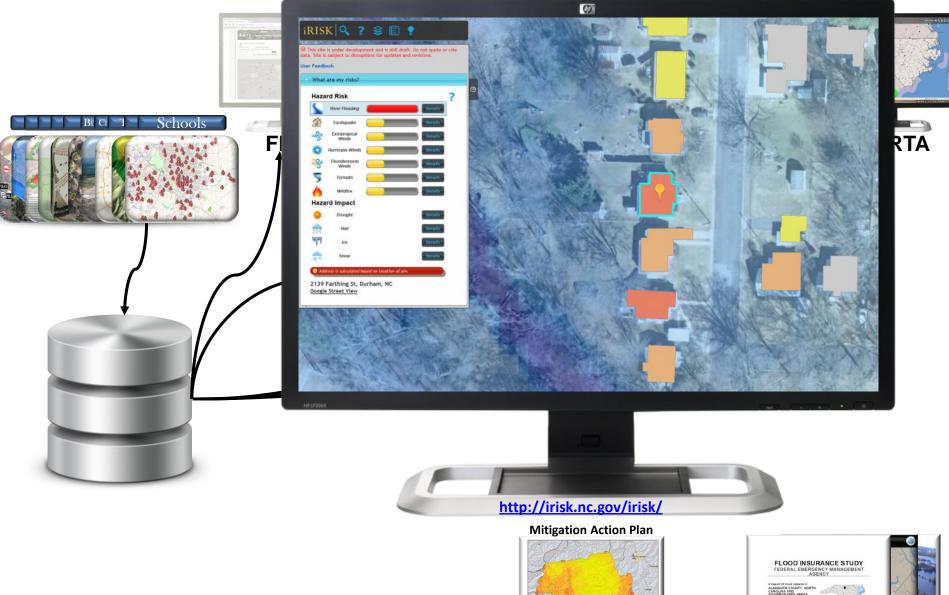




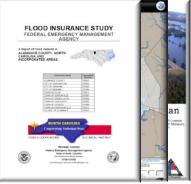
Enterprise Risk DB

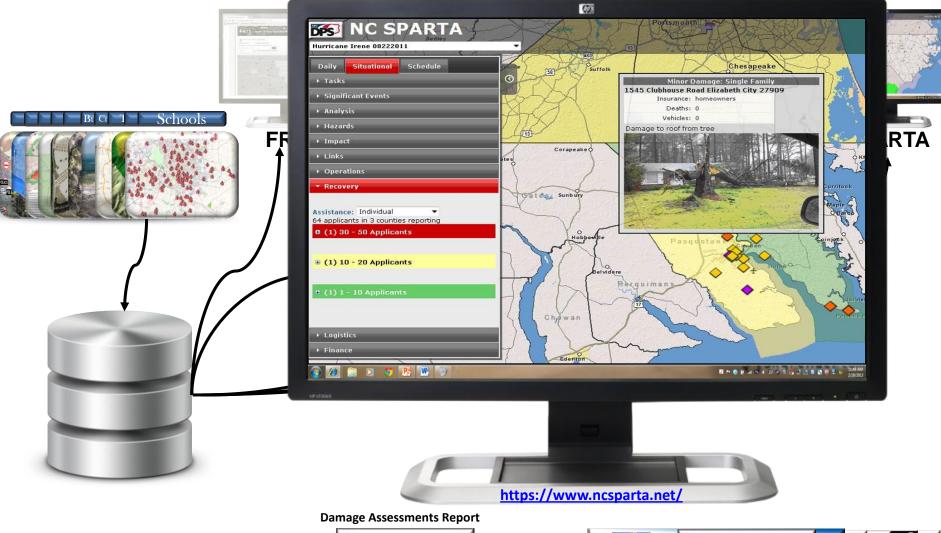








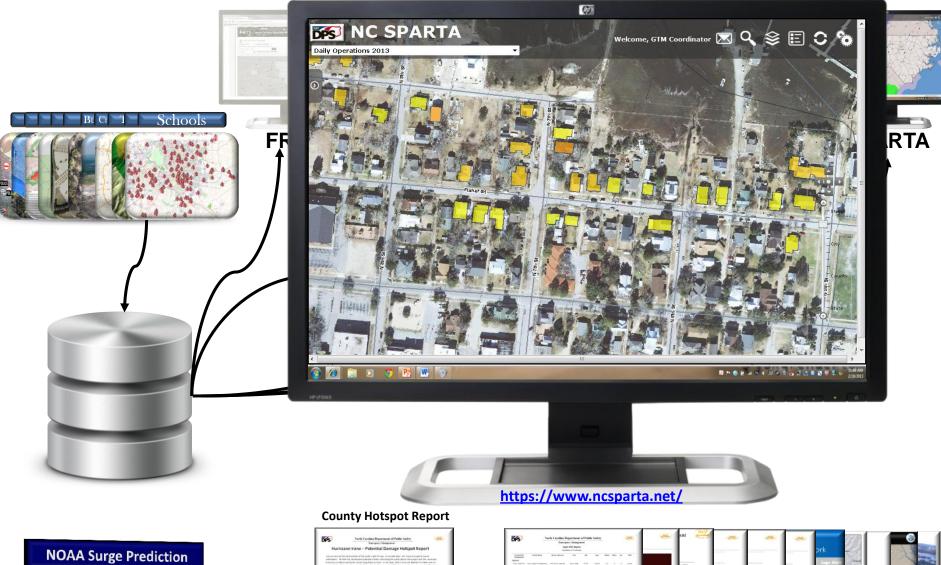






Damage Assessments

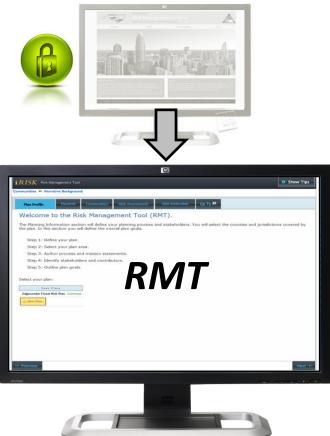


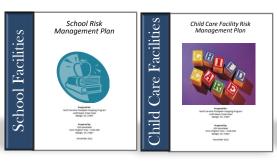




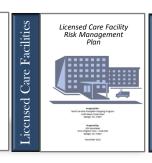


Risk Management Portal

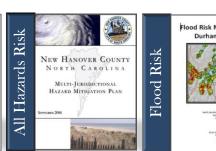


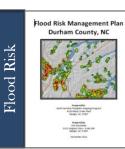






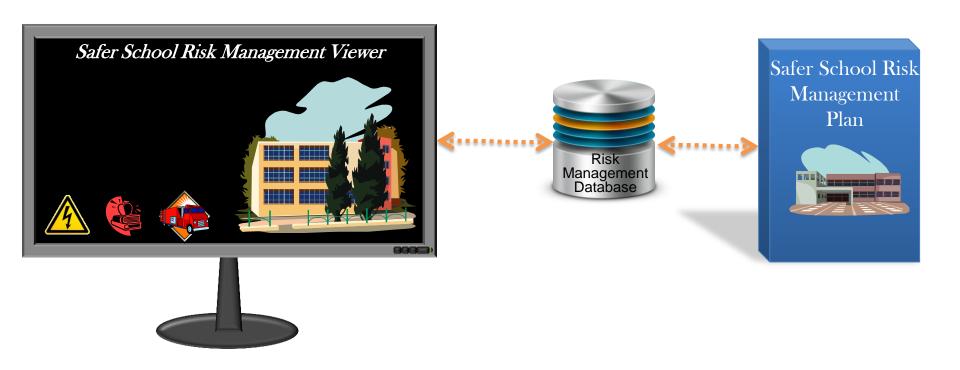






Risk Management Plans – In the Works

- Flood Risk Management Plan (08/13)
- All-Hazards Mitigation Plan (09/13)
- License Care Facility Disaster Management Plan (01/2014)
- Mental Health Facility Disaster Management Plan (01/2014)
- Dam Inundation Emergency Action Plan (11/13)
- Fuel Risk Management Plan (12/13)
- County Disaster Recovery Plan (01/14)
- School Safety Management Plan (Initiation)
- Child Care Facility Disaster Plan (Initiation)











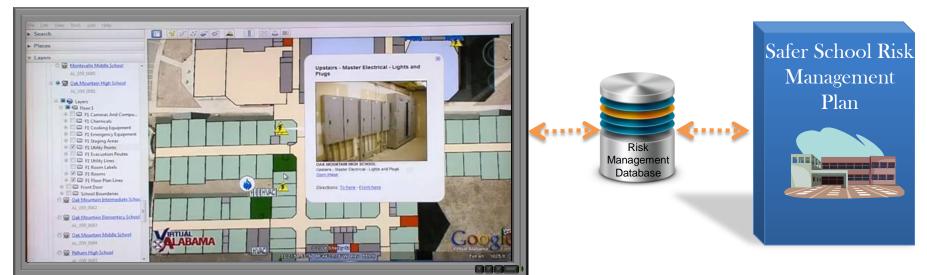


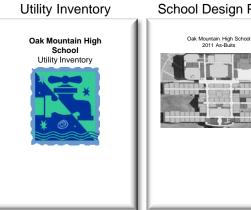








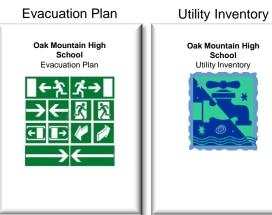




















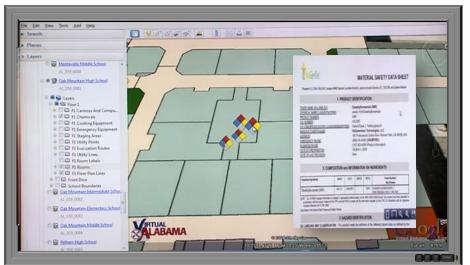


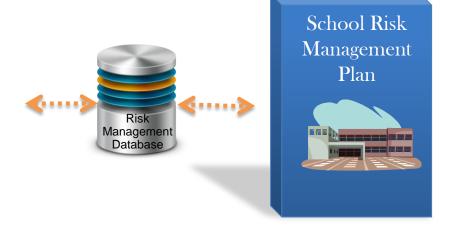






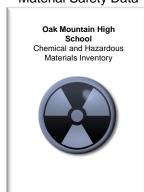




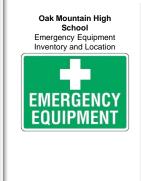




Material Safety Data



Emergency Inventory



Evacuation Plan



Utility Inventory



School Design Plans



Emergency Contacts



School Risk Management Planning Initiative – Next Steps

- Establish Stakeholder Work Group
- Define Functional and Operational Requirements
- Establish Project with the Office of Information Technology
- Assess / Inventory Data Leveraging Opportunities
- Acquire Necessary Data / Information
- Construct School Risk Management Plan Template and Viewer
- Test / Receive Feedback from Stakeholders
- Conduct / Implement Pilots for Plan and Viewer
- Revise Plan and Viewer Based on Pilot and Reviews
- Progressively Implement



QUESTIONS?



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