

Emergency Management of Electric Utilities Using GIS  
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- 1) Emergency management – the 4 “R’s”
  - a) Risk Mitigation
  - b) Readiness
  - c) Response
  - d) Recovery
- 2) Risk Mitigation
  - a) Developing Risk Profiles
  - b) Modeling the Optimal Mitigation
  - c) Challenges
- 3) Readiness
  - a) Challenges for Readiness
  - b) Role of GIS
- 4) Response
  - a) Challenges
  - b) Role of GIS
- 5) Recovery
  - a) Challenges
  - b) Role of GIS
- 6) Impact
- 7) Common Themes of Emergency Management
- 8) Why GIS is Critical
  - a) Common themes of Emergency Management are:
  - b) Manage data
  - c) Identify vulnerabilities
  - d) Develop plans
  - e) Maintain situational awareness
  - f) Communicate to everyone
  - g) Track and manage resources
  - h) Support response, incident management and recovery
- 9) Data
  - a) Authoritative
  - b) Predictive
  - c) Measured
  - d) Experiential
  - e) Community (VGI)
- 10) What would the system look like?
  - a) Build the common operating picture well in advance of any event.
  - b) Establish any contractual issues in the procurement of the data (such as pre- and post-event imagery).
  - c) Test the data feeds for proper projection.

- d) Optimize the display performance. This might mean caching of the data and should be done in advance
  - e) Build and test assessment models.
  - f) Establish a deployment mechanism, such as where equipment and devices will be staged, procured, configured, and tested.
  - g) Create a number of dry runs for a variety of simulated events.
  - h) Integrate the technology with the company's established emergency plan of operation.
- 11) Summary