Implementing The Texas Disaster Information System





Dashboard 1

Resilient-Texas.com

- Developed in support of the Governor's Commission to Rebuild Texas following Hurricane Harvey
- Highlights key impacts of Hurricane Harvey, as well as general information on local flood risks
- Customized experience based on the user's role within the community

How it Works











Texas Disaster Information System

An interactive, web-based spatial data system designed to support Preparedness, Response, Recovery and Mitigation for the State of Texas.

- Statewide system will employ cutting-edge data analytics and mapping technologies.
- Provide residents, policy makers, local jurisdictions, and other stakeholders with the most current and accurate information available to assess related disaster risks, impacts, and mitigation strategies.
- Enable secured sharing of Texas disaster data information across public networks.
- Preserve the data products generated during disaster response, recovery and planning missions.



Texas Disaster Information System

- Collaborating with subject-matter experts
- Securing data sharing agreements
- Developing and implementing security protocols
- Harvesting, archiving and curating critical disaster data
- Building database architecture, acquiring hardware
- Developing applications tools to analyze pertinent data
- Developing a user-friendly, interactive web portal





We organized this project into six workstreams:

Data Strategy	Stakeholder Coordination	Technical Infrastructure Planning
 Identify data sources, levels of sensitivity, and data owners. Develop data governance process. Evaluate data sources and determine gaps. 	 Identify key technical stakeholders and establish contact. Manage data sharing agreements. Determine quality of partner data. Develop national advisory committee. 	 Develop data governance process. Develop system architecture plan. Align technical plan with GLO. Web portal SOPs User management

User Experience Planning	Project Administration	Ongoing Program Management
 Usability assessments Data visualization tools and styles Develop web portal Determine user roles 	 Project status meetings and updates Create a team to ID and pursue new data sources 	 Creating SOPs for data management Monitor user roles for compliance Develop plan to maintain and improve Run day-to-day technical operations







Lessons Learned

- TDIS is more about human values and relationships than anything else.
- Early steering committee formation enables participation and sense of ownership.
- Hiring a communicator as important as data architect.
- Partnering with legacy organizations.
- Human-centered design and implementation.
- Building a system that is agile and adaptive.

