

OPERATIONS | Mass Evacuation PLANNING & Shelter-In-Place

Evacuation Planning—Critical Tool for Communities

Evacuation orders are a common instrument for Emergency Managers to move individuals away from impending hazard threats. An evacuation order is no easy task. Planning, training, and exercising the processes and procedures of a mass evacuation is critically important.



ISC's Approach—Leverage Lessons-Learned and Evidence-Based Knowledge

Evacuations have been studied for over 50 years by social scientists, creating a large repository of evidence-based knowledge on the subject that is rarely referenced. ISC has merged this empirical evidence with modern lessons learned and best practices to provide our clients with evacuation plans that are germane to their community and include reliable operational strategies for evacuating or sheltering-in-place.

ISC's Evacuation Expertise & Experience

Miami-Dade County Evacuation Behavior & Clearance Time Study

ISC was commissioned by the county to conduct a survey to understand residents' evacuation behavior and use the findings to determine clearance times needed to conduct safe and timely evacuations. ISC developed and conducted a survey in Spanish, Creole, and English that was distributed to 2.663 million residents. The results were incorporated into GIS-based software applications to analyze transportation systems and model evacuation clearance times.

Kanas City Bi-State Region Evacuation Plan

ISC was contracted to provide technical assistance in the development of strategies for evacuating and/or sheltering the region's vulnerable population from various hazard threats. This effort incorporated nine counties and 119 jurisdictions spanning across KS and MO. The planning process was divided into seven functional areas and multiple meetings and workshops were held to ensure the planning process and a whole-community approach was adopted.

Dam Safety, Inundation Modeling, and Evacuation Planning

ISC provides supports the U.S. Department of Interior: Bureau of Indian Affairs' efforts to secure and increase the resiliency of over 300 vital infrastructure assets across the nation. ISC developed, trained, and exercised Emergency Action Plans for high-hazard dams, conducted inundation modeling of dam break scenarios to obtain failure hydrographs, and coordinated with downstream tribal communities to establish evacuation plans for a potential dam failure incident.

San Diego Community Evacuation Behaviors Study

ISC conducted a resident community preparedness study to understand their evacuation, risk management, and preparedness behaviors since the 2007 wildfire and for future wildfires and other disasters. The survey was available in 3 languages and various formats to over 2,500 participants. The methodology used resulted in the distribution of 60,000 surveys.

Big Sandy Rancheria Extreme Weather and Natural Disaster Evacuation Plan

ISC was selected to develop an Extreme Weather and Natural Disaster Evacuation. By conducting a thorough review and gap analysis of all evacuation planning developed prior to the project, including a hazard analysis, initial situation assessment, and planning assumptions, we ensure that our project plan will integrate with the stakeholders' and BSR's vision of the evacuation plan.

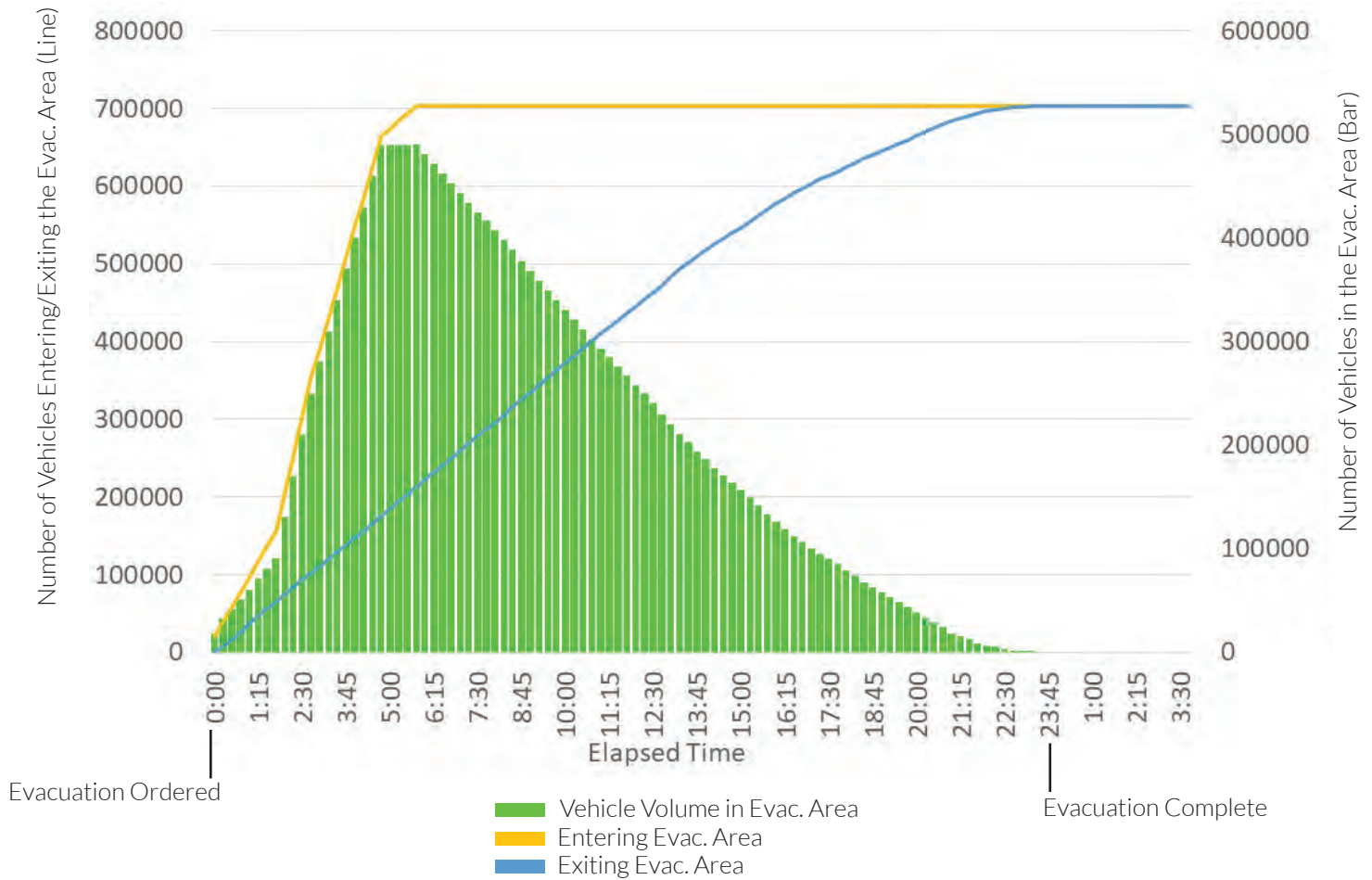
ABOUT US



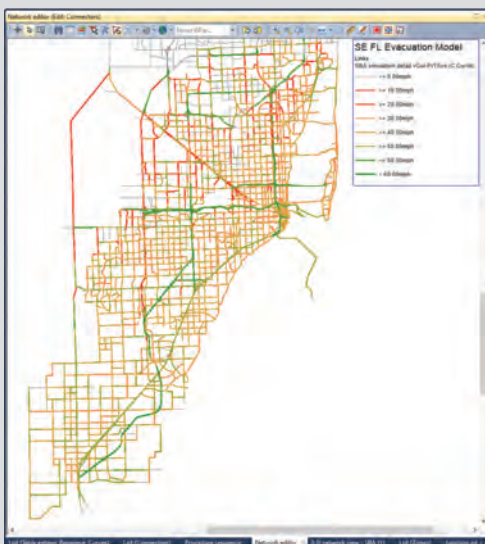
INTEGRATED SOLUTIONS
CONSULTING

ISC is a professional services firm focused on developing and implementing comprehensive crisis and consequence management solutions. We are a team of innovative problem solvers that combine experience and evidence-based knowledge to deliver practical, best practice results across multiple industries to make communities safer and more resilient.

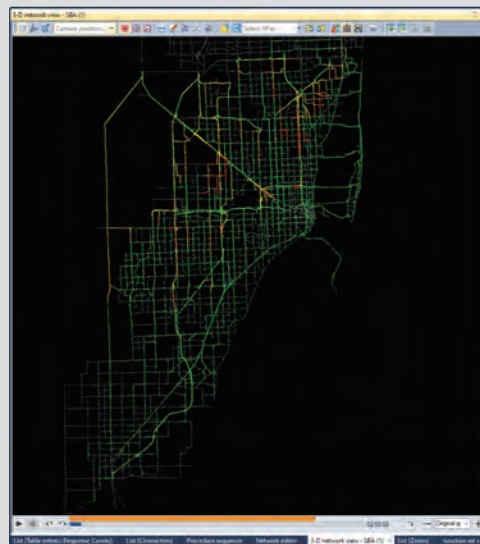
Example Data Analytics Collected from Time Sequence Evacuation Modeling



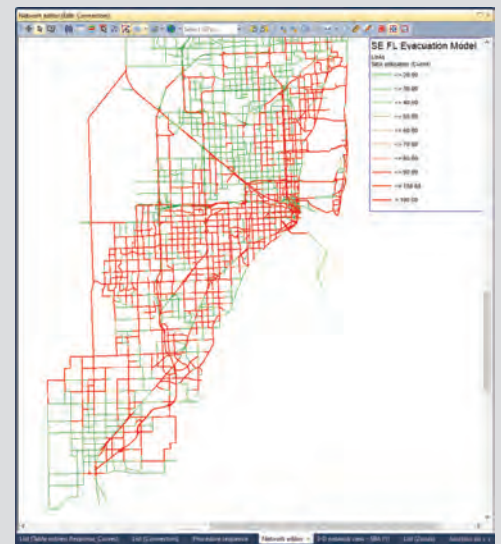
Model Renders of Traffic Surge During a Hurricane Evacuation Over a 24-Hour Period



Traffic Speed



Traffic Volume



Road Utilization

ISC's Evidence-Based Evacuation Planning Guide



1

Thoroughly Understand the Community's Hazard Risks and Vulnerabilities.

2

Consider Those with Functional Needs and Limited Access to Transportation.

3

Don't Undervalue People's Connection to Their Pets.

4

Don't Disregard Social Behaviors and Their Effect on Evacuation Orders.

5

Understand Evacuation Clearance Times and Limitations.

6

Identify Evacuation Zones and Re-Entry Strategies.

7

Incorporate Expert Knowledge and Innovations.

8

Institutionalize Unified Command.

9

Involve the Whole Community in the Inclusive Evacuation Planning Process.

10

Community Outreach, Education, and Awareness of Evacuation Procedures.

11

Routinely Evaluate and Improve Evacuation Strategies.

Contact ISC today to learn more.

