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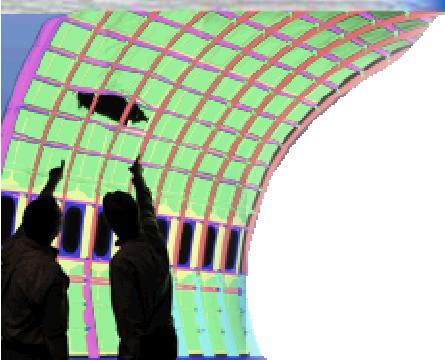
Date 6/1/12



Standard Unified Modeling, Mapping & Integration Toolkit (SUMMIT)

Katherine Guzman
SUMMIT Team

Sandia National Laboratories



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SUMMIT supports national preparedness

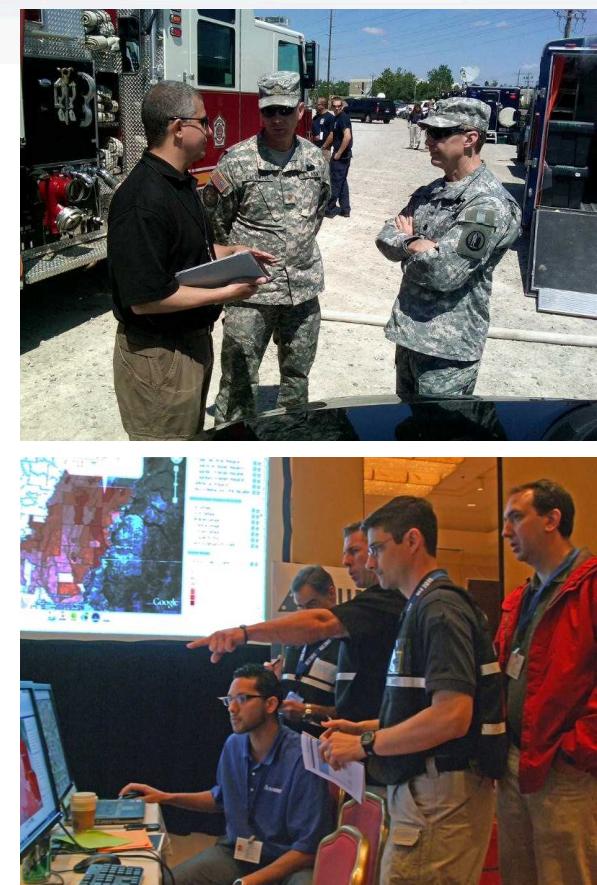


SUMMIT
STANDARD UNIFIED MODELING, MAPPING, AND INTEGRATION TOOLKIT

NATIONAL EXERCISE & SIMULATION CENTER

Developed by
 Sandia National Laboratories

 **FEMA**
 **Homeland Security**
Science and Technology



SUMMIT is a modeling & simulation software environment that enables analysts, emergency planners, responders, and decision makers to seamlessly access integrated suites of modeling tools & data sources for planning, exercise, or operational response.



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Emergency preparedness is broad

Emergency preparedness requires planning for many different scenarios.

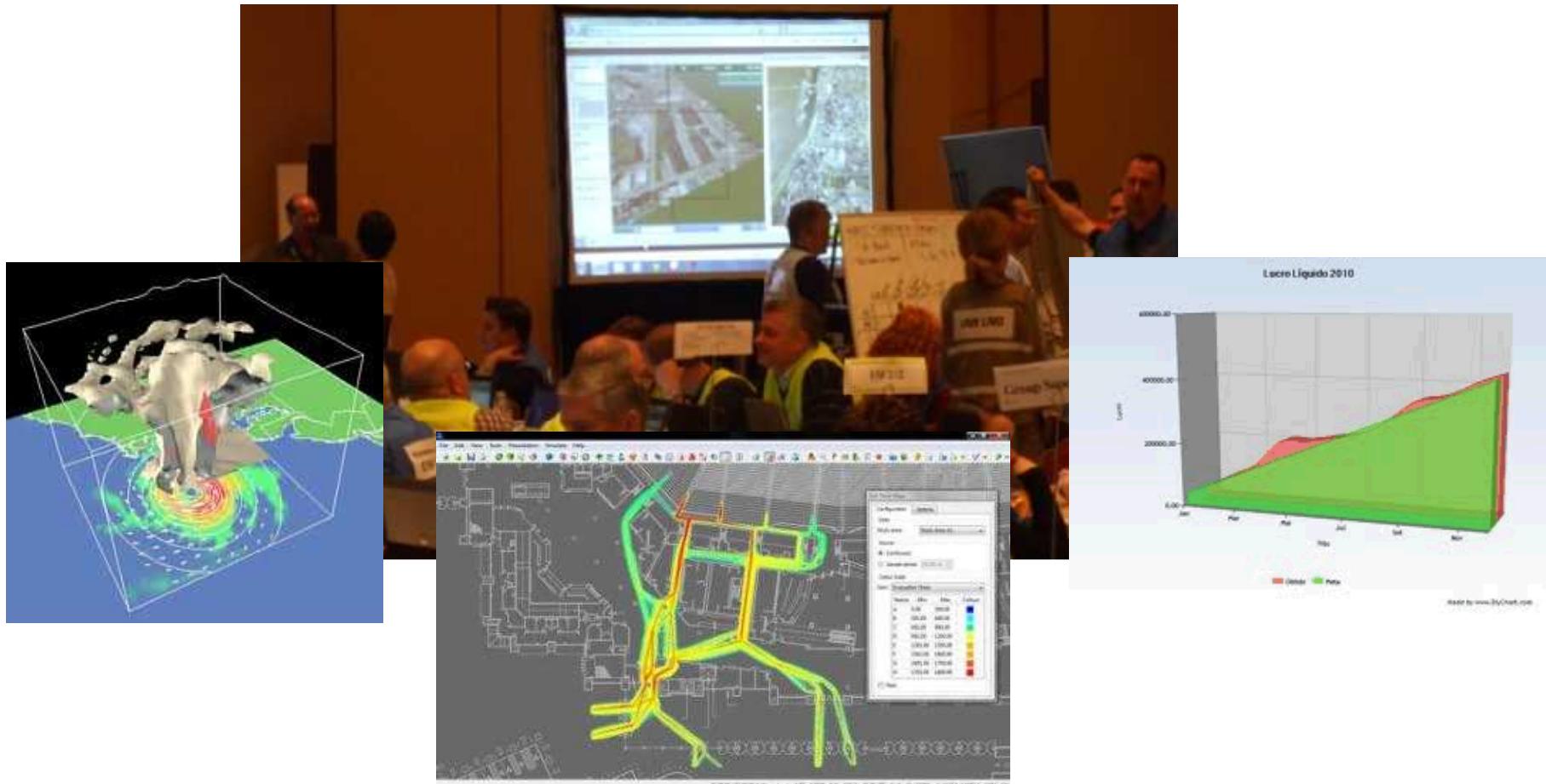


SUMMIT is not restricted to any single scenario



Emergency preparedness scenarios are broad

Emergency preparedness scenarios require threat and consequence models.



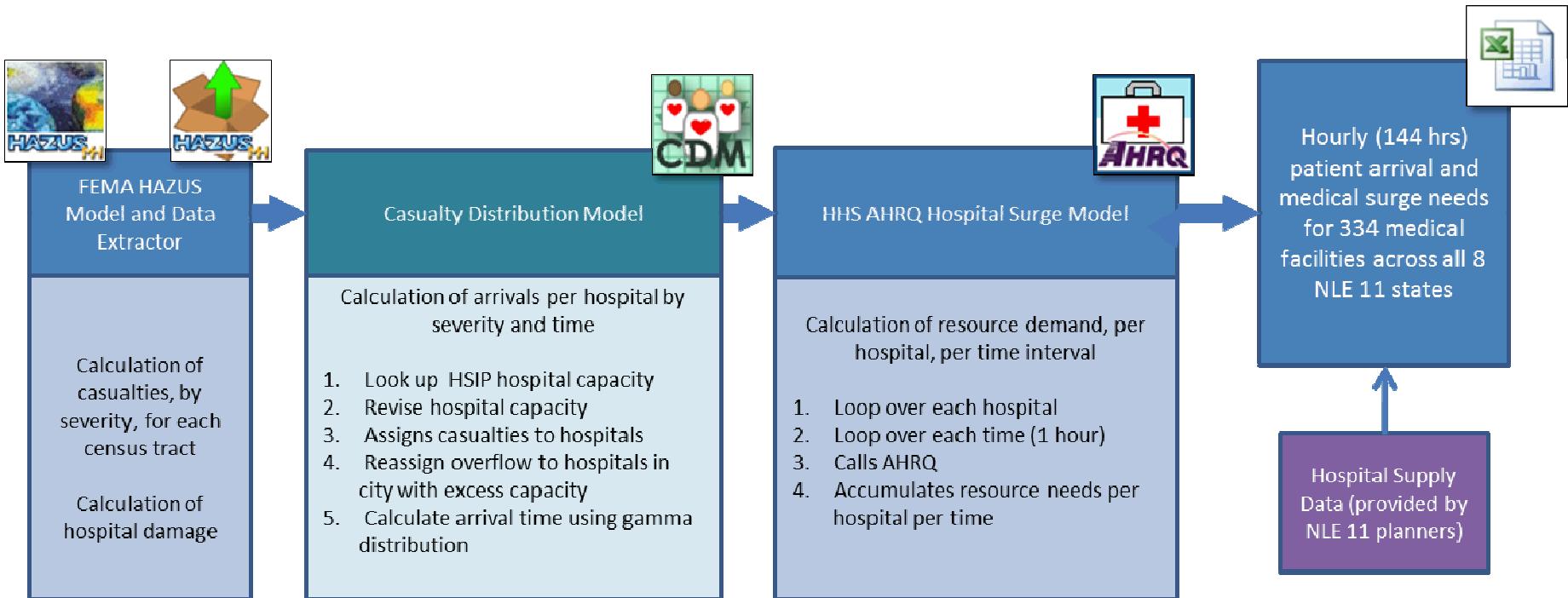
SUMMIT ties together existing modeling capabilities.



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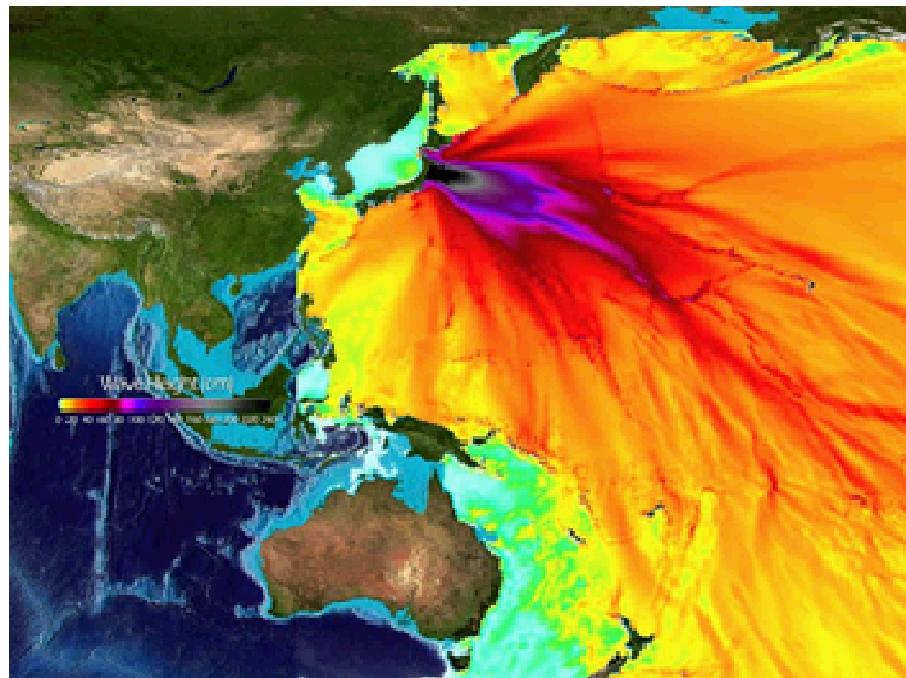
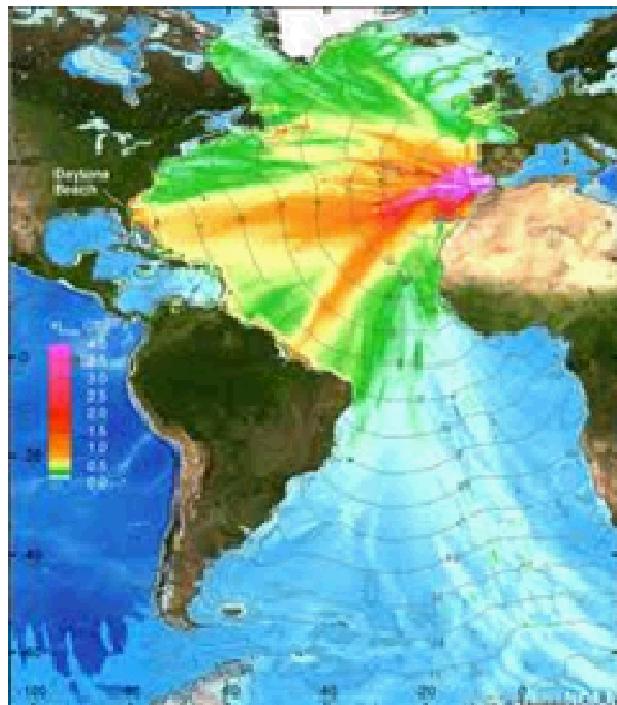
SUMMIT links together modeling capabilities to create an end-to-end scenario





There are common emergency preparedness needs

Emergency managers across the nation need to plan for similar scenarios and similar considerations.



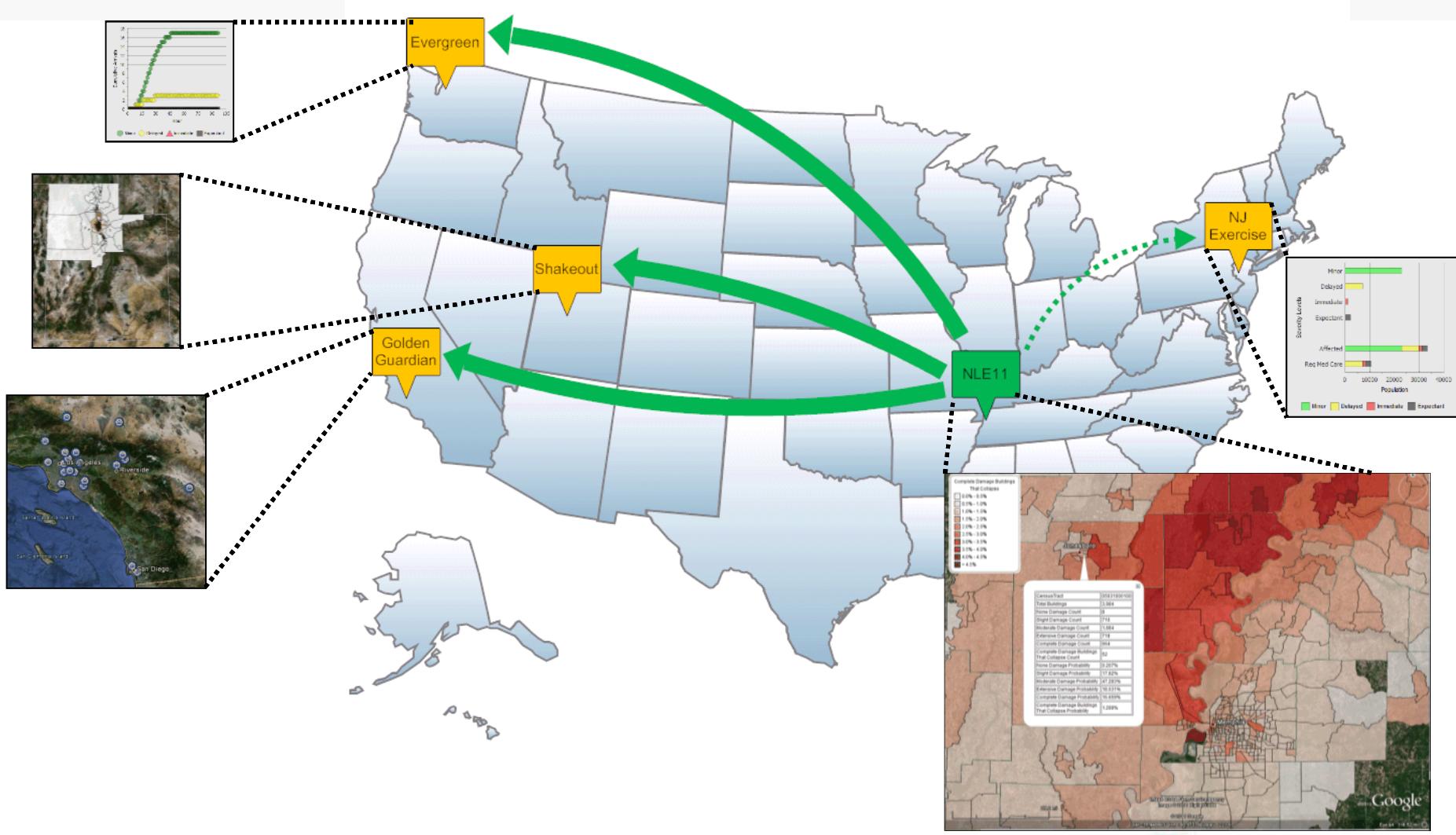
SUMMIT can model a given scenario for many locations, making modeling resources reusable.



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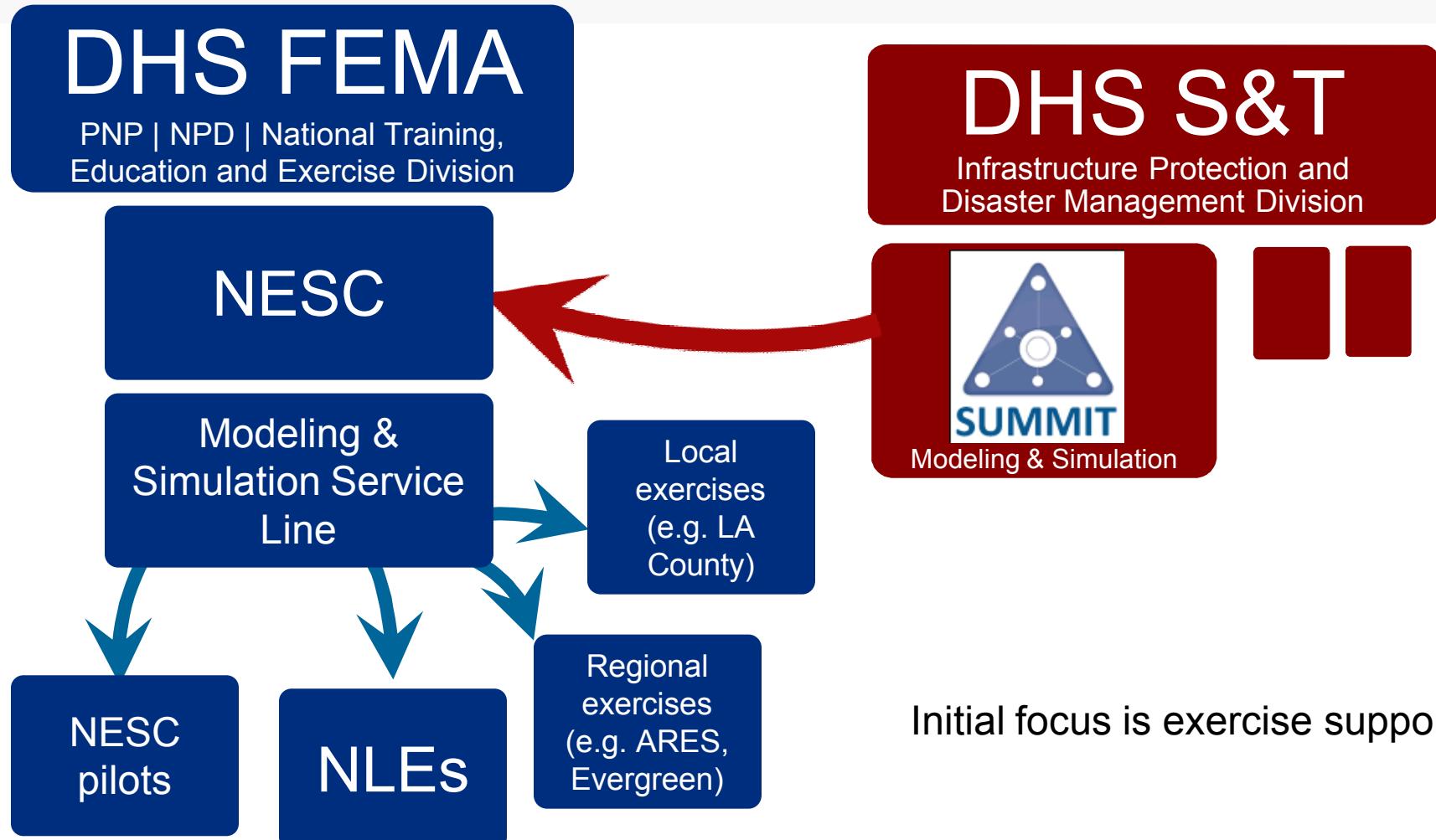
SUMMIT scenarios have been reused across the nation



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SUMMIT will be hosted at the FEMA National Exercise and Simulation Center (NESC)



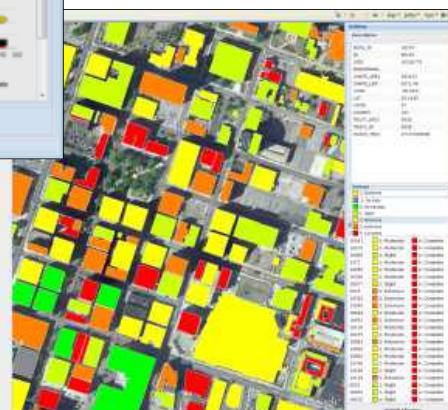
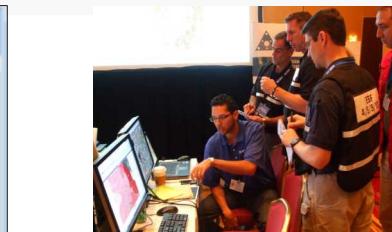
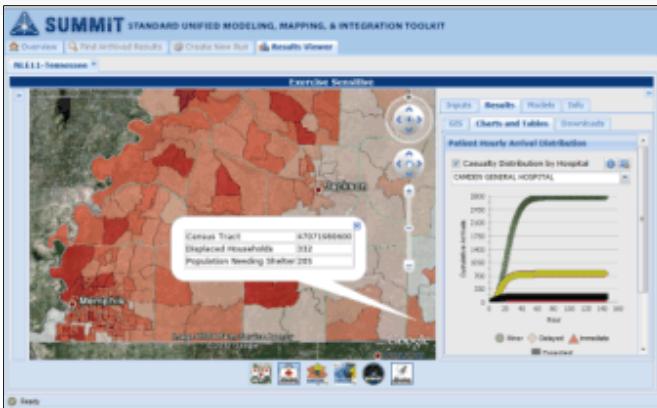
Initial focus is exercise support



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SUMMIT enhances exercise efficacy



- **Rapid scenario creation**
 - Planners use SUMMIT to generate and refine scenario data
- **Bridging model- and objective-driven exercises**
 - Planners use SUMMIT to adjudicate data to meet objectives
- **Common operating picture**
 - Controllers use SUMMIT to visualize scenario data
- **Next-Generation immersive visualization**
 - Players use SUMMIT to view scenario data in a virtual world



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SUMMIT ▲ SUPPORTED

EXERCISES



SUMMIT Contact Information

SUMMIT Program Manager
Jalal Mapar
Infrastructure Protection/Disaster
Management Division
DHS Science & Technology
Jalal.Mapar@dhs.gov



Homeland Security

A screenshot of the SUMMIT website. The header features the SUMMIT logo (eagle with wings spread) and the text "SUMMIT" in large letters, with "Standard Unified Modeling, Mapping & Integration Toolkit" below it. The navigation menu includes "Home", "SUMMIT in Action", "Learn More", "News", and "Contact Us". The main content area shows a photograph of three men in military uniforms standing in front of a red fire truck. Below the photo is the text "SUMMIT piloted at FEMA's National Level Exercise 2011" and a description: "DHS modeling & simulation software allows first responders to visualize post-event disaster environments. Read more >". The bottom of the page is divided into three sections: "What is SUMMIT?", "See SUMMIT in Action", and "SUMMIT User Login".

What is SUMMIT?
SUMMIT is a modeling & simulation software environment that enables analysts, emergency planners, responders, and decision makers to seamlessly access integrated suites of modeling tools & data sources for planning, exercise, or operational response. SUMMIT is being used in small and large-scale exercises to accelerate scenario planning, provide scientifically-grounded scenario data, and enhance the realism and common operating picture. [Learn more >](#)

See SUMMIT in Action
SUMMIT Results Archive: This video demonstrates SUMMIT's capability to find, view, and use results to create new runs.
[More videos of SUMMIT in action >](#)

SUMMIT User Login
Username:
Password:
[Login](#) [Forgot your password?](#)
Don't have an account? [Contact us](#).

<https://dhs-summit.us>

National Exercise and Simulation Center
Justin Legary
National Exercise Division
Federal Emergency Management Agency
Justin.Legary@fema.dhs.gov

Sandia SUMMIT Program Manager
Nate Gleason
njgleas@sandia.gov



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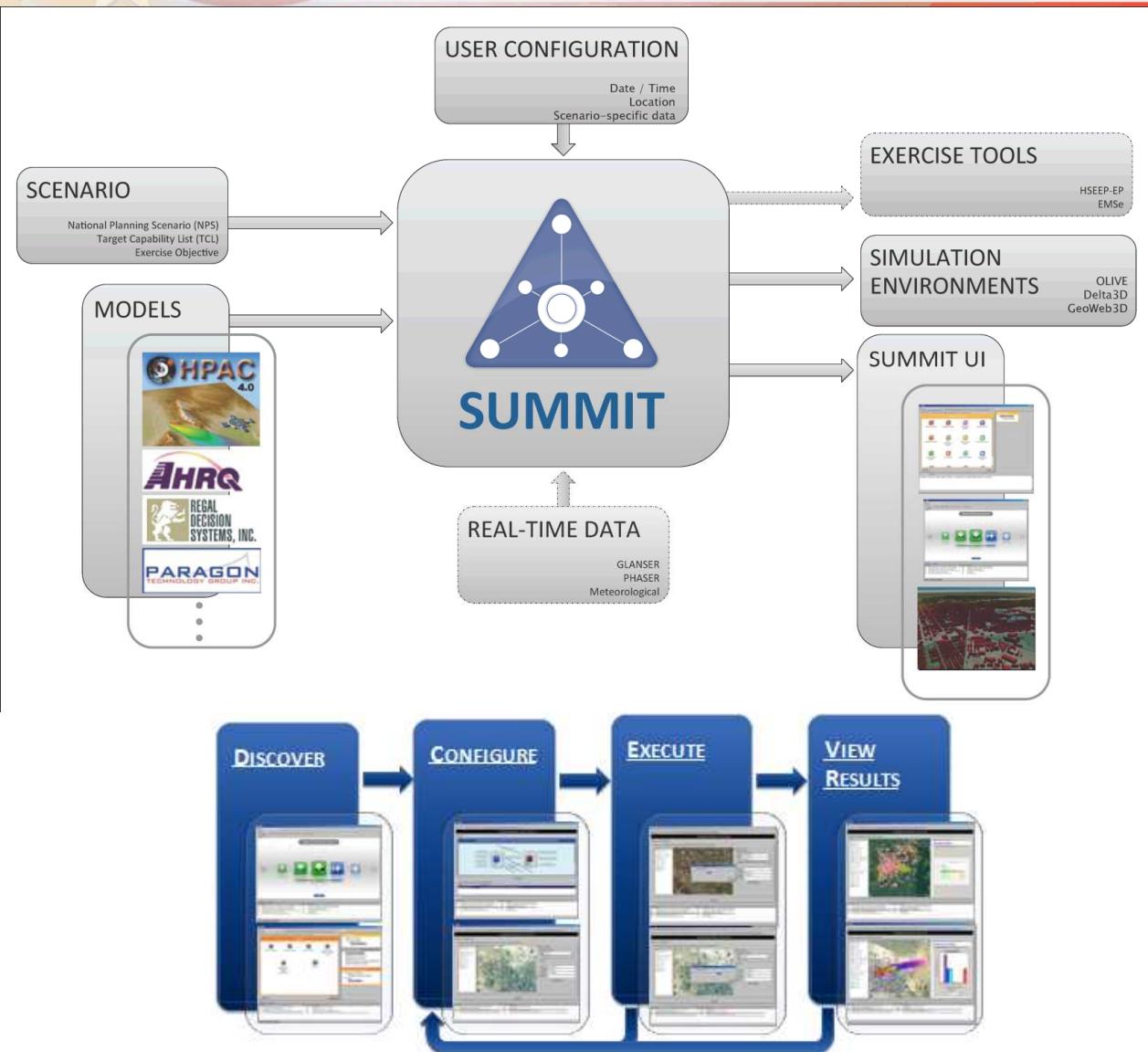
BACKUP SLIDES



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SUMMIT Components



Mission Need:

The emergency preparedness community needs reliable access to, and ability to generate science-based information and data that supports evolving emergency planning, exercises and response operations, and that is consistent, readily interpretable, secure, and easy to share.

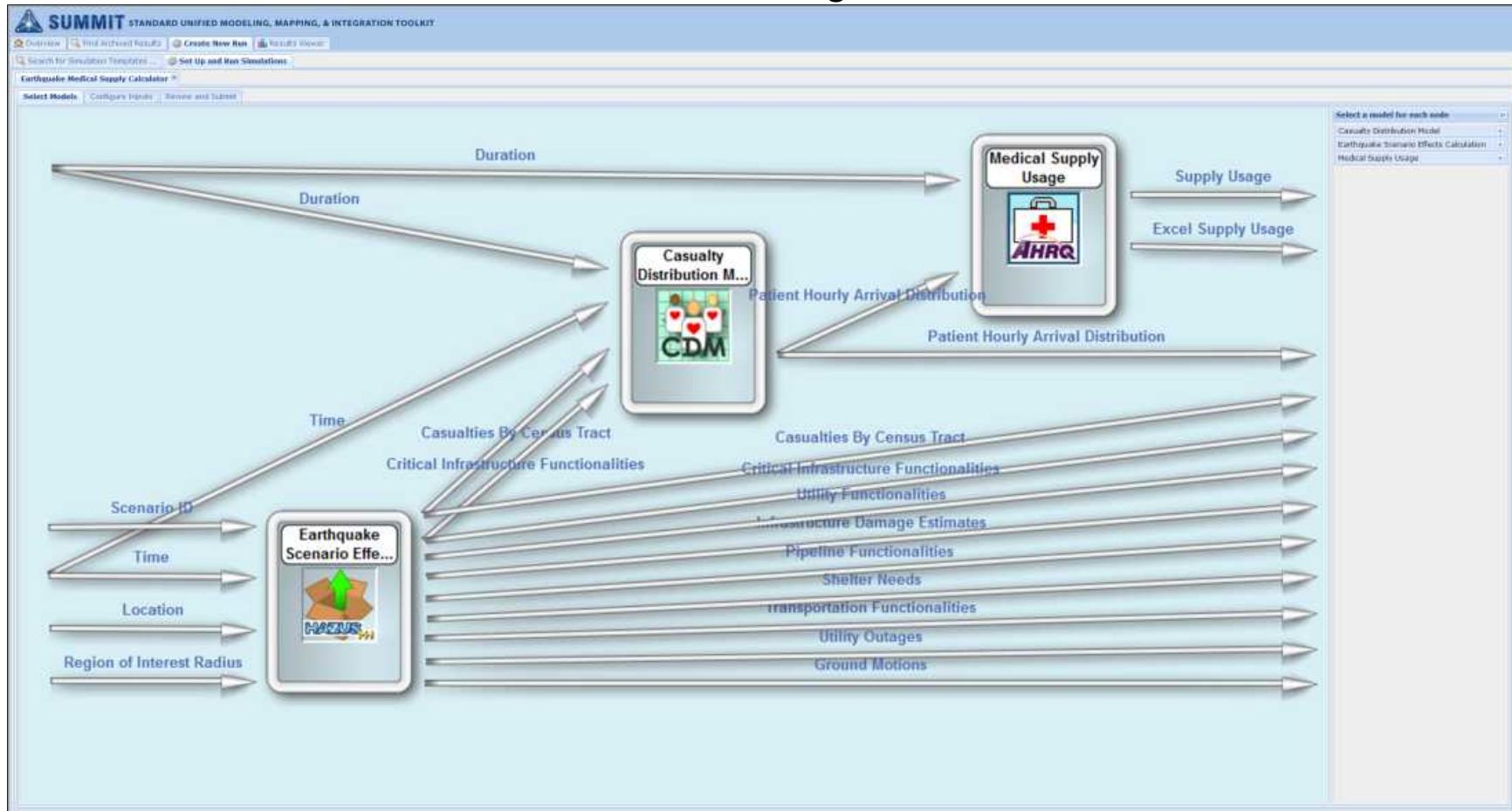


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SUMMIT architecture links models in a flexible manner

SUMMIT architecture uses templates, model/data slots, data types, and libraries to create a flexible model integration framework



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