

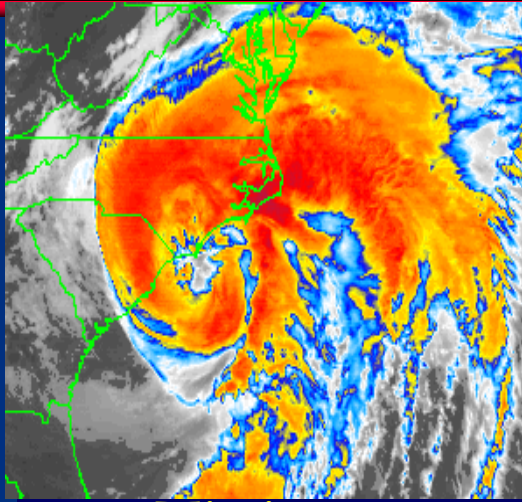


U.S. Department of
Homeland Security

Disaster Assessment and Response Operations

Woodrow Goins Jr.
Director
FEMA Pacific Area Office

FEMA Response Mission & Objectives



Mission

**Prepare for and Lead
the Federal
Government's Response
to Terrorist Attacks and
Major Disasters**



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Objectives

- **Save Lives**
- **Protect Property**
- **Ensures Basic Human Needs are Met**

Response Operations

Effective response operations depend on:

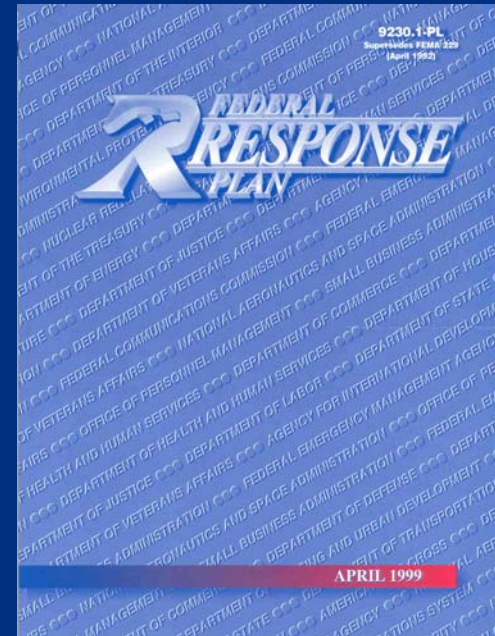
- Accurate and timely **assessments** of damage and unmet needs
- Robust **logistics** capabilities for mobilizing and supporting National-level response operations



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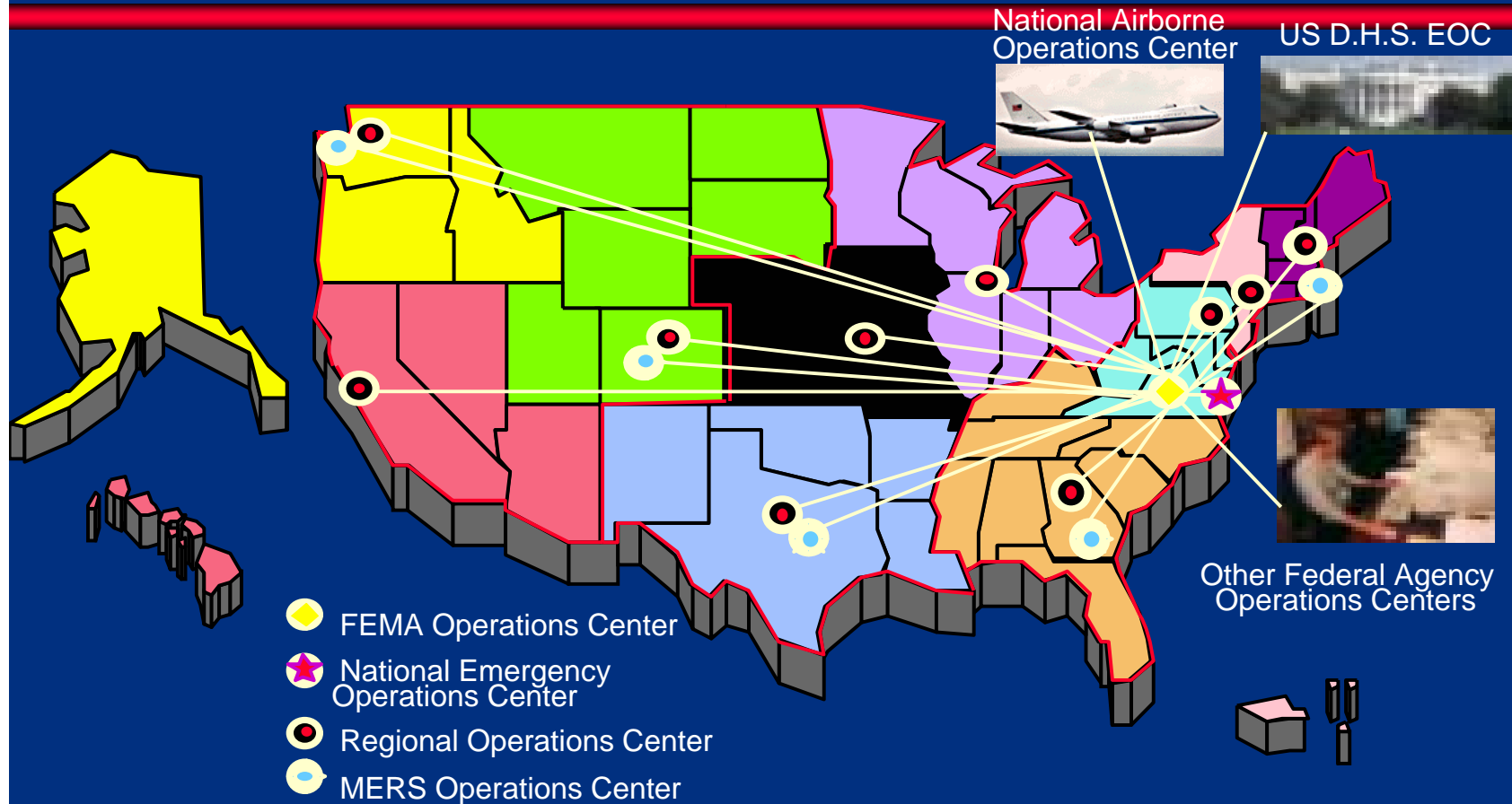
Federal Response Plan

- All-hazards architecture for delivery of Federal assistance
- ESF#5 “Info & Plans” focuses on interagency damage and needs assessments
- 27 Federal agencies/12 Emergency Support Functions (ESFs)



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Network of Operations Centers



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National Emergency Operations Center

- Managed by FEMA personnel and other Federal agencies
- Performs continual situation/event monitoring around the world
- Coordinates activation of immediate assessment resources and teams
- Coordinates, prioritizes and deploys Federal response assets
- Provides national-level oversight and coordination



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Damage/Needs Assessment Elements

- **Essential elements of information**
- **Predictive modeling**
- **Remote sensing**
- **Ground assessment**



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Assessment Elements

Essential Elements of Information:

- Categories or types of information deemed **essential** to effective decision making
- Baseline EEIs are pre-identified; but **situationally modified** to meet event requirements



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Assessment Elements

Assessment Support EEIs:

- Predictive modeling impact projections
- Initial needs & damage assessments
- Status of communications systems
- Status of transportation systems
- Status of operating facilities
- Status of critical facilities
- Status of critical distribution systems
- Status of energy systems
- Status of critical resources



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Assessment Elements

Use predictive modeling to determine:

- Potential degree of damage
- Geographic area at-risk or impacted
- Population at-risk or impacted
- Possible locations for operating facilities
- Resources required for unmet needs
- Possible priorities for time-phasing



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Assessment Elements

Predictive modeling examples:

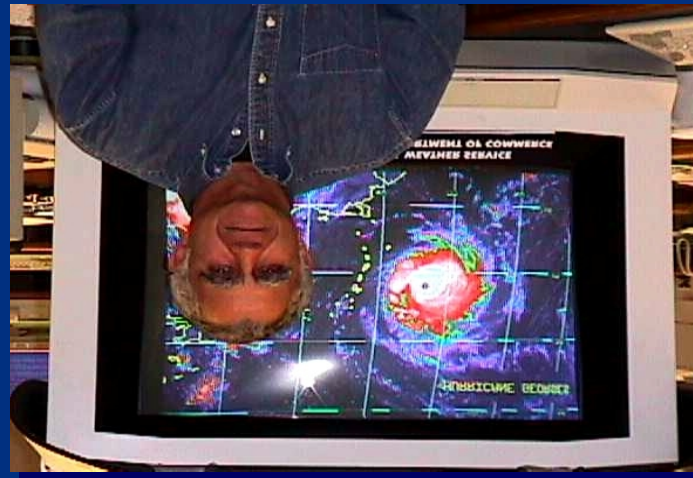
- Sea, Land and Overland Surges from Hurricanes (SLOSH) Models
- Storm Track Modeling
 - National Weather Service (Atlantic)
 - Joint Typhoon Warning Center (Western Pacific)
- National Weather Service Long-Range Forecasting Models



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Hurricane Liaison Team

Hurricane Liaison Team supports effective response to hurricanes by providing capability to exchange information between emergency managers and the National Hurricane Center



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Assessment Elements

Geographic Information System (GIS)

- Portrays critical information for decision-makers
- Computer based system for the capture, storage, retrieval, manipulation and display of geographic information
- Products include maps, tables, demographic information
- Overlaid maps with predicted storm tracks



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Assessment Elements

Use remote sensing (aerial or satellite derived) to:

- Refine predictive modeling data
- Verify field reports
- Determine areas of extreme damage and identify affected populations
- Refine response requirements
- Adjust resource ordering and time-phasing



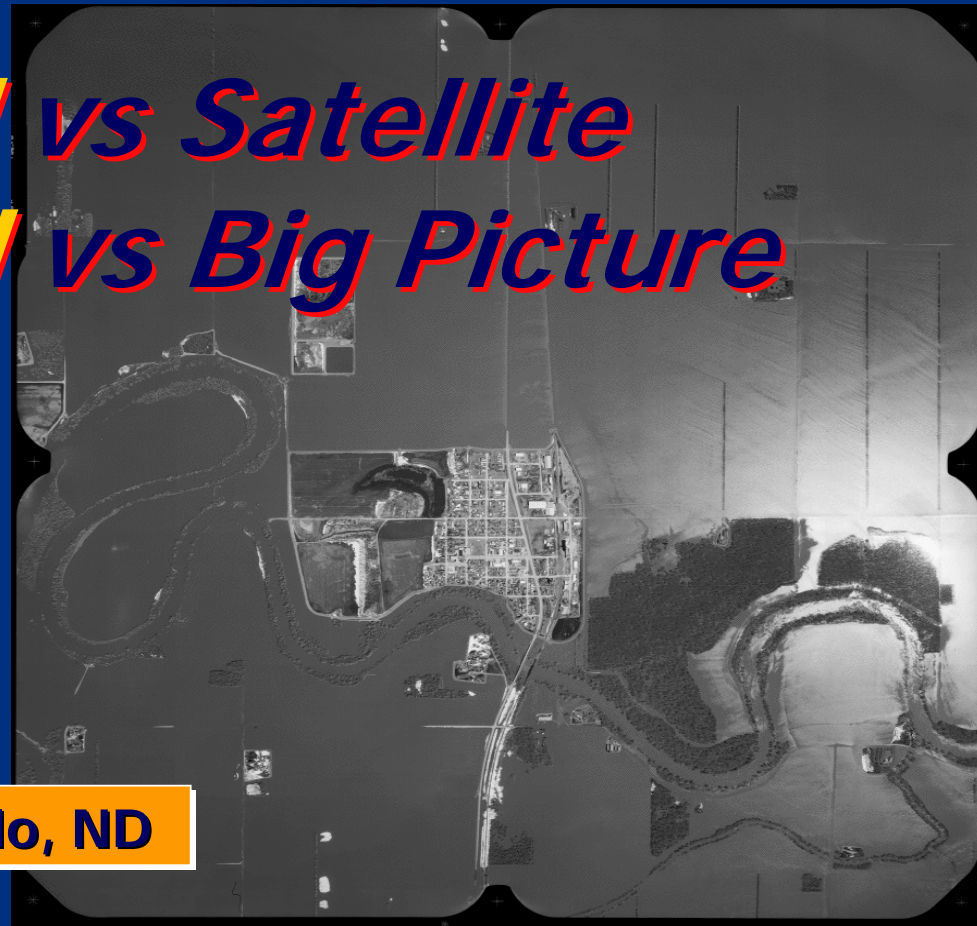
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Assessment Elements

Aerial vs Satellite
Detail vs Big Picture



Oslo, ND



Assessment Elements



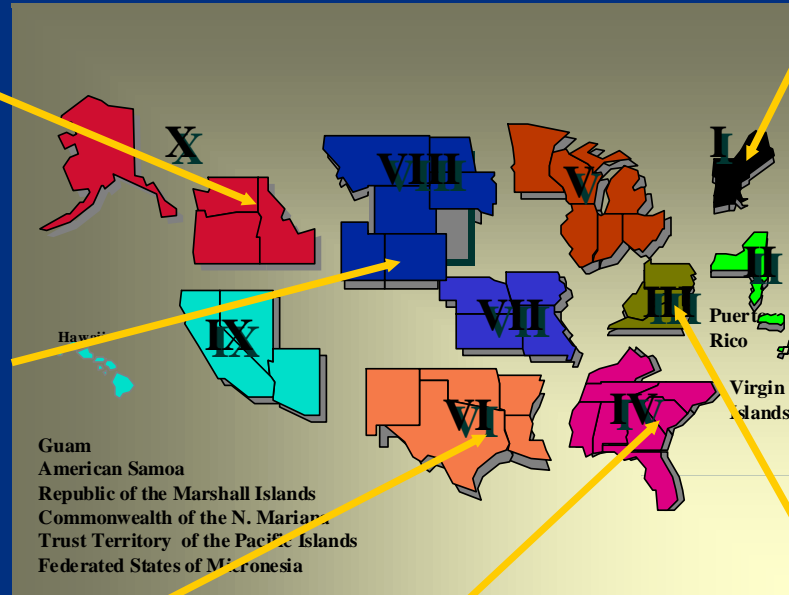
Rapid Needs Assessment Team

- Small and self-sufficient
 - Interagency team of technical experts
 - Collects and provides critical assessment information
 - Completes mission within 24-72 hours
-
- ***Critical information used for decision-making***



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MERS/MATTS



Detachments of Mobile telecom, life support, logistics and operational support, and power generation required for the on-site management of disaster response activities



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Response Teams and Resources

- Urban Search and Rescue Teams
- Disaster Medical Assistance Team
- Hazardous Materials Control Team
- Domestic Emergency Support Team (Terrorism)



- **Emergency Resources:**
Water, Ice, Plastic Sheeting,
Food, Tents, Meals Ready to
Eat, Generators, Medicine,
etc.



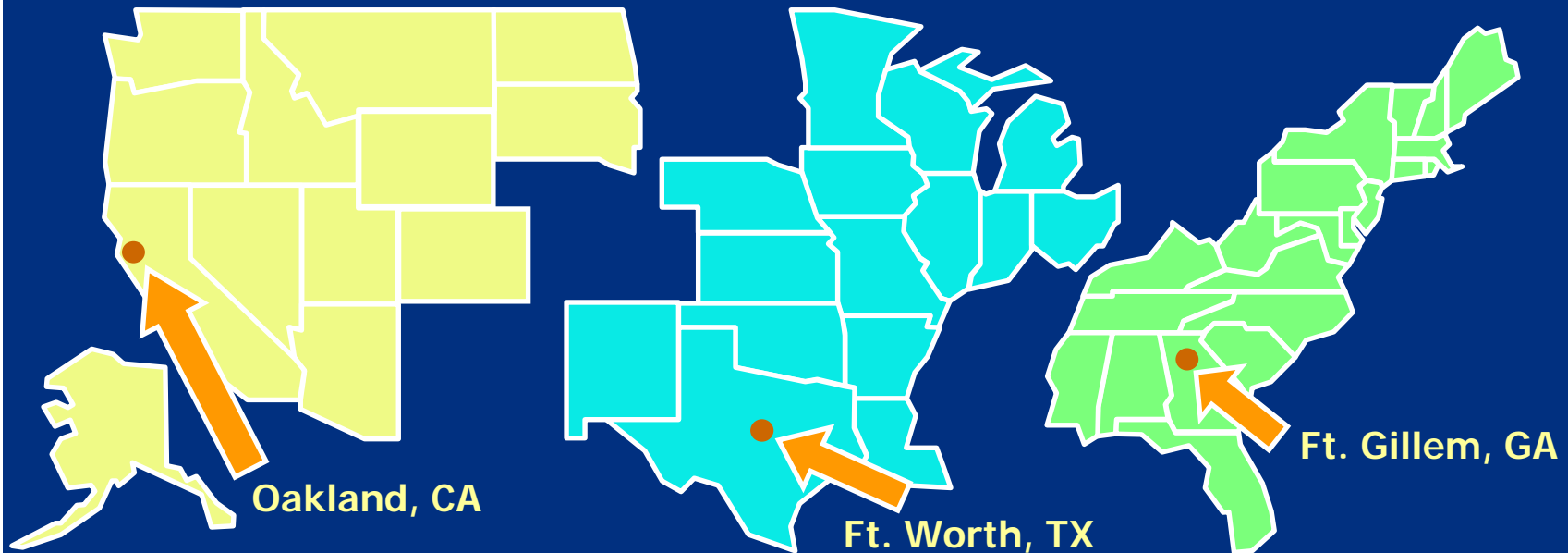
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Logistics Facilities

West Territory

Central Territory

East Territory



● Logistics Storage Centers



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Time-Phased Deployment

Moving the right resources to the right place at the right time, according to pre-agreed priorities of movement.

- **Time-phasing** controls daily flow of resources into disaster area.
- **Standard resource descriptions** make loading, transport, and storage easier.
- **Coordination** of priorities, transport, and distribution management is critical.



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Emergency Logistics Facilities

Mobilization Center(s)

- Set up *near* disaster area
- Usually military base or airport
- Used for receiving & storing federal resources including emergency teams



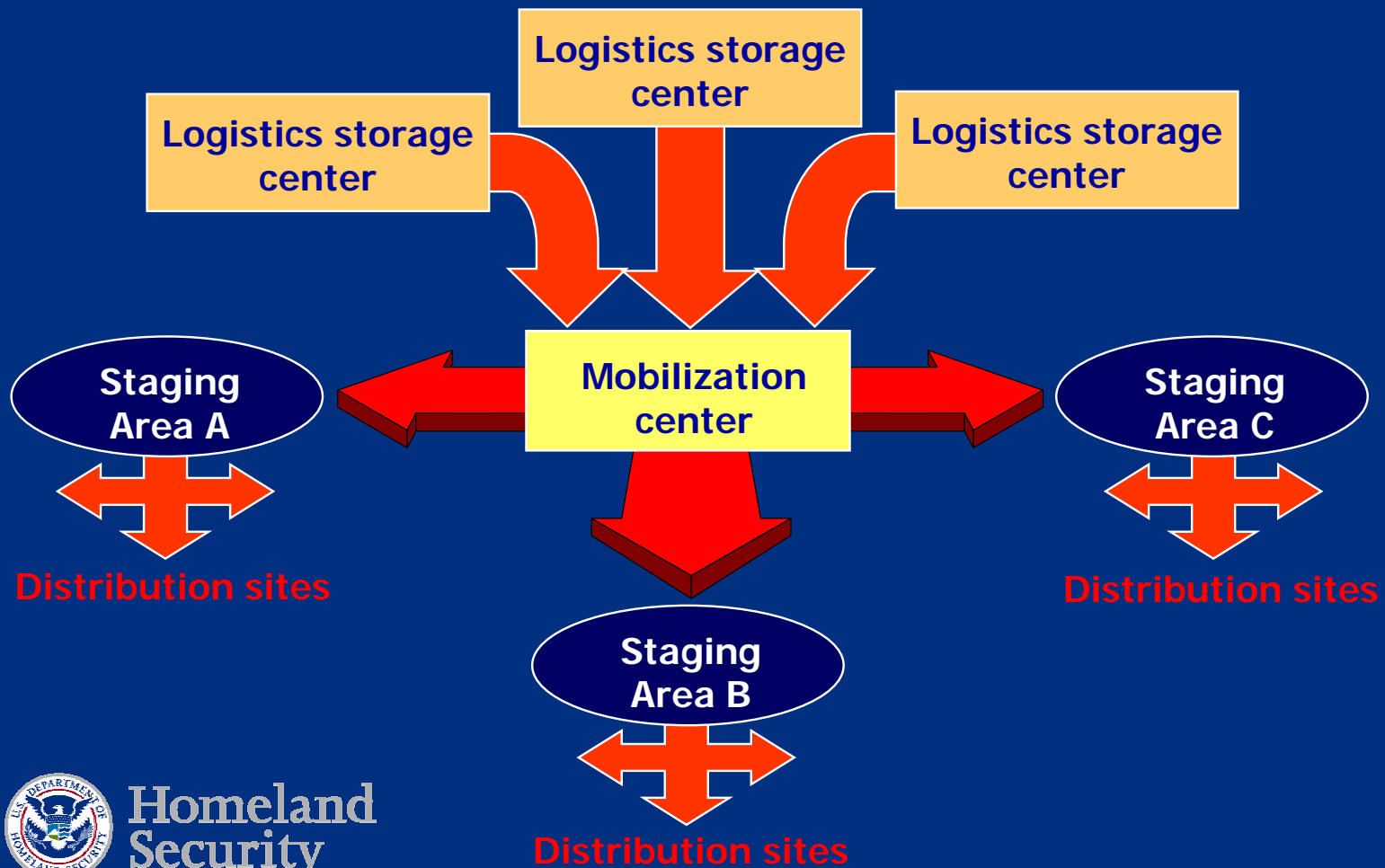
Staging Areas

- Temporary sites set-up to facilitate transfer of resources to state and local governments



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Logistics Facilities



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Summary

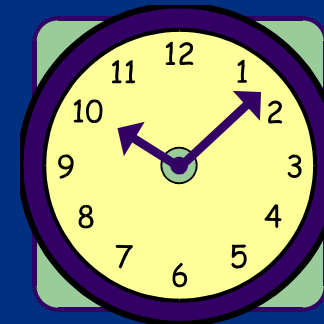
Get the right
resources ...



... to the right *place*



... at the right *time*



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Questions?