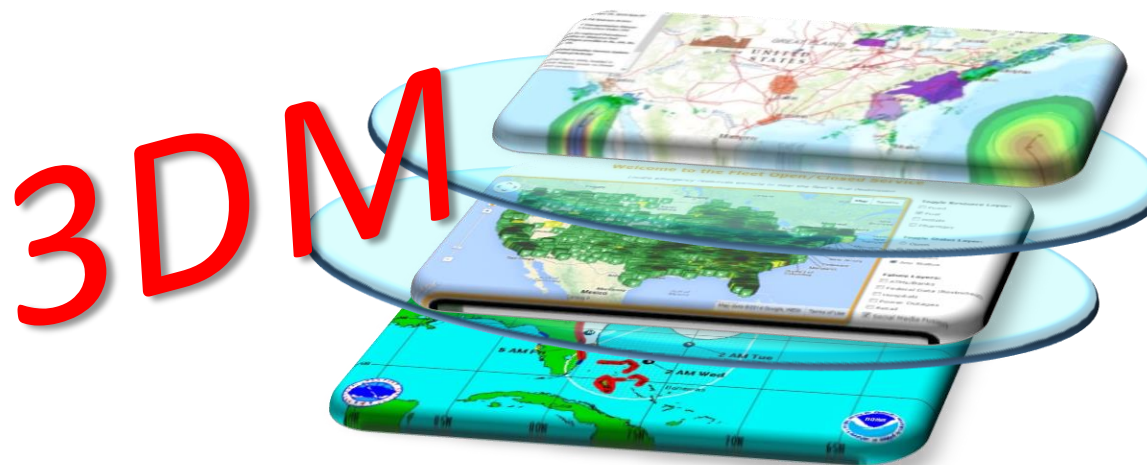
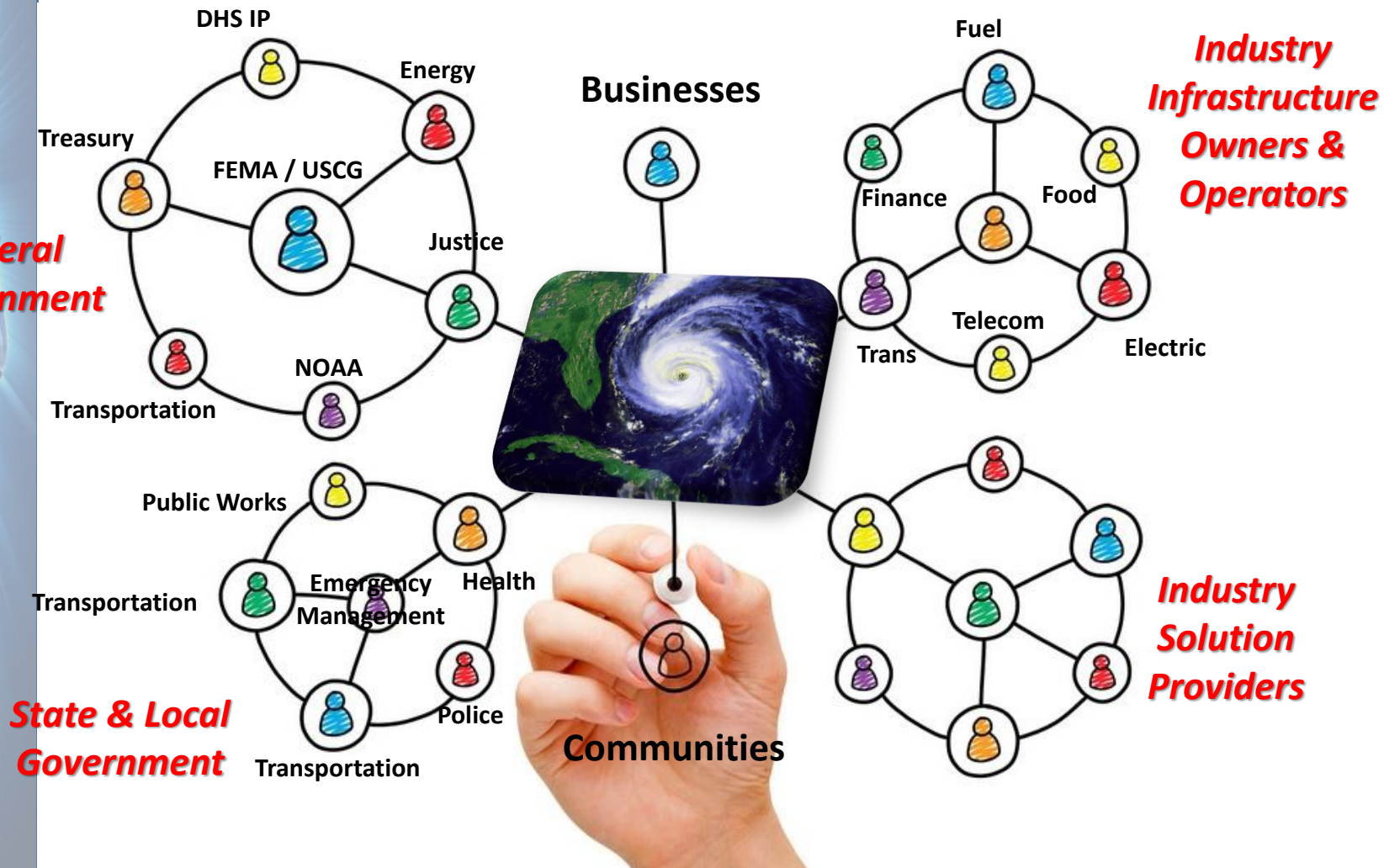


Improving Resiliency w/Better Data



Data Driven Decision Making

Regional Disasters Expose Coordination Issues



Need for Better Data For Decision Makers

Access & Reentry (for repair crews to get into impacted areas)

Social Media (disaster incident related)

Drone / UAS Data

Lodging Availability

Damage Assessment Data (Satellite Imagery, Drone Pics, etc..)

Transportation (Road, Bridge Tunnel Closures)

Weather Forecasts (Snow, Ice, Tornado, Hurricane)

Fuel Availability

Coastal Flooding / Surges

Security (Looting, Active Shooter, etc..)

Flooding / Surge / Tidal

Food / Water

Weigh Stations Open/Closed

Building Supplies / Retail Stores

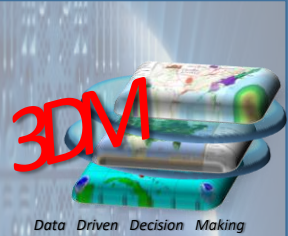
Toll Stations Open/Closed

US/Canadian Border Crossing

Power Outages & Restoration

Critical Infrastructure Locations (Towers, Pipes, Buildings, Underground Assets)

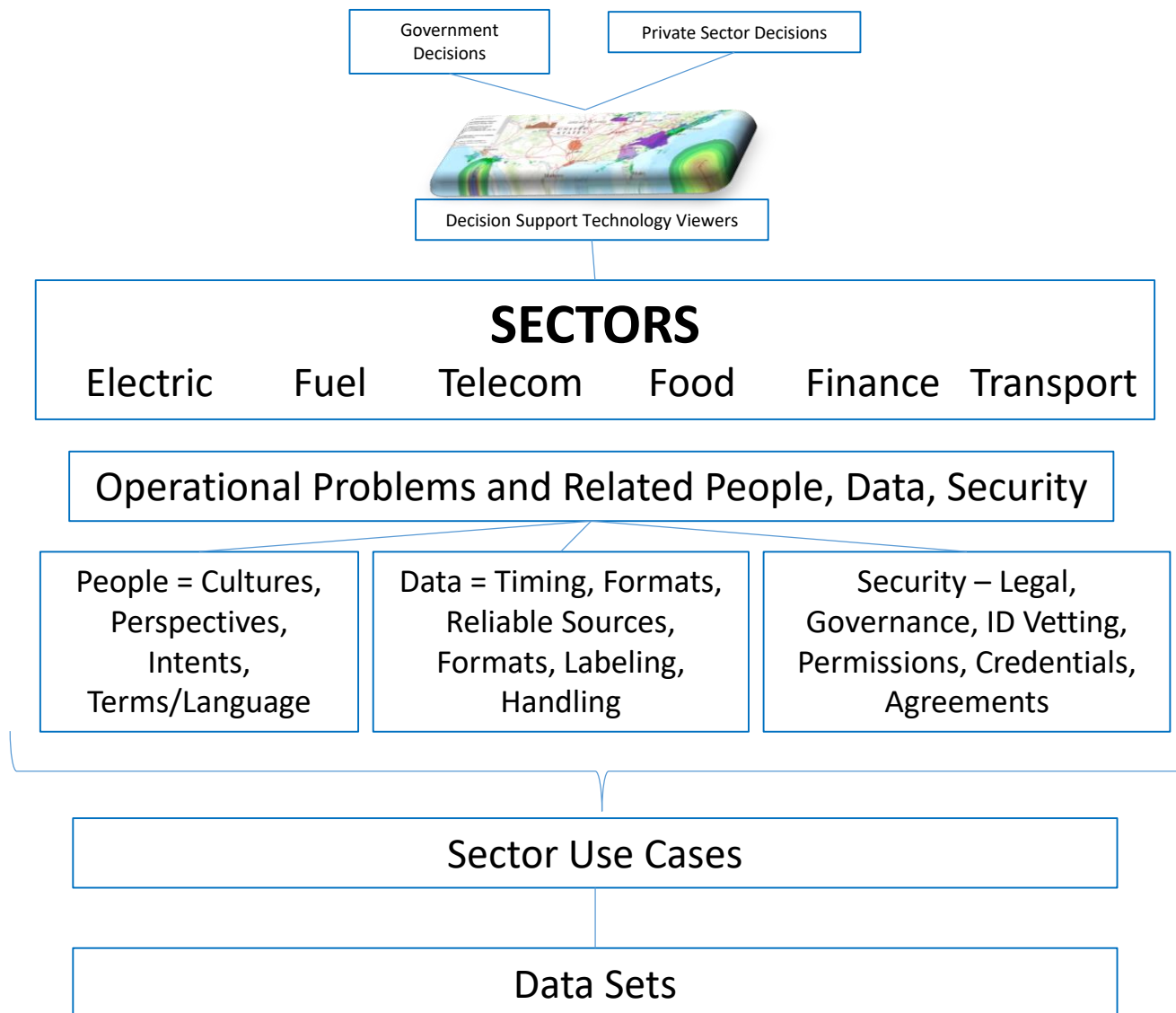




3DM Initiative Process

- Establish Work Group
- Leverage SISE Trust Framework & Philosophy
 - Simple, Operational Benefit, Results
- Develop Operational Use Cases
- Identify & Integrate Data Sets
 - Short, Mid and Long-Term Data Sets
- Leverage Technology Partners
- Test, Validate and Operationalize

Use Case Methodology



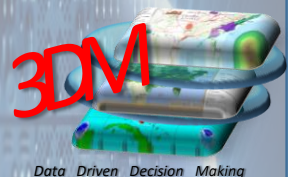


Emergency Resource Library

Data Sets To Support Decision Makers

Data Driven Decision Making

Currently Available	In Development	Future
<ul style="list-style-type: none"> Weather Radar/Storms State Declarations & Waivers Flooding Rivers Low Height Bridges & Tunnels Open/Closed Retail Facilities (Hughes)- Fuel, Pharmacies, Hotels State Post Disaster Re-Entry Procedures 	<ul style="list-style-type: none"> Banks Branches ATM Machines for Cash Commercial Fueling Stations (For Large Trucks and Commercial Vehicles) Convenience Stores Home Improvement Centers (Hardware & Supply Stores) Commercial Generators- Mobile Commercial Generators- Fixed Units Ice- Dry Ice Ice- Bagged Ice 	<ul style="list-style-type: none"> Mold Removal Fire Restoration Propane Heating Oil Oxygen- Bottled Storage Facilities- Refrigerated Storage Facilities- Controlled Environment Storage Facilities- Warehouse Lighting- Portable Laundry Services Pumps- Industrial (Flood Alleviation) Trucks- Rental Trucks- Refrigerated Trucks- Storage Trailers Rental Equipment Facilities- Forklifts, Bucket Trucks, etc. Cleanup- Bulk Sorbents & Products Waste Disposal Services Waste Disposal Services- Hazardous Wastes Mitigation Services- Business Continuity/Disaster Recovery Portable Satellite Equipment & Services Satellite Phones/Radios Trunk Repair Facilities Medical Supplies & Equipment Available Housing Units/Apts Drone Resources (Training, Operations, Equipment, Countermeasures)



Thank You



In Coordination With:

- Edison Electric Institute (EEI)
- Federation of Earth Science Information Partners (ESIP)
- DHS NPPD, Office of Infrastructure Protection (DHS-IP)
- NOAA/ National Weather Service
- Multi-State Fleet Response Working Group (FRWG)
- East Coast Corridor Coalition (EC3)