

FirstNet Emergency Management Application

State of Michigan
Major Events and Potential Uses



FOCUS

- **EMHSD Role**
- **Declaration Process**
- **Decision Making**
- **Need for Validated Information**
- **Potential FirstNet Application in Past Disasters**



ABOUT MSP/EMHSD

- Protect health and safety of the public
- Protect property
- Manage and staff the State
Emergency Operations Center
- Coordinate local, state and federal
emergency management activities
across Michigan
- Direct use of state assets during and
after events



DECLARATION PROCESS

- Local Response
 - Incident / Event occurs
 - Local jurisdiction response
 - Declaration of a “local state of emergency”



DECLARATION PROCESS

- State response
- SEOC activation
- Key factors for a Governor's declaration of "disaster"
 - Widespread
 - Severe
 - Impact to public health and safety
 - Community impact
 - Assistance requested by local jurisdiction



DECLARATION PROCESS

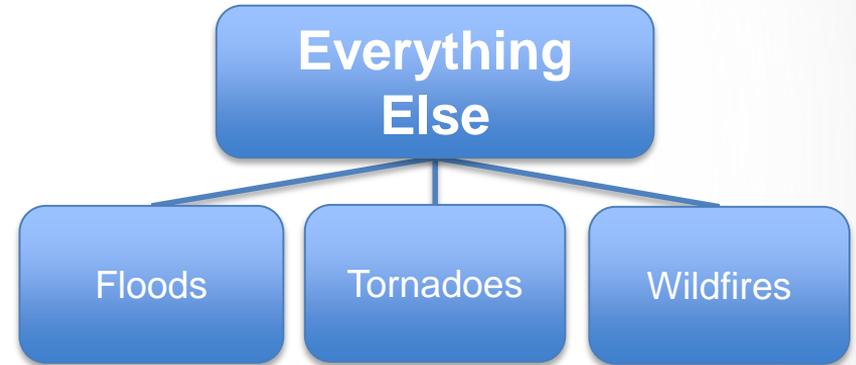
- Federal
- Joint Preliminary Damage Assessment
- Presidential declaration of “disaster”
- Public Assistance
 - County per capita - \$3.56
 - State per capita - \$1.41
- Individual Assistance
 - 582 “non-threshold”
 - Community impact



FEMA



TYPES OF INCIDENTS



CHALLENGES

- Access to timely, accurate information...situational awareness
 - Local jurisdiction is challenged with competing needs
 - Respond to the event
 - Compile data
 - Communicate at local level and to EMHSD
 - Situation is typically very fluid and dynamic
- Real time accurate information that depicts the situation is very difficult to obtain, but absolutely necessary



CURRENT COMMUNICATIONS

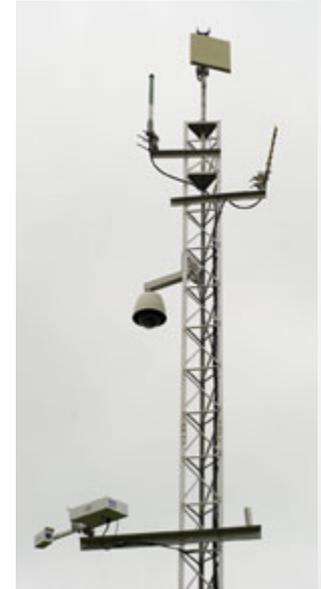
STRENGTHS AND LIMITATIONS

- Desk phones...familiar and always there / Internet based
- Cell phones...ubiquitous; cameras / limited capacity
 - WPS
 - GETS
 - Not “public safety grade reliability”
 - Data bandwidth limited, especially during emergencies
- MI CIMS...documentation/not for urgent issues
- MPSCS...great coverage and reliability / Limited data capability
- Satellite Telephones...limited event impact / quantity; cost



PUBLIC SAFETY BROADBAND NETWORK

- Would enhance emergency management and response
- Tap into multiple video sources
 - Fixed cameras on MDOT trunk lines
 - Schools
 - Malls
 - Street cameras



PUBLIC SAFETY BROADBAND NETWORK

- MSP Aviation Fixed-Wing, Rotary and UAS
 - Stream real-time video to EOC
 - ...to on-scene commanders and responders
 - Instant situational awareness
 - Direct rescue and recovery resources



RECENT INCIDENTS

- Portland tornado
 - 5 tornados over widespread area in Michigan
 - 1 location problematic
- Would have been beneficial to...
 - See flyover video real time instead of several hour delay



RECENT INCIDENTS

- Grand Traverse and Leelanau
 - Straight line wind across 2 counties
 - Damage concentrated in spots, but widespread impact
 - Took a week to fully understand impact
- Would have been beneficial to...
 - Quickly see damage



SOUTHEAST MICHIGAN FLASH FLOOD

- Wayne, Oakland, and Macomb
 - Weekday evening
 - EOC activations not until the next day
 - Largest event in Michigan since 2000
- Would have been beneficial to...
 - Have MDOT freeway video
 - Aerial data
 - Provide to impacted local jurisdictions



SLEEPER LAKE FIRE

- Schoolcraft County
 - Where is the fire?
 - Where are the homes?
 - Cell phone coverage
- Would have been beneficial to...
 - See everything real time
 - Critical to know acreage and homes burned



LAW ENFORCEMENT

- Current systems
 - Email, MPSCS, cell phones
- Data transmission
 - Floor plans, suspect photos, missing persons
- Video
 - Aerial, other cameras
- Events
 - MIS, Grand Prix, Super Bowl, Right to Work





**A PROUD tradition of SERVICE, through
EXCELLENCE, INTEGRITY, AND COURTESY**

