

Some examples of how mobile  
broadband technologies are used  
by:

Lexington Divisions of Fire and  
Police

# Lexington Public Safety

- Division of Fire and Emergency Service
- Division of Police
- Division of E 9-1-1
- Division of Emergency Management
- Division of Community Corrections

# Fire & Emergency Services

Day to Day Operations



# Fire & Emergency Services



- Dispatch information
- Documentation
  - Fire
  - Medical (PCR)
- Inspections/Company Surveys
- Pre-plans

- AVL Dispatch
- Mapping
- Transmit 12-Lead EKG to Hospital
- Etc.



# Fire & Emergency Services



- Metropolitan Medical Response System (MMRS)

- Mass Casualty Incidents



# Division of Police

## Day to Day Operations



- Dispatch Information
- NCIC Checks
- E-Crash
- Mobile Case Reporting

- Laptops with mobile broadband used for field and office work
  - Replacing traditional desktop computer
- Undercover Cameras
- Etc.



# Other Government Partners with Mobile Broadband Applications (Current and Future)

- Building Inspection
- Planning
- Addressing
- Etc.

# Issues with Commercial Carriers

- Coverage varies by carrier
- Loss of connectivity during emergencies



# Improvements with Future Broadband

- Dedicated bandwidth
- Connectivity when commercial carriers are loaded
- Consistent coverage

# Paducah: Ice Storm 2009



David White, Captain



January 26-28, 2009 (EOC till Feb. 13)

Paducah, KY (Population 25,000)

McCracken Co. (Pop. 65,000)

Primary Public Safety  
Agencies:

Paducah Fire Dept.

Paducah Police

McCracken Co. Sheriff

5 Volunteer FDs

Joint E-911 (PSAP)

McCracken Co. EM



WANTED

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90 %  
without  
power



## Unexpected Logistics:

- Securing grocery stores
- Pharmacies/ banks
- Securing gas stations
- Securing our own fueling facility
- Door-to-door search groups
- Shelters
- Helping surrounding agencies
- Chainsaw crews (police & firemen)



## What was working

- Verizon was working
- Radio systems & CAD were still working (on back-up power)
- Land-line phones (w/ some limitations)
- No impact to 911 lines and
- 911 Center was keeping up with the volume of calls/ radio traffic
- JP Energy had a rep entering work orders at E911





## What didn't work

- AT&T cellular service was not working at all
- The EOC was established at a local VFD and was generally not connected properly with any of the City operations, though they maintained radio contact with E911




# What about the future?

- Cellular infrastructure needs to ensure stable back-up
- Redundancies for back-up power
- Collaboration with power companies & others
- Better communication links between EOC and PSAP



Louisville Metro Government  
Event Response  
Kentucky Derby/Thunder Over Louisville



**Attendance and Scope**

Thunder Over Louisville 850,000

Kentucky Oaks 116,000+


Kentucky Derby 165,000+

Two weeks of events ranging in size from 20,000 to 850,000

Multiple law enforcement agencies from the local area and across the State, including National Guard and FBI/DHS are involved

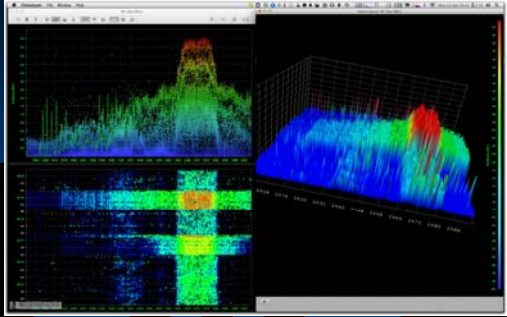
1,150 officers assigned to Thunder in 2014

Indiana also has a component as a part of Thunder dealing with crowd and traffic control






### Challenges




Commercial networks are saturated during these events. DAS units have been installed for some carriers at Churchill Downs, but only serve the grandstand.

Real time sharing of data between different agencies is a challenge via online mechanisms

Interference with unlicensed WiFi devices can cause disruptions for surveillance cameras and other WiFi components



### Future Needs




Quick deployment of surveillance cameras for areas where incidents arise

Collaboration between command center(s) and field units

Visibility of traffic cameras in the field from the cars to help alleviate congestion

Mobile command centers

Real time streaming from dash cameras/body cameras



Questions?

Thank you for your time

