NACo Briefing: Resilient Counties
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Jason Hutchens
Global Solutions and Services
Motorola Solutions
Overview:

1. This thing called resiliency
2. How do we begin to measure our readiness?
3. Trends in government
4. Moving towards a better Common Operating Picture and Situational Awareness
   - Real Time Crime Centers (RTCC/CAC)
   - Intelligent Data Data Portal (IDP)

“It’s not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change”
(Charles Darwin, On the Origin of Species 1859)
This thing called resiliency

What is resiliency?

“The ability to adapt to changing conditions and prepare for, withstand, and rapidly recover from disruption” (USDHS Risk Lexicon, 2010)

Extended definition:

“Ability of systems, infrastructures, government, business, communities, and individuals to resist, tolerate, absorb, recover from, prepare for, or adapt to an adverse occurrence that causes harm, destruction, or loss.”

Presidential Policy Directive 8 (PPD8):

“This directive is aimed at strengthening the security and resilience of the United States through systematic preparation for the threats that pose the greatest risk…” (2011)
“Threats that pose the greatest risk…”

We tend to think of how we manage risk around:
- Probability, Magnitude/Severity, Duration, Warning Time

Readiness:
- Planning, Organizing and Equipping, Training, Exercising

Always distinguish between capacity and capability!

Where can you look?
- State and local Threat Hazard Identification Risk Assessments (THIRAs)
- Fusion Centers
- Emergency Operation Centers (state and local)
A few lessons learned from the field

1. All incident and events ARE local – NRF AND NIMS
   *But don’t be afraid to ask for help – AHIMT teams
2. Prepare legal templates and declaration request in advance
3. Understand the damage assessment process and JPDA
4. Endurance – these are marathons at a sprint pace
5. Read and update your CEMP – you own it!
6. Be active in a policy group during an exercise
7. Practice crisis communication – think about social media
8. Understand roles of the ESFs/EOC, Incident Commander and state and federal involvement
9. Take free on-line courses from EMI/FEMA such as NRF, debris management, communications, ICS, COOP, etc
10. Read and be involved in the state National Disaster Recovery Framework – apply it at the local level.
TRENDS IN GOVERNMENT
TAP YOUR BEST SOURCE OF INTELLIGENCE
THE CITY ITSELF

72% OF GOVERNMENT IT LEADERS WANT THE ABILITY TO USE VIDEO AND TEXT MESSAGES PROVIDED BY CITIZENS
4 in 10 government leaders plan to invest in cloud services over the next two years.
89% of public safety decision makers say data is just as critical as voice.

The amount of data circling the world is expected to be up 48% from the previous year.
SAFER CITIES. THRIVING COMMUNITIES

PROCEED WITH INTELLIGENCE
STAY AHEAD OF WHAT’S NEXT WITH MISSION-CRITICAL INTELLIGENCE

CONNECT WITH THE CITY
TAP THE BEST SOURCE OF INTELLIGENCE: THE CITY ITSELF

MANAGE THE COMPLEXITY
IT IS THE ONE LINK THAT STRENGTHENS ALL OTHERS
In summary...the future looks like...

- Increasing complexity
  - Rapidly changing IT environments
  - Fragmentation (IT, policy, programs, $)
- The requirement to demonstrate ROI
- Multi-purpose investments
- Key performance indicators (KPIs)
- The need for trusted advisors to sort through all the noise
- A change in the status-quo
  - Public safety ecosystem
  - Public safety IT ecosystems
  - Purchasing, maintaining and migrating

“There are many ways to measure innovation, but perhaps the most elemental yardstick, at least where technology is concerned, revolves around the job that the technology in question lets you do.” - Where Good Ideas Come From, Steven Johnson
THE STREET NEVER STANDS STILL

THREATS INCREASE, RESOURCES DECREASE AND YOU’RE ASKED TO HOLD THE LINE

EVENTS ARE PLANNED

THE WORLD CONVENES

ACCIDENTS HAPPEN

DISASTERS STRIKE
REAL-TIME CRIME CENTERS (RTCCs/CACs)
WHAT IS A REAL TIME CRIME CENTER?

- Converges multiple data sources to aid in the decision-making process
- Staffed by Crime Analysts and Criminal Investigators to handle real-time incidents
- Provides data analysis for instantaneous access to required information
- Enables data merging to identify patterns and trends in criminal activity
- Includes the “data wall” that allows officers simultaneous incident monitoring convergence
WHAT IS A REAL-TIME CRIME CENTER?

• Aggregates multiple data sources to improve situation awareness and help aid in the investigation and response process
• Integrates video system with radio system, CAD and records
• Puts all information on a unified map view
• Makes video wall actionable
• Integrates existing and new technology together
• Staffed by sworn officer/Crime Analysts to handle real-time incidents
REAL-TIME INTELLIGENCE CONSOLE
MAKE VIDEO AND EVENTS ACTIONABLE IN REAL TIME

CAD MESSAGING RECORDS & DATABASE QUERIES

- Query data bases and analysis tools
- Interface to existing CAD messaging platform to share incident related information
- Ability to send to and receive messages from data enabled ASTRO 25 radios

SEAMLESS FLOW OF INFORMATION ACROSS MULTIPLE DISPARATE SYSTEMS

- Single map view of all active incidents, camera sources, and responding officers
- Connect to motion detectors, alarm and other video analytics
- Correlation of information and events across multiple systems

VIDEO AGGREGATION & STREAMING from MULTIPLE VIDEO MANAGEMENT SYSTEMS

- Access to fixed and mobile camera sources from multiple camera systems
- Optimized video streaming over 3G/4G wireless networks
- Push a link and push a snapshot to distribute critical video information to first responders

REAL-TIME INTELLIGENCE CONSOLE
MAKE VIDEO AND EVENTS ACTIONABLE IN REAL TIME
INTELLIGENT DATA PORTAL
UNIFY, MOBILIZE AND IDENTIFY YOUR DATA

INTELLIGENT DATA PORTAL

• MAPPING OF DATA, EVENTS, ALERTS, SENSORS, PEOPLE AND ASSETS IN ONE VIEW
• HIGHLIGHTS POTENTIALLY RELATED DATA IN VICINITY
• ALWAYS UP-TO-DATE FOR ON-DEMAND VIEWING
• HTML5 CLIENT WORKS ON ANY DEVICE, OPERATING SYSTEM AND NETWORK
• HOSTED, LOW-LATENCY CLOUD BASED SOLUTION
<table>
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<th>City Fleet Locations</th>
<th>Real-Time Traffic</th>
<th>City Social Media</th>
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<td>Asset Monitoring</td>
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- CAD Incident View
- Agency GPS Tracking
- Exec. Resource Monitor
- Analytics
- Bio-Monitoring
- Sensor Monitoring
- Location Awareness
- CrimeView Heatmap
USE CASES

BETTER INFORMATION, SAFER OUTCOMES (TACTICAL)
Public Safety Responders In The Field need location-based information to be more proactive about developing situations and to keep them safer. Intelligent Data Portal provides the officer to ever-changing situations, nearby hazards and alerts from multiple data sources.

ONE OPERATING VIEW (OPERATIONS)
Incident Commanders can access key data while mobile from various data systems that previously required separate applications and interfaces. They can now sign-on to one application reducing their need to switch between multiple applications. Enables cross-agency information sharing and enhanced situational awareness.

Crime Analysis (STRATEGIC)
Investigators can view the location-based mapping of hot spots and repeat incident reporting enhancing their investigative abilities by providing focused filters.
OPERATIONAL USE OF AN INTELLIGENT DATA PORTAL

IDP CORE
• ESRI Basemaps (Streets and Satellite)
• Real Time Traffic (Worldwide)
• AccuWeather Static Hi-Res Radar Image
• NWS Weather Warnings
• Current Weather Conditions
• Publish 2 On-Prem Data Sources
• Exec. Reporting Dashboard
• 24/7 Call Support
• Cloud Hosting Fees
• Solution Maintenance Fees

BEYOND THE CORE SOLUTIONS

OPERATIONS
• Current CAD Incidents Layer
• Radio / Vehicle GPS Tracking
• AIS Ship / Vessel Tracking

WEATHER
• Local Storm Reports
• Animated Radar Loop
• Lightning Strike Layer

ANALYTICS PACKAGE
• Patrol Efficiency
• Calls For Service
• Predictive Unit Monitor
• Crime Heatmaps
• Response Time Metrics

TACTICAL
• Collaboration Whiteboard
• Real Time Staging
• Picture / Video Viewing Layer

ENVIRONMENT
• Earthquake Reporting
• Wildfire Perimeter Layer
• Hurricane Tracker
• Flooding Impact Zones

SENSOR
• Radiological, Biological, Environmental Sensor
• Zephyr Bio-Monitor
• Bio monitoring
THANK YOU

Jason D. Hutchens
Solution Engagement Manager – Government
317.502.7642
jasonhutchens@motorolasolutions.com