LocalEyes

Mobile Reporting
Mobile Reporting
by First Responders
Ubiquitous Computing

2006
- 2.6 Billion Subscribers
- 1 Trillion Text Messages

2010
- 4 Billion Subscribers
- 2.3 Trillion Text Messages
Ubiquitous Computing

Cell phones in U.S.

Year: 2002 - 2006

- 2002: 135m
- 2003: 148m
- 2004: 170m
- 2005: 195m
- 2006: 230m
Integrated Technology..

Cell Phone, GPS, Camera

... Public Infrastructure
Unlimited Applications

First Responders

Real Time Alerts

Area Alert

Force Tracking

Rescue

Terrorist Activities
LocalEyes Vision

- Mobile reporting with global scale
- Machine-to-Machine reporting
- Rapid response, flexible platform
- Low cost, leverage existing infrastructure
- Ability to transition system to locals

Enable local population to be our ‘sensors’... our local eyes
LocalEyes Scenario
Identify Activities

- Policing
- Monitoring Ports and Infrastructure
- National Security
- Terrorist Activities
- Disaster Relief
- Emergency Management
- Civil Unrest
Design Reporting Application Online

A. Operations Center determines reporting need

B. Define event types
- Suspicious Package
- Suspect
- Bombing
- Protestors
- Suspicious Vehicle
- Amber Alert
- Medical Support Request
- Fire
- Traffic
- Accident
- Auto Theft
- Road Closure

C. Configure features
- Photos, Video
- Text
- GPS Force Tracking
3 Deploy Application

Operations Center
**PUSH** applications to phones

Users **PULL** applications directly from phones
Users Report

A. Start LocalEyes application

B. Choose event type from list …

- Suspicious Package
- Suspicious Truck
- Traffic

C. Attach photo, video, text (optional)

D. Submit to Operations Center

GPS support provides location
5 Visualization, Analysis

Operations Center receives real-time reports

Integrate with other Command and Control Systems

Visualize & Analyze

Mission Planning Systems
Battle Command Information Systems
Google Maps
Google Earth
6 Application Updates

Field conditions change rapidly
- New event types
- Different bombing suspects
- Recovery efforts change

Operations center can respond with application changes in minutes....

Mobile user is automatically updated during next event report.
Boston - 4th of July
Boston 4th of July

Massachusetts State Police
• Piloted LocalEyes reporting capability
• 350,000 in attendance

Integrated Reporting
• Unified Command Center
• Massachusetts State Fusion Center
Boston 4th of July

Event Reporting
- Suspicious Person, Vehicle
- Unattended packages
- Missing Children
Boston 4th of July

Future Collaboration & Operations

- Massachusetts Emergency Management Agency
- Boston EMS
Summary

Different way of thinking
Information from first responders, patrol units, and civilians

Different way of building
Rapid deployment, flexible infrastructure
Matches changing field conditions

Technology can integrate with Command and Control Systems to improve current practices
LocalEyes

Team

Scott Hume, Project Lead Engineer

Brandon Wolfe, Technical Lead