LocalEyes

Mobile Reporting

Mobile Reporting by First Responders

Ubiquitous Computing

2006   **2.6 Billion Subscribers**

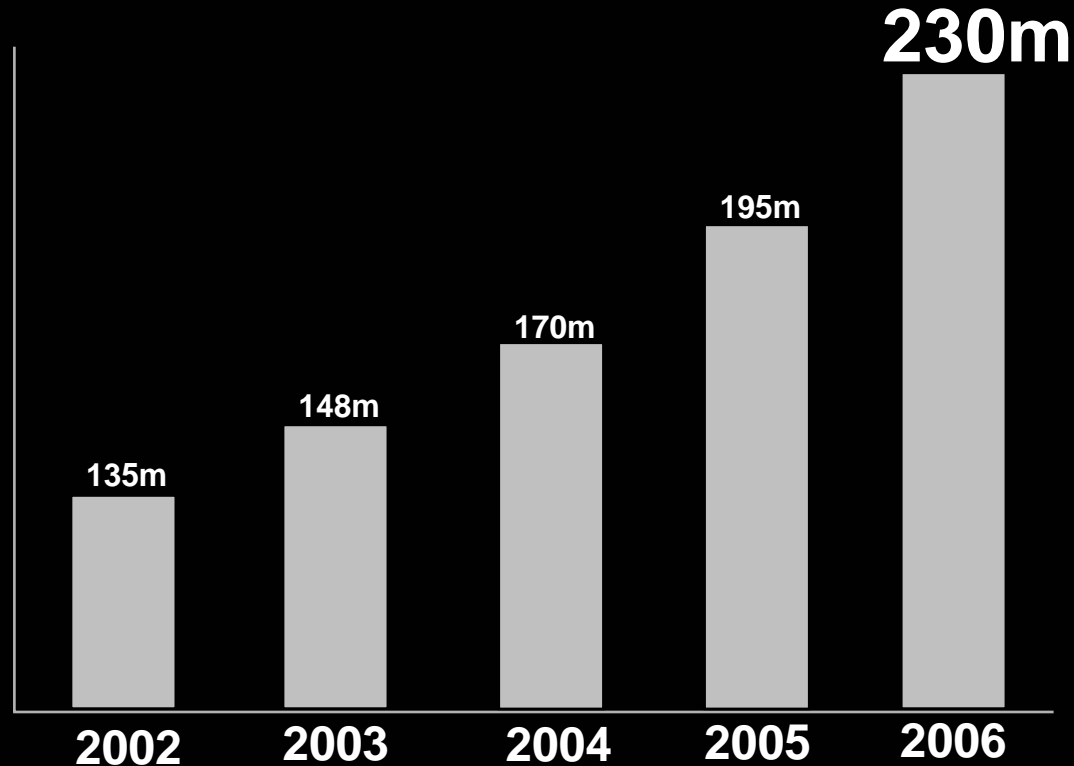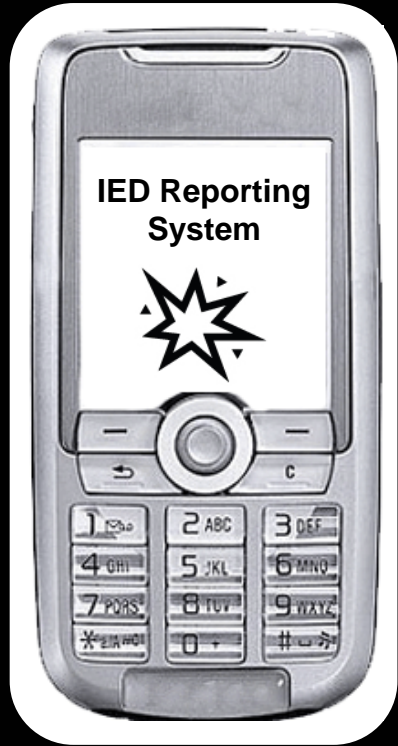**1 Trillion Text Messages**

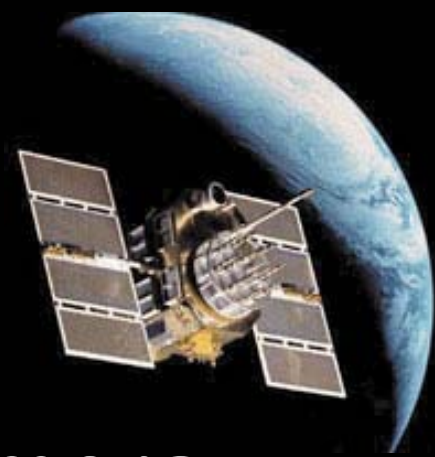**2010**   **4 Billion Subscribers**

2.3 Trillion Text Messages

Gartner

Ubiquitous Computing

Cell phones in **U.S.**

Year	Value
2002	135m
2003	148m
2004	170m
2005	195m
2006	230m

CTIA

4

Integrated Technology..

IED Reporting System

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

① Identify Activities

- **Policing**

- **Monitoring Ports and Infrastructure**

- **National Security**

- **Terrorist Activities**

- **Disaster Relief**

- **Emergency Management**

- **Civil Unrest**

A **Operations Center determines reporting need**

B **Define event types**

Suspicious Package

Suspect

Bombing

Protestors

Fire

Suspicious Vehicle

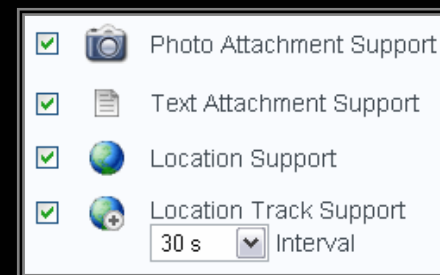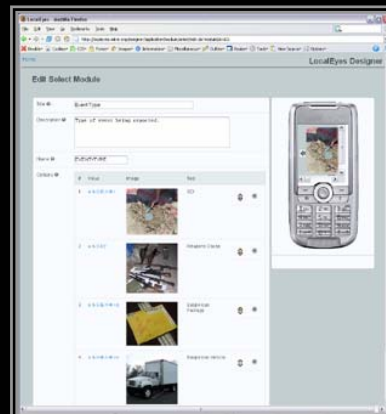Amber Alert

Medical Support Request

Road Closure

Traffic

Accident
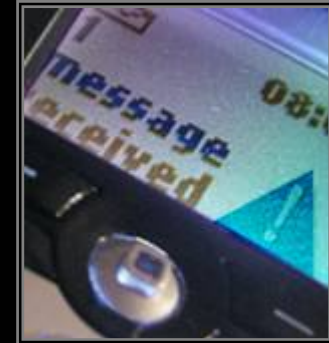
Auto Theft

C **Configure features**
- **Photos, Video**
- **Text**
- **GPS Force Tracking**

Photo Attachment Support

Text Attachment Support

Location Support

Location Track Support
30 s Interval

Operations Center **PUSH** applications to phones

Users **PULL** applications directly from phones

4 Users Report

A Start LocalEyes application
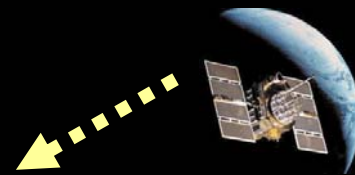
LOCAL EYES

Event Reporting
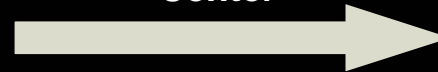
B Choose event type from list …

Suspicious Package → Suspicious Truck → Traffic

GPS support provides location

C Attach photo, video, text (optional)

Submit to Operations Center

D

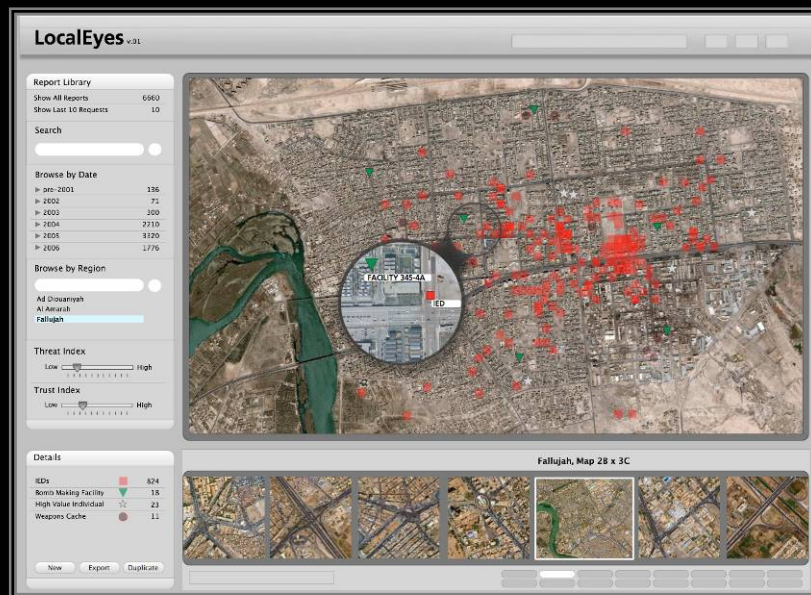## Operations Center receives real-time reports

Visualize & Analyze

Integrate with other Command and Control Systems

Mission Planning Systems

Battle Command Information Systems

Google Maps

Google Earth

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**

Event Reporting

- **Suspicious Person, Vehicle**
- **Unattended packages**
- **Missing Children**

Future Collaboration & Operations

- **Massachusetts Emergency Management Agency**
- **Boston EMS**

Visualization

LocalEyes

LocalEyes Report

2007-07-03T15:56:38Z

EVENT = [OTHER]

Directions: To here - From here

© 2007 Sanborn
Image © 2007 Sanborn
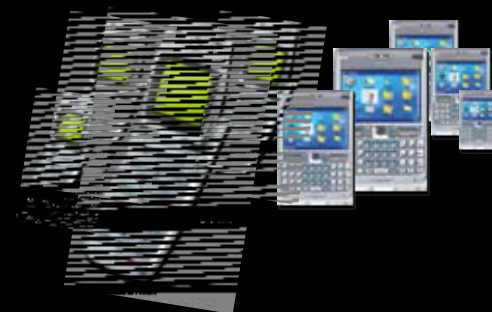USGS
© 2007 Navteq

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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

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