

# **LOCATION-BASED SERVICES FOR PUBLIC SAFETY**

# Location-Based Service

§ **A data service**

§ **Provided to a mobile device**

§ **Using information about the device's current location**

# What's Needed for an LBS?

- § **A geographic dataset on a server**
- § **A location-aware mobile device**
  - ú **GPS**
  - ú **Wireless positioning system**
  - ú **Cell towers**
- § **An application !**

# Location-aware devices



# **SOME EXAMPLES OF LBS**

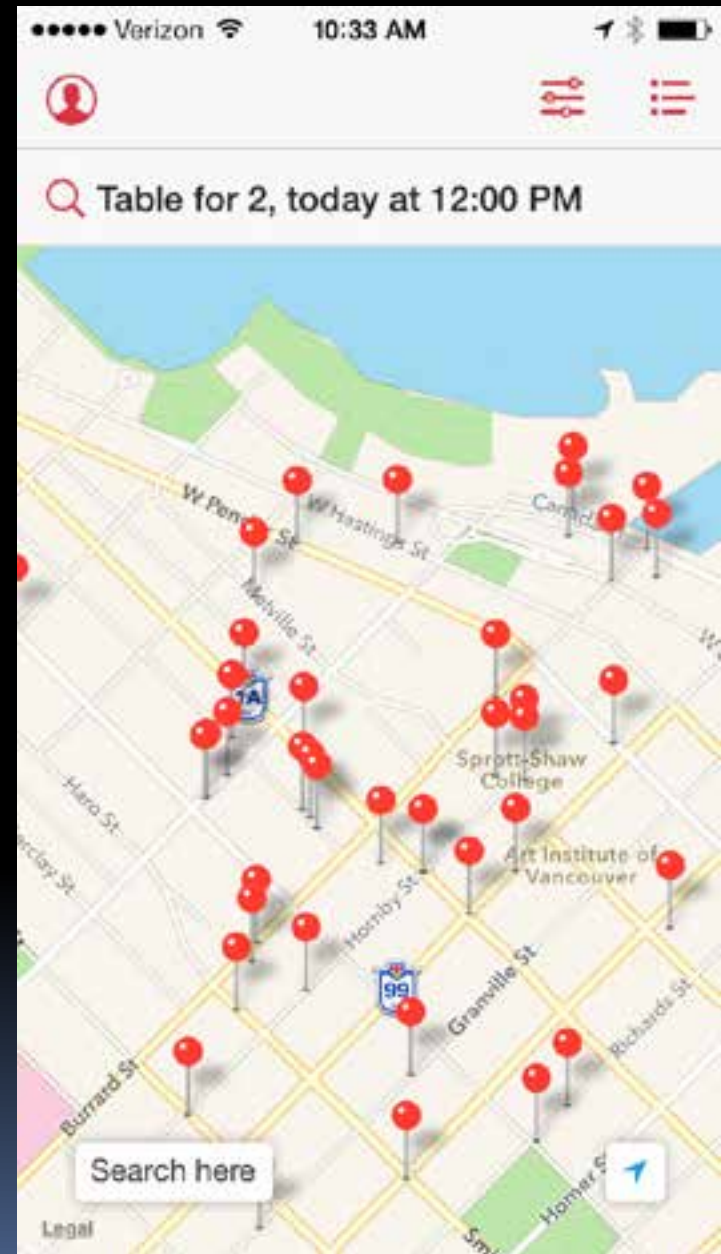
# Starbucks



# Weather Bug



# Open Table





# Advantages of LBS

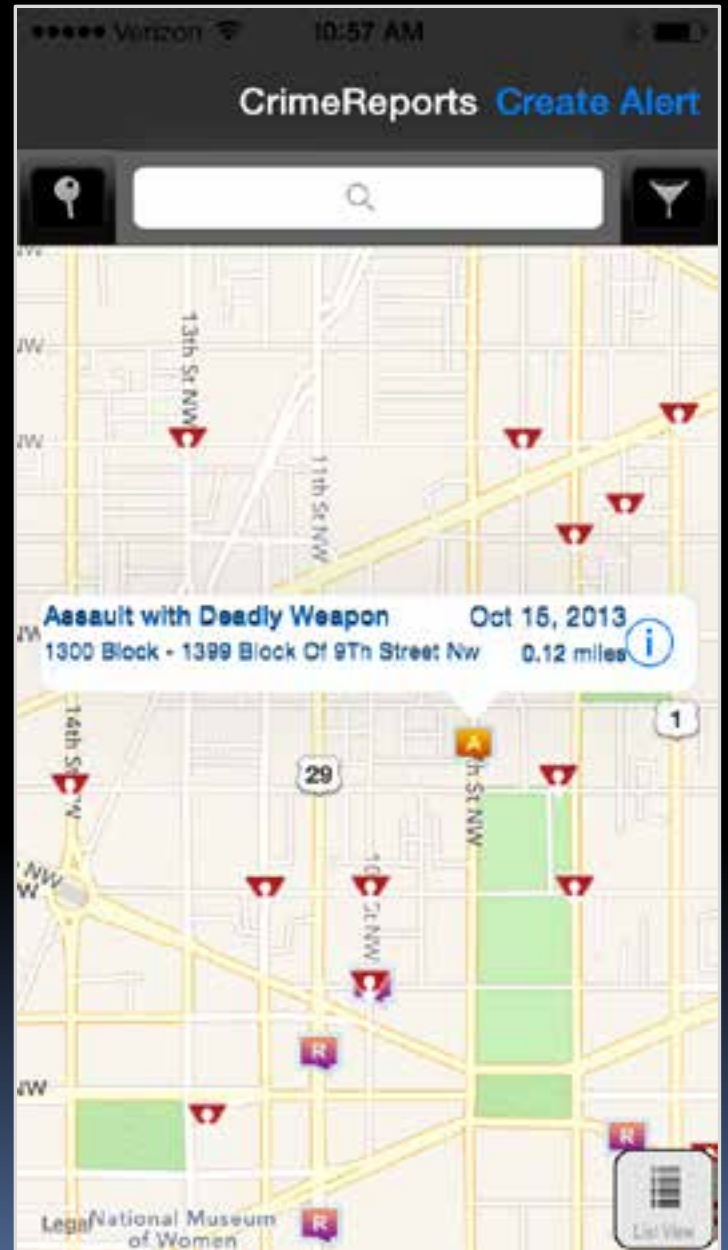
- § **Leverages location services**
- § **Only shows relevant data**
- § **Pushes information with little or no effort by user**

# Public safety data are ripe for LBS

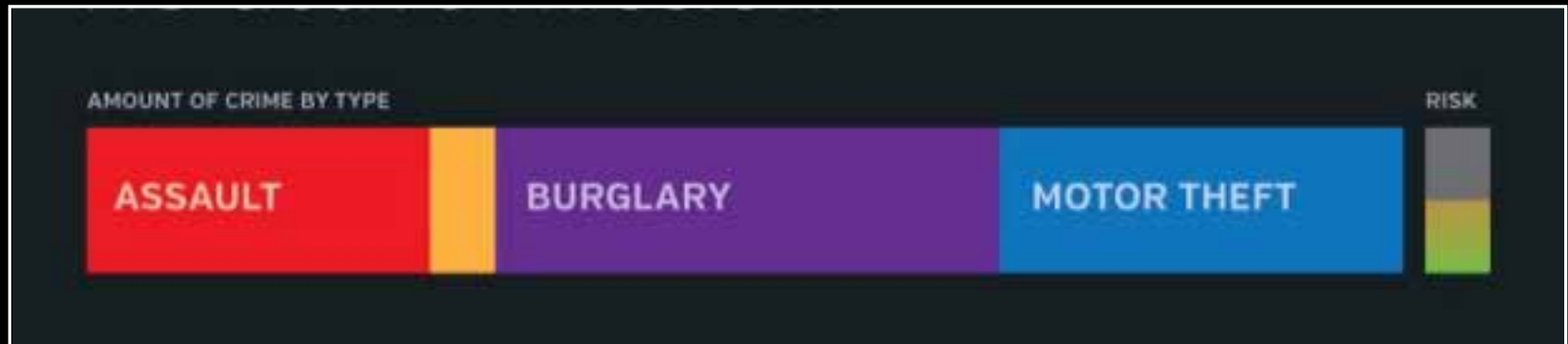
- § We collect lots of it
- § Many of us already map data
- § We have mobile workforces
- § Our data have value on the street

# **SOME EXAMPLES OF PUBLIC SAFETY LBS APPLICATIONS**

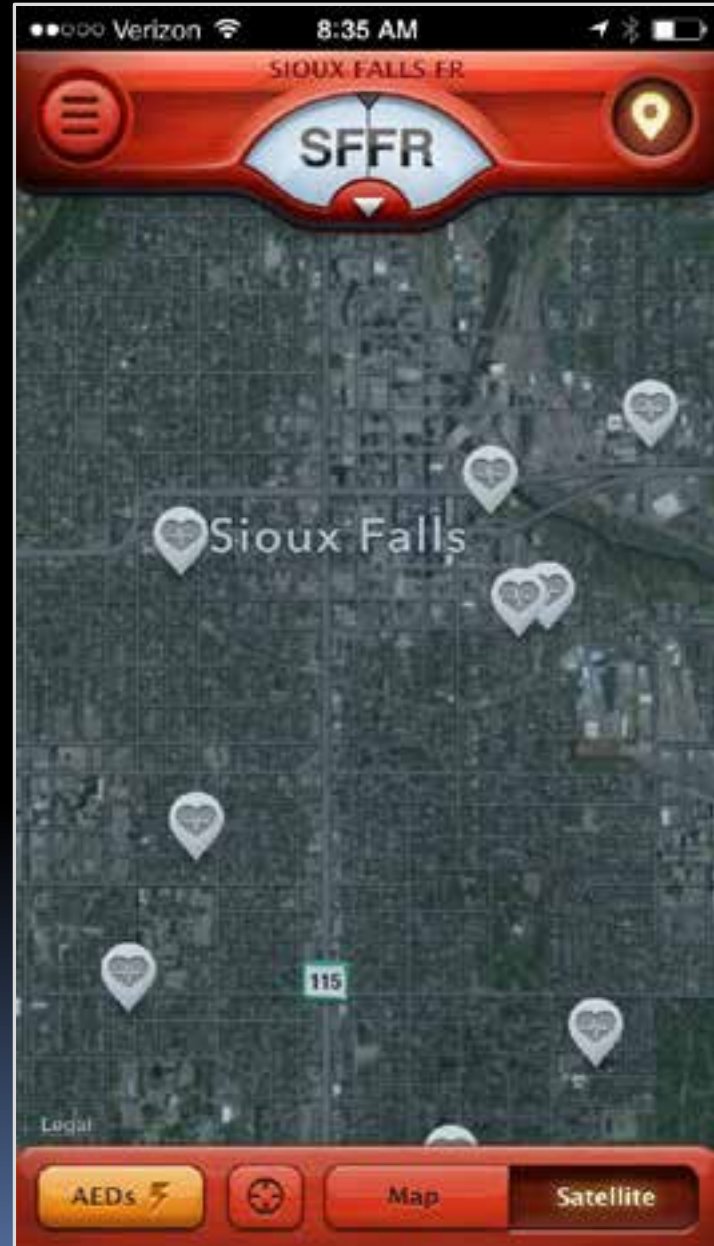
# CrimeReports



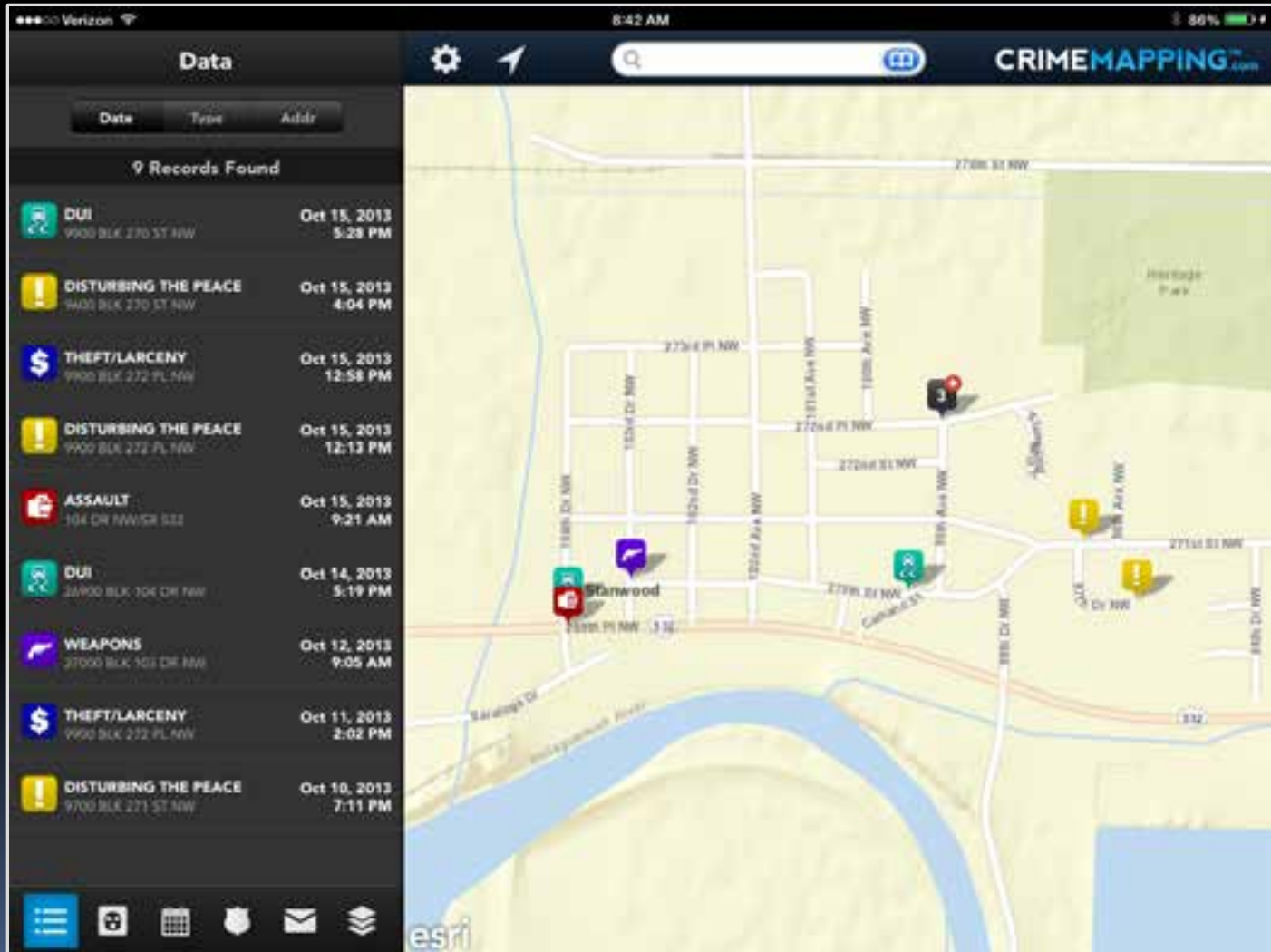
# HunchLab 2.0



# PulsePoint



# crimemapping.com



# Building mobile LBS apps

§ **ArcGIS Server**

§ **ArcGIS online for organizations**


§ **Web mapping applications**

§ **ArcGIS for Android and iOS**



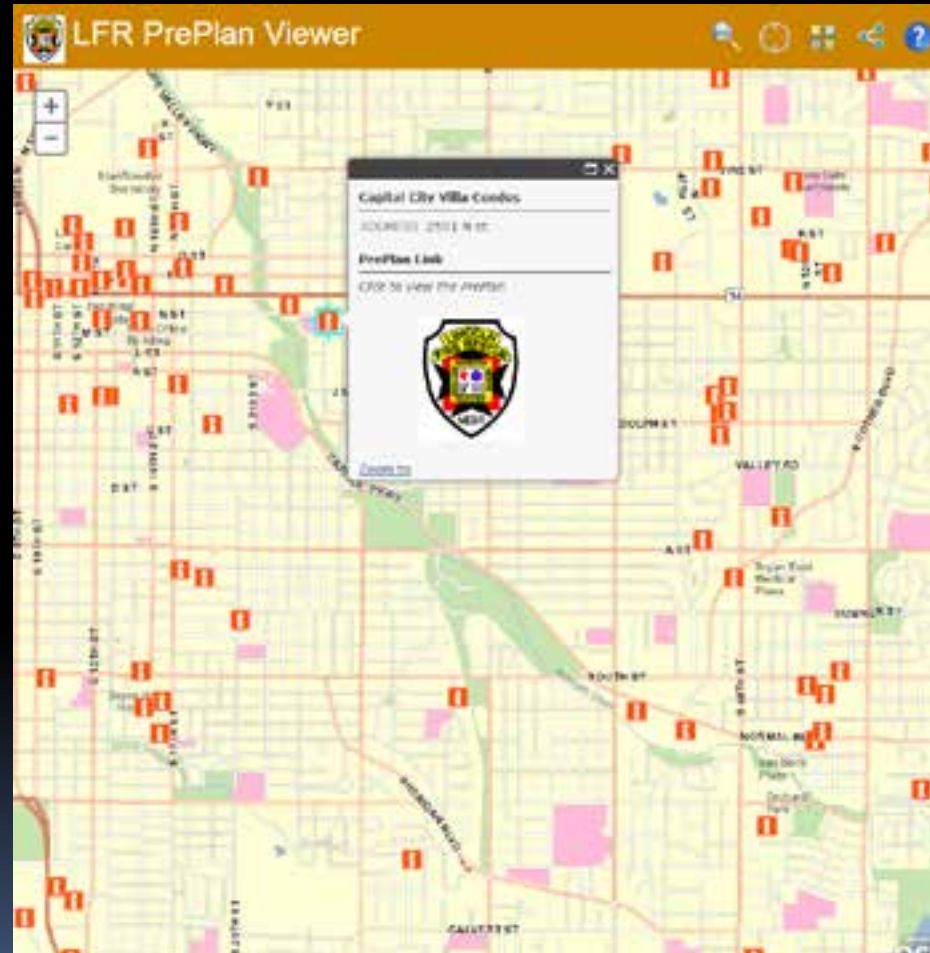
# Parcel Viewer

The screenshot displays a web-based parcel viewer interface. The main map area shows a residential neighborhood with various streets including Rockwood La, Fir Hollow La, Beaver Creek La, Happy Hollow La, Larkwood Rd, Bear Creek Rd, Elk Ridge Cir, and Crooked Creek Ct. A pink parcel is highlighted, and a green area is labeled "Cripple Creek Park". A sidebar on the right provides detailed information for a specific parcel:

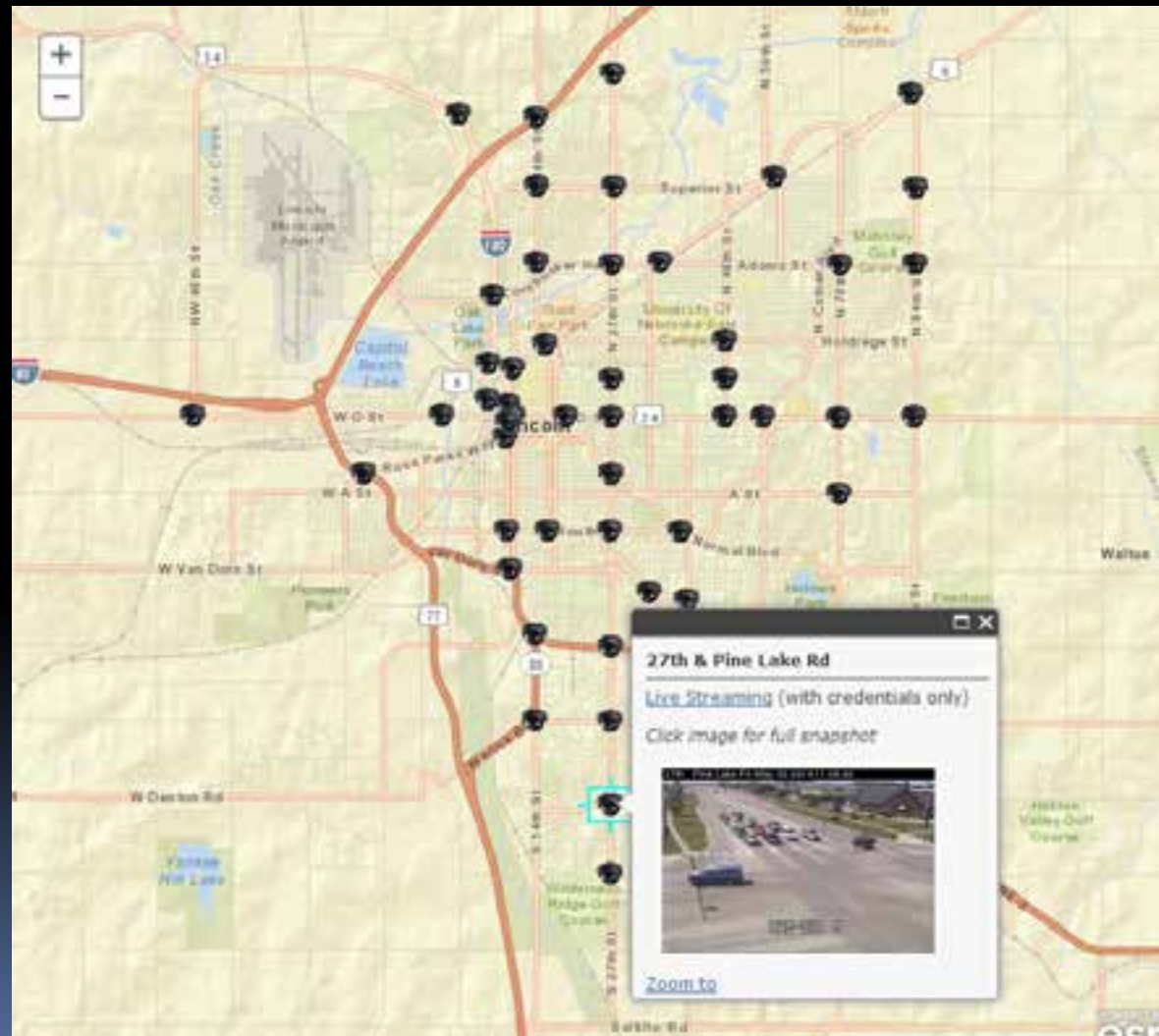
- Parcel ID:** 16-17-417-005-000
- Owner:** CASADY, THOMAS K & TONJA R
- Site Address:** 4940 BEAR CREEK RD, LINCOLN, NE
- [Additional property info](#)
- Property Photo**
- 
- [Zoom to](#)
- ELK RIDGE RD**

The interface includes a title bar with "Parcel Viewer" and navigation icons, a zoom control on the left, and a small "OSR" logo in the bottom right corner.

# Pre-Plan Viewer



# Traffic Camera Viewer



**§ Special needs patients**

**§ AEDs**

**§ Hydrants and mains**

**§ Hazardous materials**

**§ Recent crimes**

**§ Addresses of offenders**

# Mapped Police POIs

§ Offenders

§ Incidents



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