

# 94-102 - Wireless E9-1-1

## From the CPE Perspective

Presented to:

**Wireless E9-1-1 CIF** Memphis, TN

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# CPE Agenda

- ❖ General Impact of FCC 94-102 on PSAP equipment
  - ❖ PSAP Confusion
  - ❖ Wireless Call Volume
  - ❖ Phase I
  - ❖ Phase II
- ❖ CPE Changes and Requirements
  - ❖ ANI/ALI Controller
  - ❖ CAD System
  - ❖ Mapping System

# General Impact of FCC 94-102

## Today

- ❖ General PSAP management confusion

## Tomorrow

- ❖ Probably even more !

# General Impact of Wireless E9-1-1 on the PSAP.....

- ❖ 105 Million Wireless Subscribers today
- ❖ 46,000 new ones added each day
- ❖ 45 Million Wireless 911 calls are expected each year or 30% of total volume
- ❖ In urban areas, it is more like 40-50% already

# General Impact of FCC 94-102

Other stuff that affects the PSAP Operation - Everything !

L D T

Wireless  
Carriers

LEC's &  
CLEC's

PSAP  
Equipment

ALI  
Database

# General Impact of FCC 94-102

## Phase I

- ❖ Phase I may require upgrades or new ANI/ALI equipment - Mapping preferred
- ❖ Depending on the solution, you may get 8, 10 or 20 Digit ANI, from various network providers



# General Impact of FCC 94-102

## Phase II

- ❖ Phase II will require upgrades or new ANI/ALI equipment and potential CAD upgrades
- ❖ Definitely will need integrated Mapped ALI or similar location display technology

# What exactly will be required ?

## ANI/ALI Controller

- ❖ Ability to support CAS, NCAS or Hybrid solutions
- ❖ 10/20 Digit ANI (Enhanced MF) from Selective Router
- ❖ The coordinates from ALI... x, y, and z
- ❖ New ALI Database input formats
- ❖ Multiple Database queries (Wire-line, Wireless, ACN,etc)
- ❖ New CAD output
- ❖ New Map output
- ❖ New Call Detail Record output



# What exactly will be required ?

## Computer Aided Dispatch (CAD)

- ❖ New inputs from 911 Controllers
- ❖ Upgrades to CAD system ? Watch closely here !
- ❖ Coordinate data from ALI... x, y, and z
- ❖ Multiple dumps from 911 per call ?
- ❖ Interaction with or interface to Mapping sub-system
- ❖ New Data to store and track
- ❖ Potential upgrade to output reports

# Call Taker Enhancements

## Phase I

- ❖ Ability to see the Callback number
- ❖ Ease of call back
- ❖ Ability to see Cell site and sector layer data on Map

## Phase II

- ❖ Ability to see the actual wireless caller location
- ❖ Map tools - Query, pan, zoom, etc.

# What else will be required ?

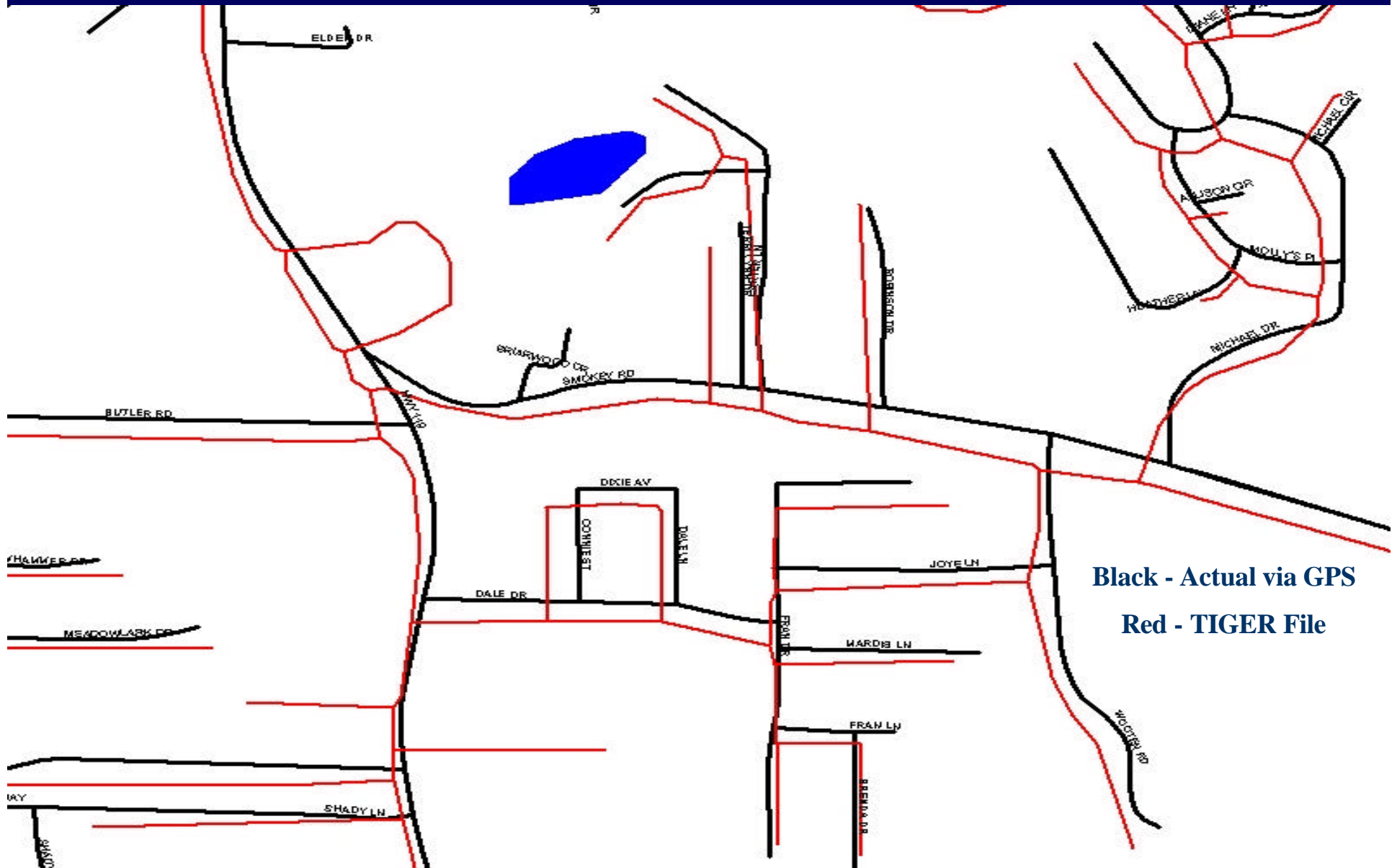
## Mapped ALI or GIS

- ❖ MAPPED ALI is the “intelligent” geographical display of incoming ALI and (wire-line or wireless) coordinate data in support of FCC Phase I and II requirements.
- ❖ Basically, give an X/Y point or a verified 911 address and plot it with stored attributes for graphical representation.

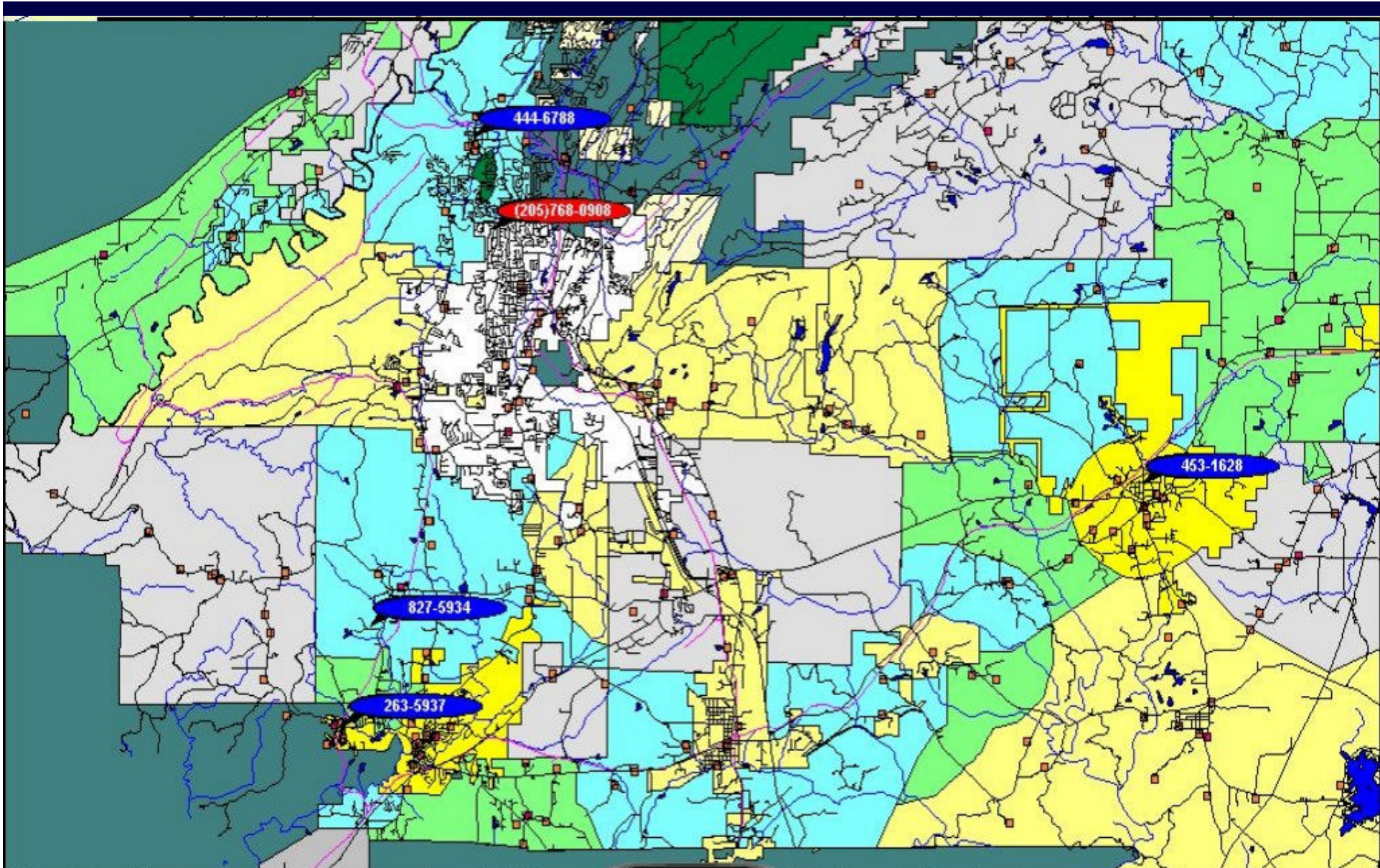
# Mapped ALI

- ❖ Integrated with 911 IWS, CAD or Stand alone
- ❖ Interactive with 911 and/or CAD system
- ❖ Ability to support different GIS data formats
- ❖ Accurate data – Garbage In ⇌ Garbage Out
- ❖ Source and Maintenance of data - Who/where ?
- ❖ Map Layers for Wireless location
- ❖ Flexibility of maintenance and user tools

# Mapped ALI - Data Accuracy





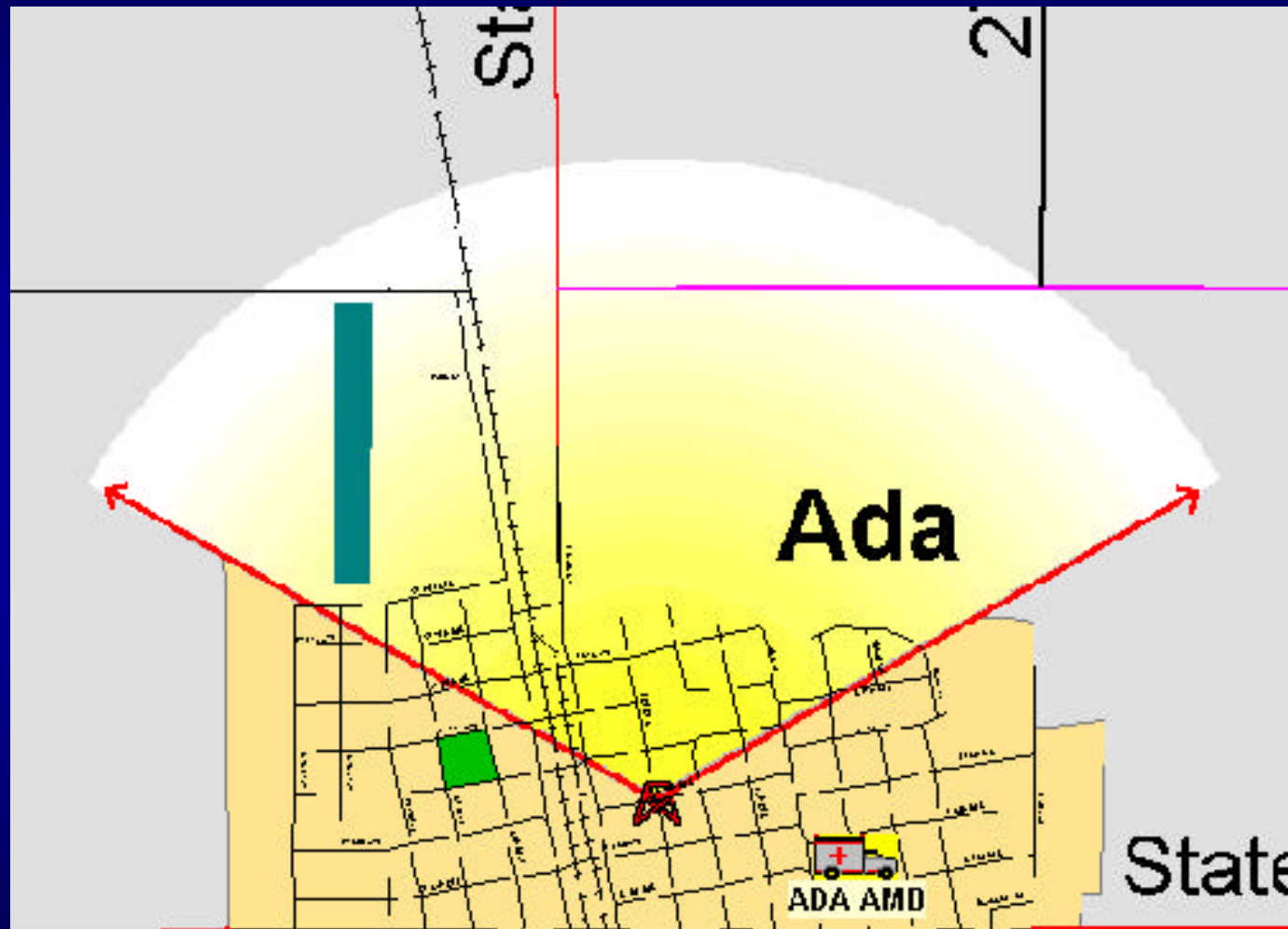


Phone #	Address	Name	Category	Contact	Contact #	Comments	Attachment	Date
827-5934	26301 Bayou Dr	Wayne Arsenault	HAZMAT	Joe Smith	388-8837	Construction on 3rd floor	PLAN	
345-8756	300 Main St	Jim Jones						
444-6789	684 N Pine St	Janet Jones						
236-9793	539 Magnolia Ave	Cheryl Maynard						
123-4455	200 W Rose Ave	Ravi Un						
(205)768-0908	305 N White Ave	Carl Wilson						
444-6788	40101 D...	...						

# Generic TCI Mapped ALI Screen



# Phase I Cell Layers are helpful



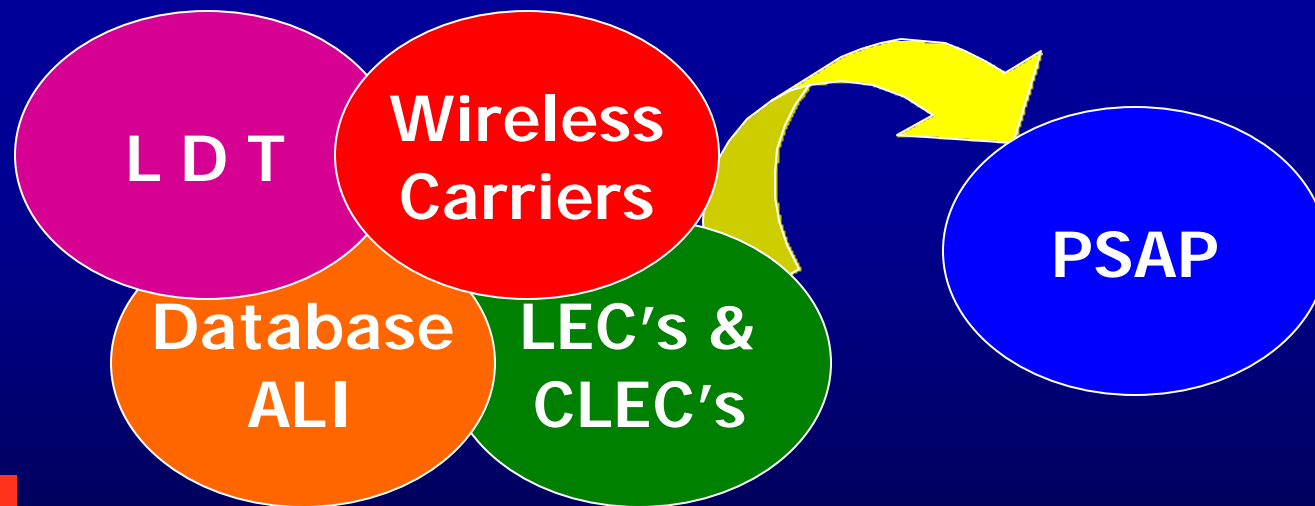
# Finally ... what you must have

- ❖ Decision to move forward !
- ❖ Funding - many now have this....
- ❖ Support of your network and 911 solution provider
- ❖ A solid plan.....



# Success !!!

Then it will all come together.....



# Questions and Answers ....

Thank You for your attention !

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