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**Texas Public Safety  
Broadband Program**

DIR Telecom Forum  
October 7, 2014

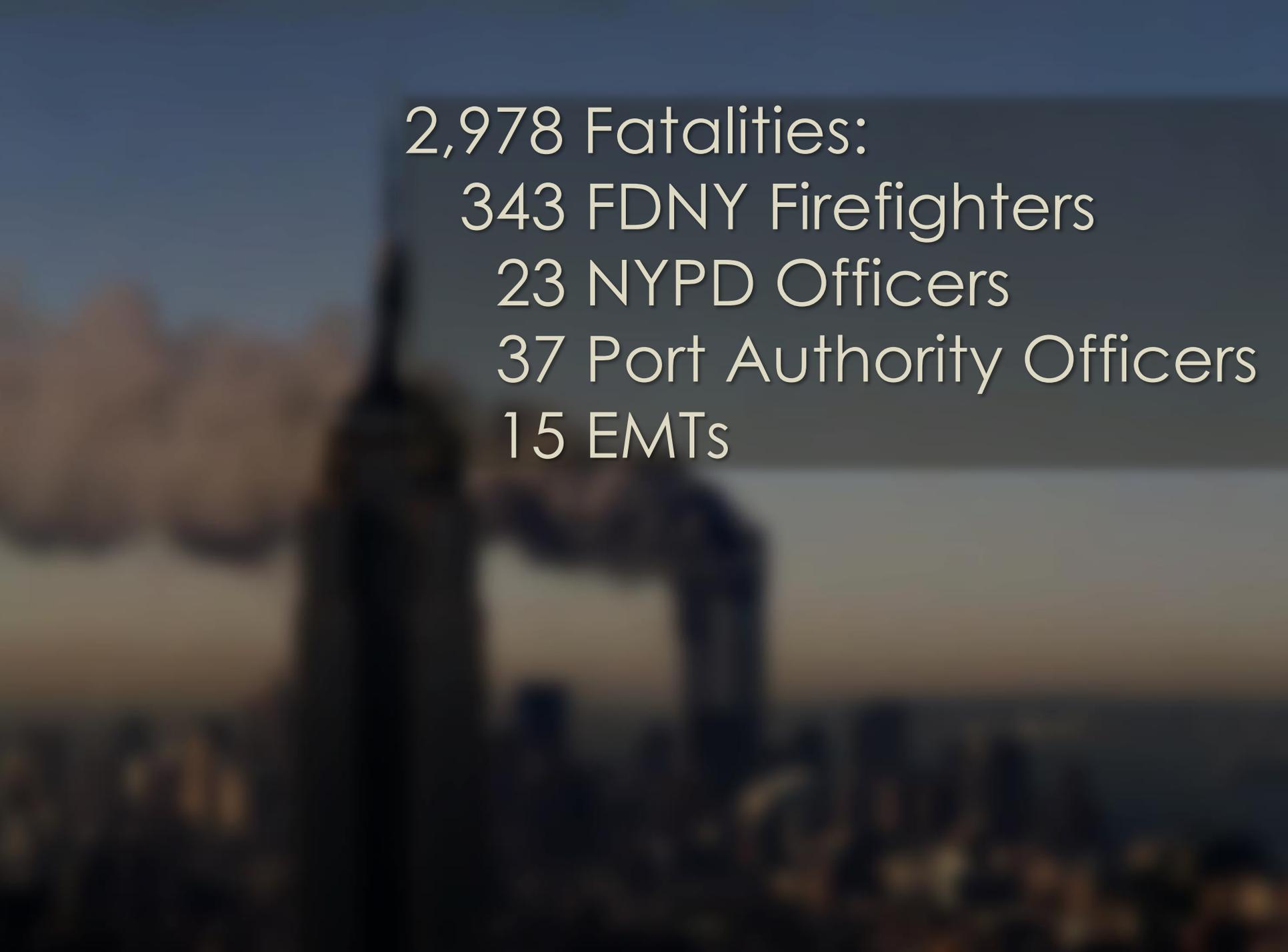


PROBLEM

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**Awareness**





2,978 Fatalities:

343 FDNY Firefighters

23 NYPD Officers

37 Port Authority Officers

15 EMTs

# Final Report of the National Commission on Terrorist Attacks Upon The United States



## Recommendations

27. Congress should support pending legislation which provides for the expedited and increased assignment of radio spectrum for public safety purposes...



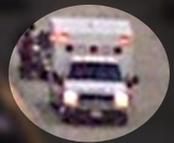
# VISION

Provide emergency responders with the first nationwide, high-speed, wireless broadband network dedicated to public safety

# Texas' Road to PS LTE



# Texas' Road to PS LTE



# Carrier Uses/Limitations



- All users are basically equal
- No preemption
- No prioritization

3GPP  
A GLOBAL INITIATIVE

# New Public Safety LTE Implementation



## Dynamic Prioritization of Bandwidth

- Event based
- User based
- Application based
- Regional Interoperability

# Mobile Data Quiz:

How much did mobile data traffic grow between 2008 and 2013?

- A. 30%
- B. 3,000%
- C. 30,000%
- D. 300,000%



And the problem is getting worse!

# St. Peter's Square: The Vatican

2013



Pope Francis Debut

Only 9 days ago the world was still everywhere!

Look! A Flip Phone!



Except here...

SEEKING

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**Solutions**

West, Texas - April 17, 2013



# Now...

It's out West Fire, The uh West Fertilizer is uh... one of their mills is on fire...there's uh heavy smoke coming out of the top of it.

>>10-4, I was just about to do that.

<Volunteer Fire Tone Goes Out>

>>...61, fire. 61, fire. We need you to respond to the West Fertilizer Plant. They have uh...a fire out there. Again, West Fire out to West Fertilizer Plant.

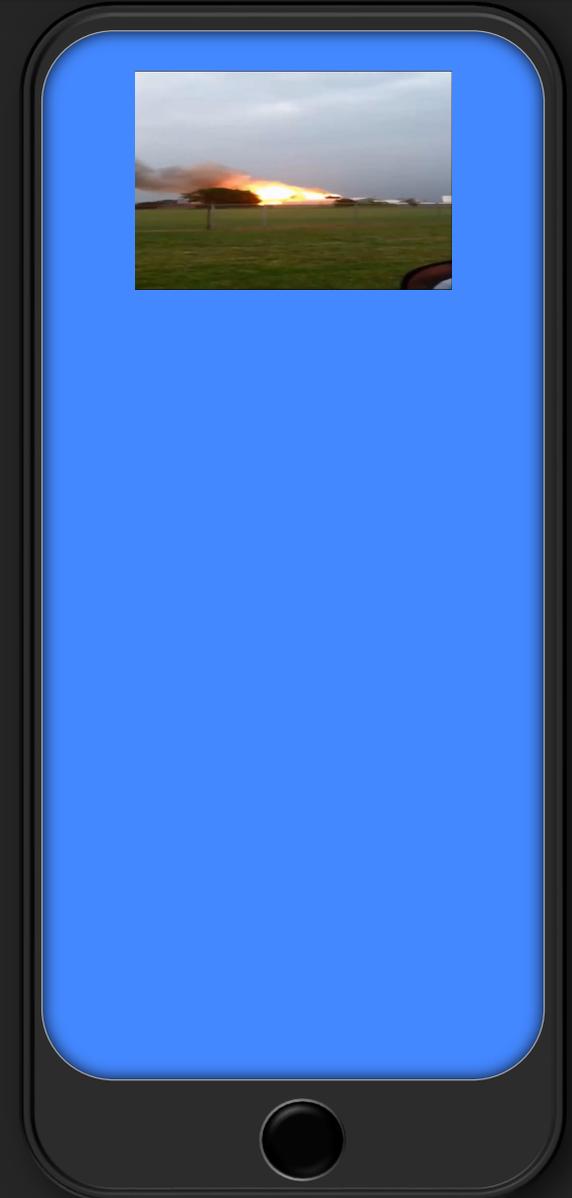
# With Public Safety Broadband...

Science Lab.com

0	Health	2
2	Fire	1



**Potential Chronic Health Effects:**  
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. The substance may be toxic to blood, gastrointestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage.





**FirstNet™**

**Nationwide Public  
Safety Broadband  
Network**

- Congress Created in February 2012 and seeded with \$7 billion
- FirstNet is a 15-member board comprised of members with commercial carrier, public safety, and information technology experience
- Mission: To design and implement a nationwide public safety broadband network with a self-sustaining funding model and ubiquitous coverage
- Act allocated the “D Block” to the Public Safety Broadband Network for a total of 20 MHz in the 700 MHz range

**Exclusive for  
Public Safety:**



**Nationwide Public Safety  
Broadband Network**

Band Class 14  
3GPP Standards  
Based



# How Will It Be Funded?





## State & Local Jurisdictions:



S&L jurisdictions will purchase  
the end-user hardware

(aircards, modems, handheld  
devices and user fees)

NO State GR funds anticipated

NO capital outlays

PS LTE will provide responders with real time data to do their jobs safely and more efficiently through...



## Tools

GPS Tracking and Mapping Tools

ICS Forms on Handheld Shared Applications

License Plate Readers

...**and MUCH more**  
Facial Recognition Software

Field Fingerprinting

Field Reporting/Database Queries

Infrastructure Information (i.e. Blueprints)

# Application Stores



Region-Specific  
Mission-Specific  
Industry-Specific

# What does this mean to existing public safety 2-way radio systems?



Nothing... for now

# Get Connected!



[www.firstnet.gov](http://www.firstnet.gov)

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# ***Texas Public Safety Broadband Program***

Our Outreach & Education team is comprised of subject matter experts available for:

Meetings with your team

Public Presentations (conferences, trade shows, planning meetings, etc.)

Conference calls/webinars

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# QUESTIONS?

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