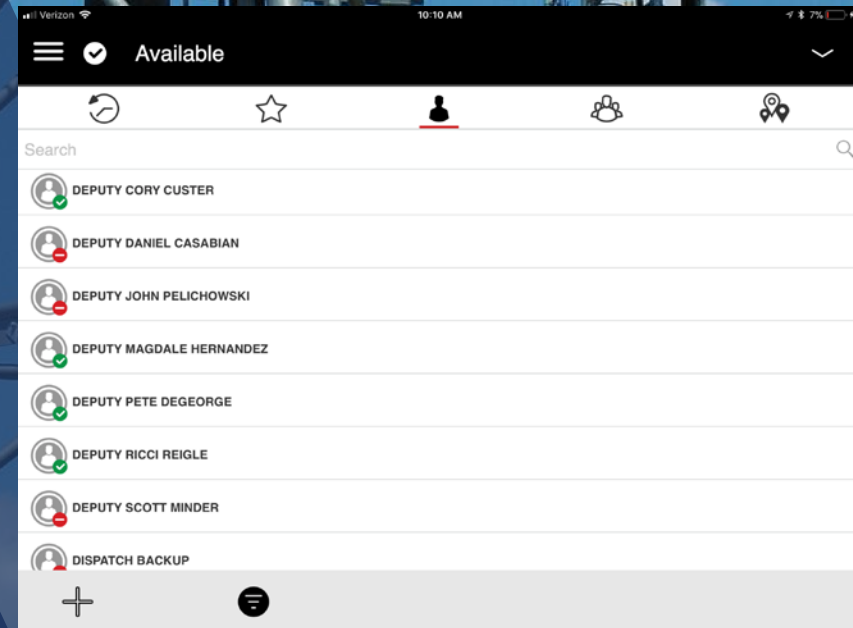


# Supplementing traditional Land Mobile Radio with Verizon Push-to-Talk (PTT) technology



# PROBLEM

The County radio system is old, unreliable, and deficient

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Sheriff Deputies in field cannot clearly hear what is going on...

*...let alone hear what is happening in other parts of the County*

**This is a public safety issue!**



# RADIO vs CELL



Ideally, Public Safety LMR systems meet uptime and coverage needs of users

ours does not

We are working to overhaul this system

but it will take years.



- Verizon wireless coverage in County is fairly solid
- Cellular networks are substantially reliable
- All deputies carry an Agency Owned iPhone 6S

# AT&T FIRSTNET | VERIZON PUBLIC SAFETY



- Engaged with AT&T for past year
- Looking at partnership opportunities
- LMR redundancy / CoLo potential
- Lack of coverage



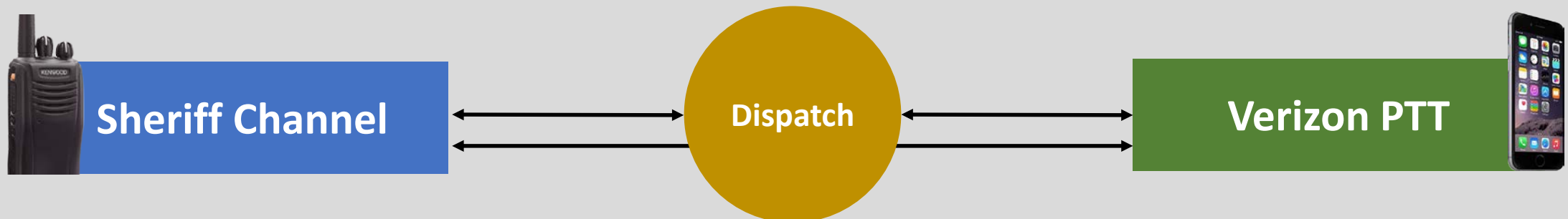
- **Current coverage:**
  - 80± corridors & communities
- **Public Safety offerings:**
  - Automatic Priority & Preemption
  - Competitive pricing
- **Leveraging Private IP capabilities**

# PUSH-TO-TALK

- **Verizon's native PTT offering is good, but:**
  1. Didn't want add another *thing* for Dispatchers to deal with
  2. All traffic on PTT network needed to be recorded (as with LMR)
- **Verizon PTT LMR interface**
  - Interconnected directly with our Mindshare dispatch console

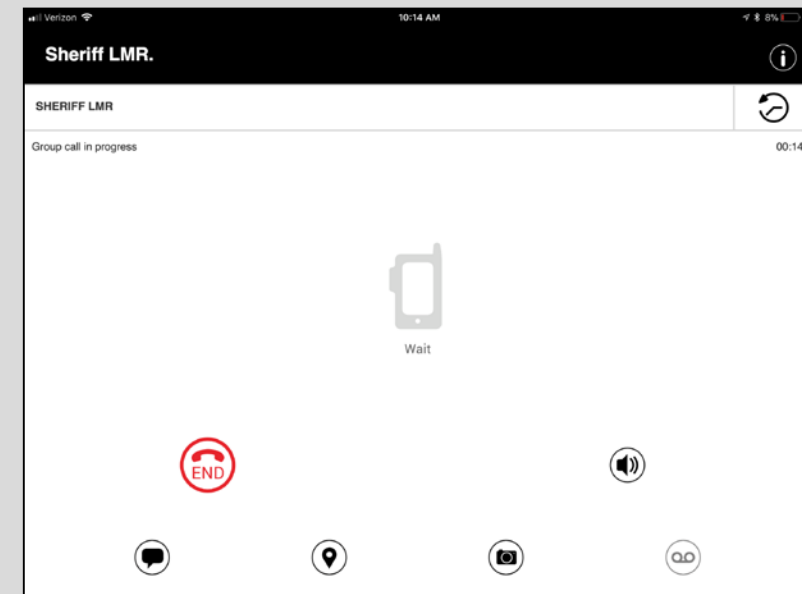
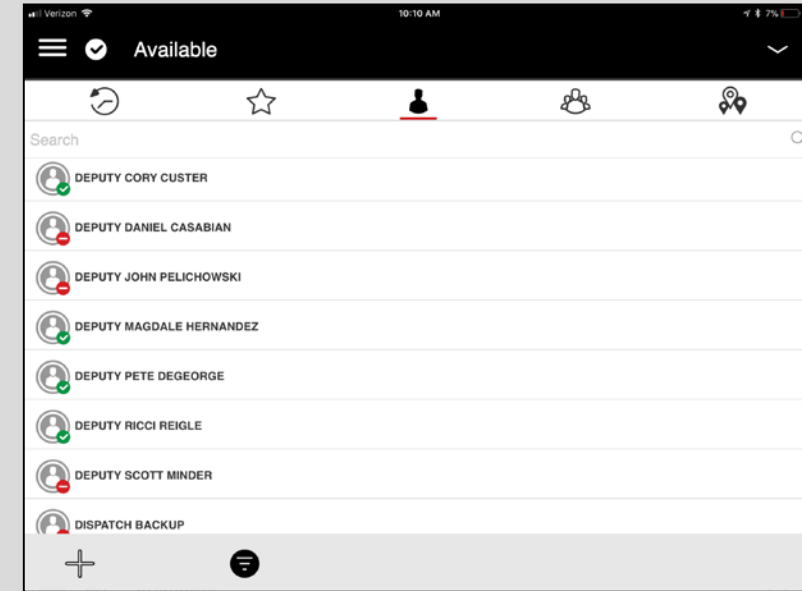
**CUBIC** |  vocality

- Setup permanent cross-patch in dispatch at console level



# REALIZED BENEFITS

- **Increased situational awareness**
  - Supervisors sat in dispatch to hear traffic
  - Deputies couldn't hear other deputies
- **Redundancy**
  - Provides additional communication layer
  - Fills coverage gaps
- **Remote access to radio system**
  - Sheriff can listen when travelling





# ISSUES & NEXT STEPS

- **Delay & echo issues**
  - Short ( $\frac{1}{2}$ " ) delay after keying up PTT
    - Can miss beginning of transmission
  - Using radio and PTT simultaneously causes echo
    - Can result in confusion
- **Form factor / usability**
  - Hard to push button on phone – unlock issues
  - Testing Bluetooth lapel mics & dual function mics
- **Additional channel roll-out?**
  - Providing benefits to other users...





# THANK YOU!!

Questions | Comments | Feedback

