

APCO International Emerging Technology Forum



Evolution of Portable Radios for First Responders

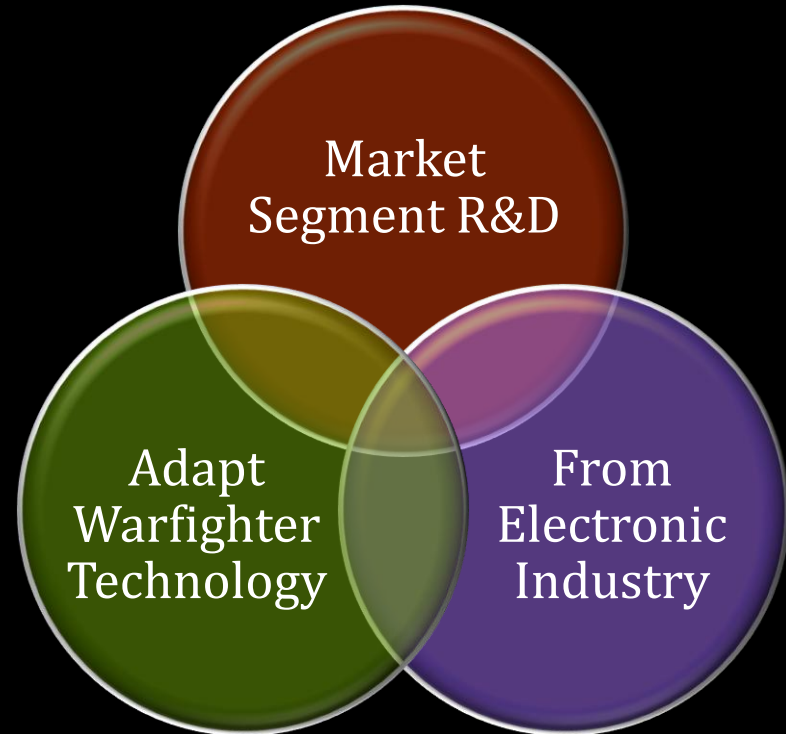
Mark Tesh
Senior Product Manager, Advanced Development
Harris Corporation



Sources of technology ♦

What to expect ♦

Sources of technology ♦

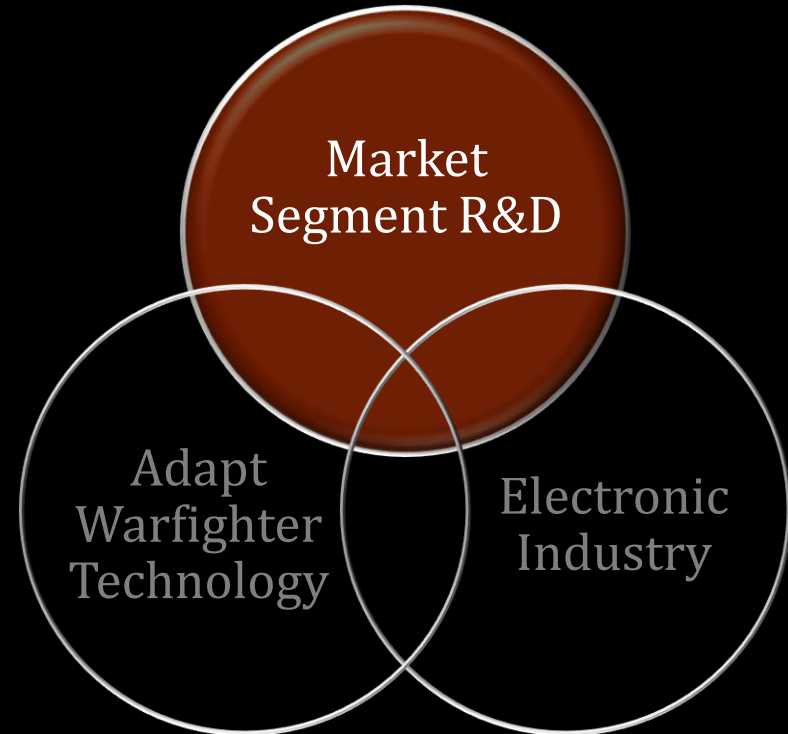


Survey:

- 39% Fire, 29% Police, 32% EMS
- 49% End user, 14% Leadership, 37% Admin/Procurement/Technician
- 53% Motorola, 37% Harris, 10% Other

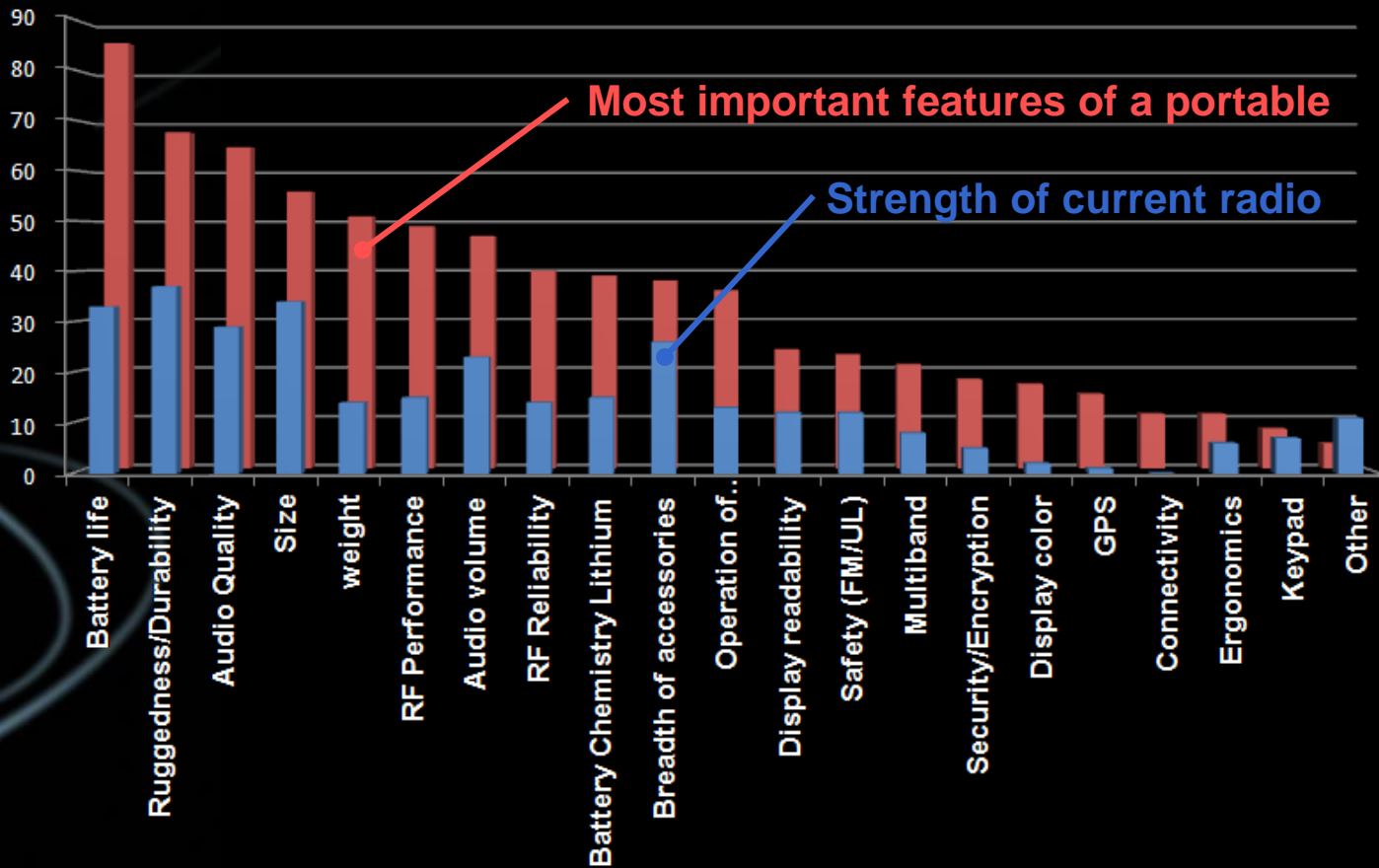
(1) **Most important features of a portable**

(2) **Strength of current radio**



Survey:

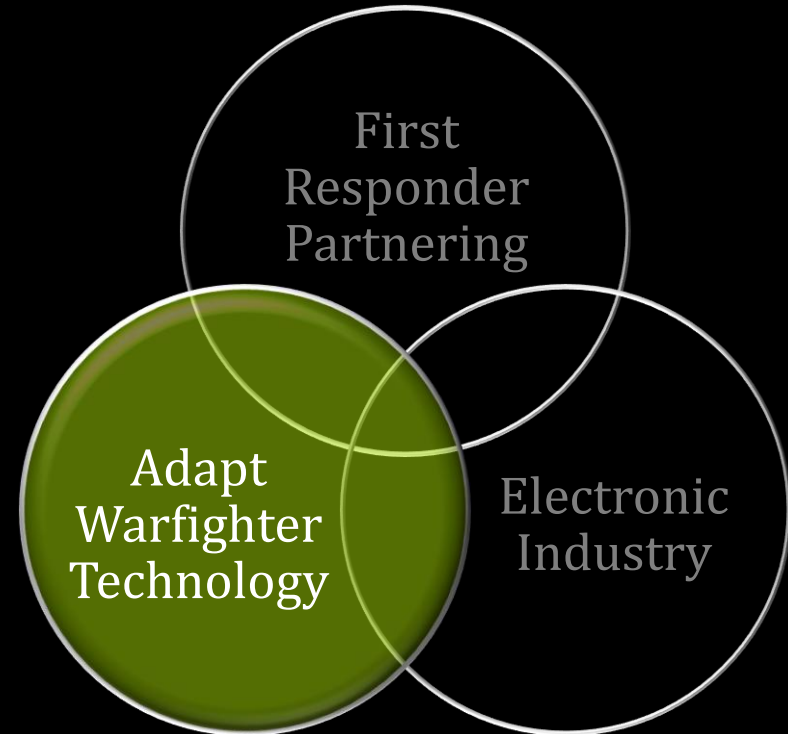
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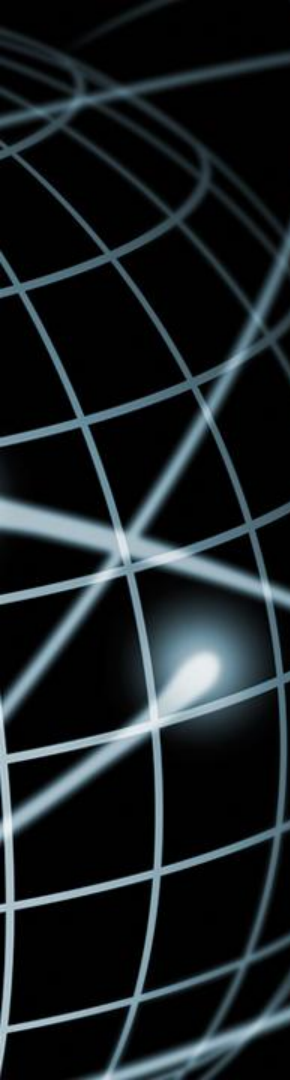




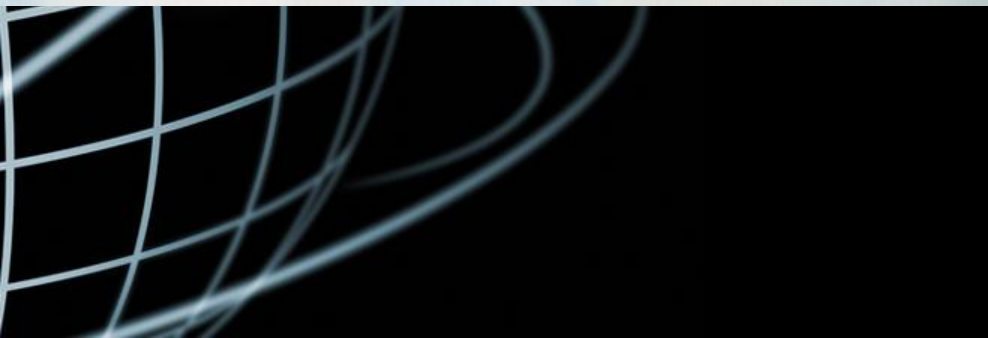


Sources of technology ♦





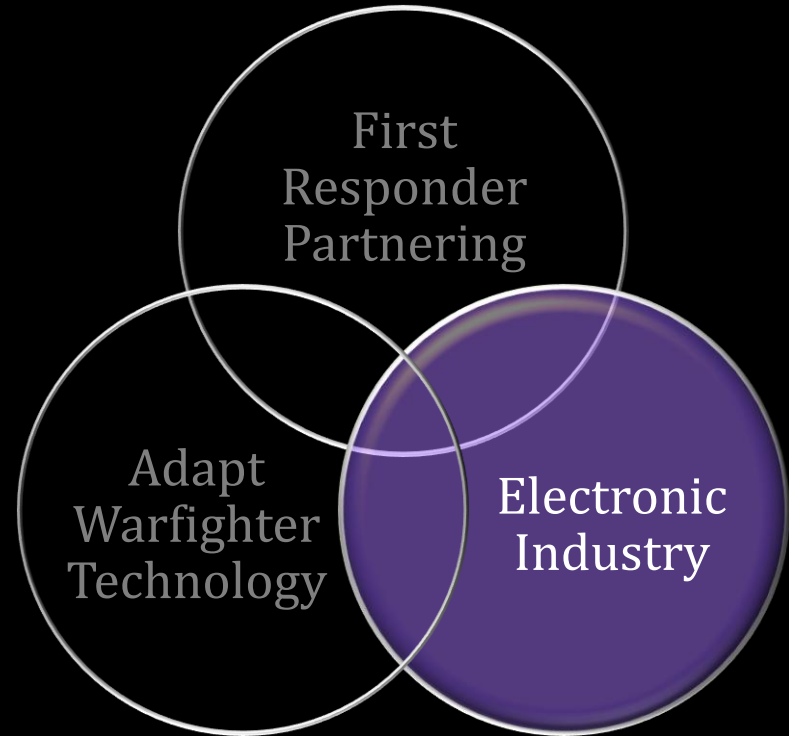






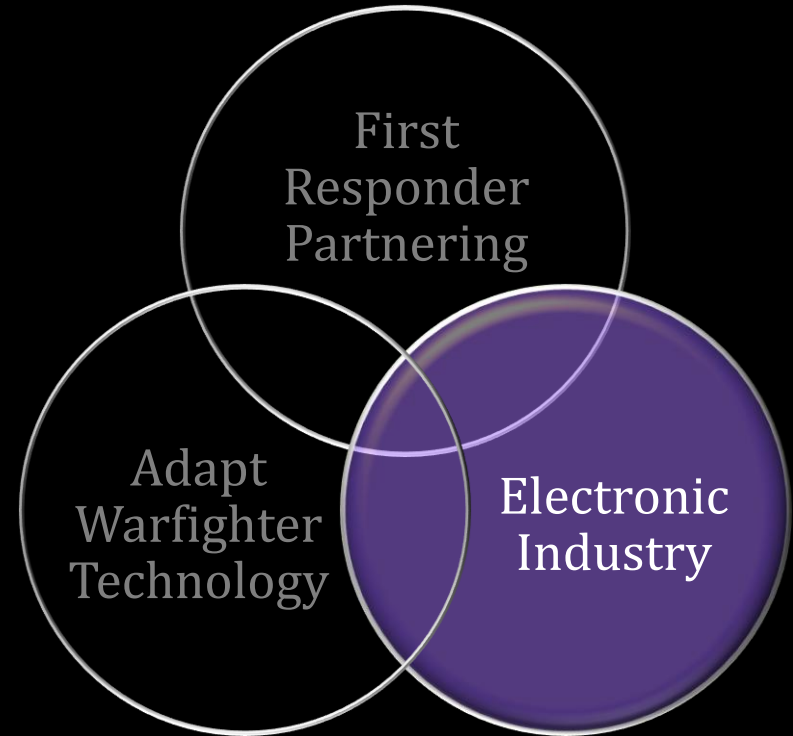


Sources of technology ♦





Sources of technology ♦



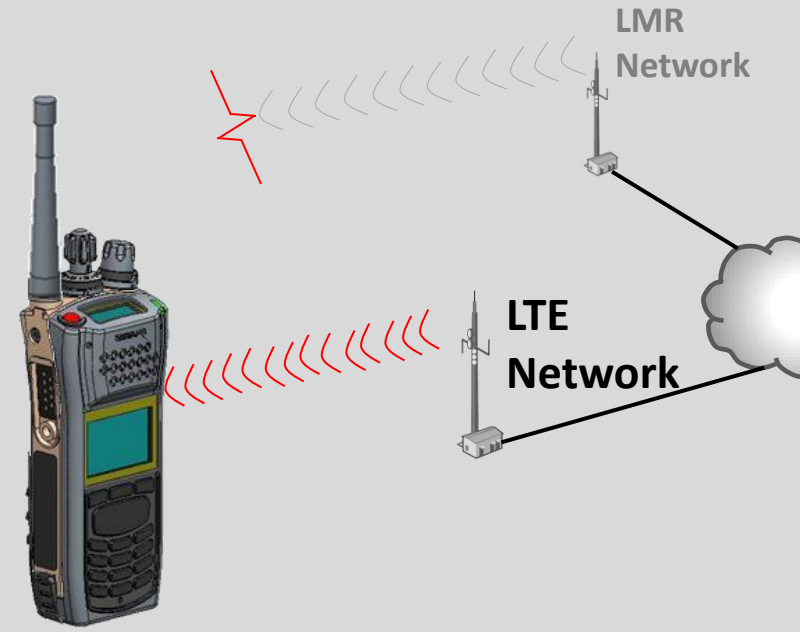
Evolution to Advanced Connectivity



- VHF, UHF, 7/800
- Bands 4, 13, 14
- Wi-Fi 2.4 and 5 GHz
- Bluetooth LE

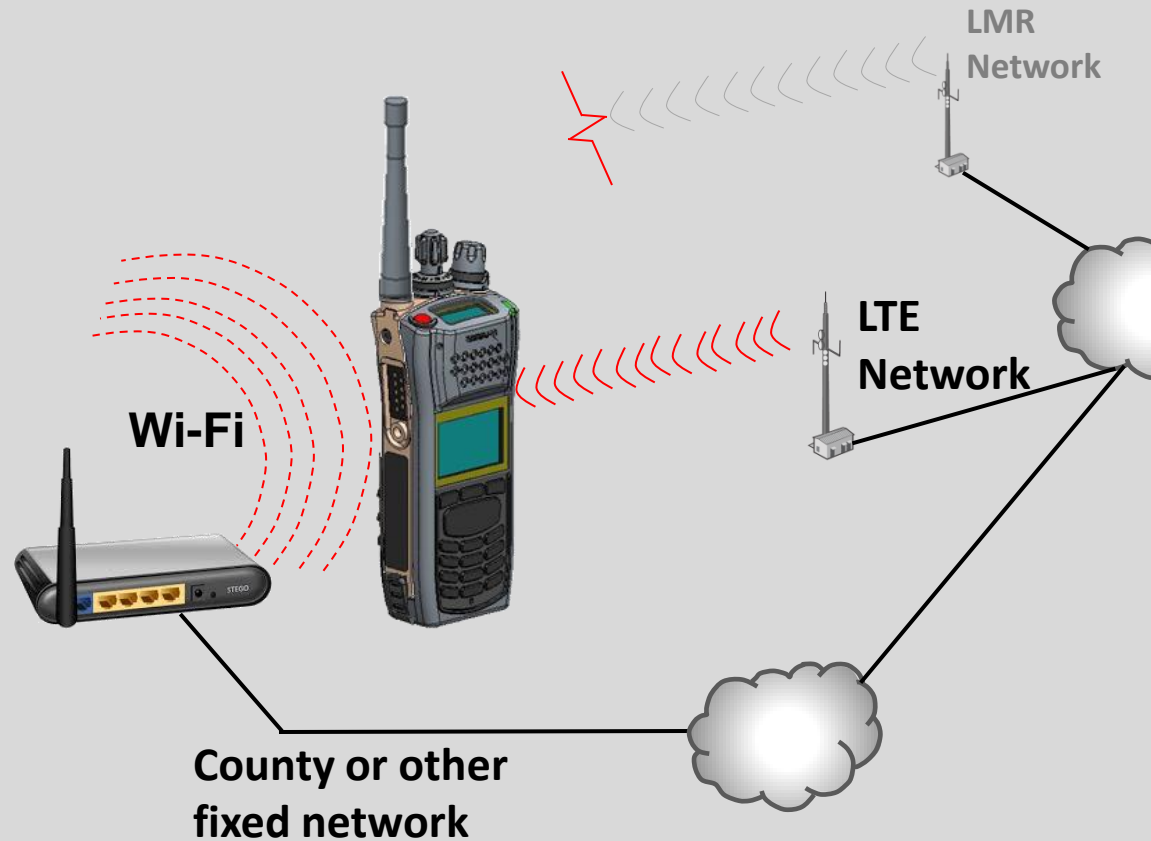
- P25 Phase 1 and 2
- Legacy trunking
- Newer digital trunking
- Analog
- Voice and data over cellular
- Connected user bubble

Evolution to Advanced Connectivity



Loss of LMR coverage

Evolution to Advanced Connectivity



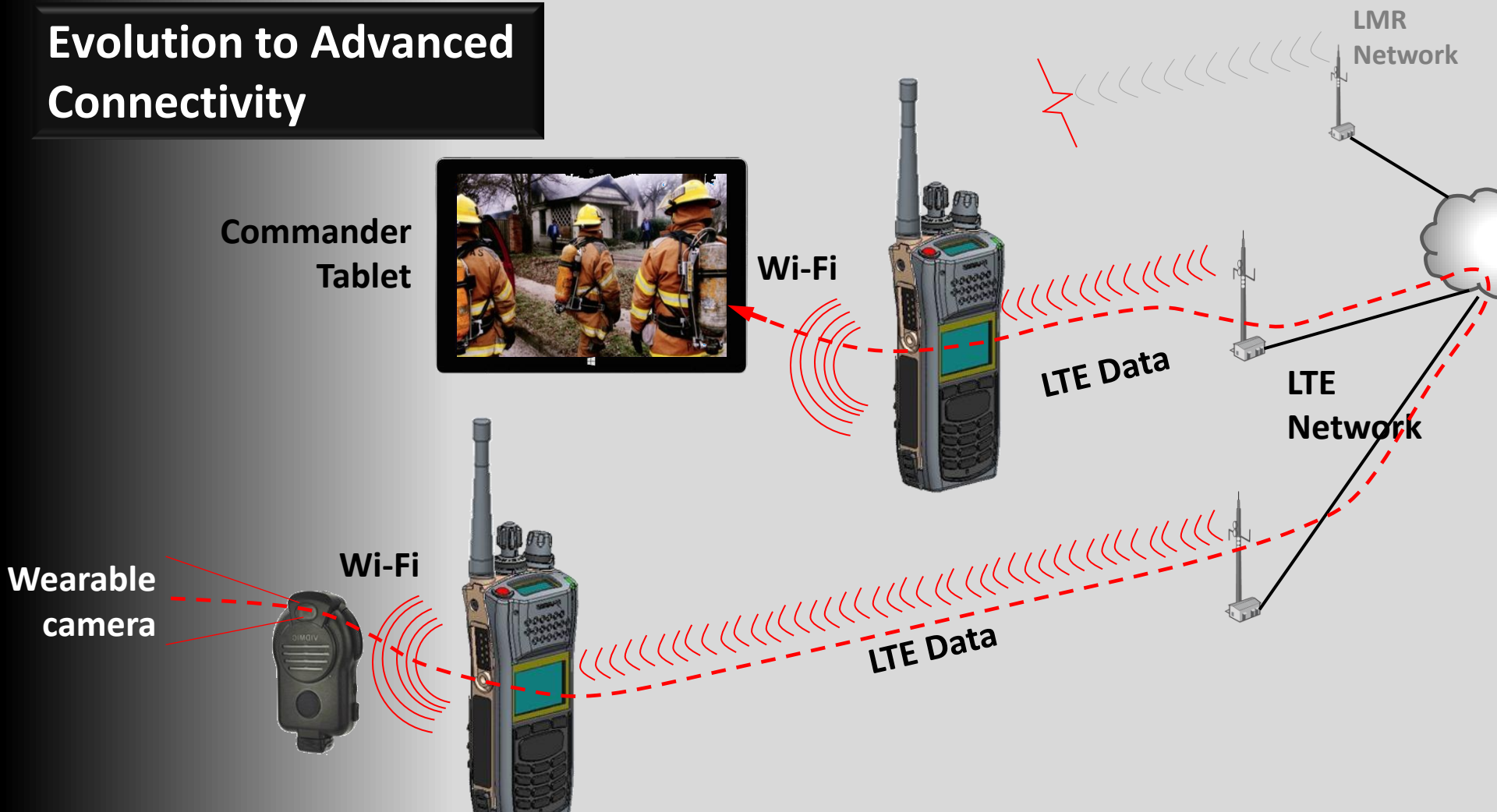
Other alternative paths for voice

Evolution to Advanced Connectivity



Serving data to first responder

Evolution to Advanced Connectivity





Sources of technology ◆

What to expect ◆

Fewer, simpler devices

That don't consume cognitive resources



Tougher than ever

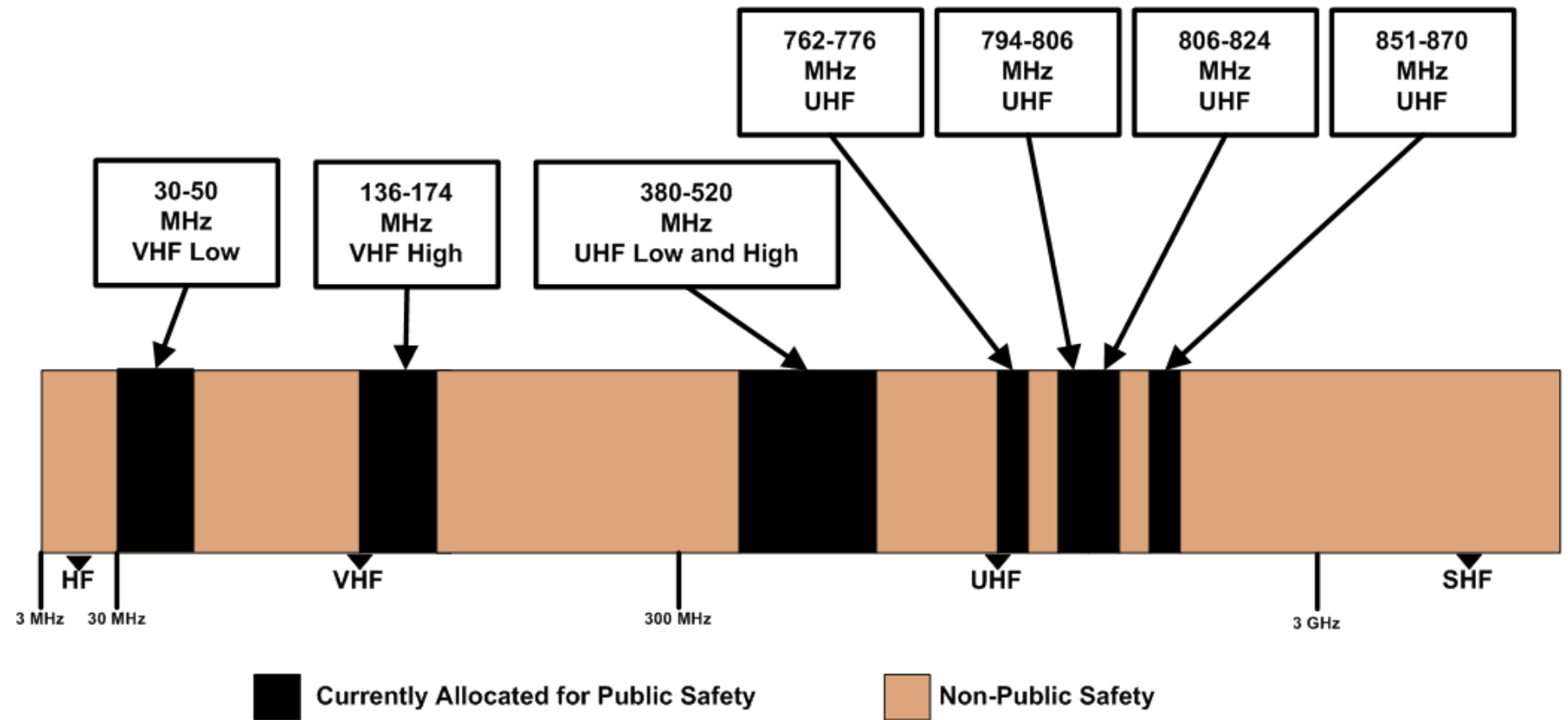
Adapted consumer quality audio



Multiple drivers
Higher audio power
Tuned porting

Evolving threats

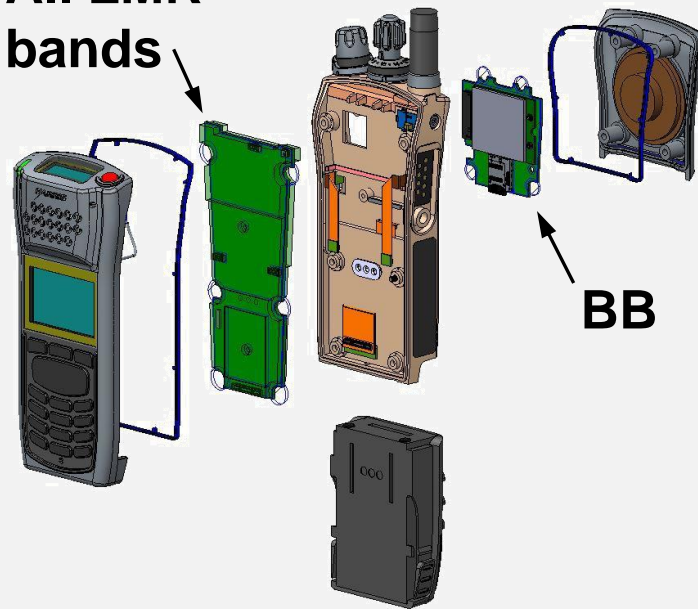




Discard LMR frequency band concerns

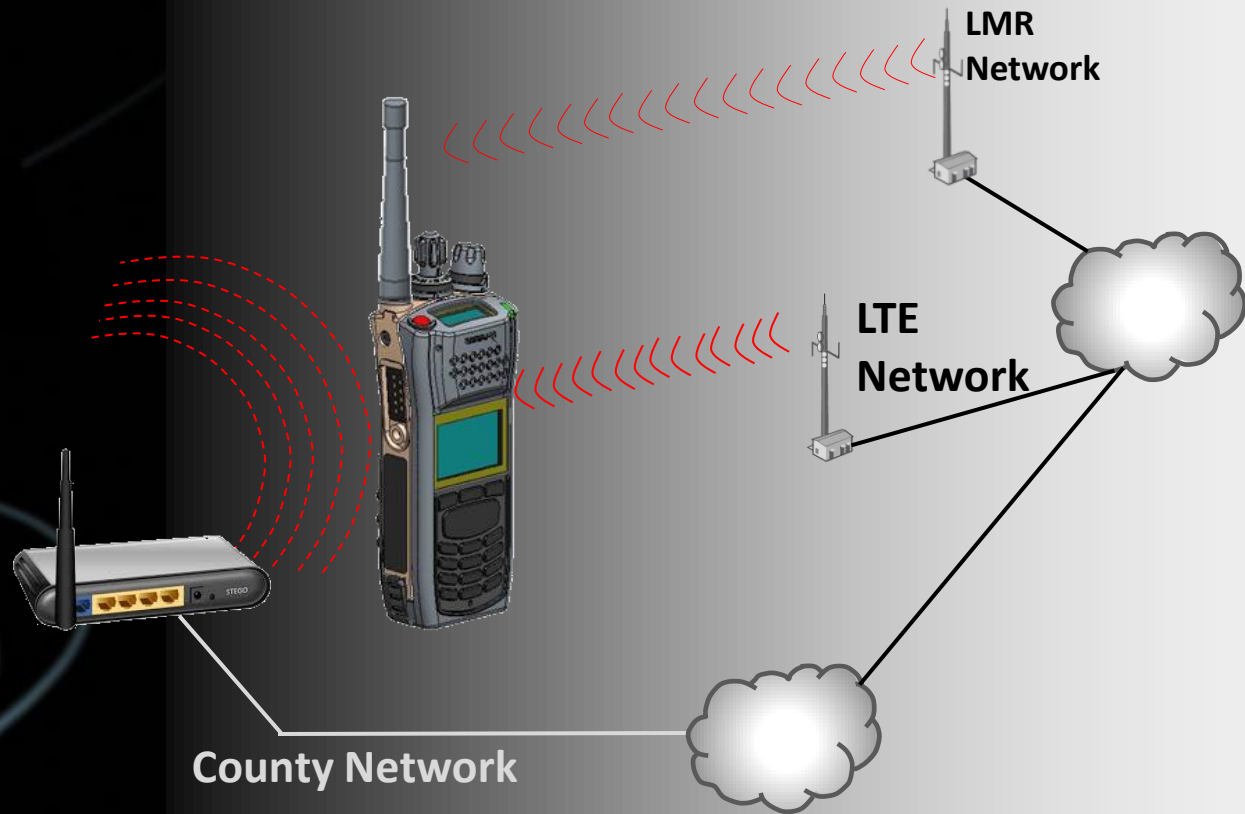


All LMR
bands



Integrated broadband

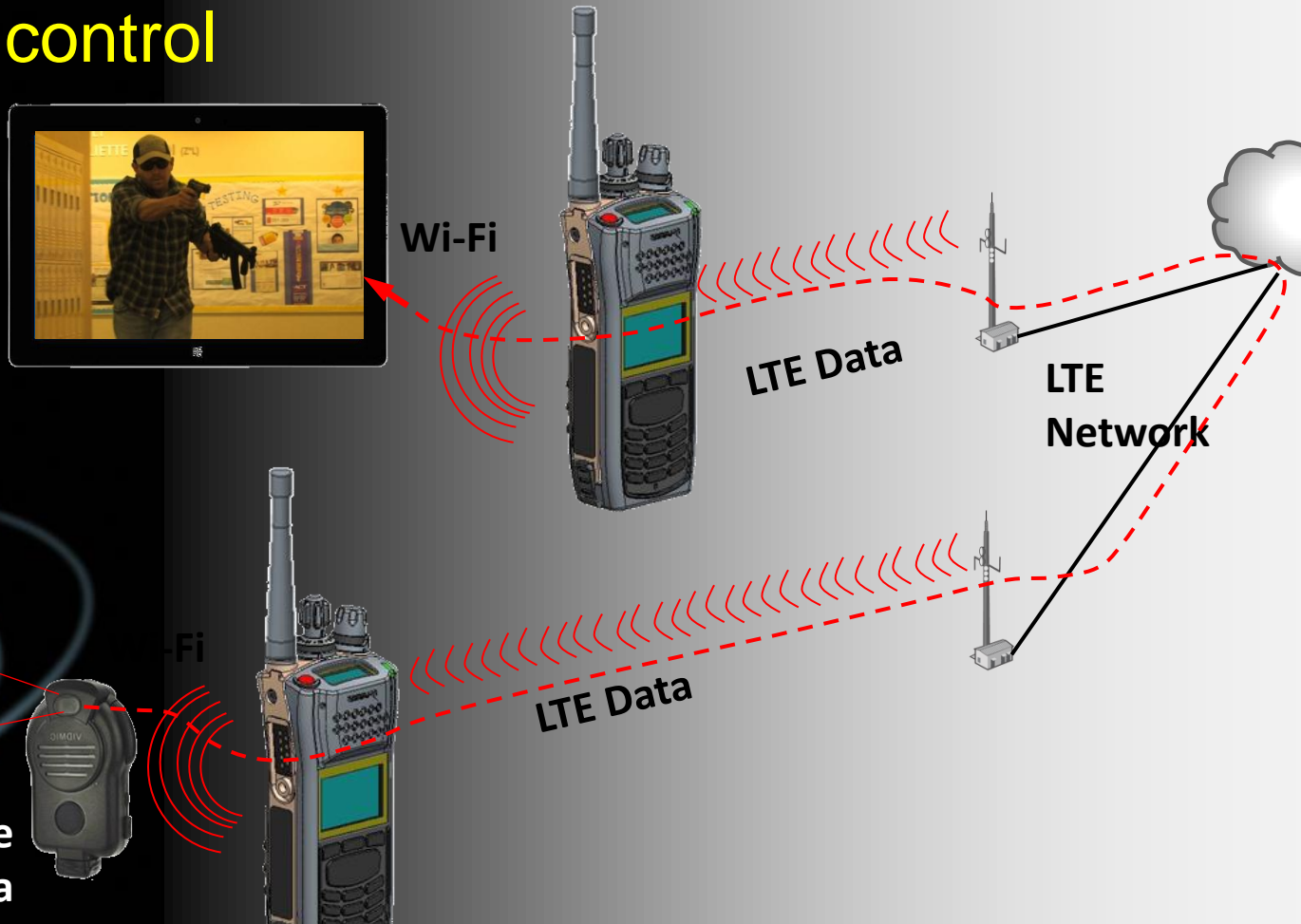
Alternative paths



Video for command and control

Col

Wearable
camera



A photograph of an emergency scene on a road. In the foreground, a red and white fire truck is parked on the left. To its right, a black car is involved in a crash, with debris scattered around. Two firefighters in yellow gear are standing near the car. In the background, another fire truck and a police car are visible. A helicopter with "AIR RESCUE" written on its side is flying in the sky. The background features a range of mountains under a hazy sky.

Harris is proud to support
first responders

Thank You

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