

# Presentation on the Two-Way Radio System in Use by the Department of Public Works

Roberto Travieso

Department of Public Works



# Background



- Two-way Radio technology has been in use with the Town's PD, FD, and PWD since at least 1982 (40+ years)
- System relies on a combination of a repeater and an VHF antenna mounted at the highest possible height in the area of service for maximum range (~40 miles radius)
- The Town transitioned from Motorola to Kenwood brand in 1992
- Around 2003, PD and FD had been privatized, making PW the sole user of the technology in the Town

# Background (Cont.)



- PW inherited all associated hardware/equipment and soon after, surplused all extraneous equipment
- Current repeater was last replaced in 2014 and the antenna was repaired in 2018
- Public Works Dept (PWD) requires two-way radio communication to facilitate operations
- Current primary system user in the field is the PW Sanitation Division

# Background (Cont.)



- Town currently leases cell tower space on a communications tower, located at **630 Old Dixie Highway**
- Annual leasing cost for cell tower space is **\$12,413.00.**
- Current contract was renewed by the Town Commission on 8/24/2022 for a period of two (2) five-year terms (120 months)



# Current Inventory



- Handheld: **22 EA**
- Truck-Mounted: **35 EA**
- Base Stations: **1 EA**

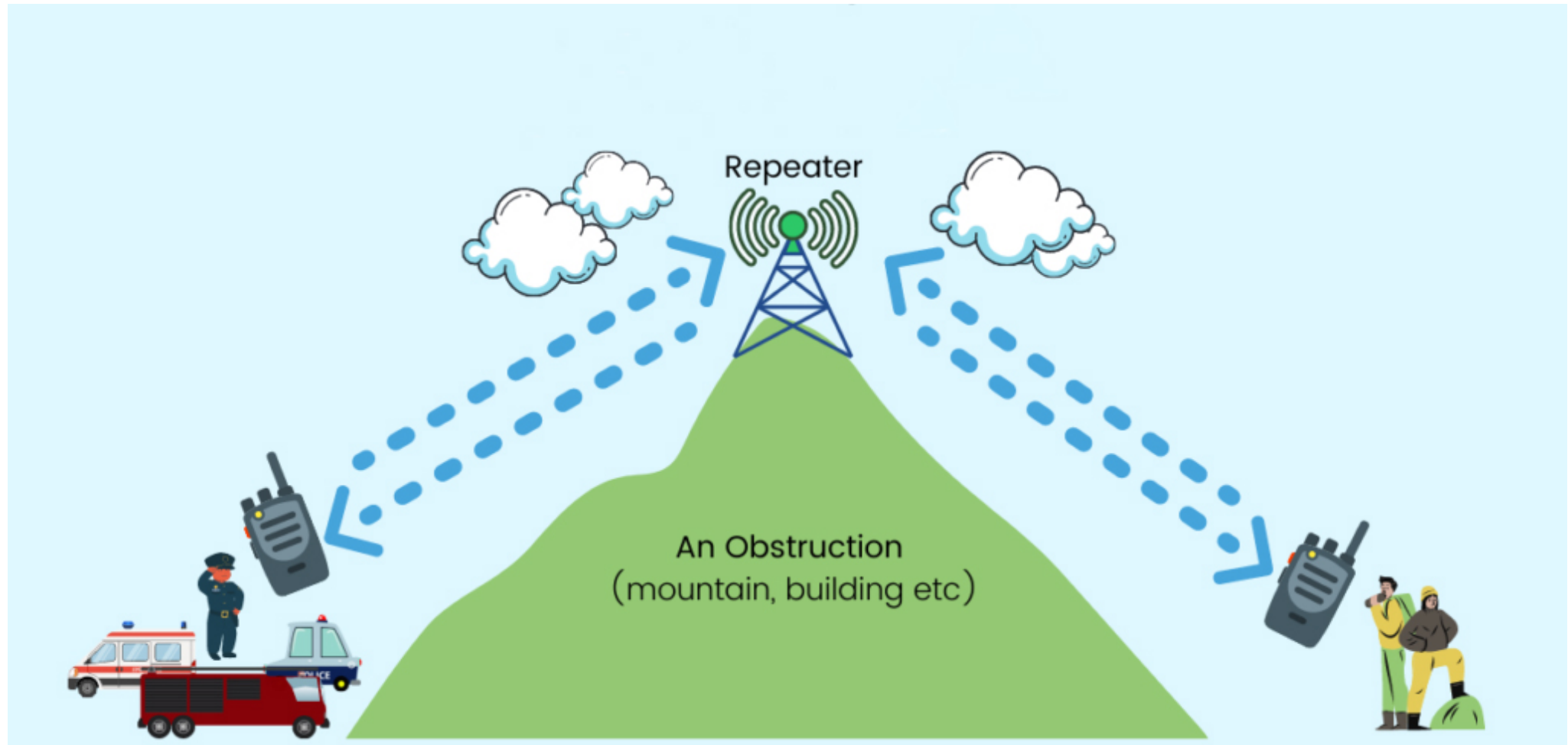


# Limitations



- Coverage area limited to ~40 miles:
  - To the North: Fort Pierce
  - To the South: City of Boynton Beach)
- Equipment is nearing End of Life for Technical Support and Parts Availability
- Most useful during emergency operations
- Availability of other technologies, I.e. Cellphone, digital radio (\$\$\$\$), etc.

# How a Repeater Works





## **Discussion/Questions**