Communication Transformation

- Capacity
 - Narrow Banding
 - Phase II
- P25
 - ISSI
 - Encryption
- Leading in the Transformation of Interoperability
- Fleet Management vs Facility Management



Narrowbanding and Phase II



Legacy 25 MHz Analog FM Channel



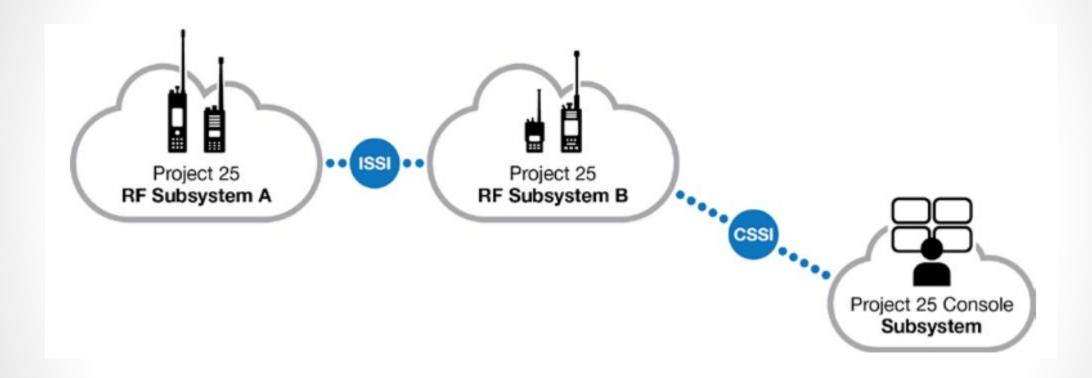
P25 Phase 1 - C4FM 12.5 kHz Channels



P25 Phase 2 - CQPSK 6.25 kHz Channels

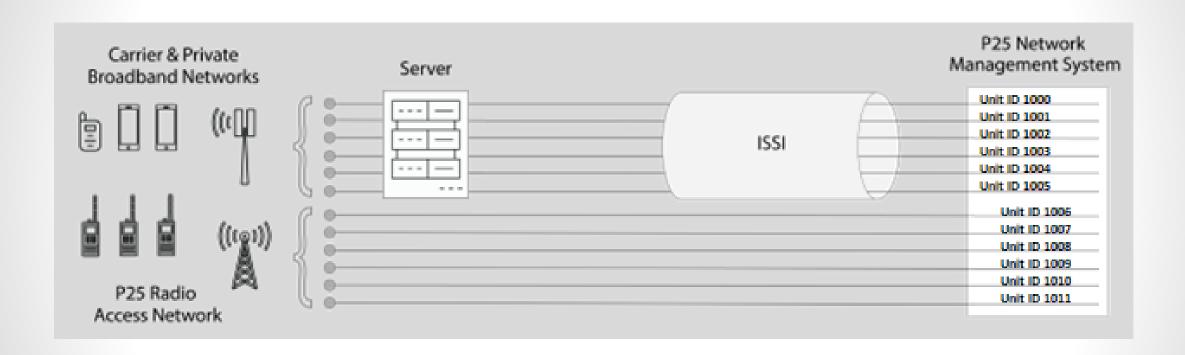


P25 / ISSI / Encryption





P25 / ISSI / Encryption





Unique ISSI Solution

- Many papers/webpages have difficulty finding a scenario where disparate systems are interfaced with an ISSI connection.
 - Costly
 - Complicated
- At the time of this presentation, Hawaii is the ONLY state found to have the ISSI opportunities negotiated by the system managers of County and State.
- Facilitates use of Cellular PTT option for Administrators.



Original Interoperability



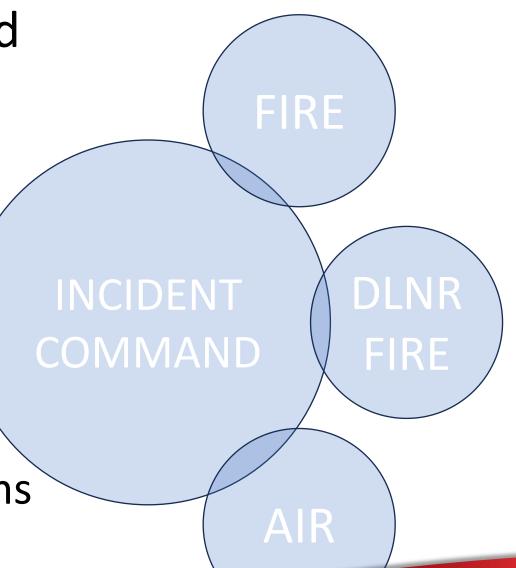


Frequently Observed in County of Maui

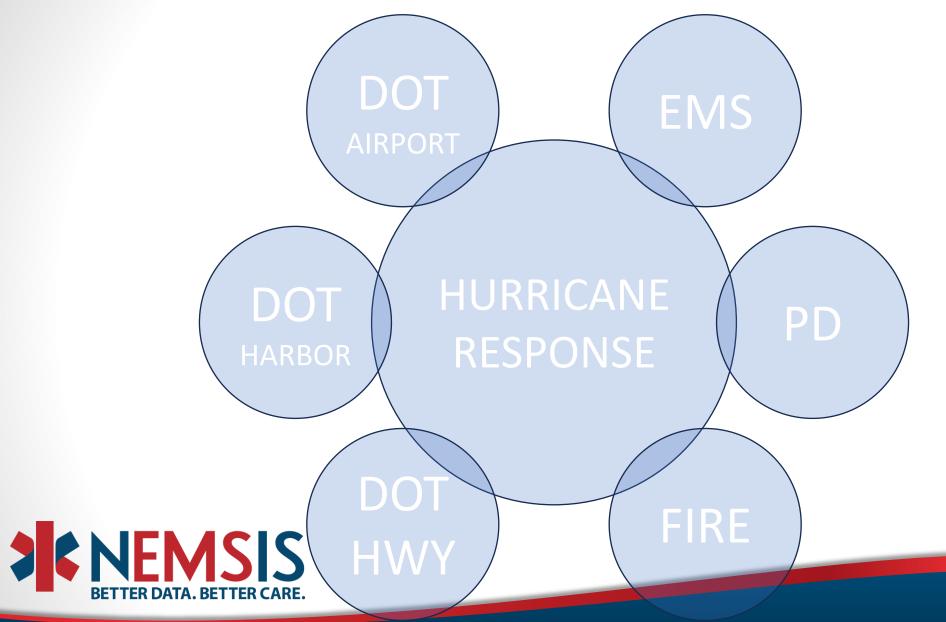


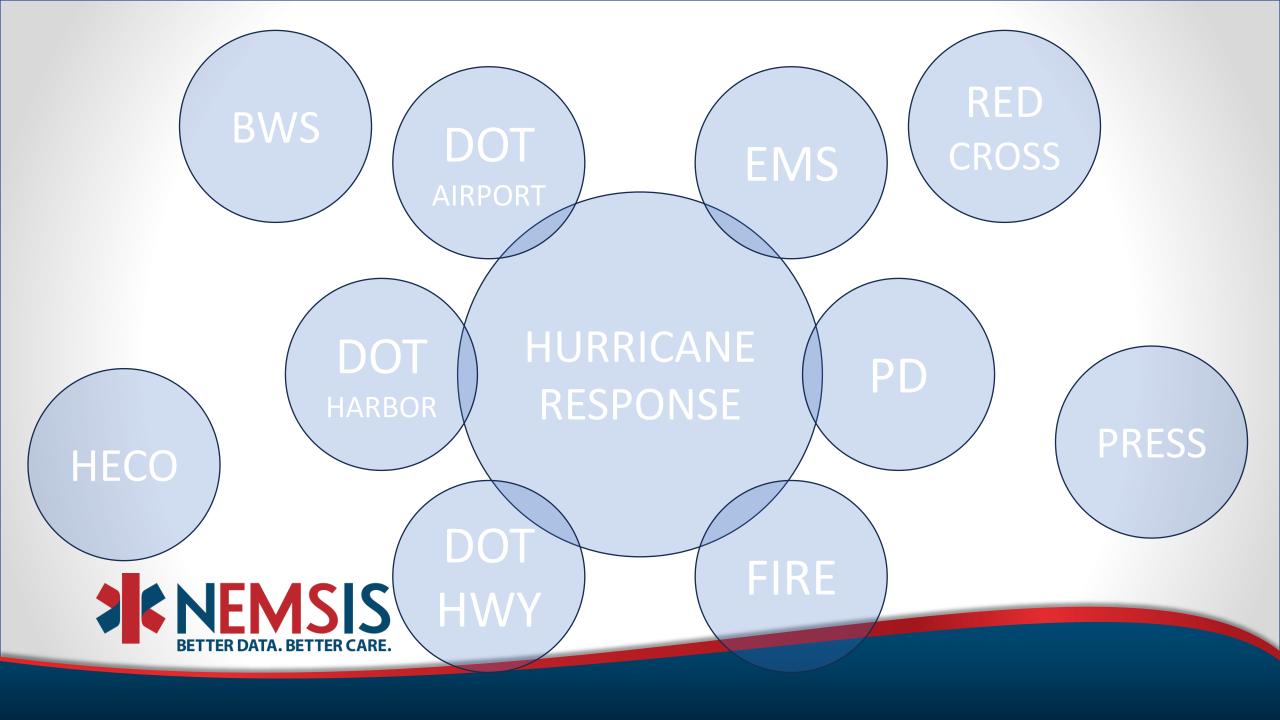
How to Communicate
Across Disparate Systems





MASS CASUALTIES AND WIDESPREAD DESTRUCTION





Communication Transformation

- Moving Away From Silo Systems
- Allowing Agencies to Manage Fleets not Facilities
- Five Public Safety Systems
 - Kauai, Honolulu, Maui, Hawaii, HIWIN Statewide
 - Adjunct Options for Cellular are additional tools but are NOT public safety grade
- Unification Allows Simplification
 - Encryption / Key Management
- EMS Using County System on Oahu
- EMS Moving To HIWIN in Kauai, CoM, Hawaii
 - Capacity



FLEET MANAGEMENT VS FACILITY MANAGEMENT

- DOH makes use of the HIWIN LMR system in 60 sites statewide without cost
- DOH avoids cost of managing 30 facilities already managed by the State
- HIWIN system has been transformed by advancing coverage through negotiated partnerships with the Counties
- DoH need only procure radios to use on public safety systems

