

State Interoperability Executive Committee

October 20, 2022
1:30 p.m. – 3:30 p.m.



Welcome

Introduction

- Review and modify agenda
- Member roll call
- News and Information Roundtable
- Approval of August 2, 2022 meeting minutes

State of Arizona's FirstNet Implementation

- Jeremy Knoll, AZ Telecommunications Manager and SWIC

Communications Assets Survey and Mapping (CASM) Tool - Andy Leneweaver

- Briefing and Demo

Updates – Zack Hudgins

- Cybersecurity Grant Update
- Briefing on SCIP Webinars

Good of the Order / Public Comment



Jeremy Knoll
Telecommunications Manager
State-Wide Interoperability Coordinator
Arizona Department of Public Safety



Wireless Systems Bureau Manages

- Statewide M/W Network carrying State, County, Local, Tribal, and Federal LMR traffic
- Statewide Conventional LMR Networks for State Agencies
- 700MHz P25 Trunk system is in the process, southern one-half of the state is mostly done
- DPS Subscriber Radios and assist with other state agencies
- All Cellular device services for DPS



Challenges

- Analog microwave radios are still in use
- Each State Agency is on its own stove pipe system
- Systems do not cover all areas of the state
- Each agency across the state is on one of three frequency bands
- In this time of “do more with less” we need upgraded technologies to meet the needs of our customers



Road Map

- Replace Analog Microwave
- Expand 700 MHz P25 Trunk System
- Consolidate State LMR Systems
- Provide Troopers with Tri-band Radios
- Provide Troopers with Body Worn Cameras
- Provide Troopers with Cellular Phones
- Install Cellular Routers in patrol vehicles
- Provide high-quality Cellular and Radio coverage across the State
- PSAP to PSAP Channel added to sections of the State



Where are we today?

- Provided all Troopers with Tri-Band Radios
- Provided all Troopers with Cell Phones
- Provided all Troopers with Body Worn Cameras
- Cellular Router installations 50% complete
- Demo project completed utilizing ADOT Fiber to add sites along the highway
- PSAP Channel completed in Central, Southeast, Southwest, and demo project started for Northeast
- Allocated funding to replace the analog microwave
 - 5+ year project due to additional sites to build and updates to existing sites
 - Once completed we can expand the 700MHz P25 Trunk System and work toward LMR consolidation

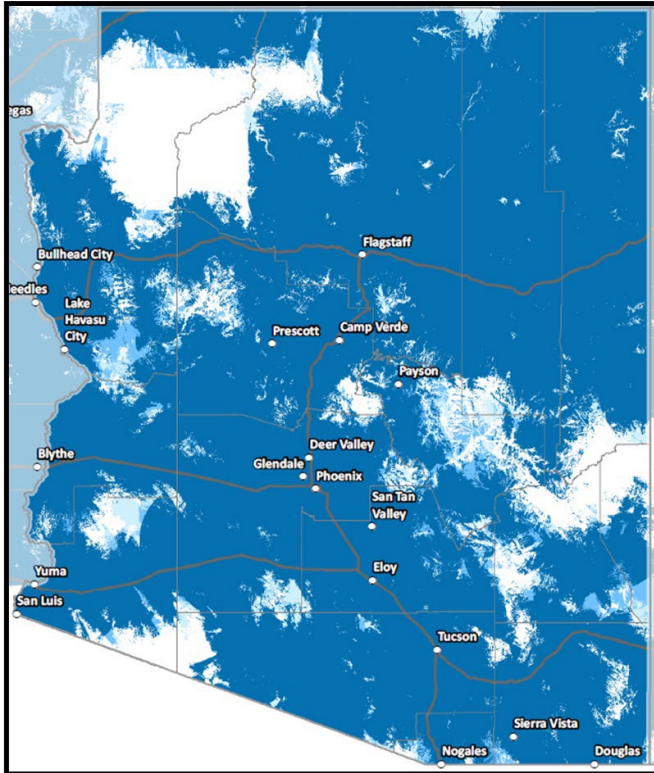


5+ years for many of these items to be completed!

- **What do we do in the meantime?**
- **What if the analog microwave fails?**
- **I still have no coverage in _____ area.**

Cellular Focus

- DPS was primarily using Verizon, why did we switch to FirstNet?
 - Wanted Public Safety Built and Supported Broadband System
 - Wanted the Priority and Preemption
 - 4 years of coverage/reliability testing statewide
 - PTT demo project, tying the LMR system to a PTT App to supplement coverage
 - Cost negotiations
 - Partnership with the FirstNet team and DPS



Build Trust
Collaborate
Succeed



Partnership with the SPOC/SWIC

- Real-Time notifications
 - Site Outage
 - Deployments
 - Agency adoptions
 - COLT/COW requests
- Assistance with Planned events
 - State Fair
 - Superbowl
 - Major Incidents/Crime Scenes
 - Civil Unrest/Protests

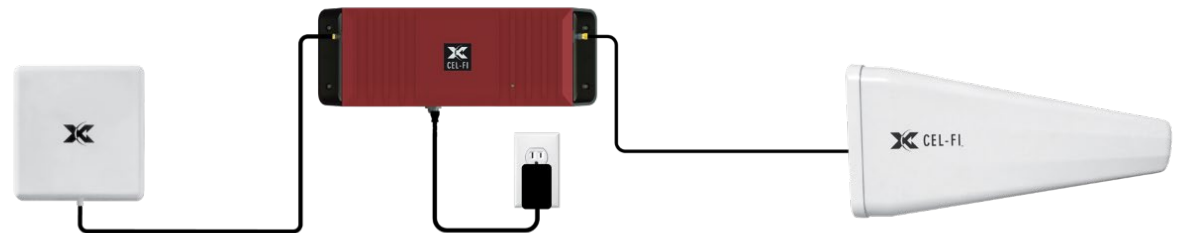


PRESIDENT TRUMP RALLY IN PRESCOTT
President Trump lands in Phoenix ahead of rallies



Where are we today with the FirstNet transition?

- Utilizing FNPTT with Squad to augment LMR coverage issues
 - Utilizing Cubic Vocality Kit to tie LMR to FNPTT channel
 - Great success with bad LMR coverage areas covered by FirstNet
 - Some issues with Vocality locking up
 - Testing Interworking Function (IWF)/Direct console interface soon
- Northern PSAP Channel Project
 - No Trunking capability in the northern half of the state
 - Utilize FNPTT and Vocality to Dispatch Consoles at each PSAP
 - Demo Project in play with great results
- FirstNet in-building solutions
 - FirstNet is providing and installing Cell-Fi Go-Red and CB-Pro solutions in Substations
 - No Cost to DPS



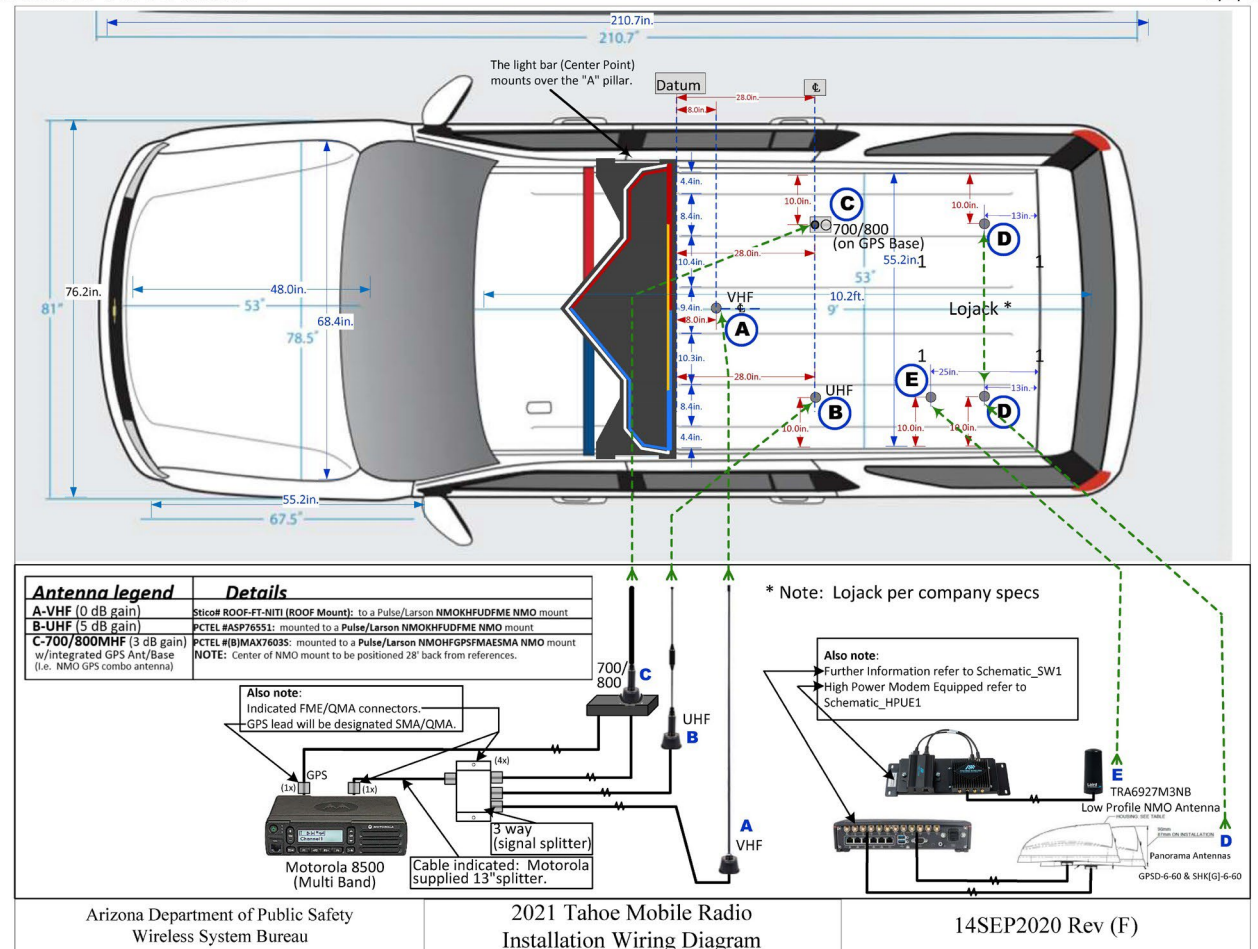
FirstNet continued

- Cellular Routers
 - Chose Sierra Wireless MG-90
 - Chose Panorama Antennas
 - Dual Sim if needed in area
 - HPUE (Mega Range) if needed in the area
 - Working interfaces with different appliances/programs



2022 Tahoe S-w HPUE Ant.vsdw

3/3/2022

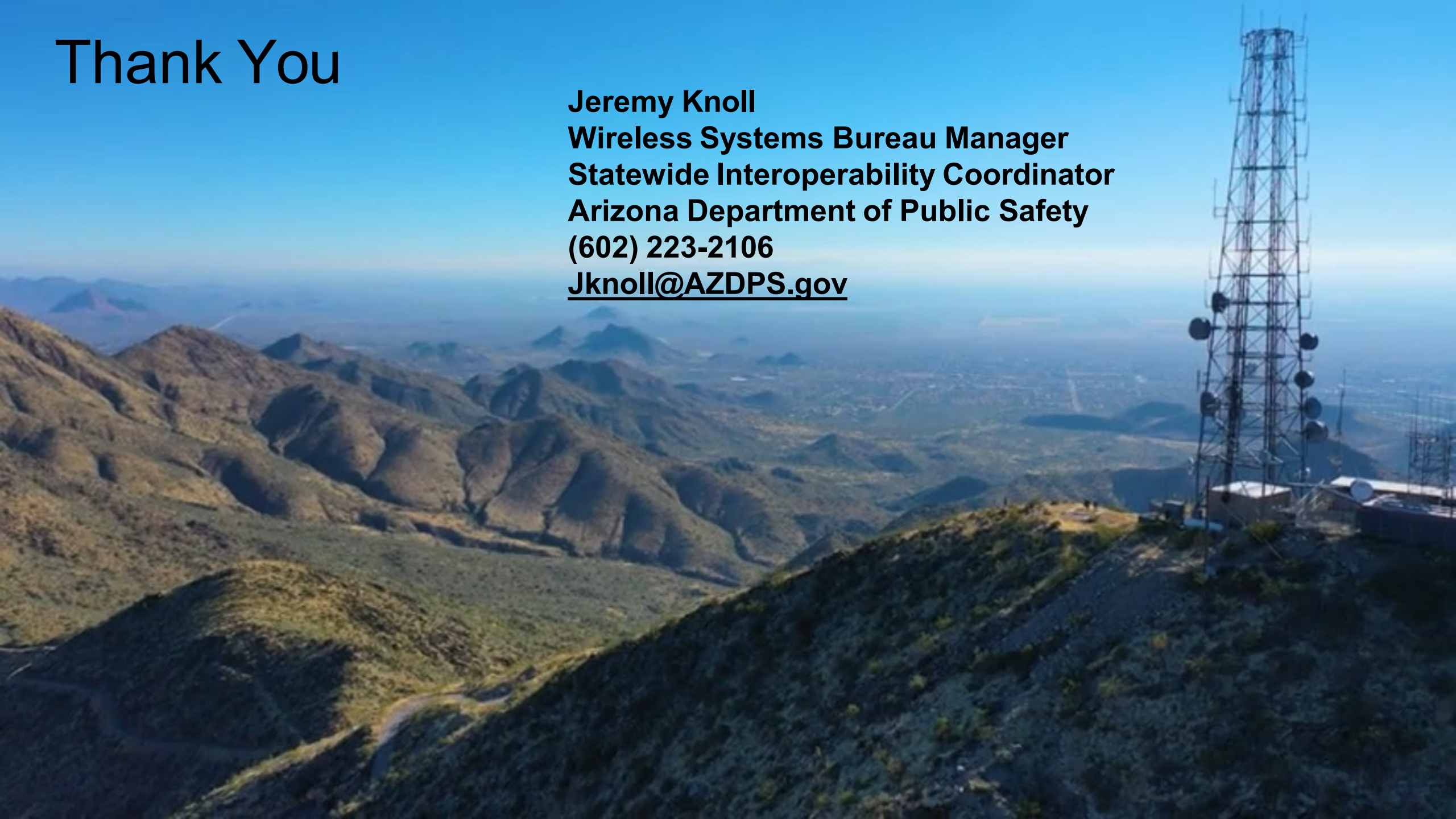


Questions?



Thank You

Jeremy Knoll
Wireless Systems Bureau Manager
Statewide Interoperability Coordinator
Arizona Department of Public Safety
(602) 223-2106
Jknoll@AZDPS.gov





Communication Assets Survey and Mapping Tool (CASM)

A CASM Overview

Andy Leneweaver

Deputy State 911 Coordinator for Enterprise Systems

CASM Approving Authority for WA



CASM Overview for WA APCO/NENA

- **Purpose of CASM**
- **Major Features**
- **CASM Access**
- **Why WA is using CASM – objectives**
- **Help Desk & Training**
- **Demonstration**
- **Questions & Contact Info**



Purpose of CASM

- **To provide a national, interoperable, emergency communications inventory for public safety agencies with the capability to contribute, visualize, and share communications asset information**
- **Maintain visibility of land mobile radio (LMR) and other comms resources currently in use (e.g., Dispatch Centers/NG911, Gateways, Mobile Assets, Comm Sites)**
- **Maintain a listing of Personnel trained/qualified in Communication Unit (COMU) positions**
- **Support public safety communications operability and interoperability planning**



Major Features

- **CASM has been operational since 2007**
 - Used by most states/territories over those many years
 - Continues to mature in functions/features provided
- **Resource inventory includes:**
 - Agencies, Dispatch Centers, Persons, Interop/Mobile assets, Conv Simulcast Systems, Trunked Radio Systems, RBS, Comm Site Infrastructure
- **Interoperability functions/features includes:**
 - ICS-217a, NIFOG v2.01, State and Regional Interop Channels
- **Reference and Training includes:**
 - Media Lib, Training Videos, User Guide, Help Desk
- **Administrative functions include:**
 - Account Mgmt, Data Sharing, COMU Classes, COMU Qualifications



Major Features (cont.)

- **Table/Map-based with Table column filtering**
 - Defines scope
 - Easily find items of interest
- **Support for user-defined and saved "Views" to quickly and easily display a resource in an areas of interest**
- **Separately defined radio systems:**
 - Comm Sites ; Interop Resources; Conventional Repeater Base Station (RBS), Conventional Simulcast System (CSS); Trunked Radio System (TRS);
- **Streamlined user data input requirements**
 - Minimum required data; lots of optional detail attributes
 - Conventional radio channel ownership is associated directly with agencies (since the agency holds the license)
- **Reporting/Exporting of data**
 - HTML and Excel files
 - Agency Interoperability Report
 - Resource Snapshot Report
 - ICS-217a
 - Multi-Resource Report (Comprehensive to include all related items)
 - COMU Personnel Export



CASM Access

- <https://casm.dhs.gov>
- **Server security which is FISMA Compliant**
- **View/Edit Permissions available per User**
 - state/county/city/agency-only
- **Access authorized per SIEC policy (TBD) with state approval**
 - All users get View of the agencies/assets in state
 - Based on agency or operational level they are assigned to or working for
 - Selected users get Edit for county/city/agency-only per their need

ASK: Counties/Cities/Agencies will be asked to designate a POC

- **Request for Access located on the Login Page**



Why is WA Using CASM - Objectives

- **WA is using CASM because of the purpose and features**
 - To provide better visibility of public safety communications capabilities
 - To facilitate interoperability planning of public safety communications
- **Short-Term Objectives**
 - Identify or update Agency and Asset POCs
 - Review and update Agency information
 - Mark the Agency as VERIFIED
 - Review and Update Comm Resources
- **Long-Term Objectives**
 - Maintain Dispatch Center inventory
 - Maintain COMU Personnel qualifications
 - Maintain Interop/Mobile Resource inventory (e.g., MCUs, Caches, GWs)
 - Maintain Comm Site infrastructure inventory (e.g., Towers, Antennas, Shelters, Transceivers, Backhaul)



Help Desk & Training

- **The CASM Help Desk**
 - Is available to answer questions/issues
 - Can provide on-demand webinars for show/tell support
- **Training webinars are by-request and can be scheduled**
 - Can be for General Overview
 - Can focus on specific objectives

casmhelp@hq.dhs.gov



Demonstration

CASM

CASM FOR OFFICIAL USE ONLY

Dashboard

RESOURCES

- Agencies
- Dispatch Centers
- Persons
- Interop Resources
- Conv. Simulcast Systems
- Trunked Systems
- Repeater Base Sta.
- Comm Sites

INTEROPERABILITY

- TICP Reporting
- ICS-217a Resource
- ICS 205 Comm Plan
- NIFOG v2.01
- Statewide Interop Channels
- Regional Interop Channels

REPORTS AND EXPORTS

- Exception Reports
- Metrics & Analytics

REFERENCE AND TRAINING

- Media Library
- FCC Licensed Locations
- My Overlays
- Training Videos
- User Guide
- Email Help Desk

ADMINISTRATION

- Account Management
- Notifications
- Share Data
- COMU Classes

FOR OFFICIAL USE ONLY



Questions & Contact Info

- **What are your questions?**

Contacts

State:

Andy Leneweaver

Deputy State 911 Coordinator / SIEC CASM POC

Cell: 253-302-9214

Email: andy.Leneweaver@mil.wa.gov

DHS/CISA/ECD/CASM:

Jeff Lee

CASM System Administrator / Architect / Help Desk

Department of Homeland Security (DHS), Cybersecurity and Infrastructure Security Agency (CISA), Emergency Communications Division (ECD), Interoperable Communications Technical Assistance Program (ICTAP)

Cell: 619-991-0712

Email: leejef@saic.com

Updates – Cyber Grant and SCIP Webinars



Good of the Order / Public Comment

