DEVELOPING THE OREGON NEXT GENERATION GIS DATABASE
GIS IN NEXT GENERATION

• Legacy system – Tabular ALI/ESN/MSAG information
  • Next Gen – Spatially representation of ALI/ESN/MSAG
    • Yes GIS will be the MSAG!

• GIS becomes essential for:
  • Location Validation
    • LVF queries GIS data to verify location.
  • Call Routing
    • Replaces the traditional selective router in the ECRF.
  • Emergency Response

• Potential to provide further refine data:
  • Building footprints: Location of a call within a building.
  • Medical information, floor plans, presence of hazardous materials, etc.
FIRST STEPS

- **Data Aggregation**
  - Quarterly Updates from each PSAP

- **NENA Required Spatial Database Layers**
  - Road Centerlines
  - PSAP Boundary
  - Emergency Service Boundaries
  - Authoritative Boundaries
  - Address Points strongly recommended by NENA.
    - Required by OEM.
  - All layers need to be “seamless” & no duplicate features.

- **OEM NENA Compliant Format**
  - Based on NENA GIS Standards Draft
  - Kansas and Tennessee models.
BOUNDARIES...BOUNDARIES

Administrative Boundary
- Area for which a jurisdiction is responsible for using data in the ECRF/LVF.
  - GIS Data Steward
  - Currently 30 GIS shops providing data for use in 9-1-1 systems.

PSAP Boundary
- Call-routing boundary.

Emergency Service Boundaries
- Law Enforcement, Fire, and Emergency Medical Response

NO GAPS OR OVERLAPS!
BUILDING A PSAP BOUNDARY MAP
BUILDING A PSAP BOUNDARY MAP

- **Definition:** This layer depicts the polygon boundary that defines the geographic area of a PSAP which has primary responsibilities for an emergency request.
- **Employed by the ECRF/LVF to route calls to the appropriate PSAP.**
- **Can it be coincident with your county boundary?**
  - No official county map in the state of Oregon.
  - Roll of tax assessors data.
- **Derived from recent ESN or other representative polygon layer.**
  - Please deliver your PSAP boundary.
- **Resolving gaps and overlaps between PSAP Boundaries.**
- **Additional Response Zones**
  - Can be coincident with fire districts or EMS response.
BUILDING A PSAP BOUNDARY MAP

Jackson Co. Boundary

ECSO PSAP Jurisdiction Boundary
BUILDING A PSAP BOUNDARY MAP

Call-taking agreement with Crater Lake National Park.

ECSO Submitted CLNP Boundary

Clipped Klamath PSAP to CLNP Boundary
BUILDING A PSAP BOUNDARY MAP

Reference the Tax Assessor Parcels in order to determine which jurisdiction receives calls for a given area.
A RESOLVED PSAP BOUNDARY!

DOUGLAS

JACKSON

KLAMATH
Tillamook overlap at Highway 53 with Seaside. Do we expand to include addresses along Highway 53?
TAX ASSESSOR DATA DOES NOT ALWAYS MATCH BETWEEN COUNTIES.

Parcel Information

<table>
<thead>
<tr>
<th>Parcel Information</th>
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<tbody>
<tr>
<td>Curry</td>
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<tr>
<td>Josephine</td>
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200 ft between parcel boundary
OTHER REFERENCE TOOLS

Public Land Survey System, quarters.
MAINTAINING THE BOUNDARY

• **Official Boundary maintained by OEM**
  • Maintain a seamless statewide PSAP boundary layer
  • Submission of boundary changes to OEM.
    • Annexations
    • Service area agreements.
• **Represent extent of Emergency Service Boundaries**
  • Law
  • Fire
  • EMS
• **Split centerlines at PSAP Boundaries**
  • Seamless centerline data between PSAPs.
AT PSAP

VESTA Map Deployment
- Data configuration
  - Basemaps
  - Supplemental Layers
  - Telecommunicator training.

Adjacent PSAP Data
- Deliver adjacent PSAPs data for inclusion in your telephony display.
- Address Points when available.
Questions?