

# GTAC



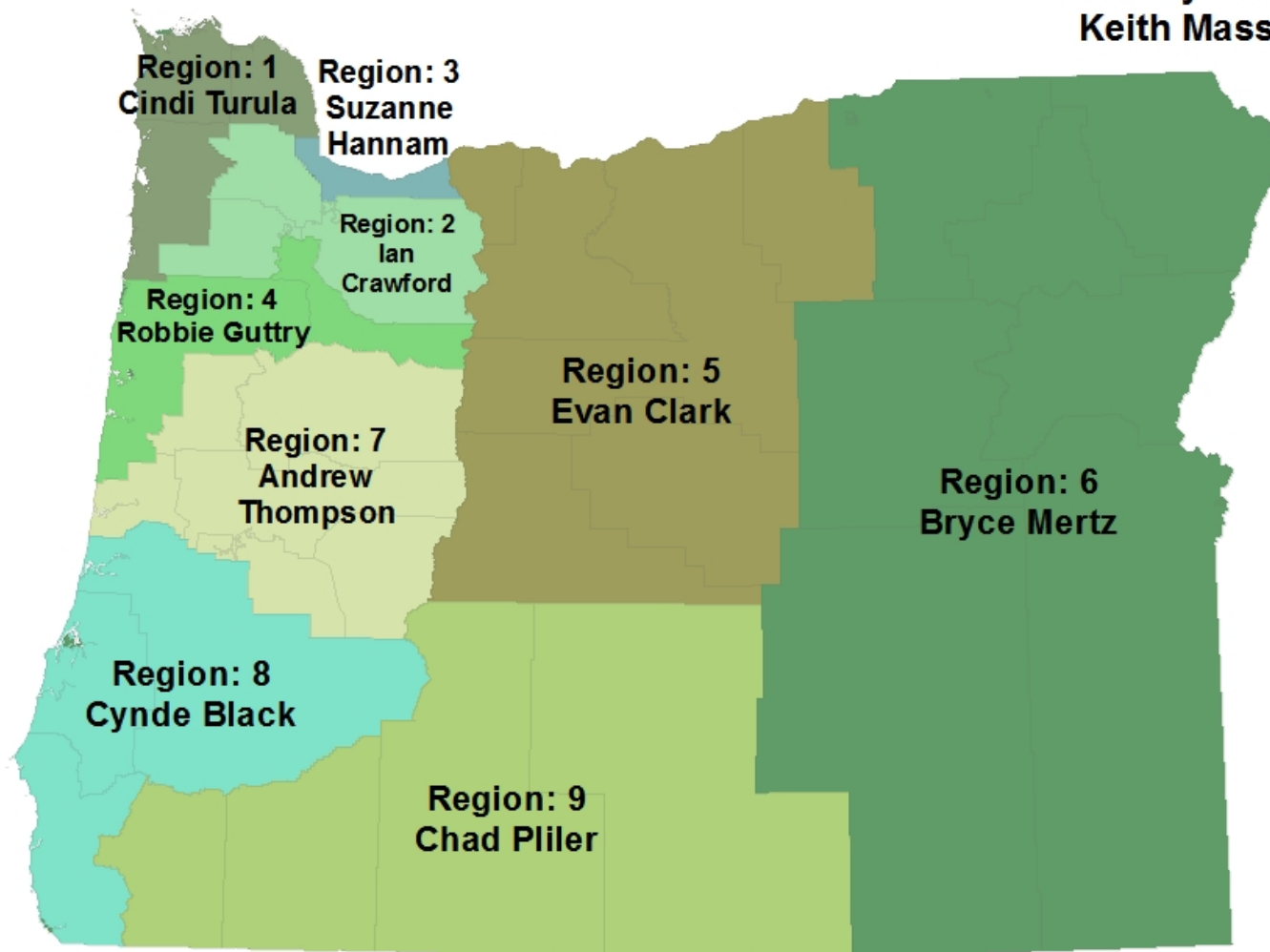
**GIS TECHNICAL  
ADVISORY  
COMMITTEE**



# Mission Statement

Advise State of Oregon 9-1-1 Program by defining best practices for development and maintenance of GIS/MSAG data for use in Public Safety Answering Points (PSAPs).

**Michael Gurley - OEM**  
**John Murner - OEM**  
**Chuck Ronshagen - Airbus**  
**Diana Gijsselaers - Airbus**  
**Shirley Corbett - GeoSolve**  
**Keith Massie - LCOG**





# How do we prioritize efforts?

- Low hanging fruit
- Form subcommittees
- Don't reinvent the wheel
- Open meeting



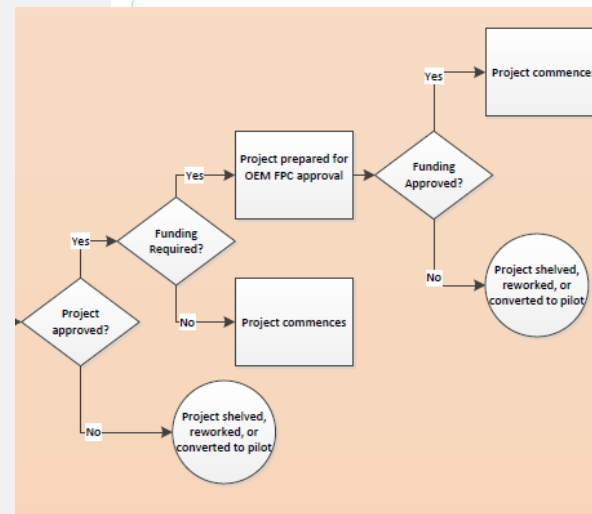
# In Progress

- Committee Administration
- OEM 9-1-1 GIS Data Model
- PSAP Boundaries
- ESN Renumbering
- ALI Database Reconciliation
- PSAP Specific Efforts

# In Progress

## Committee Administration

GIS-MSAG Technical Issue Worksheet	
Oregon 9-1-1 GIS-MSAG Technical Advisory Committee (GTAC)	
ISSUE DESCRIPTION	
Category	MSAG, GIS, Others?
Description of Issue	
Cause(s) of Issue	
Primary need(s) and objective(s)	
Technical Lead(s)	Person or organization
STATUS	
Date Identified	
Priority	High, Medium, Low?
Status	Active, Open, Resolved, Closed, In Testing, Under Review?
Date Resolved	
CONCERNS & LIMITATIONS	
Concerns and/or liabilities	
Expectations of public or users	
Technical limitation(s)	
REVIEW OF EXISTING DOCUMENTATION	
Existing standard(s) reviewed	
Existing process(es) reviewed	





# In Progress

## OEM 911 GIS Data Model

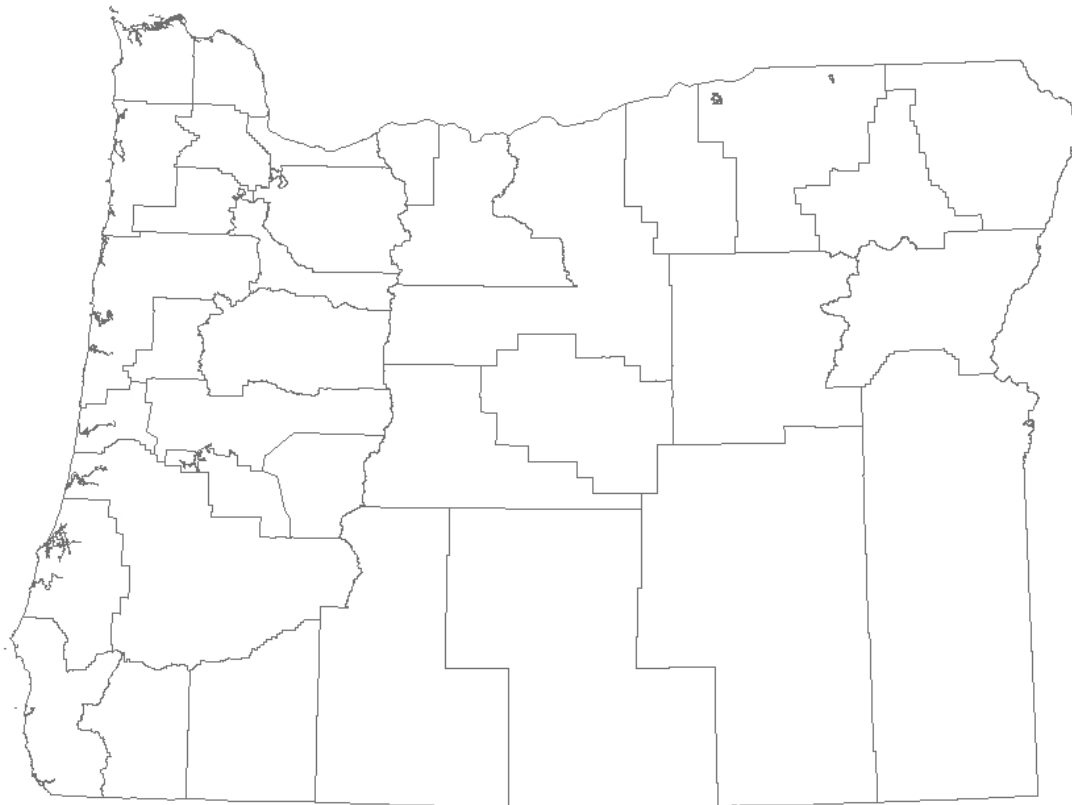
### Road Centerlines

Name	Type	Length	M/C/O	Description
STEWARD	String	75	M	GIS Steward Identifier
SEGID	String	100	M	Unique segment identifier
FROMLEFT	Long		M	Beginning address range value left
TOLEFT	Long		M	Ending address range value left
FROMRIGHT	Long		M	Beginning address range value right
TORIGHT	Long		M	Ending address range value right
PREMOD	String	15	O	Street Name <u>Premodifier</u>
PREDIR	String	4	C	Street Name Pre directional
PRETYPE	String	4	C	Street Name Pre-type
NAME	String	50	M	Street Name Key



# In Progress

## PSAP Boundaries












# In Progress


## ALI Data Reconciliation



**NENA Data Standards  
For Local Exchange Carriers,  
ALI Service Providers & 9-1-1  
Jurisdictions**





 CenturyLink™  Query ALI DRs

9-1-1 NET Home MSAG  ALI  TN  ESN/ELT  Reports 


Query Type  Active

Status  All Report Type  All Date Created: F

Reason  All Age  =

Referred To:  -

PSAP Name  Date of Call: From  yyyy-mm-dd

Class of Service  All

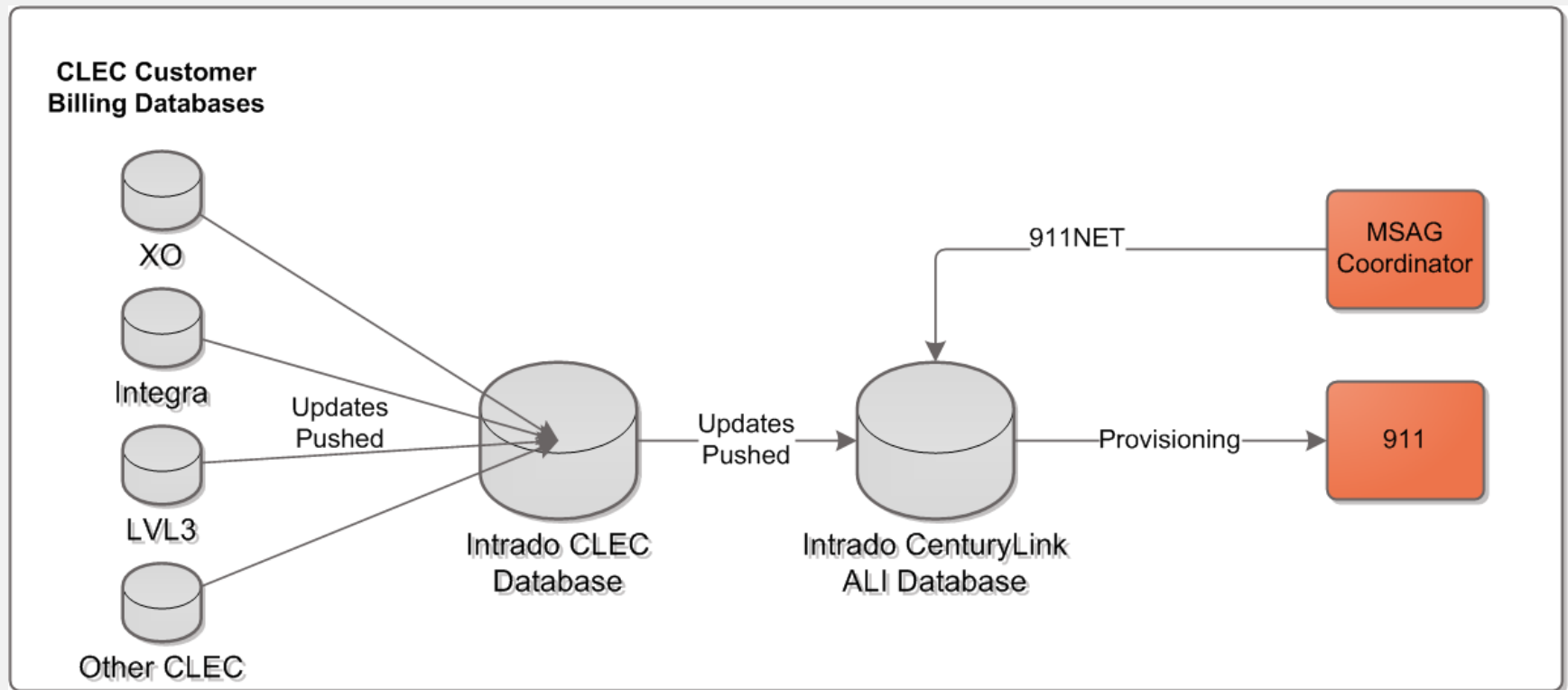
ANI TN    CBN    ESQK/ESRK

Customer Name  COID 1

House #: From  To  Suffix

# In Progress

## ALI Data Reconciliation





# In Progress

- WVCC – Street Naming Guidelines
- LCOG – Regional GIS Conferences
- ECSO – Aerial Photo Special Project

# In Progress

## WVCC - Street Naming Guidelines



"ALWAYS THERE,  
ALWAYS READY"



# In Progress

## Conferences





# GIS and Next Generation 9-1-1 in Washington State

- This presentation will focus on Washington State's preparation for NG911. The panel will discuss the current PSAP GIS data environment and the upgrades required for statewide seamless GIS data layers.

8:30 - 9:00am

Implementation of a Regional Public Safety GIS in Spokane County, Washington

*Shawna Ernst , Spokane County, Spokane, WA, and Joe Sacco , City of Spokane, Spokane, WA*

- 9:00 - 10:00am

GIS and Next Generation 9-1-1 in Washington State

*Dan Miller, GLSP, Washington E911 GIS Manager, Washington Military Department*

*Camp Murray, WA*

*Ian Von Essen, Spokane County GIS Manager, Spokane County, Spokane, WA*



- Snohomish County
- Intrado NY State Addressing
- GeoComm South Dakota Addressing/ Centerline project
- 3D maps for 911 call taking



# In Progress

## Jackson Aerial Photo Special Project

- Partnership
- Cost savings
- Value to dispatch
- Vector data maintenance





# Opportunities

- Committee Administration
- Data Management
- Collaboration
- Education
- Data Standards
- Telco



# Opportunities

## Imagery



- Oregon FIT
- NAIP ½ Meter Buy up

- <http://www.igic.org/wp-content/uploads/2014/06/NAIP-2015-2016-Contract-Buy-Ups-NSGIC.pdf>
- <http://www.oregon.gov/DAS/CIO/GEO/pages/fit/fit.aspx>

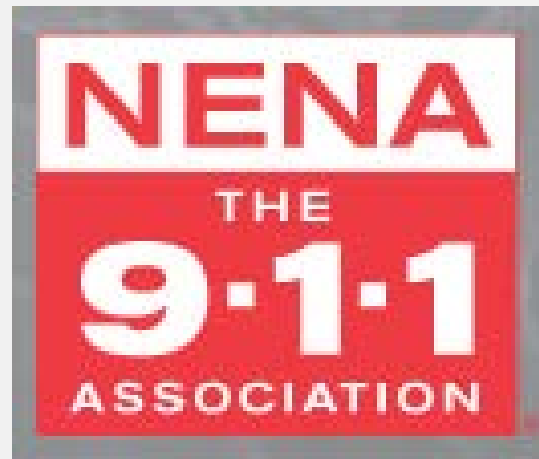






# Opportunities

NENA Data Maintenance Standards  
Workgroup







# Opportunities

Educational



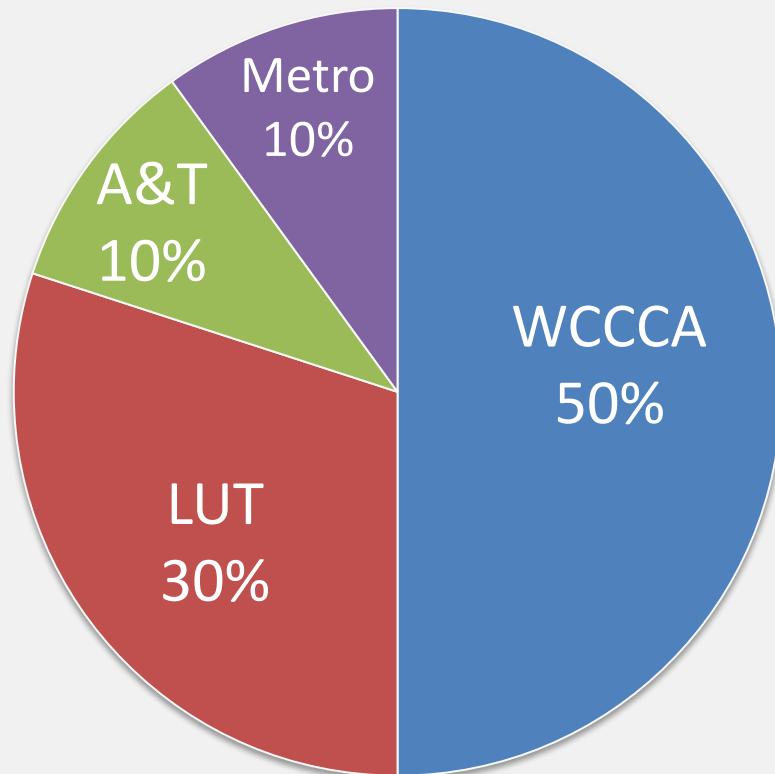
**Python User Group**





# Opportunities

## Local Government Partnerships



- A&T – Address mx
- LUT – Centerline mx
- Metro – Data aggregation, coordination
- WCCCA – Data ETL, map config, MSAG, GIS layer mx



# Opportunities

## GIS Staffing

- On site technical mapping support
- Addressing clarification
- Provide map training to dispatchers
- Local knowledge
- Participation in regional/state GIS committees





# Opportunities

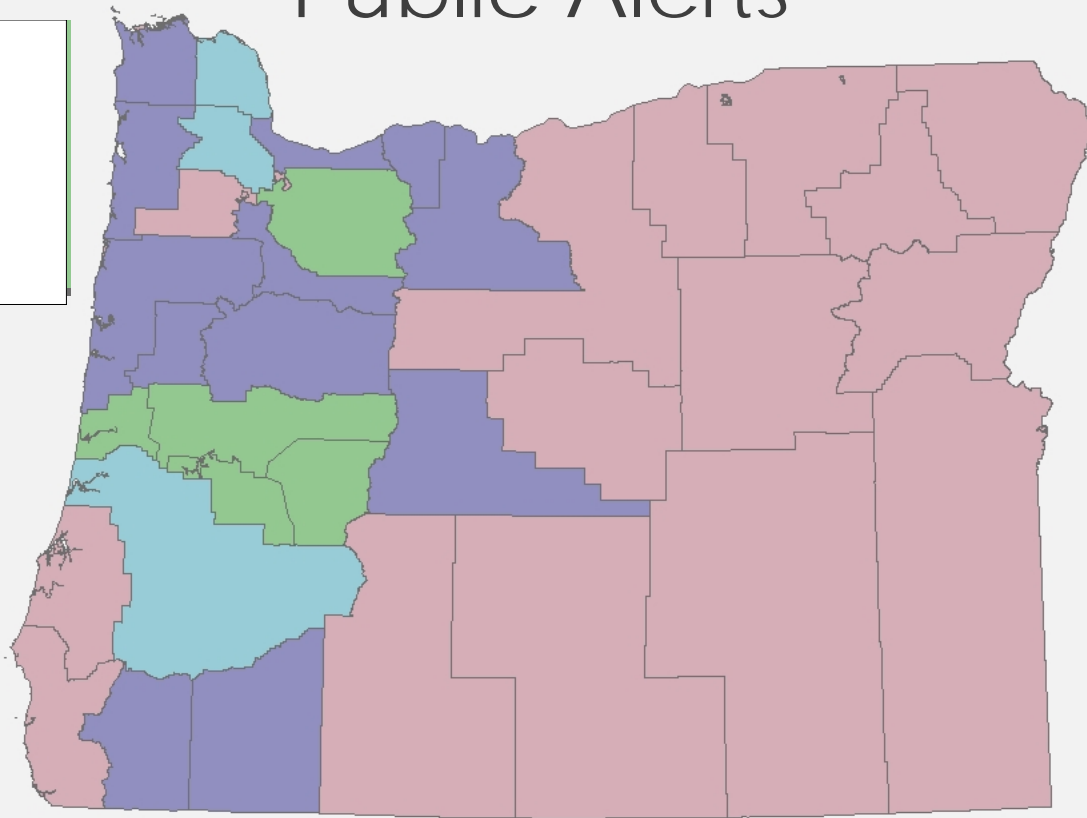
## Funding Policy Committee

- GTAC projects may require funding
- Special projects under consideration by FPC may be technical in nature
- Special project guidelines

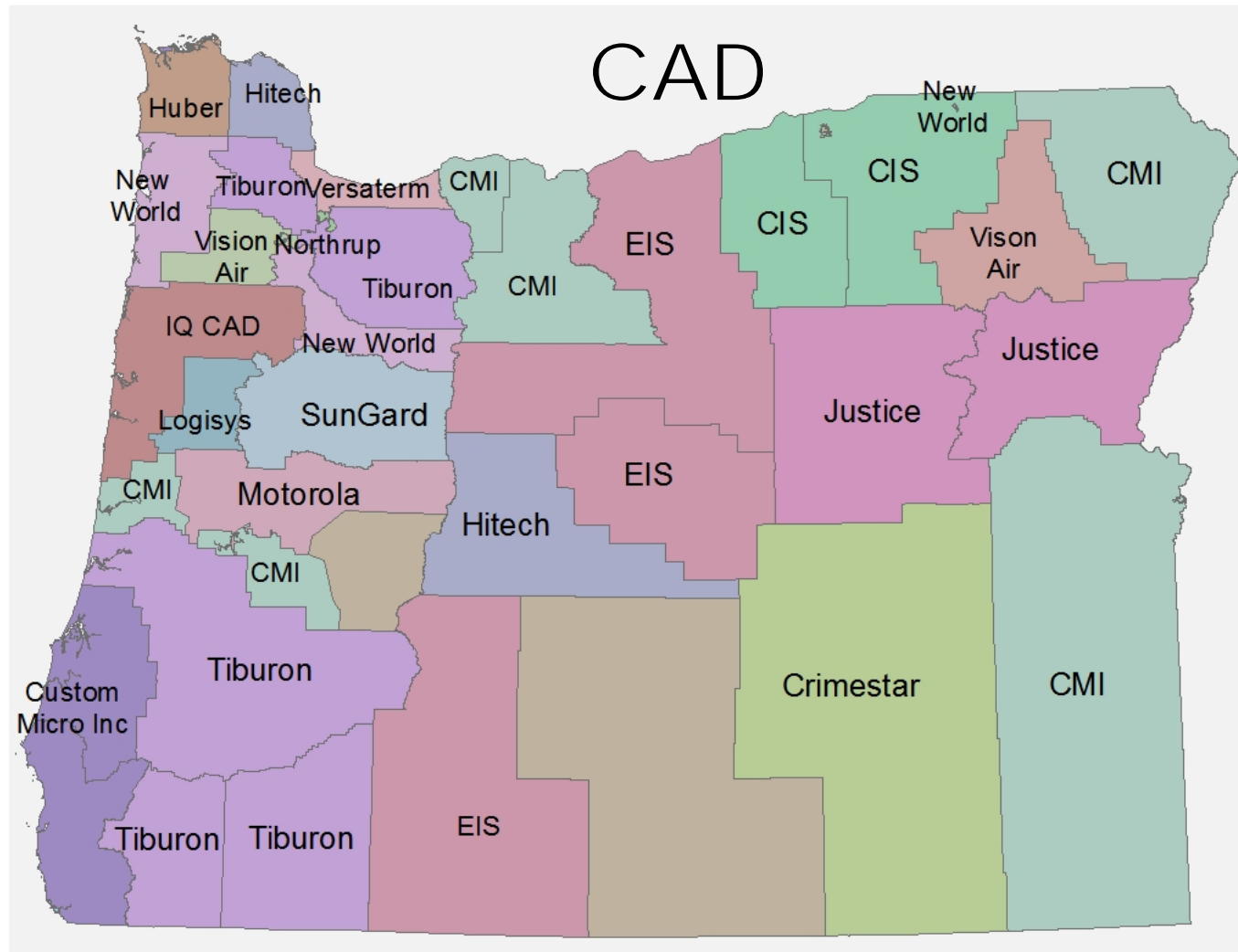


# Opportunities

## Public Alerts



# Project Opportunities



# Opportunities

## Telco Projects

- ALI Reconciliation (in progress)
- ALI Location Field Standardization
- ALI Extract Coordination



# Opportunities

## Pictometry

- Dispatching
- Fire approach
- Search and rescue
- Tax assessment
- Vector GIS

# Opportunities

## Define Best Practices

- Street Naming Guidelines (Robbie)
- Map data buffers
- Addressing
  - Multi-story address point placement
  - Driveway vs front door
  - Assessor data
  - Field Verification – Fire dept, mailers, streetside, web apps

# Project Opportunities

## Urban Advantages

- Mature datasets
- Large GIS community
- More GIS funding
- High resolution aerials
- Smaller geographic area facilitates field checks
- GIS staff in-house with direct access to 911 ops, local familiarity

## Rural Disadvantages

- Later start
- Smaller GIS community
- Less GIS funding
- Lower resolution aerials
- Larger geographic area hinders field checks
- GIS vendor staff working remotely

# Project Opportunities

## Urban Disadvantages

- High degree of change and growth
- Larger database size/record count
- Multiple stakeholders, diverse business needs
- Complex data models
- ETL processes are required

## Rural Advantages

- Low degree of change and growth
- Smaller database size/record count
- 911 stakeholder, specific business needs
- Simple data models
- Source formatting retained



# Project Opportunities

# ALI Cell Tower Display

[illegible]