

INVENTORY AND CONNECTIVITY ASSESSMENT FOR *Q.* *GARRYANA* HABITATS

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Ted Labbe, Urban Greenspaces Inst.



Metro





Learn About High Value Habitat In Your Area

REGIONAL CONSERVATION STRATEGY

Welcome

Viewer

About

FAQ

Docs & Maps

Data

SELECT AN AREA: (select)



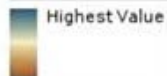
Layers & Legend

- HIGH VALUE HABITAT

☐ Regional - Highest Value

☐ Regional - High Value

☒ Regional - Full Spectrum



+ RIPARIAN HABITATS

+ LAND COVER

+ BASE DATA

2012



www.regionalconservationstrategy.org

search address, hit enter

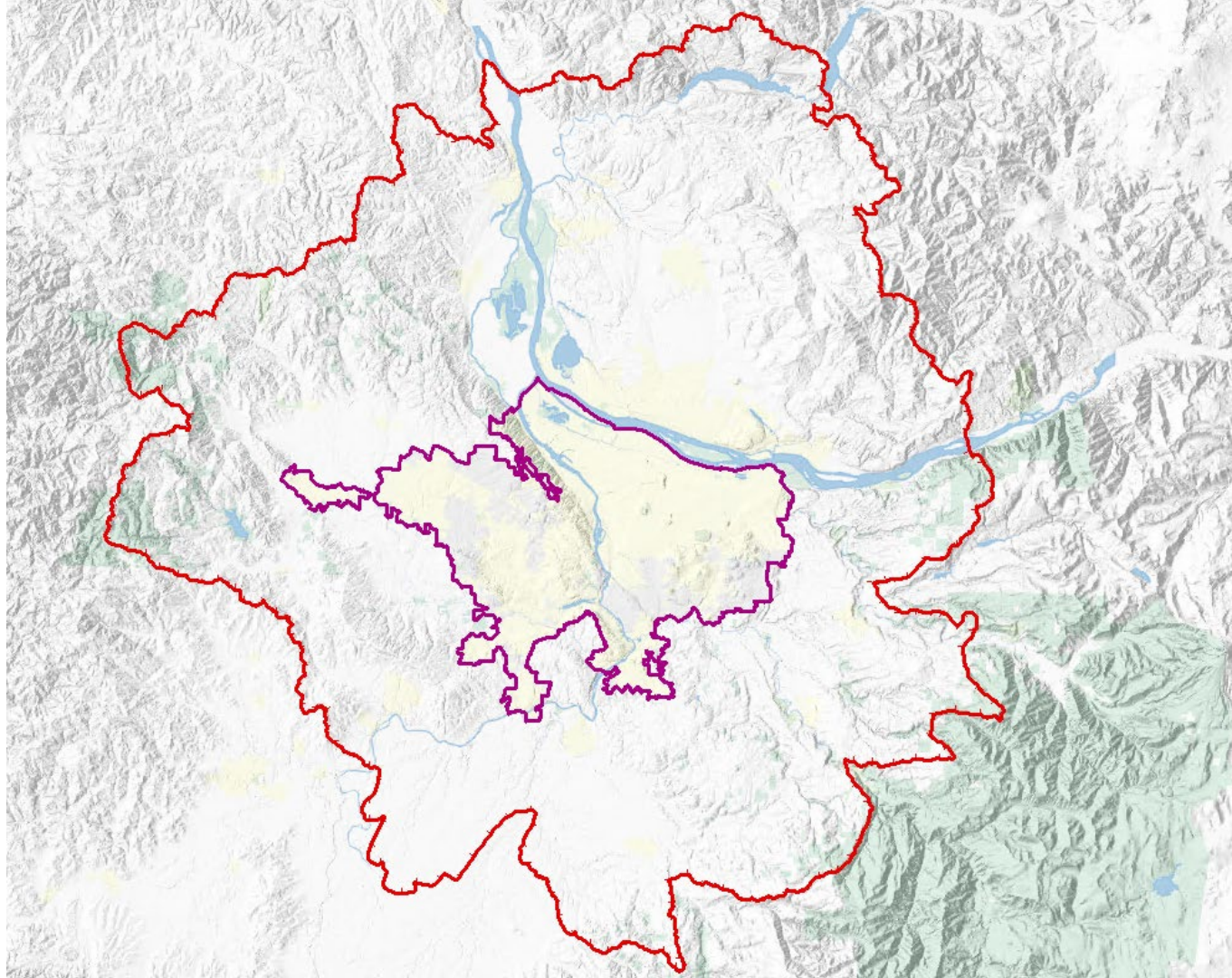
Go





Oak Prairie Work Group

- High quality QUGA map
- Update RCS
- Prioritize
- Collaboration, stewardship, education



OPWG funding partners

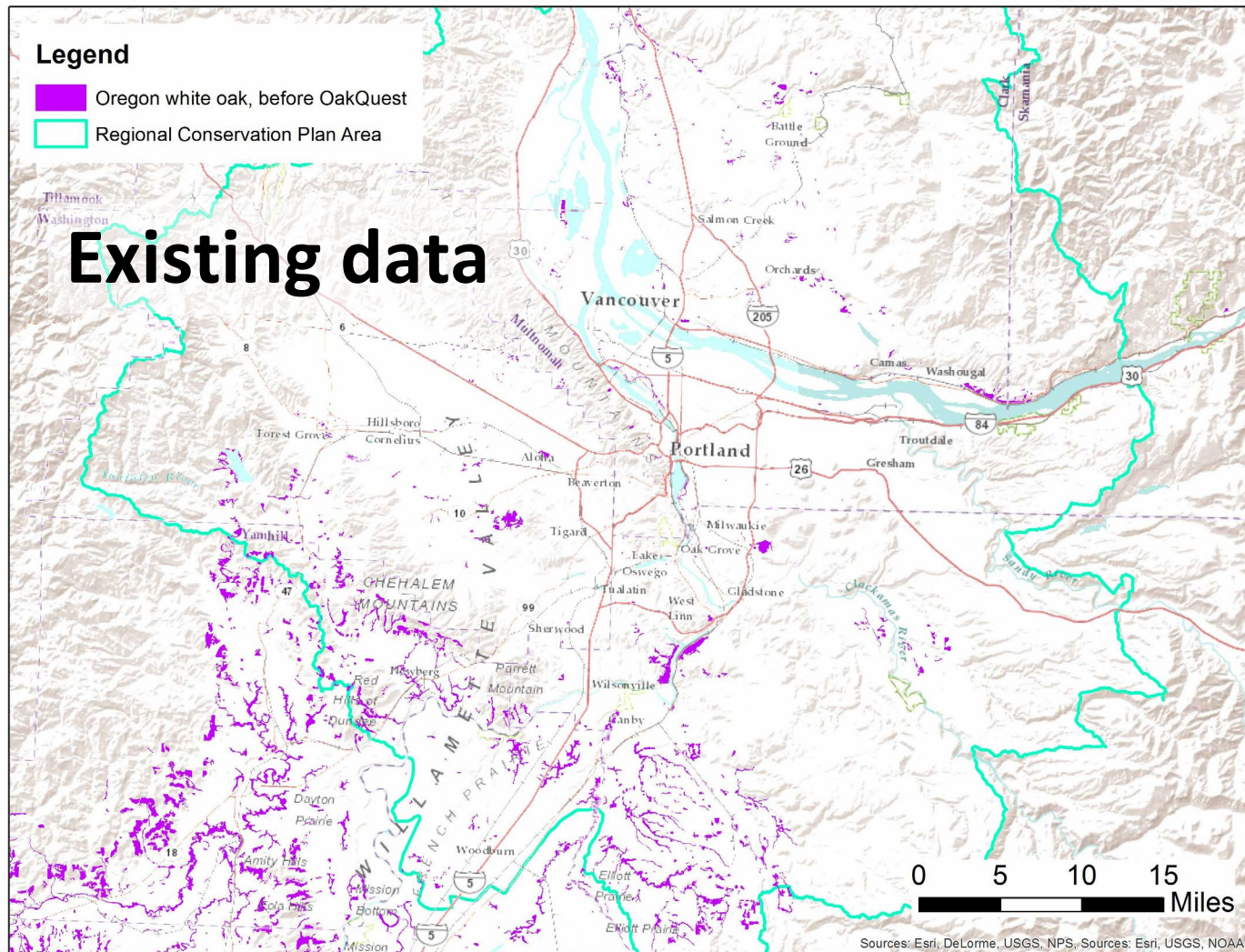
- Metro
- US Fish and Wildlife Service
- Oregon Wildlife Heritage Foundation
- Oregon Department of Forestry / USFS
- SWCDs
- Siletz Tribal Youth Education & Employment (TYEE)
- Multiple OPWG partners



Legend

-  Oregon white oak, before OakQuest
-  Regional Conservation Plan Area

Existing data



OakQuest





**“A million
points of
Oak”**



Aerial photo challenges

- OR: GIS urban, QGIS rural
- WA: GIS/QGIS + near-IR
- Field verification: good results

QGIS
May 2017



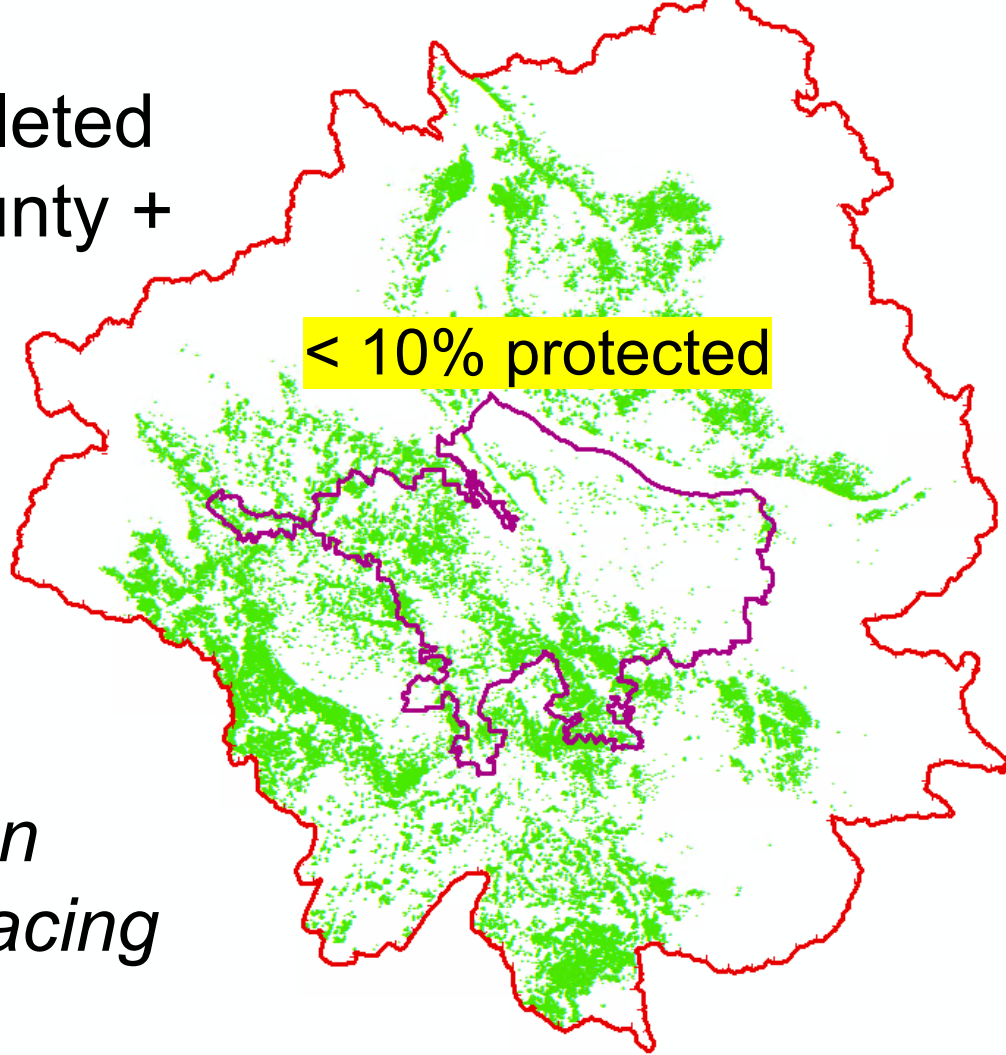
QGIS
July 2016



2018: OR completed
2019: Clark County +

< 10% protected

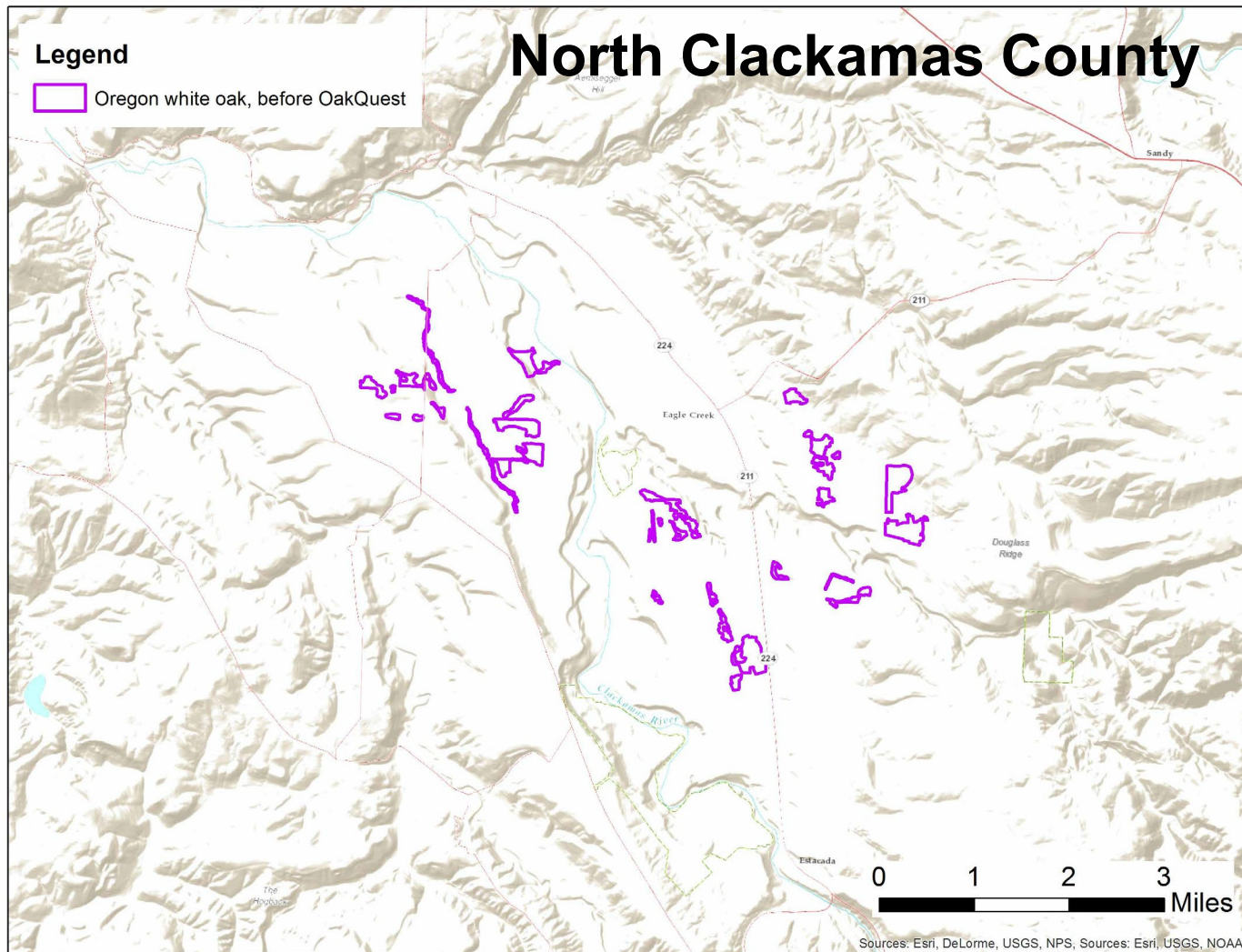
*Lower elevation
Flat or S/SW facing*



Legend

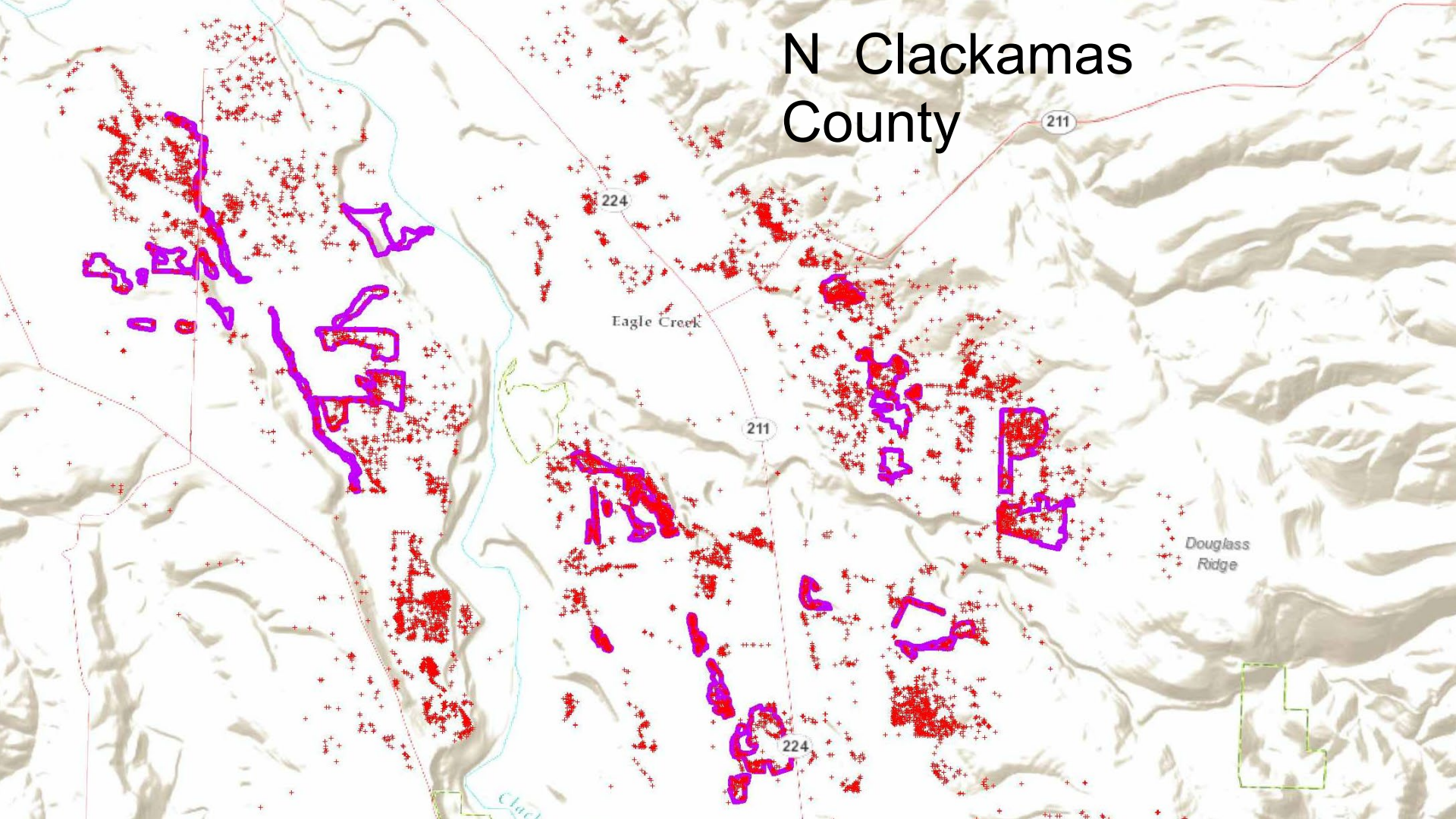
 Oregon white oak, before OakQuest

North Clackamas County



Sources: Esri, DeLorme, USGS, NPS, Sources: Esri, USGS, NOAA

N Clackamas County





Data availability & use

<https://www.theintertwine.org/projects/oak-prairie-work-group>

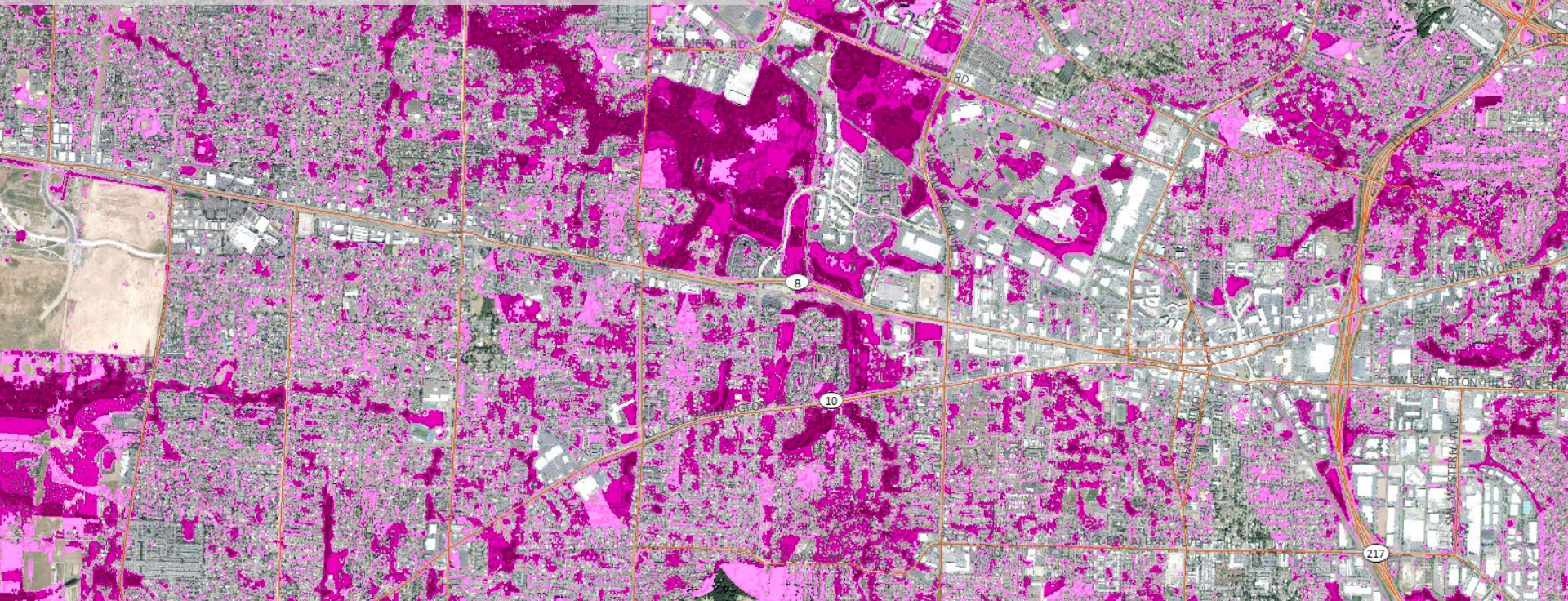
- New urban area planning
- Transportation Projects
- Metro bond “target areas,” refinement
- Parks and trails planning



OPWG X RHCWG

RHCWG

3 surrogate spp models
Forest, Wetland, Oak



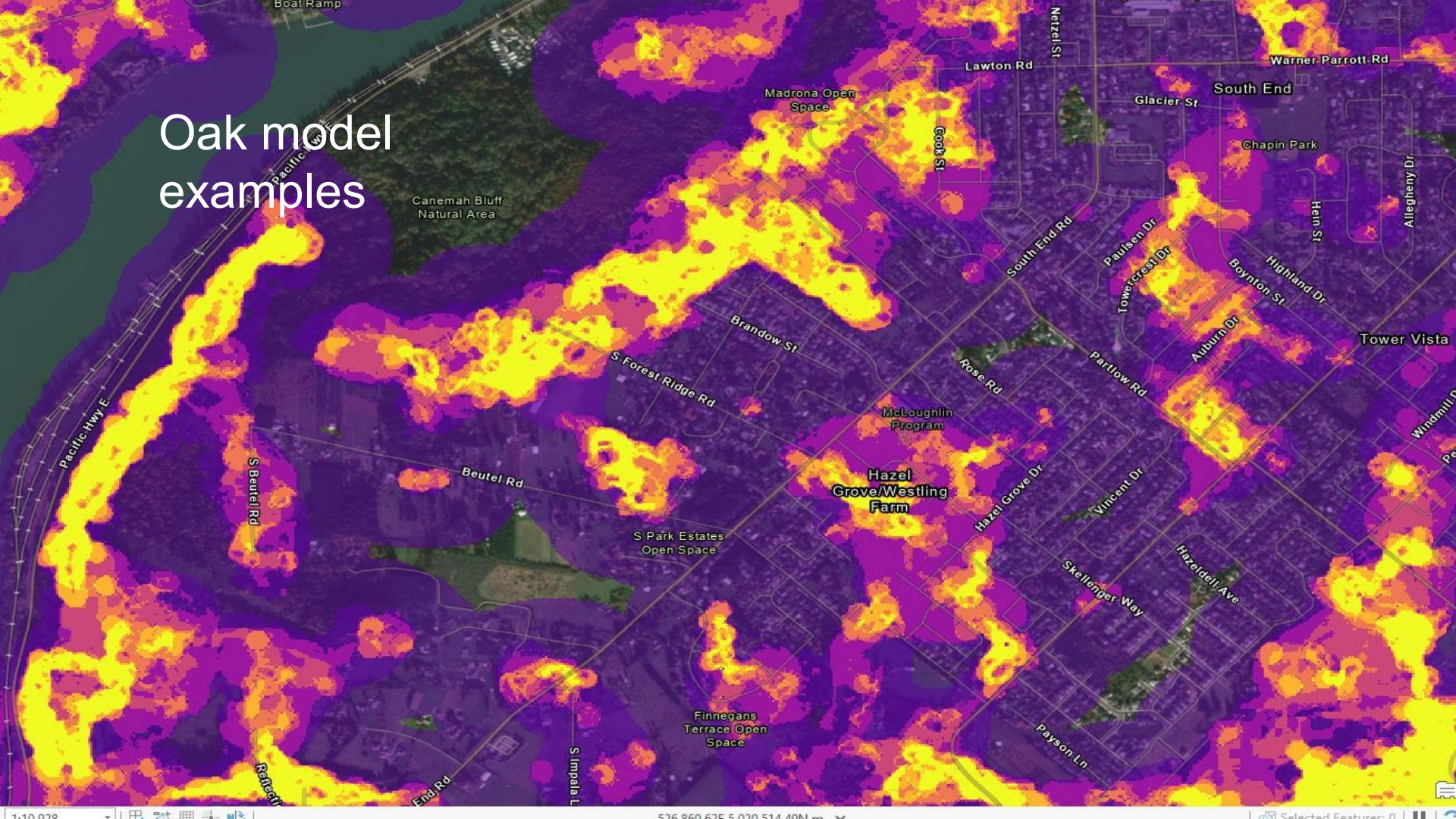


OMNISCAPE

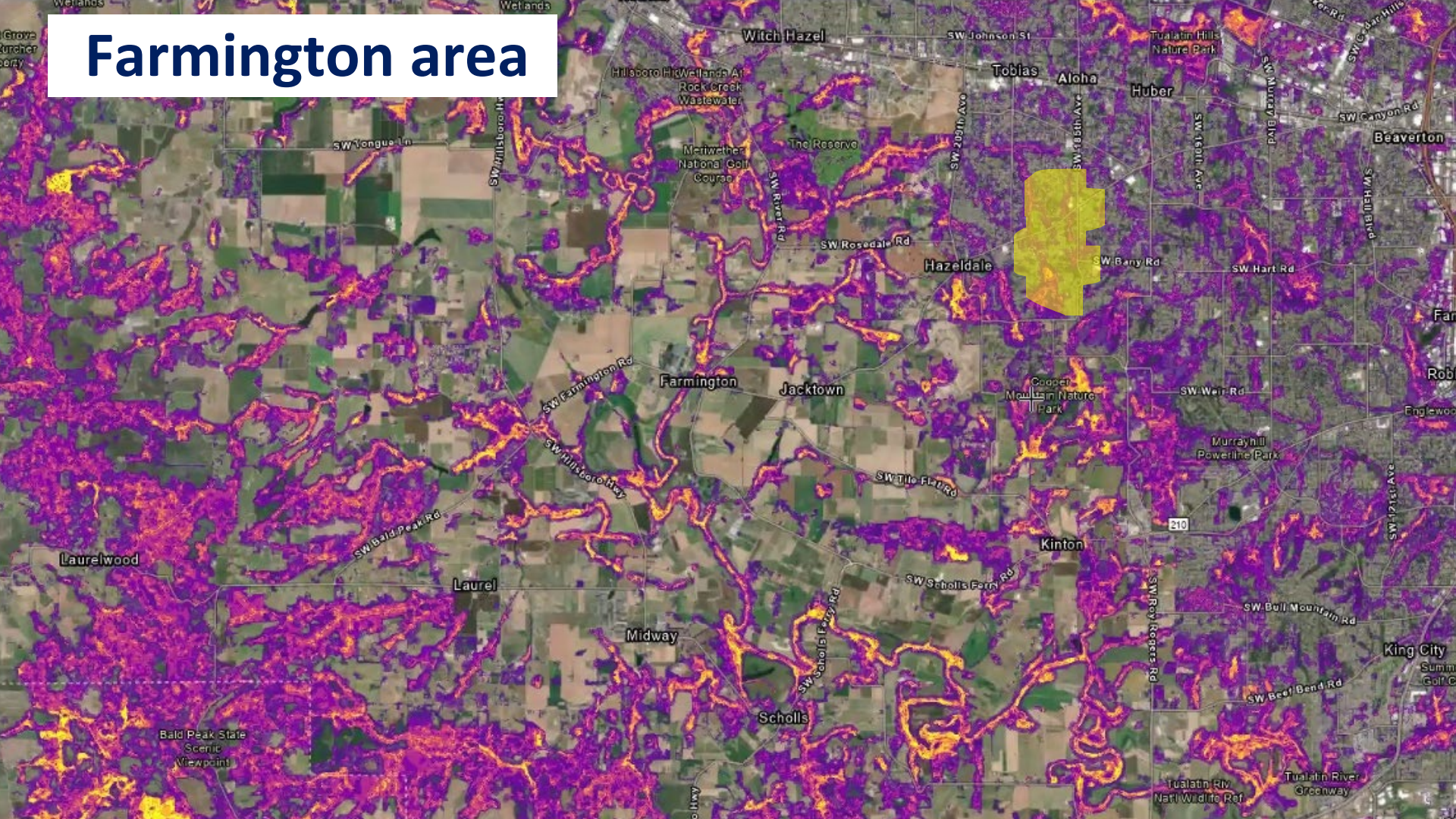
- Permeable → corridors
- Iteratively applies Circuitscape



Oak model examples



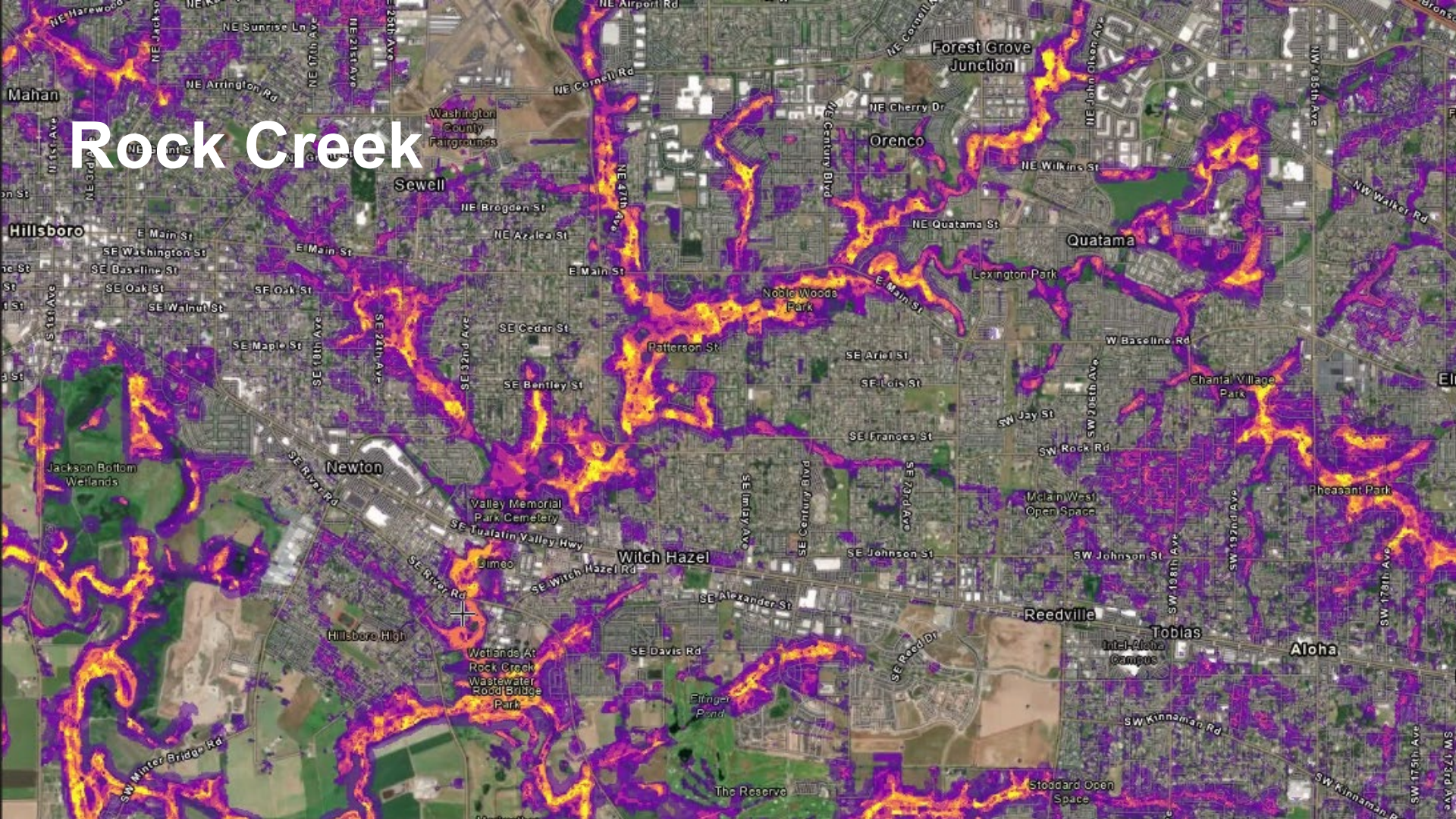
Farmington area



Close-up

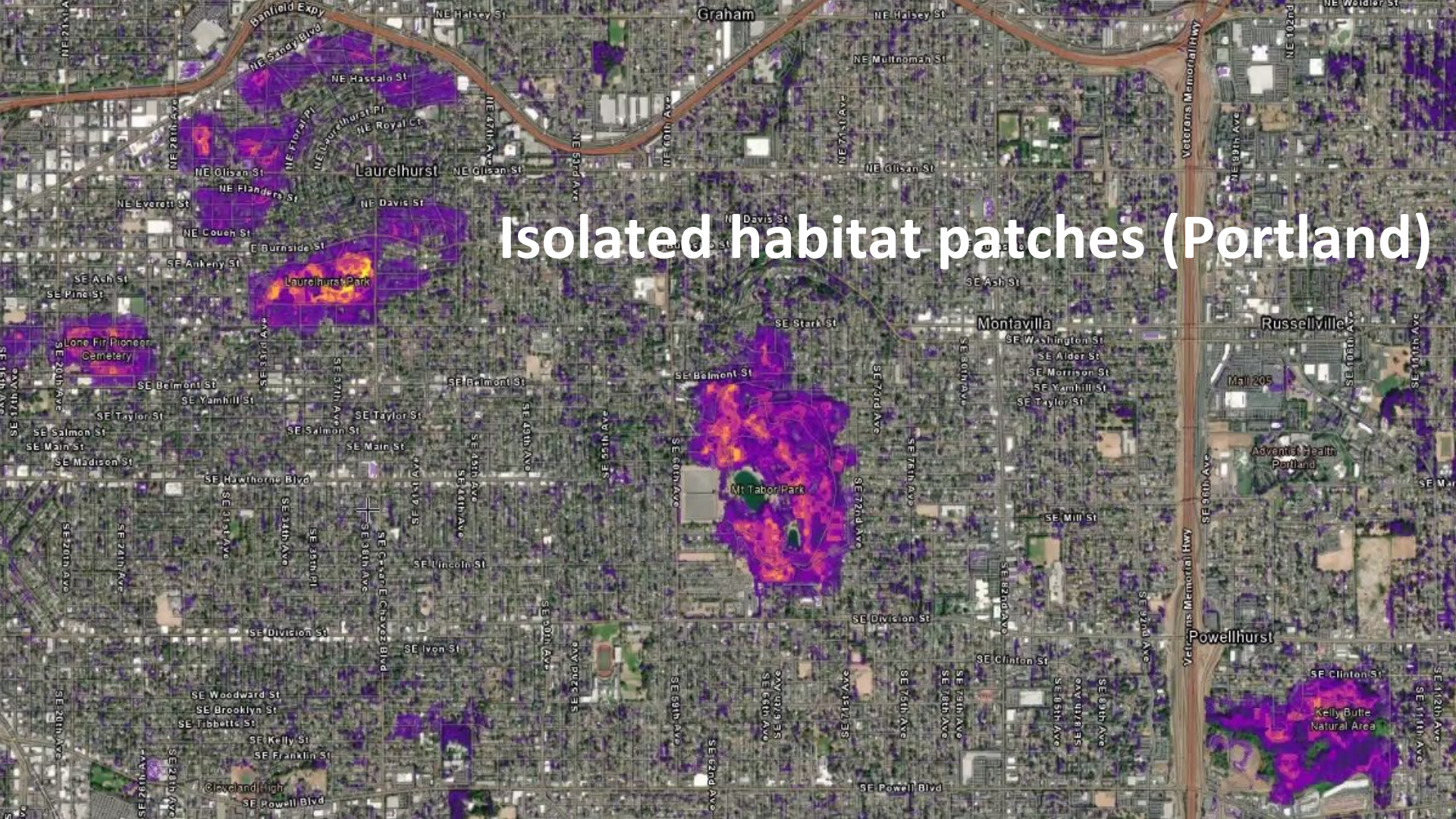
This figure is a close-up aerial map of Farmington, Tennessee, overlaid with a flood risk assessment. The map shows a network of roads, including SW Farmington Rd, SW Robinson Rd, SW 231st Pl, and SW 232nd Pl. Key locations labeled include Farmington, Jacktown, Jackson Reservoir, and Lindow Reservoir. The flood risk is indicated by a color scale: purple represents low risk, yellow represents moderate risk, and red represents high risk. The highest risk areas (red) are concentrated along the main waterways and in some urban areas. The map also shows a grid of agricultural fields and some industrial structures.

Rock Creek



Beaverton to Hillsboro

Isolated habitat patches (Portland)

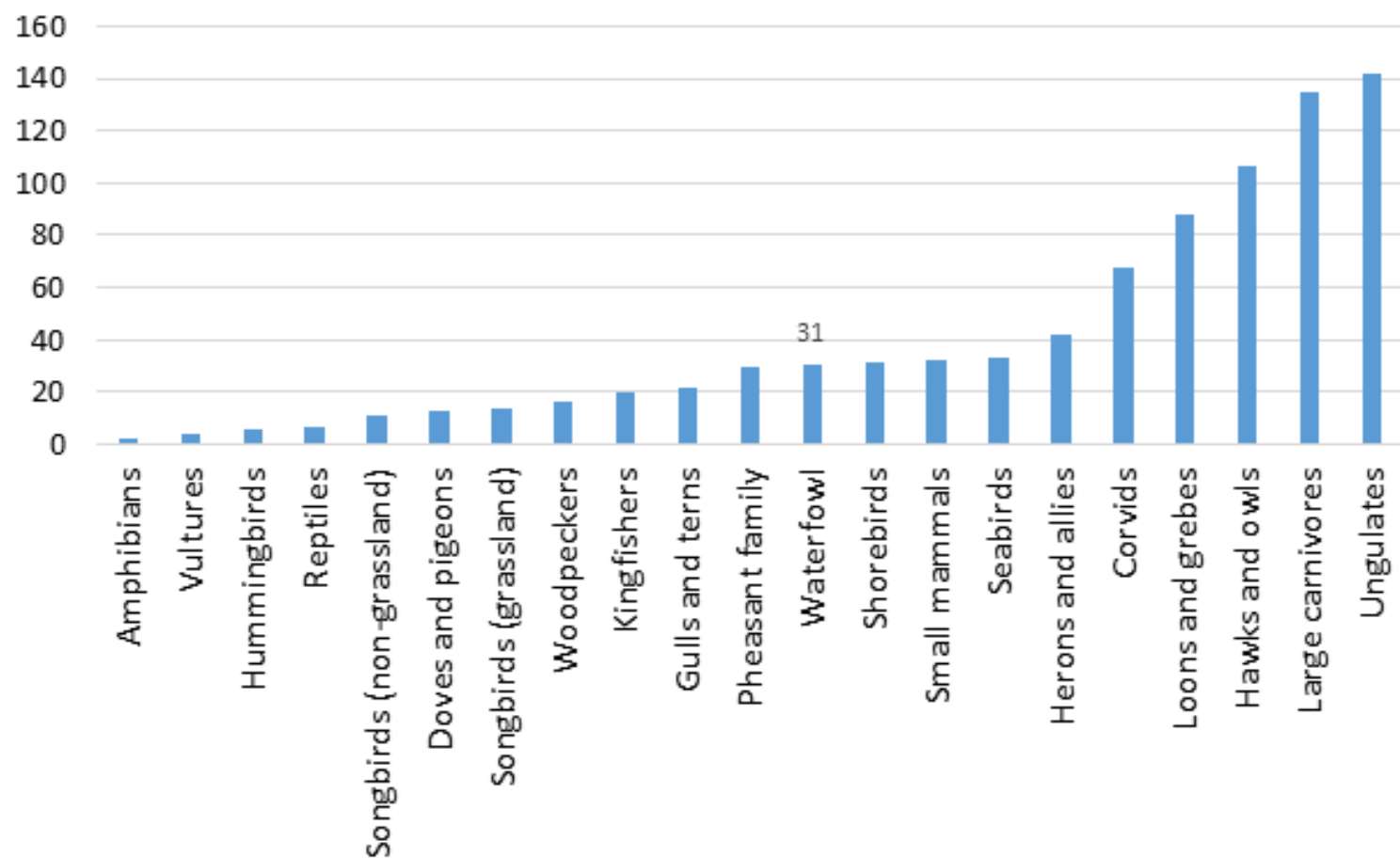




Conserving Oregon White Oak in Urban and Suburban Landscapes

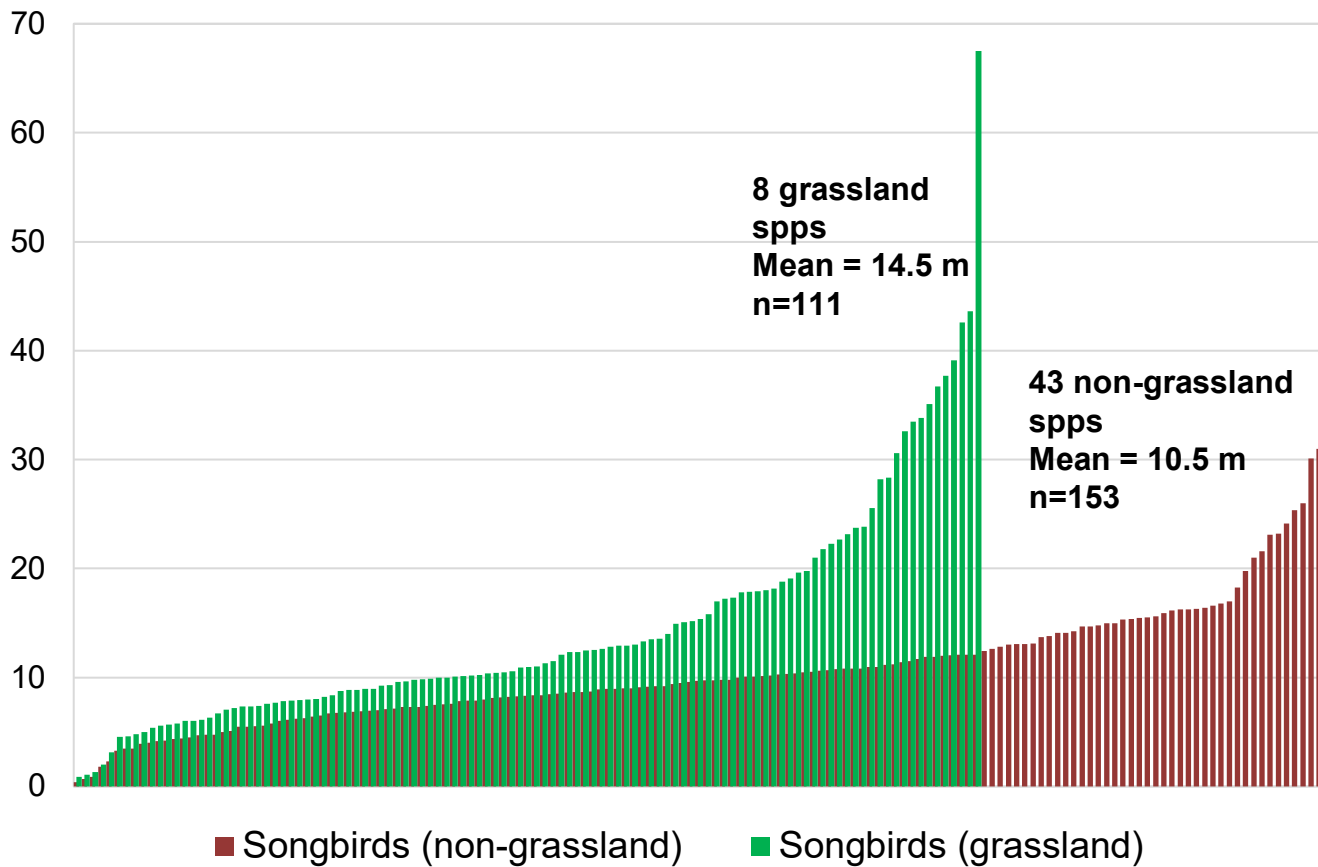
By Mark Griswold Wilson & Ted Labbe | June 2017

Figure 1. Mean fright distances for various wildlife groups (m)



Fright distances for grassland vs. non-grassland bird species (m)

Significantly different, $p < 0.001$, paired t-test



Next up

- Nicole Ruggiero - OPWG's prioritization
- That effort also mapped connectivity



A large, leafy tree stands in a field, with the sun shining through its canopy, creating a bright glow. The sky is filled with soft, white clouds. In the background, a line of evergreen trees is visible.

Thank you!

**For the good work you
do every day.**

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