

FOREST HEALTH WATCH

Upcoming Community Science Program

DISCUSSION AND BRAINSTORM - SEPTEMBER 17, 2020

Joey Hulbert, WSU Puyallup Research and Extension



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**

Puyallup, Washington



Puyallup, Washington



ORNAMENTAL PLANT PATHOLOGY

Puyallup Research and Extension Center

[HTTPS://PPO.PUYALLUP.WSU.EDU](https://ppo.puyallup.wsu.edu)



JOEY HULBERT



Postdoc Fellow

GARY CHASTAGNER



Professor

MARIANNE ELLIOT



Research Associate

TODD MURRAY

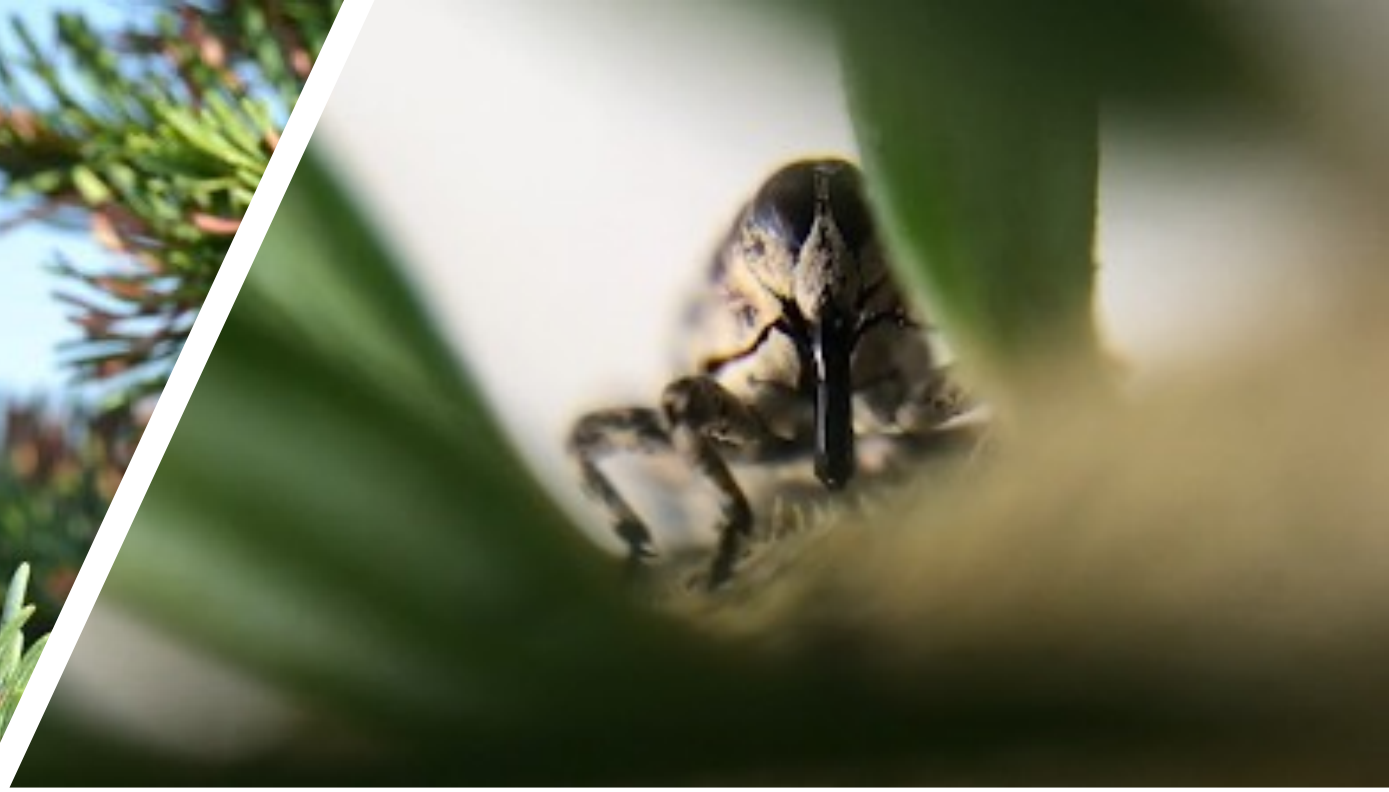


Center Director

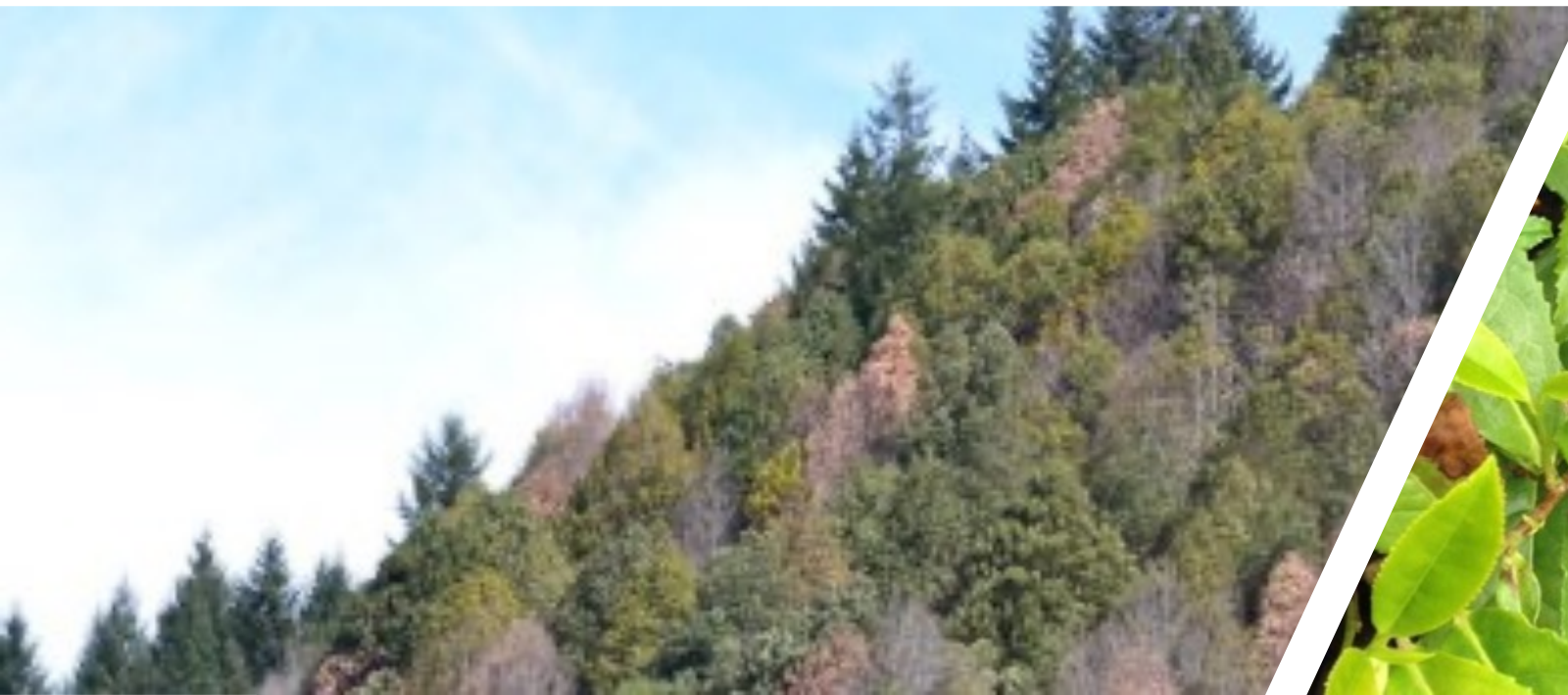
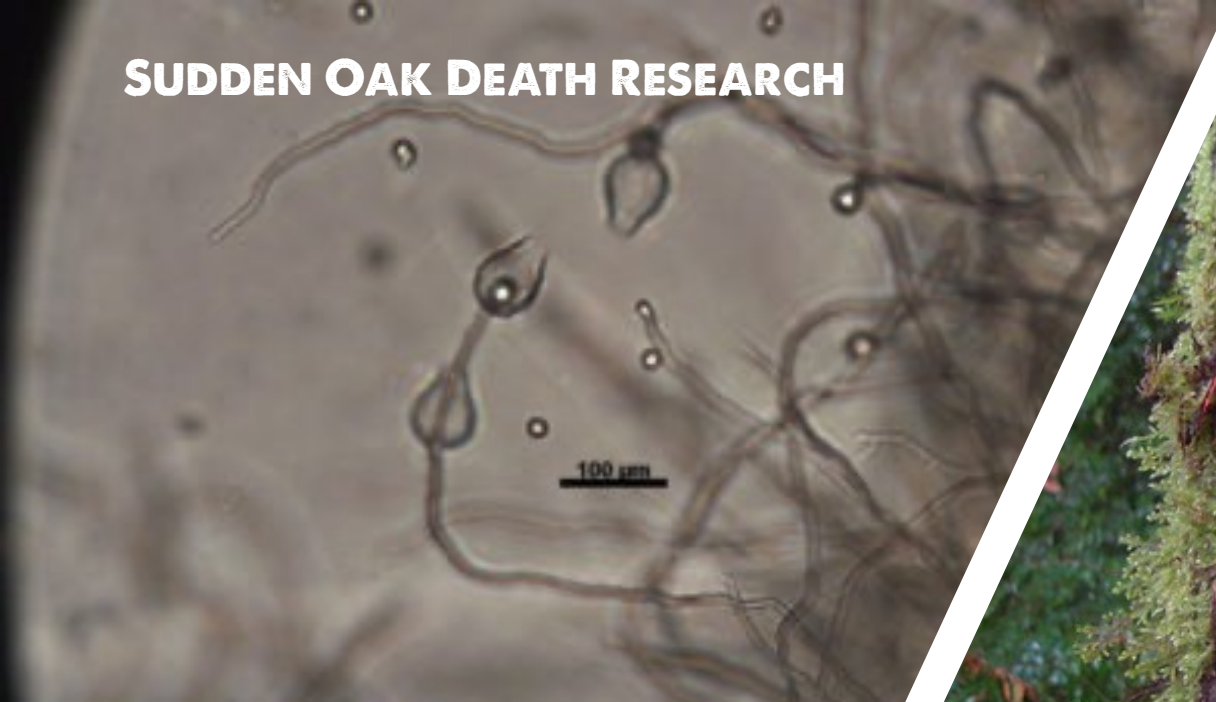
Research



CHRISTMAS TREE RESEARCH



SUDDEN OAK DEATH RESEARCH



PACIFIC MADRONE RESEARCH





JOIN THE ARBUTUS ARME

**[HTTPS://PPO.PUYALLUP.WSU.EDU/
MADRONE/](https://ppo.puyallup.wsu.edu/madrone/)**



Feel Free to Contact Us

[HTTPS://PPO.PUYALLUP.WSU.EDU](https://ppo.puyallup.wsu.edu)



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**

FOREST HEALTH WATCH

Pacific Northwest Community Science

[HTTPS://FORESTHEALTH.ORG](https://foresthealth.org)



United States Department of Agriculture
National Institute of Food and Agriculture

FOREST HEALTH WATCH PROGRAM

Project 1

Project 2

Project 3

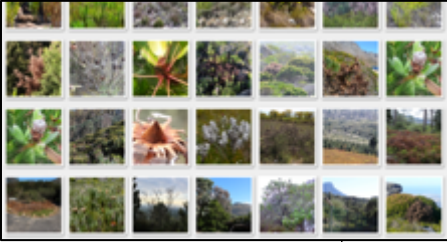
FOREST HEALTH WATCH PROGRAM

*Pilot
Project*

Project 2

Project 3

Public Engagement Methods



ONLINE REPORTS



EXTENSION SERVICES



YOUTH HIKES



DIAGNOSTICS



WORKSHOPS

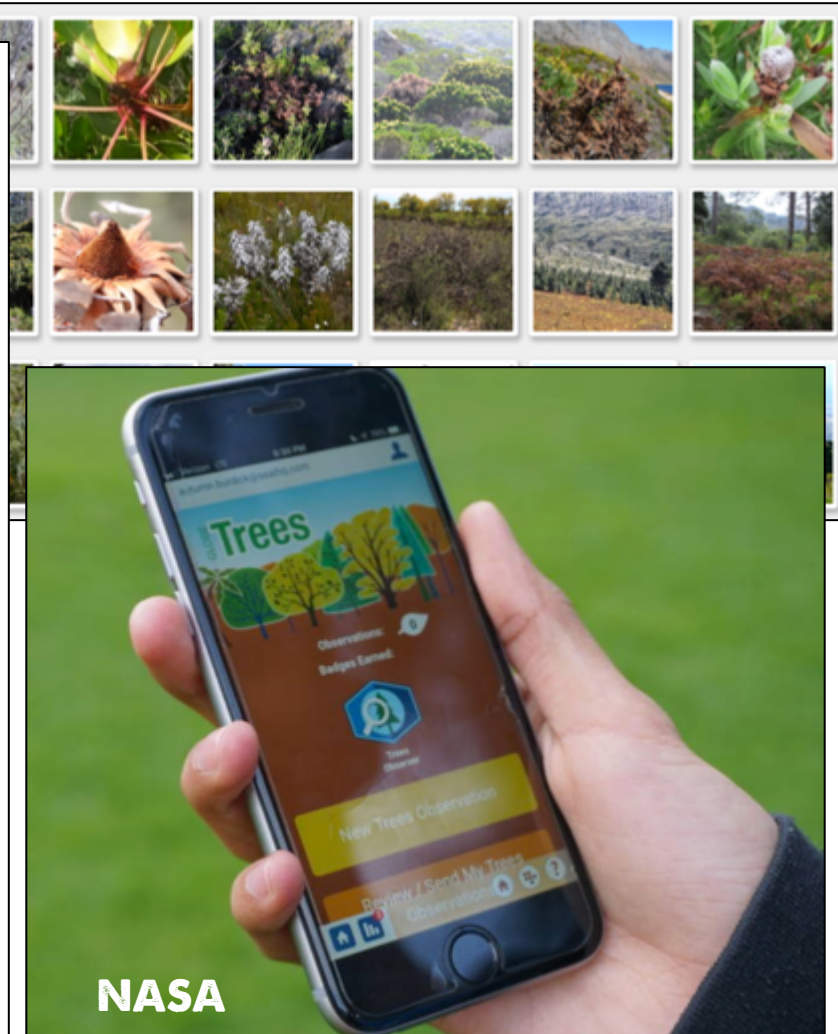
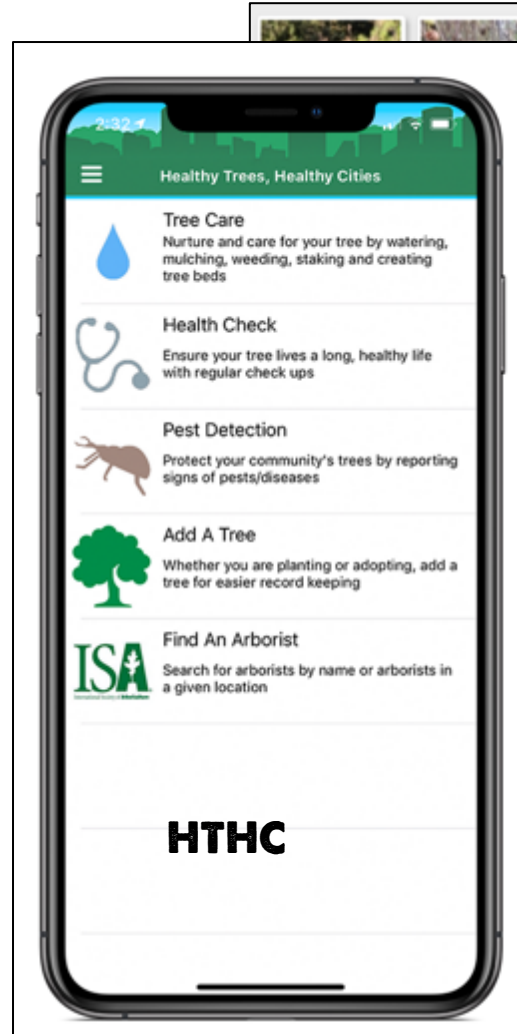


LAB VISITS

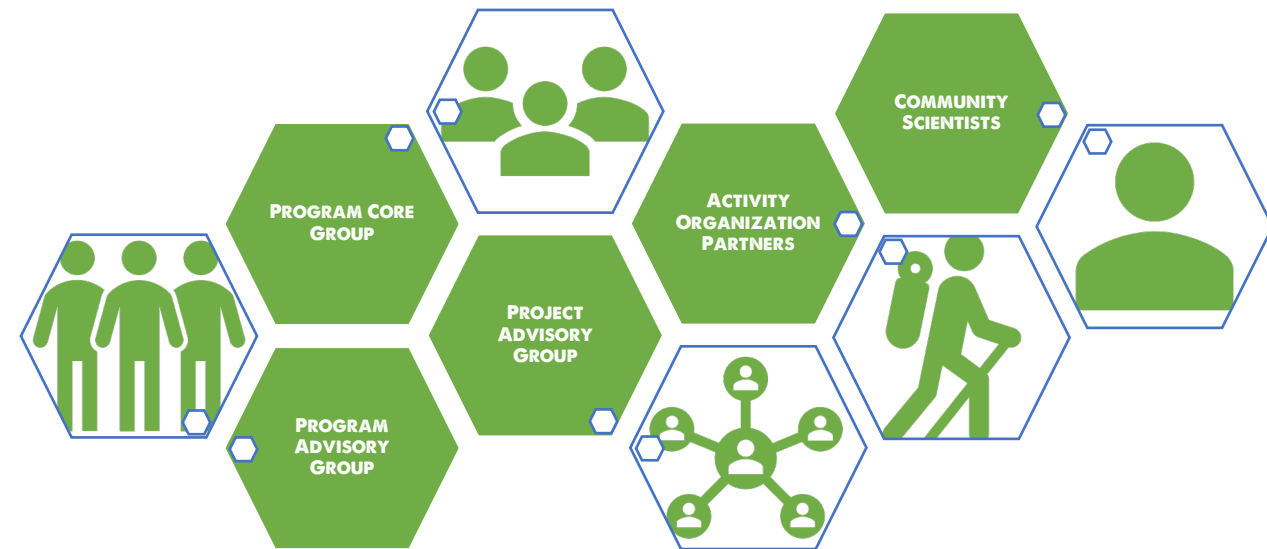
METHODS

Existing Tools

- **INATURALIST**
- **TNC/USFS HEALTHY TREES, HEALTHY CITIES APP**
- **NASA GLOBE OBSERVER - TREES**
- **TREESNAP**



SEEKING PARTNERS TO HELP SHAPE PROGRAM



Potential Partners

- **WSU EXTENSION**
- **USFS**
- **WDNR**
- **FORTERRA**
- **THE NATURE CONSERVANCY (WA)**
- **NNRG**
- **SEATTLE PARKS AND RECREATION**
- **SEATTLE PUBLIC UTILITIES**
- **SEATTLE AUDUBON SOCIETY**



ADDITIONAL PARTNERS?



Seeking Communities to Engage

- **VOLUNTEER GROUPS**
- **ENVIRONMENTAL EDUCATION PROGRAMS**
- **YOUTH ENGAGEMENT GROUPS**
- **COMMUNITY PROGRAMS**
- **NATURAL RESOURCE SOCIETIES**



Existing Volunteer Groups

- **SEATTLE TREE AMBASSADORS**
- **FORTERRA - GREEN SEATTLE - FOREST STEWARDS**
- **PARKS AND RECREATION VOLUNTEERS**
- **SEATTLE AUDUBON SOCIETY 'FRIENDS OF URBAN TREES'**
- **TNC VOLUNTEERS**
- **WSU MASTER GARDENERS**
- **WSU 4H GROUPS**
- **WESTERN WASHINGTON GIRL SCOUTS**



**ADDITIONAL
GROUPS?**



ROOM TO GROW



Looking for help shaping program

[HTTPS://FORESTHEALTH.ORG](https://foresthealth.org)



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**

LOCAL FOREST HEALTH ISSUES



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*
- *Swordfern Die-off*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*
- *Swordfern Die-off*
- *Madrone Leaf Blight*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*
- *Swordfern Die-off*
- *Madrone Leaf Blight*
- *Riparian Alder Dieback*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*
- *Swordfern Die-off*
- *Madrone Leaf Blight*
- *Riparian Alder Dieback*
- *Western Hemlock Decline*



LOCAL FOREST HEALTH ISSUES

- *Western Redcedar Decline*
- *Bigleaf Maple Decline*
- *Swordfern Die-off*
- *Madrone Leaf Blight*
- *Riparian Alder Dieback*
- *Western Hemlock Decline*
- *Bronze Birch Borer*



MORE INFORMATION

[HTTPS://PPO.PUYALLUP.WSU.EDU/](https://ppo.puyallup.wsu.edu/)



*Let us know your other forest health
concerns*

[HTTPS://FORESTHEALTH.ORG/PROJECTS](https://foresthealth.org/projects)



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**



WESTERN REDCEDAR





FOREST HEALTH



VALUES



AWARENESS



ADAPTABILITY

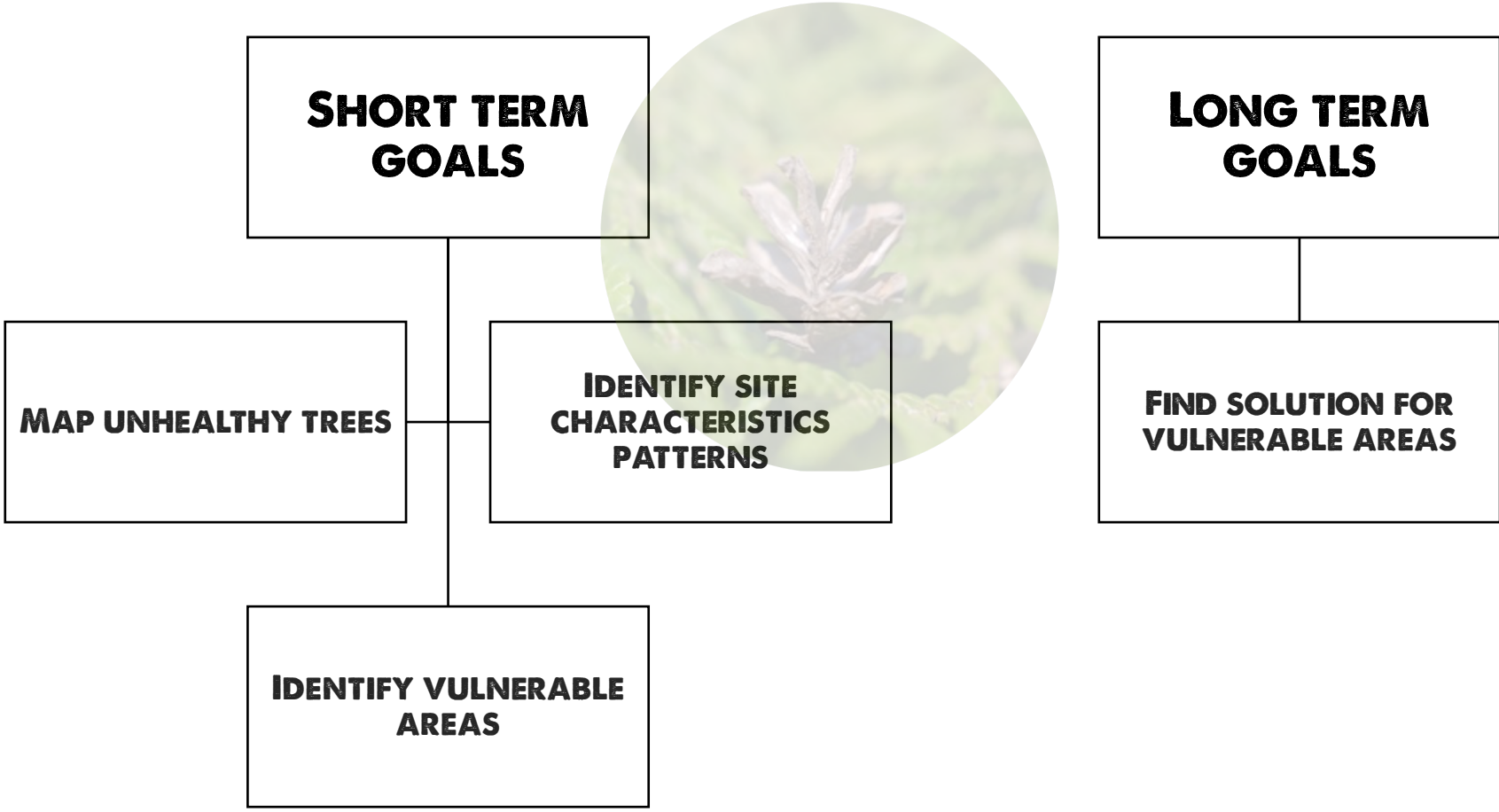


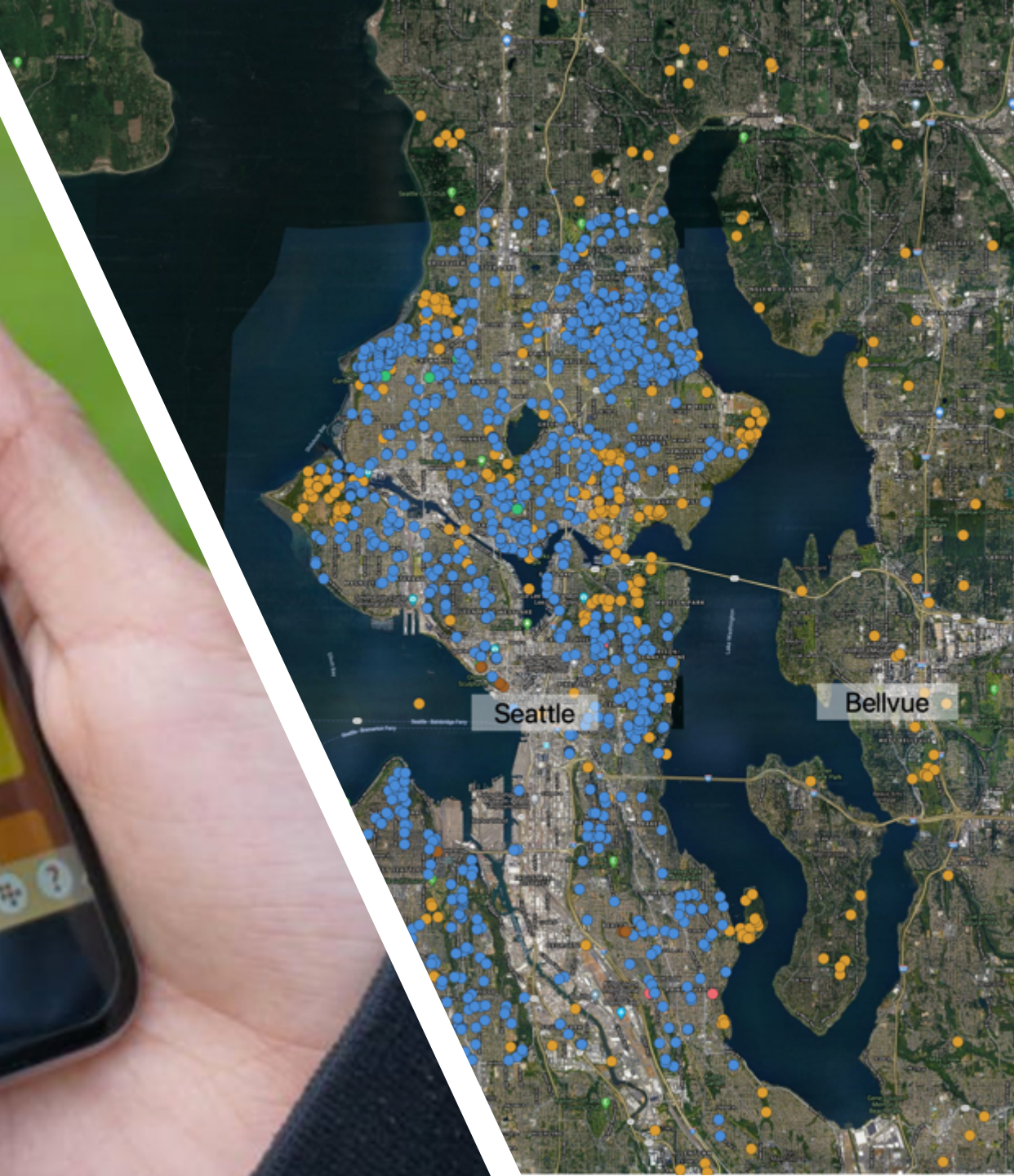
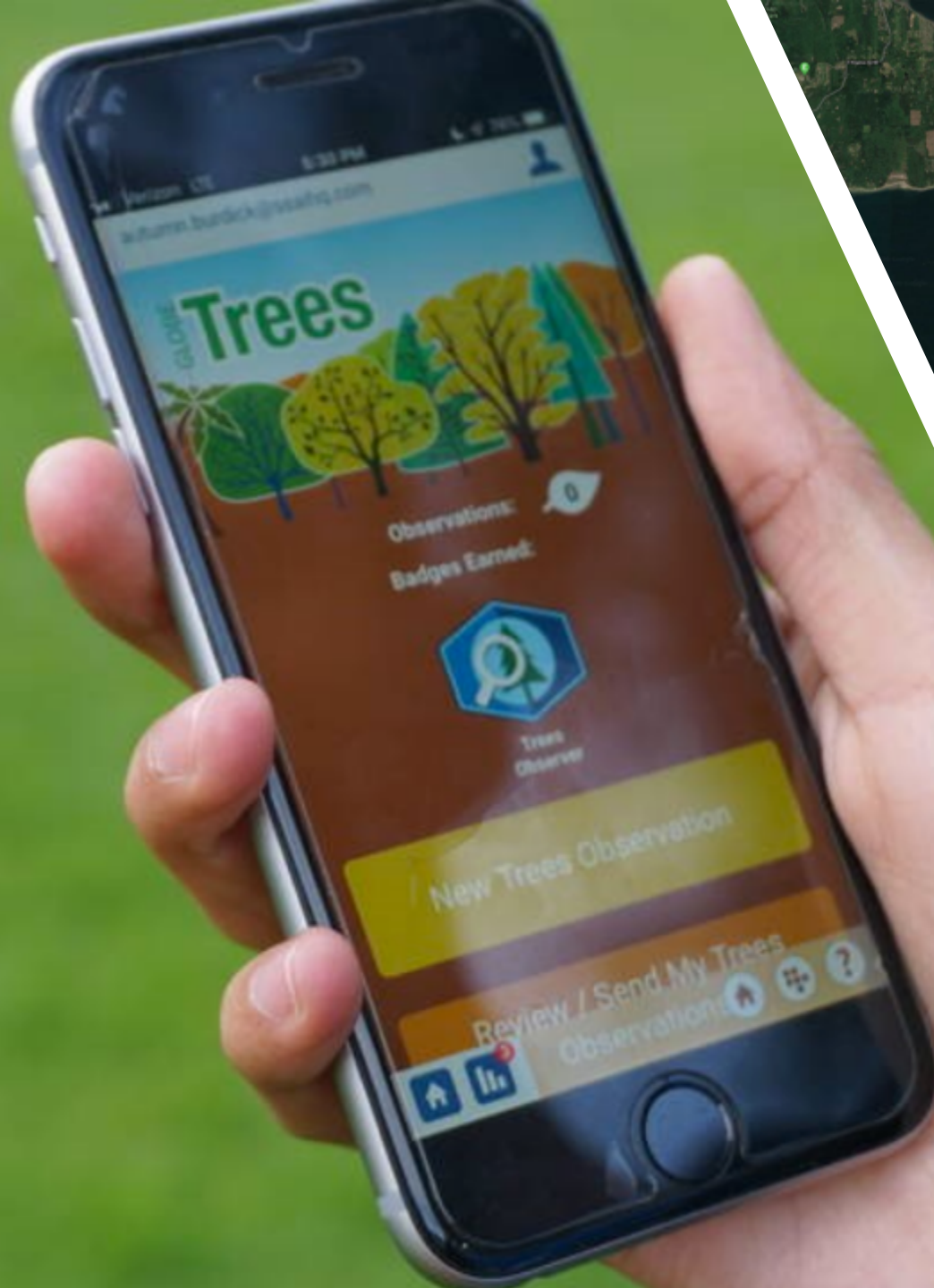
EQUITY LENS



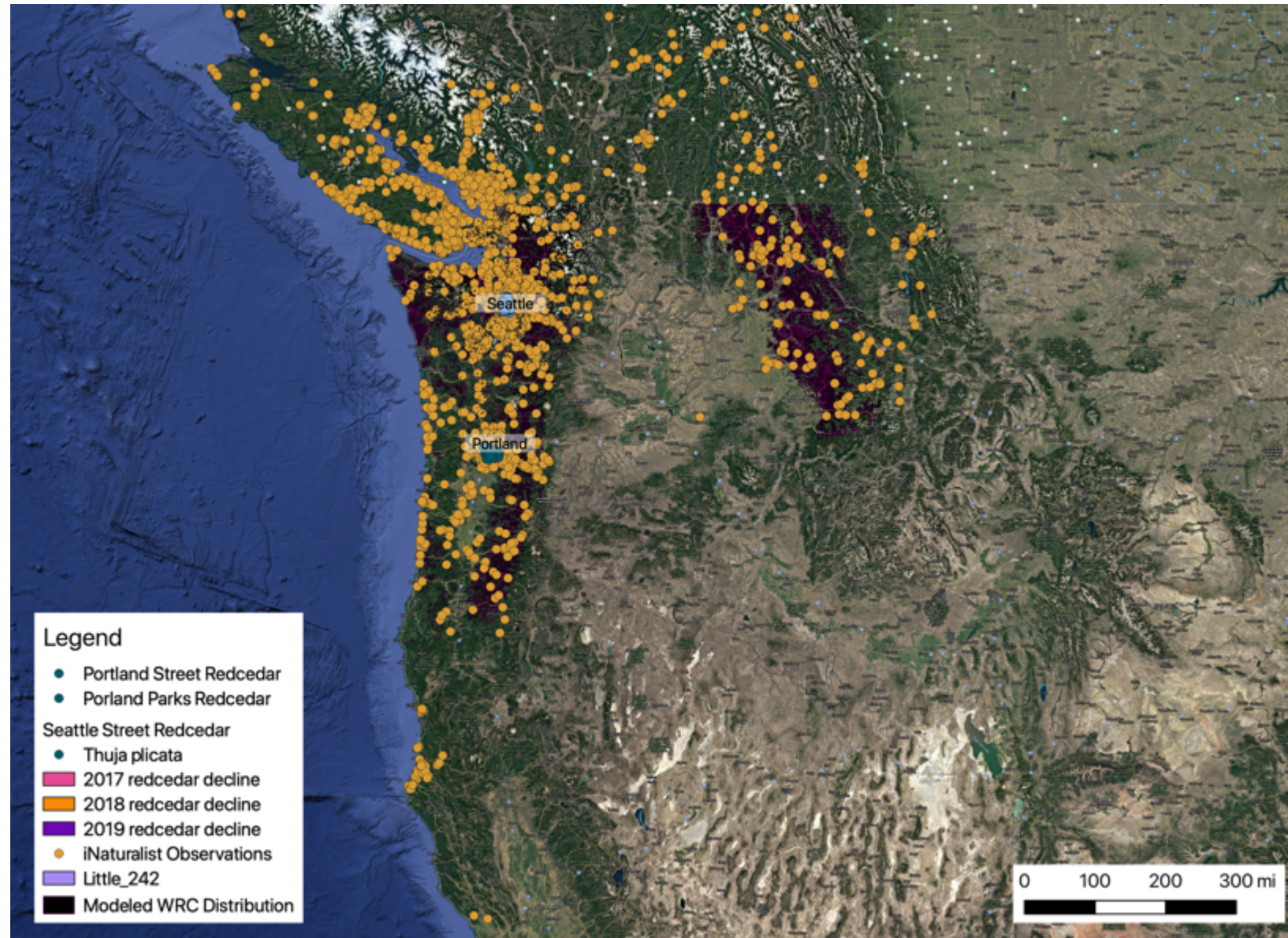
FOREST HEALTH

Research Goals





EXISTING DATA



GREATER SEATTLE



Western Redcedar Decline

- 2019
- 2018
- 2017
- iNaturalist Observations
- Thuja plicata*

0 2.5 5 mi



VALUES

MELBOURNE - URBAN FOREST VISUAL

★ From: Neal.Roberts@gmail.com 00:52 NR

Re: **Sitting Near You**

To: Weeping Myrtle, Tree ID 1494392

Hello Weeping Myrtle,

I'm sitting inside near you and I noticed on the urban tree map you don't have many friends nearby. I think that's sad so I want you to know I'm thinking of you. I also want to thank you for providing oxygen for us to breath in the hustle and bustle of the city.

Best Regards,

N.

Found in Sent

1. Treemail sent through [Melbourne's urban forest visual platform](#), July 2015

PSU PORTLAND CANOPY STORIES



4CULTURE - FOREST FOR THE TREES

4CULTURE Forest for the Trees + Contribute a story

Vancouver Coquitlam Richmond Surrey Langley Abbotsford White Rock Duncan Bellingham Mt. Vernon Oak Harbor Everett Seattle Tacoma Olympia Aberdeen

Strait of Georgia Strait of Juan de Fuca

CANADA UNITED STATES

"High Sierra" Redwood Waskowitz tree

Ed Weber sequoias Holly Lane

Dodd Farm chestnut trees Seward Park's Giant

Old Growth Firs of Boeing Creek Madrona Tree

Deodar cedar in my... Venerable oak

POWERED BY Earthstar Geographics | Esri, HERE... esri



AWARENESS





ADAPTABILITY

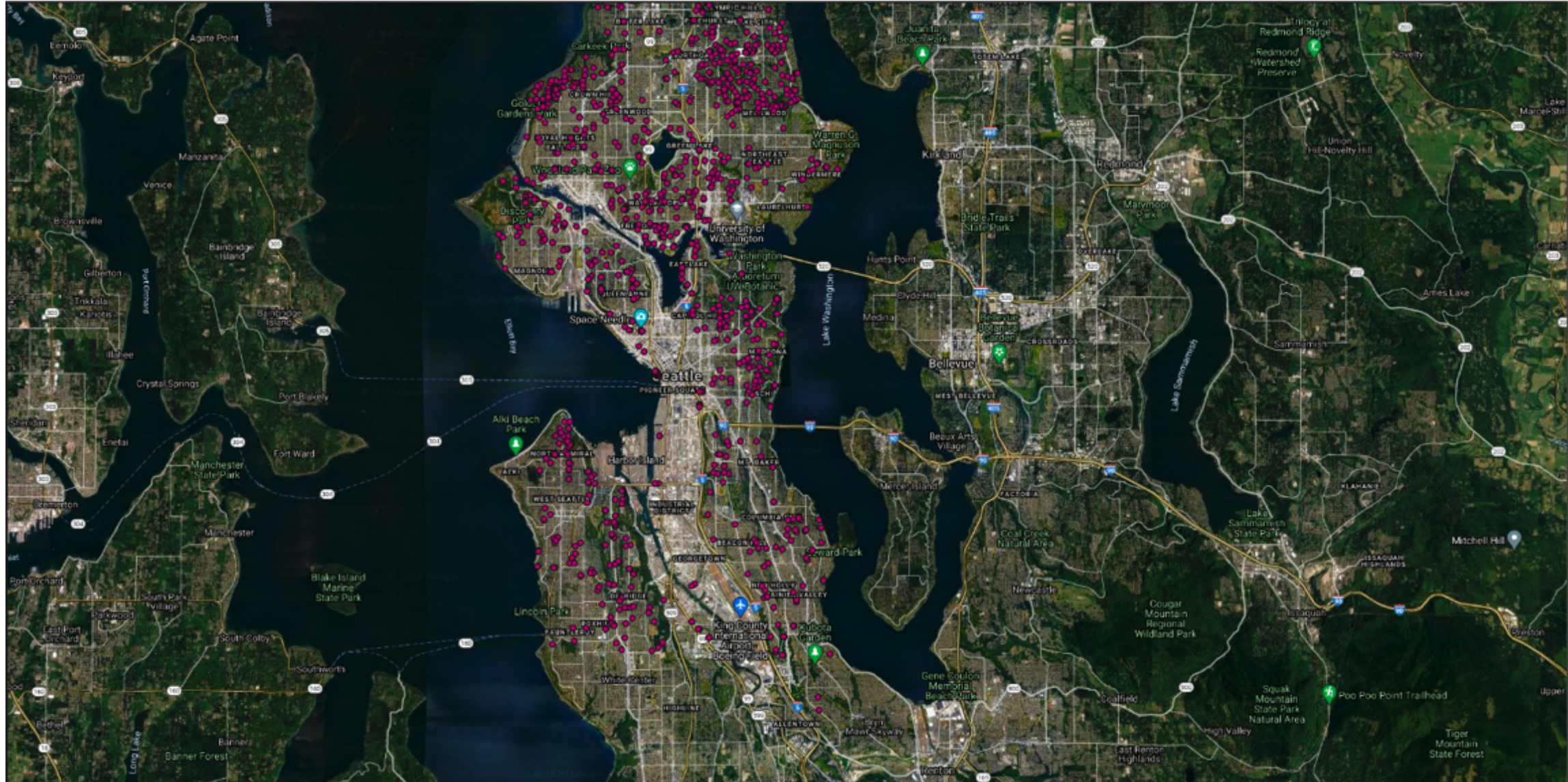




EQUITY LENS

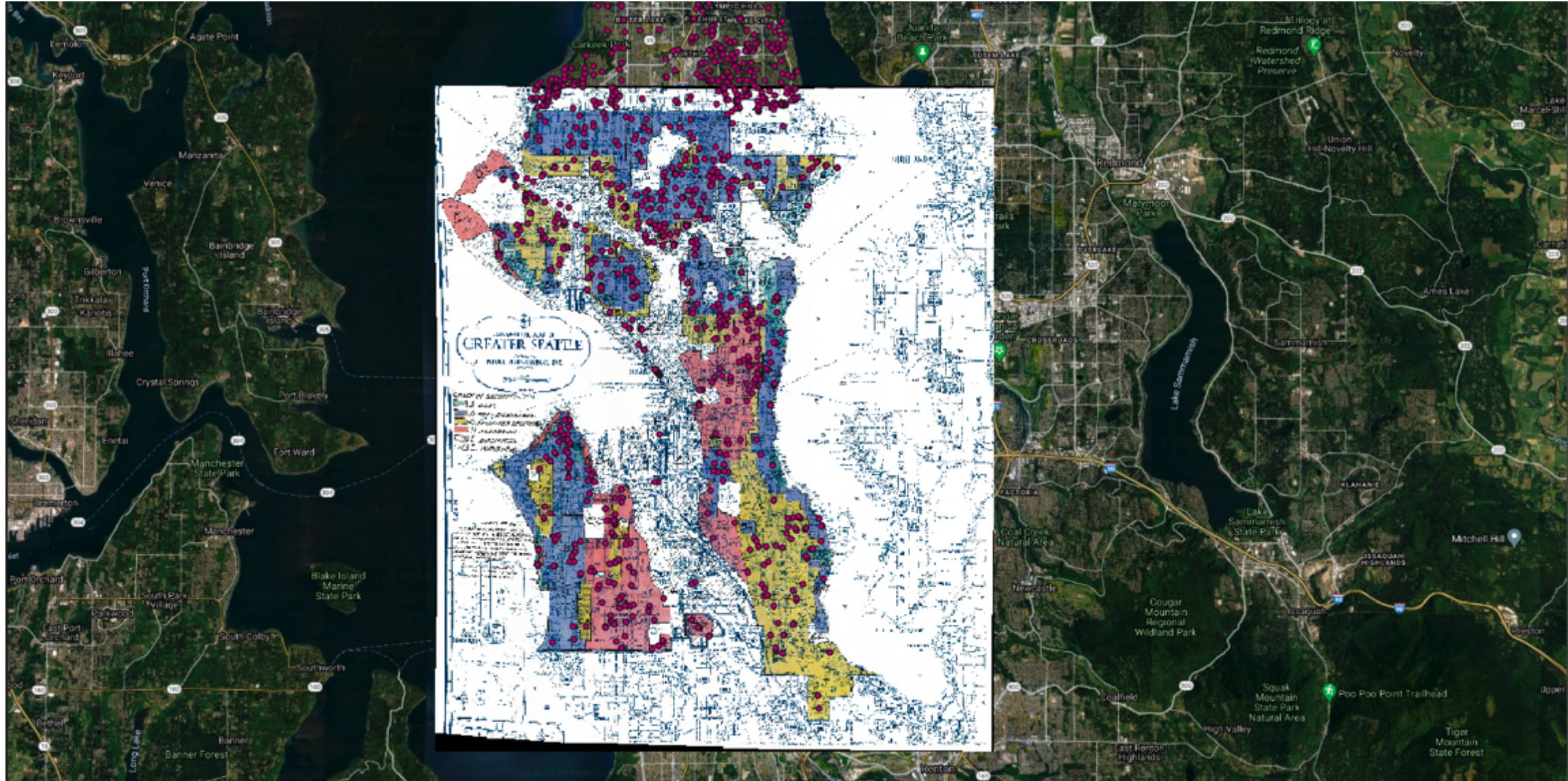


EQUITY LENS





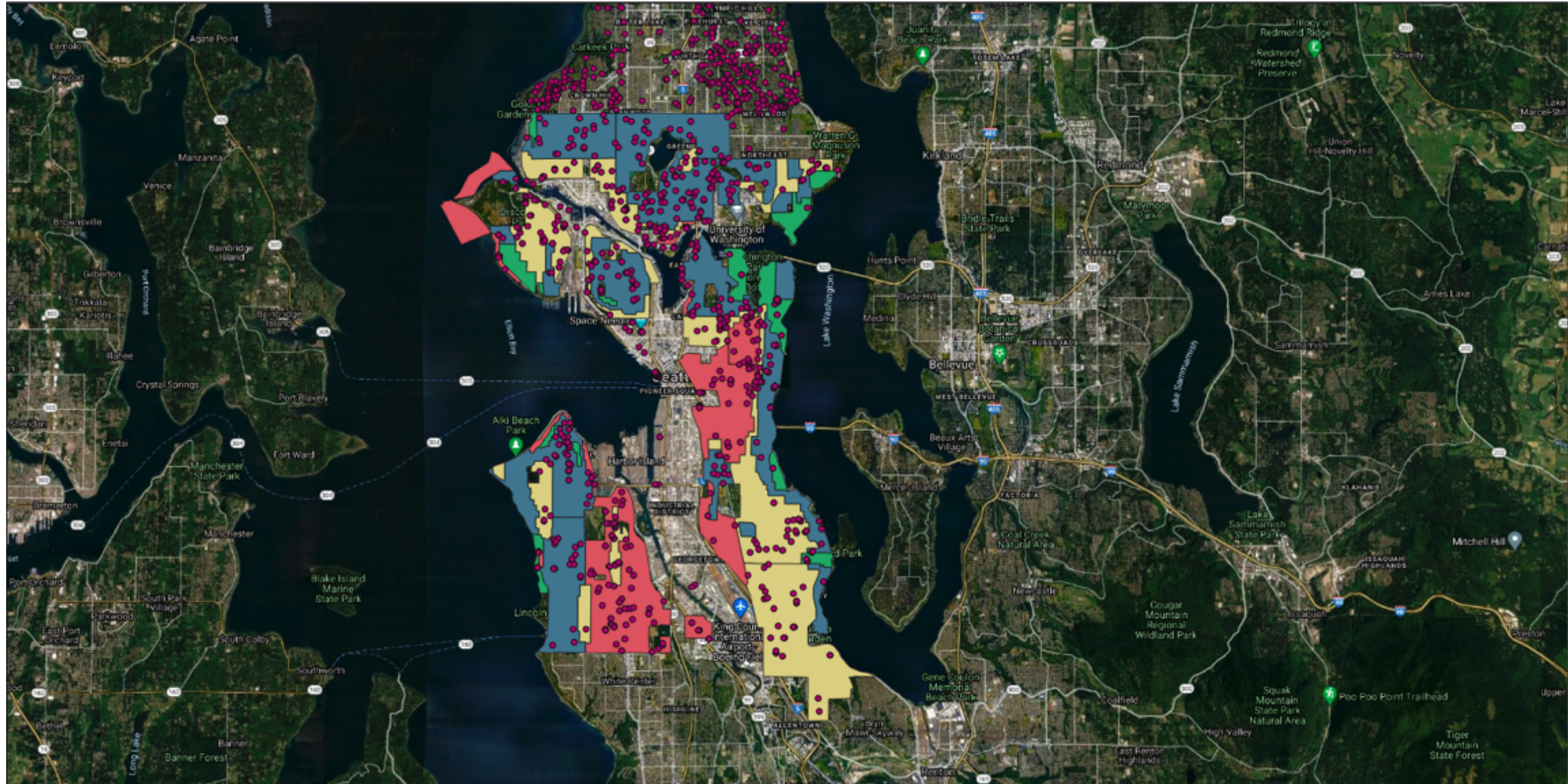
EQUITY LENS



ROBERT K. NELSON, LADALE WINLING, RICHARD MARCIANO, NATHAN CONNOLLY, ET AL., "MAPPING INEQUALITY," *AMERICAN PANORAMA*, ED.



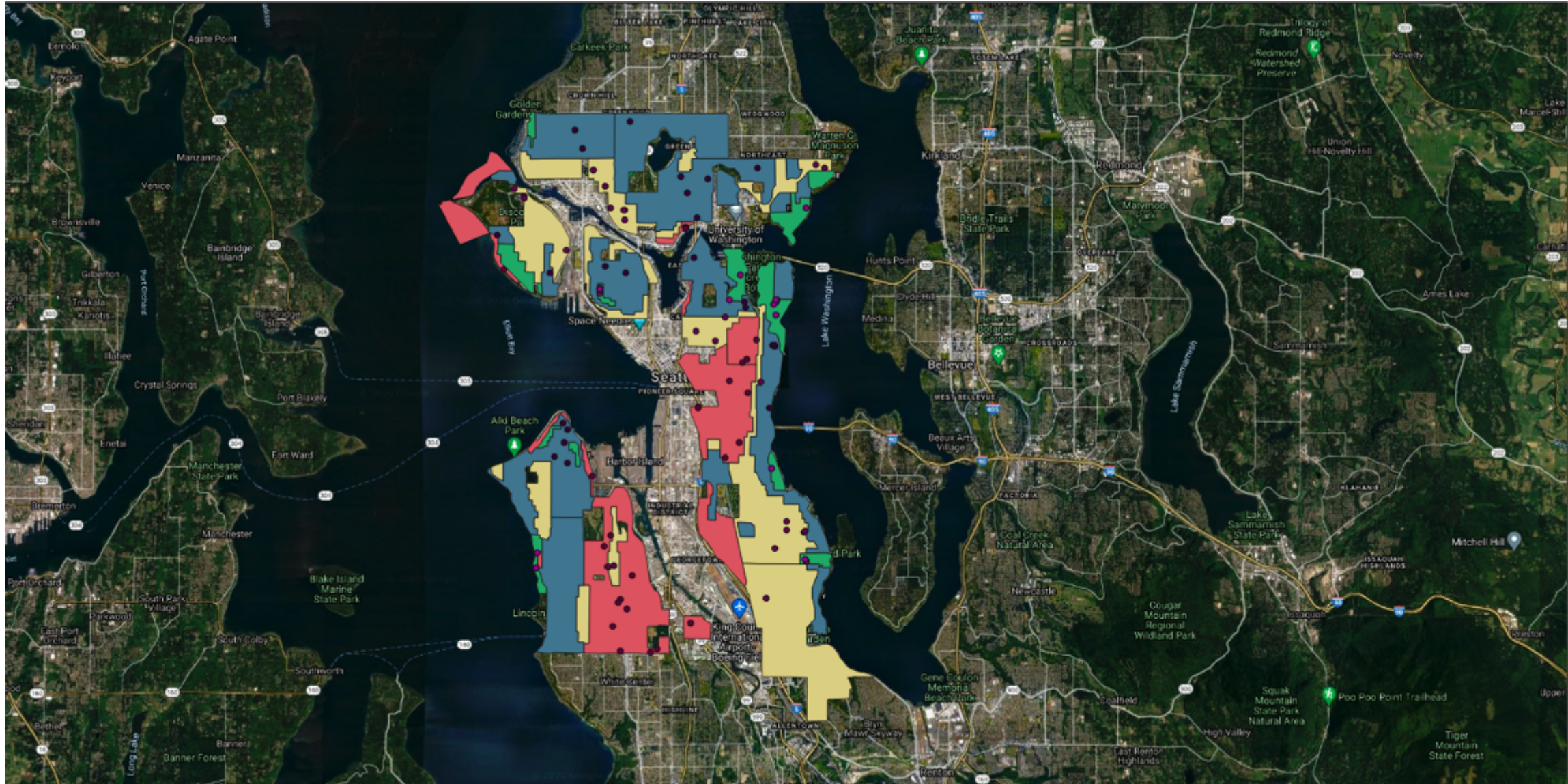
EQUITY LENS



ROBERT K. NELSON, LADALE WINLING, RICHARD MARCIANO, NATHAN CONNOLLY, ET AL., "MAPPING INEQUALITY," *AMERICAN PANORAMA*, ED.



EQUITY LENS

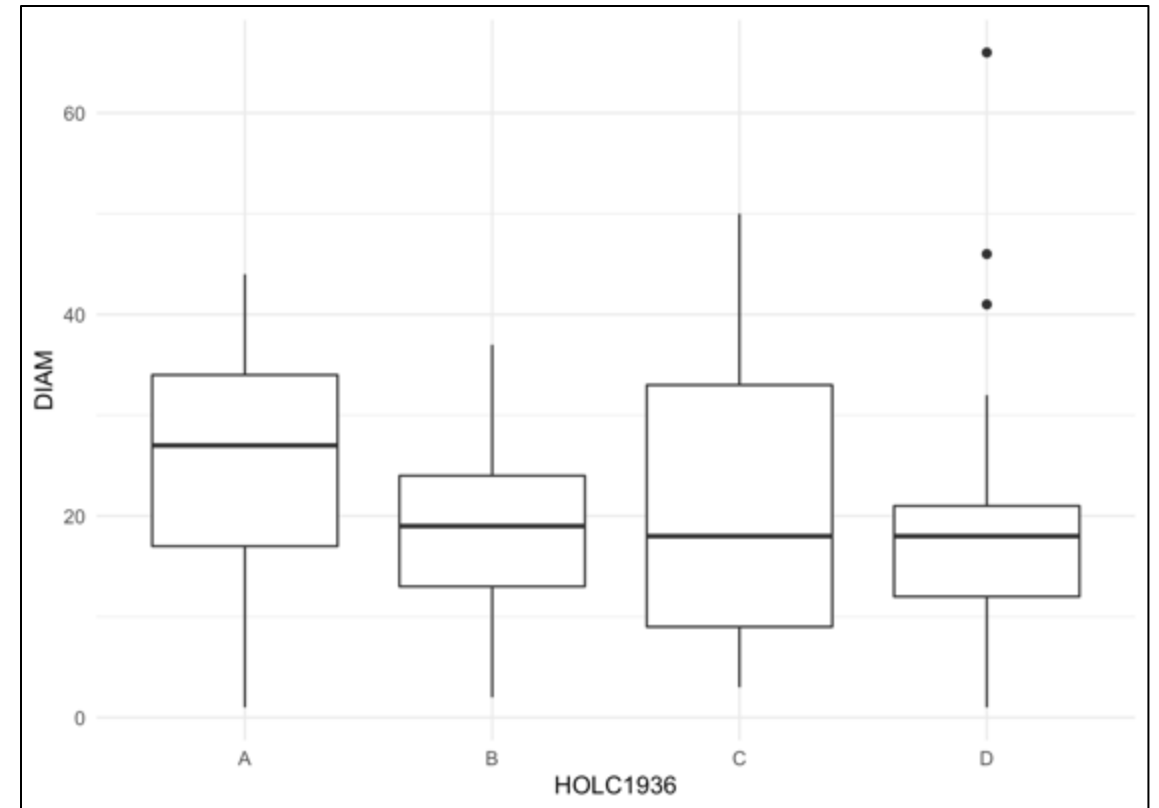


ROBERT K. NELSON, LADALE WINLING, RICHARD MARCIANO, NATHAN CONNOLLY, ET AL., "MAPPING INEQUALITY," *AMERICAN PANORAMA*, ED.



EQUITY LENS

Tree Size





EQUITY LENS

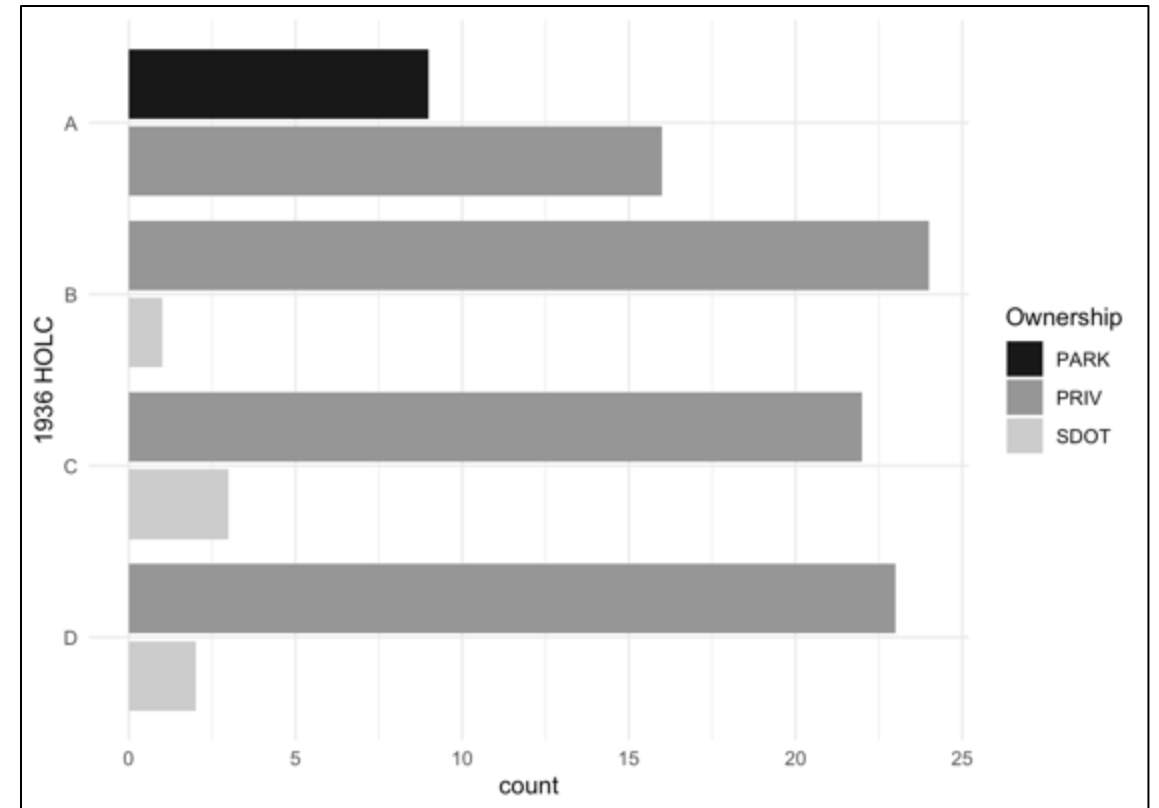
Tree Condition





EQUITY LENS

Tree Ownership





Many projects about western redcedar

[HTTPS://FORESTHEALTH.ORG/REDCEDAR](https://foresthealth.org/redcedar) - *coming soon*



WSU PUYALLUP



**FHW PROGRAM
STRUCTURE**



**LOCAL FOREST
HEALTH ISSUES**



**WESTERN
REDCEDAR DECLINE**



**POSSIBLE SEATTLE
PROJECTS**



OTHER TREE HEALTH ISSUES

Araucaria sp.





SOOTY BARK DISEASE OF MAPLE



[HTTPS://FORESTPATHOLOGY.ORG/CANKER/SOOTY-BARK-MAPLE/](https://forestpathology.org/canker/sooty-bark-maple/)



A low-angle, upward-looking photograph of several tall, slender evergreen trees reaching towards a clear blue sky. The perspective creates a sense of height and scale. The tree trunks are dark and textured, while the foliage is a vibrant green. A large, semi-transparent white circle is overlaid on the right side of the image, serving as a background for the text.

**OTHER
PROJECTS?**



FOREST HEALTH WATCH

Pacific Northwest Community Science



[HTTPS://FORESTHEALTH.ORG](https://foresthealth.org)

JOEY HULBERT
hulbe@wsu.edu

