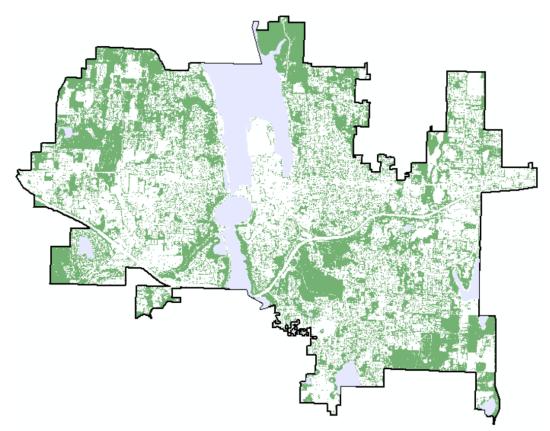
### City of Olympia Tree Canopy Assessment

#### Land Use & Environment Committee Briefing

November 16, 2023



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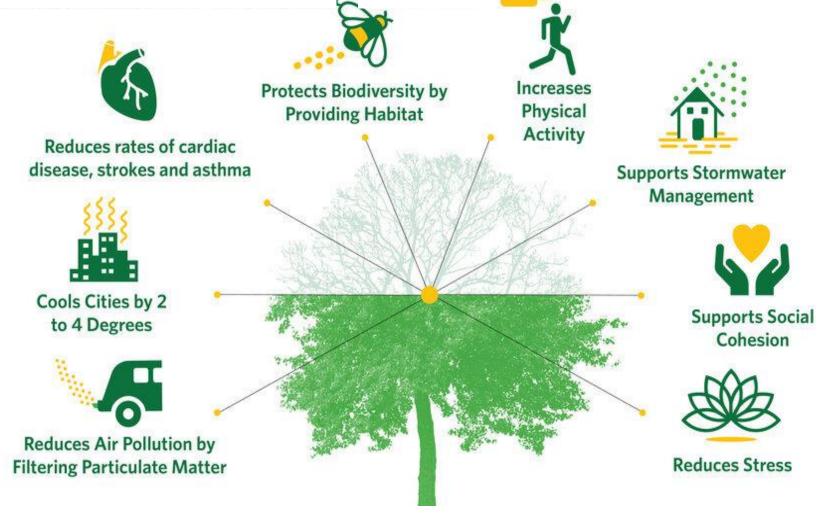
#### **Agenda**

Tree Canopy Assessment – What & Why
Summary of Preliminary Results
Next Steps





# Why study tree canopy? \*\*Benefits\*\*





#### Why study tree canopy?

#### Management Considerations

- Infrastructure conflicts
- Operations & maintenance
- Pest vulnerability
- Life & safety
- Equity & environmental justice
  - = All elevated w/climate change







# Why study tree canopy? Policy Framework

#### **Comprehensive Plan**

- <u>Community Values and Vision</u> (Natural Environment Chapter): "A dense tree canopy that will beautify our downtown and neighborhoods, and improve the health, environmental quality, and economy of our city."
- <u>PL7.4</u> "Increase the area of urban green space and tree canopy within each neighborhood proportionate to increased population in that neighborhood."
- PN3.2 "Measure the tree canopy and set a city-wide target for increasing it through tree preservation and planting."

#### **Thurston Climate Mitigation Plan**

• A6.9 "tree canopy preservation - Develop a tree canopy ordinance that establishes a baseline for current urban canopy and sets goals for future canopy to increase resilience."

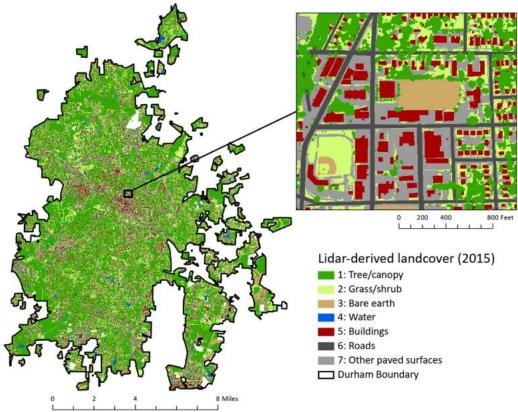
#### NPDES Stormwater Permit (proposed 2024-2025 update)

\$5.C.4	MS4 Mapping & Documentation	Begin mapping City-owned tree canopy.	December 31, 2028
\$5.C.1	Stormwater Planning	Adopt and implement tree canopy goals and policies.	December 31, 2028



#### Tree Canopy Assessment

Example High-Resolution Landcover Classification



Durham, North Carolina Tree Canopy Assessment (2017)

- What does the current distribution of trees look like across Olympia?
- How has the tree canopy changed over time?
- How does tree canopy correlate with land use?
- What locations have opportunity for tree planting?
- Where is tree planting <u>not</u> feasible?

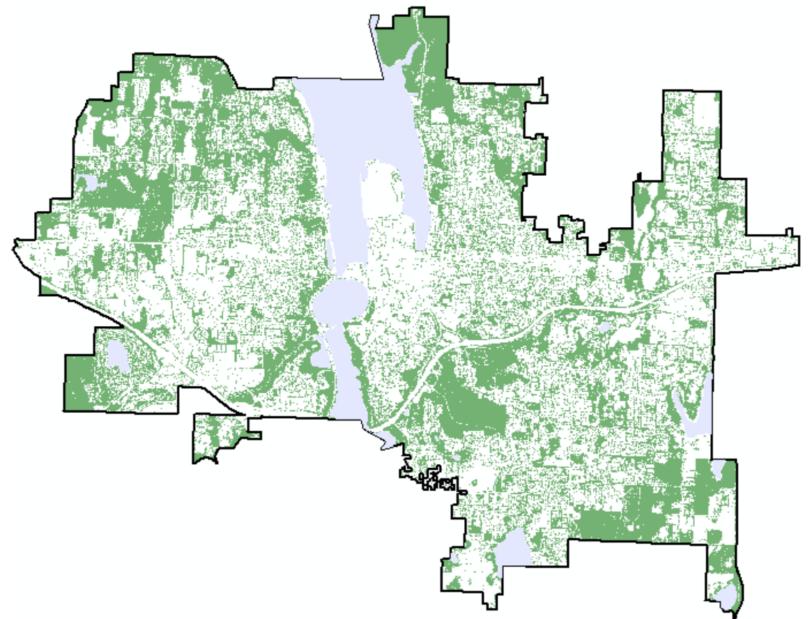


#### Olympia Landcover Classification 2022

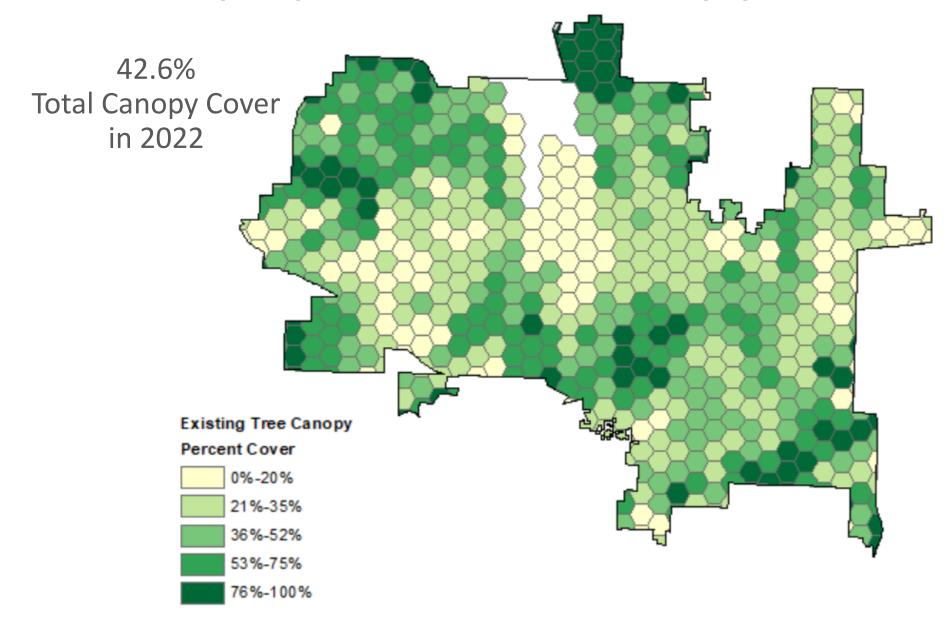




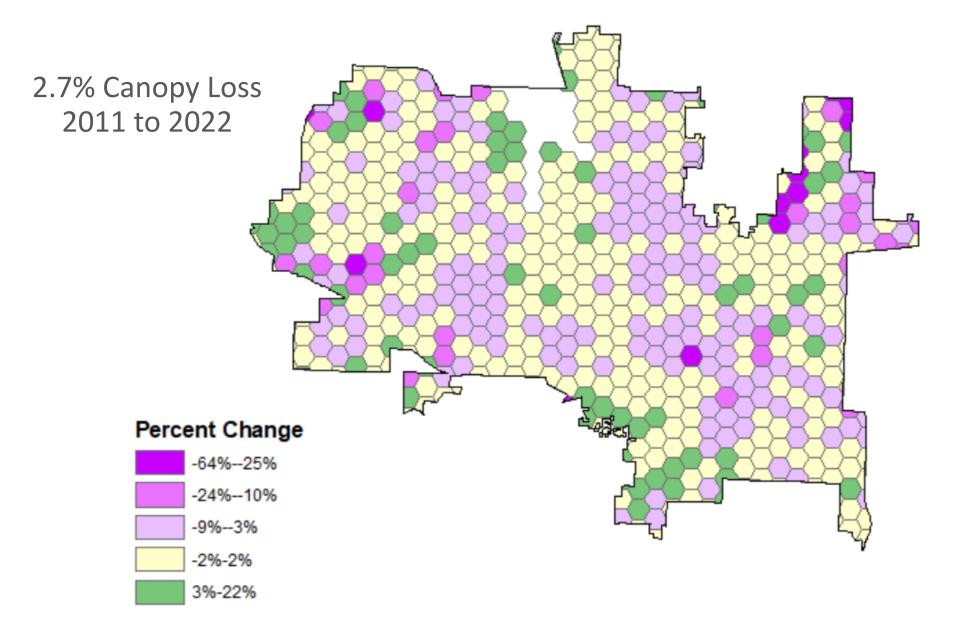
## Landcover Classification: Tree Canopy





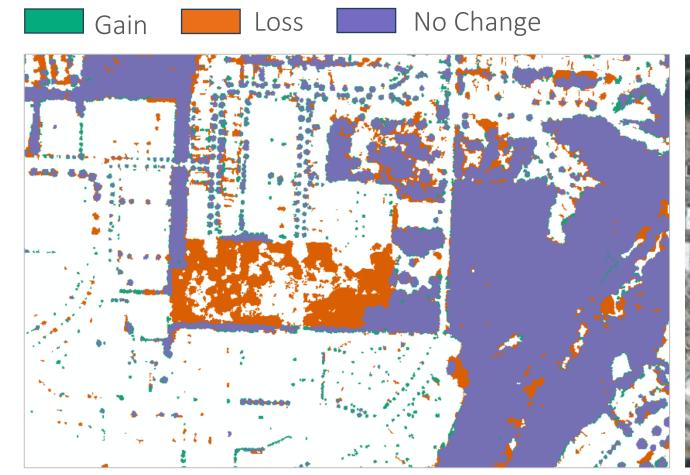


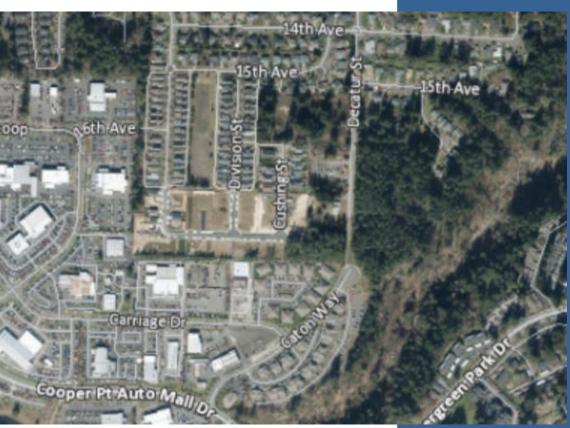






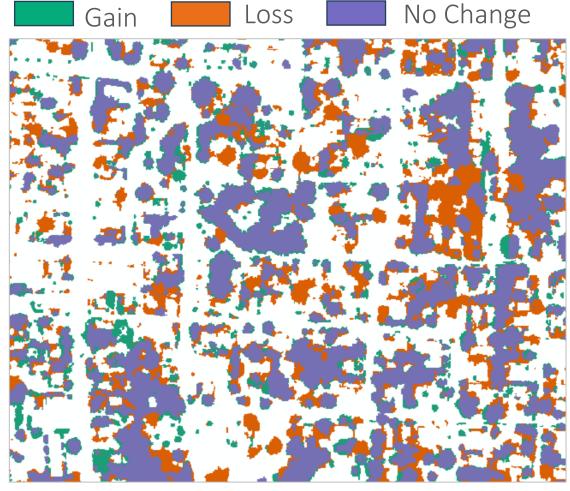


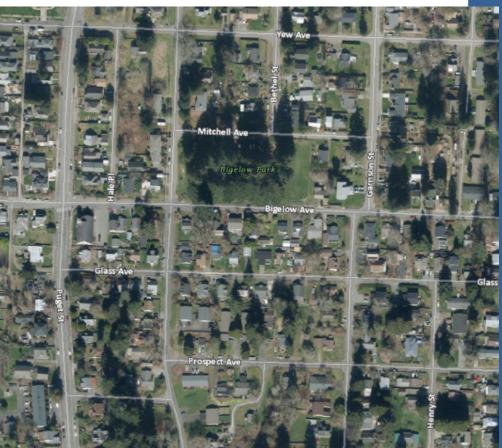




SW Olympia – Automall Drive, Percival Canyon







NE Olympia – Puget & Bigelow, Bigelow Park

**Individual Tree** Height

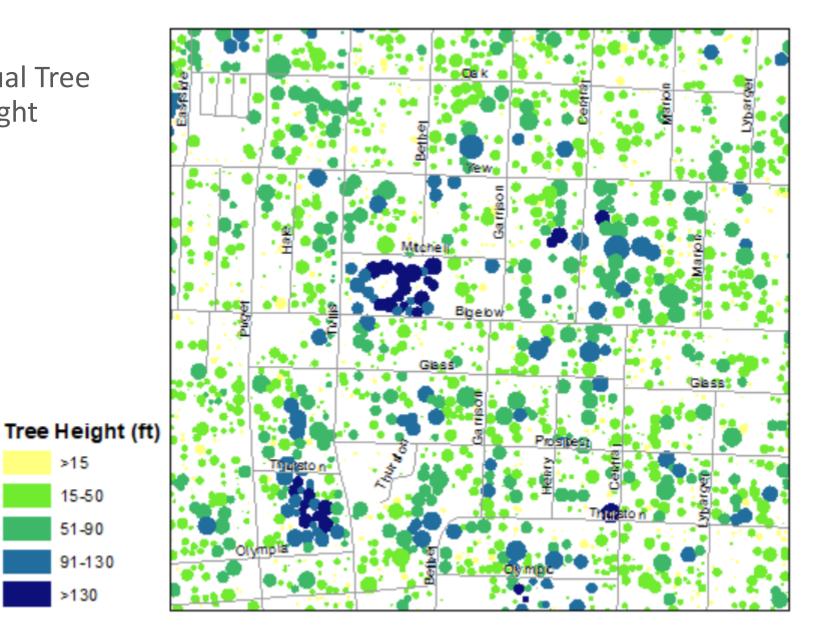
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15-50

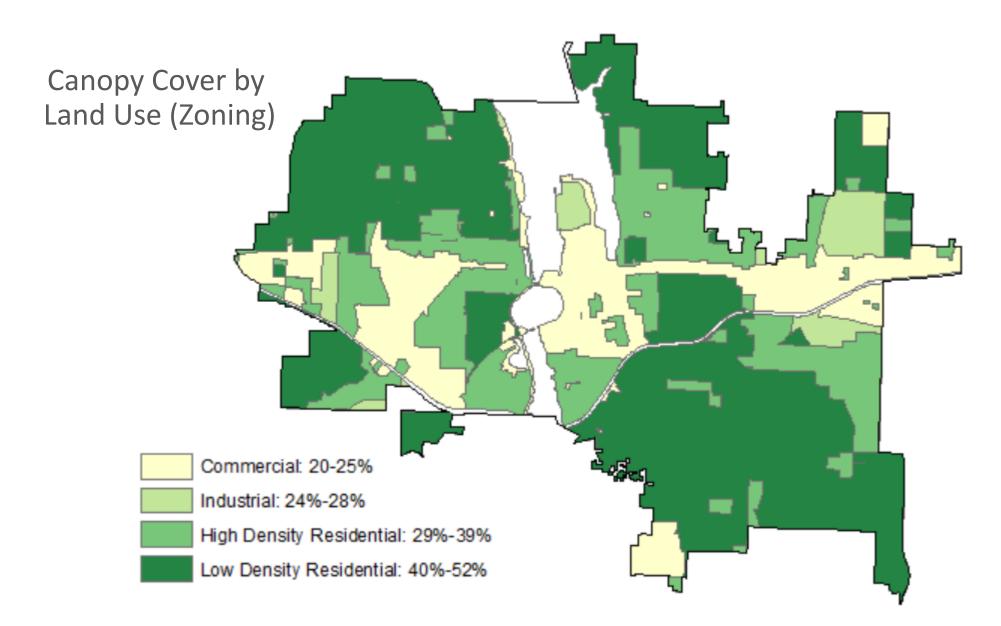
51-90

91-130

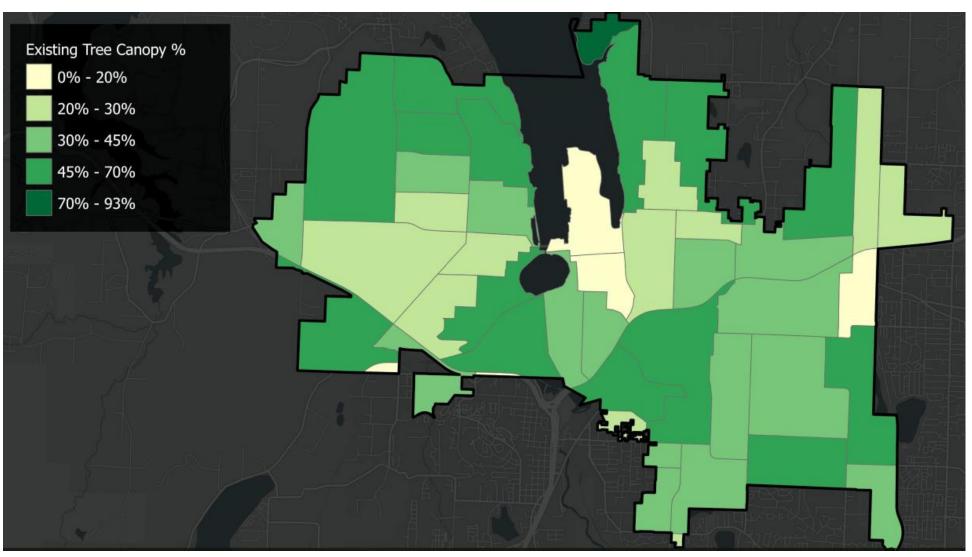
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Canopy Cover by Census Block Groups





Tree Canopy is Declining
45.3% in 2011
42.6% in 2022



**Both Gains and Losses**547 acres of gain
868 acres of loss



2022 EXISTING TREE CANOPY PERCENT

4,873

2022 EXISTING TREE CANOPY ACRES

-321

2011-2022 ACRES CHANGE



City	Population	<b>Tree Canopy</b> (% Cover)
Issaquah	40,000	51
Olympia	55,000	42
Kenmore	23,000	41
Tumwater	26,000	40
Shoreline	59,000	37
Lacey	58,000	28





#### Next Steps

#### Finalize Data & Publish Results

- Comprehensive final report
- Interactive online Storymap

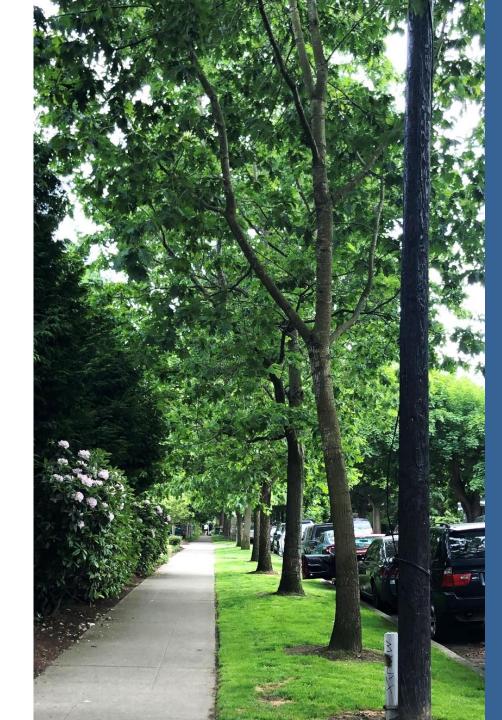
# Urban Forest Management Plan: Funding & Development

#### **Background**

- Mission, Vision, Values
- Public Engagement
- Tree Canopy Assessment Summary
- Climate Considerations
- Equity & Environmental Justice

#### **Goal-setting**

- Policy Recommendations
- Programmatic Recommendations
- Implementation Strategies

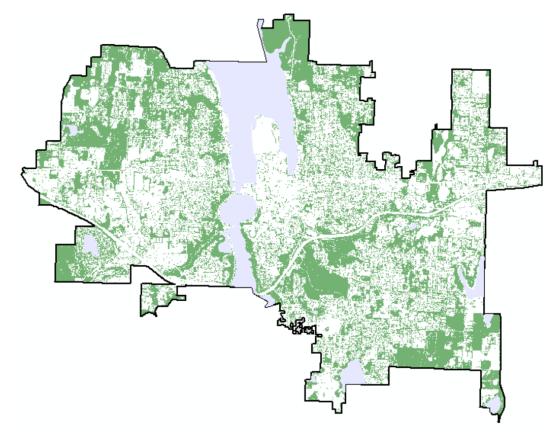




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