Protecting Mature Trees While Adding Housing For Healthy Communities

David Moehring AIA NCARB

dmoehring@consultant.com

Protecting Trees While Adding Housing

- √ Value of the Urban Forest
- ✓ Greener Community Guidelines
- ✓ Examples of Density & Urban Trees
- ✓ Recommendations

Value of an Urban Forest

URBAN FORESTRY







COOLS THE AIR

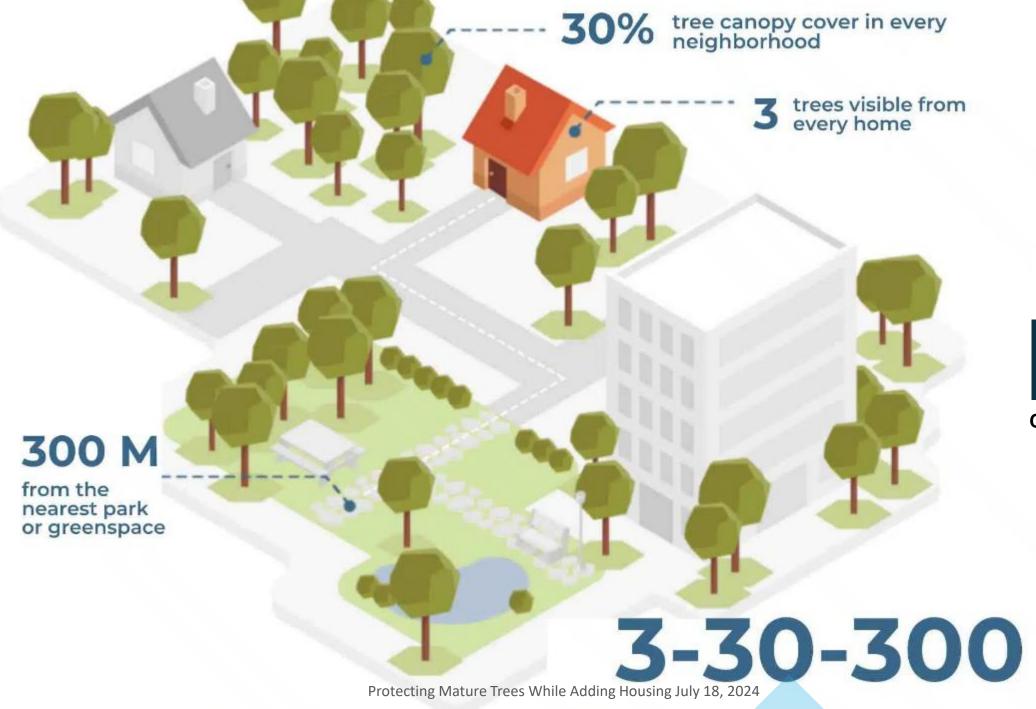
REGULATES WATER FLOW AND IMPROVES WATER QUALITY FILTERS FOR URBAN POLLUTANTS

Image: takomaparkmd.gov/government/public-works/urban-forestry/tree-education/the-benefits-of-trees/

Value of Maturing Trees







Source: "Mapping the 3-30-300 Rule for Actionable City Greening" webinar May 1, 2024



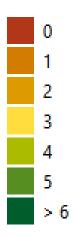


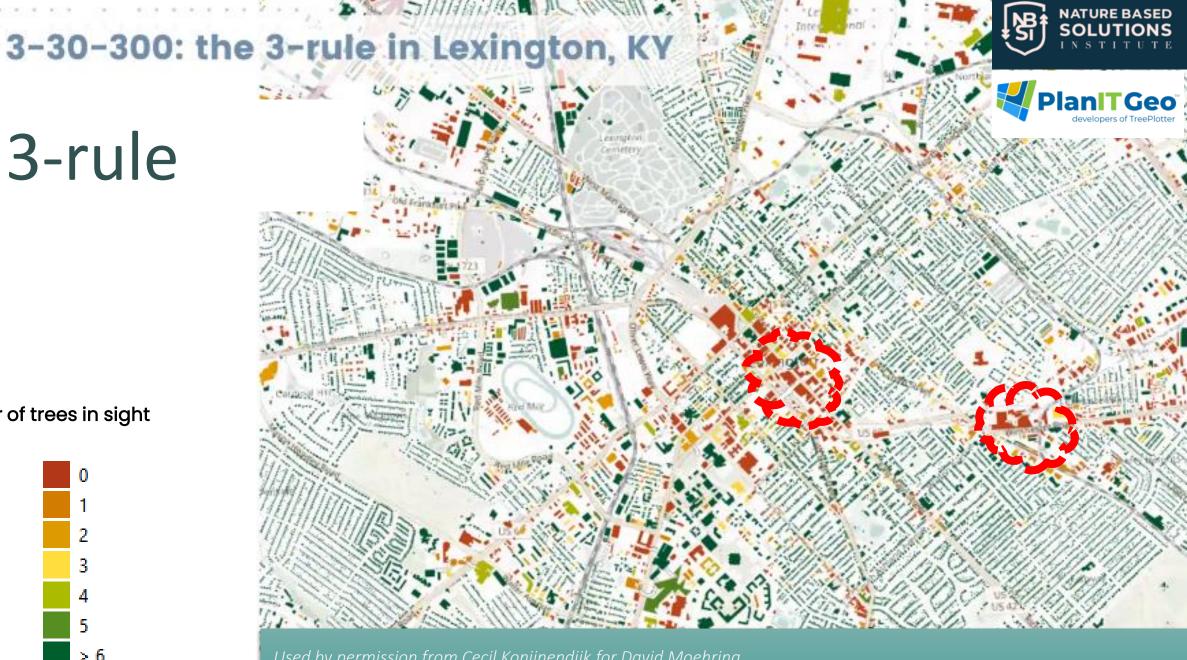
Cecil C. Konijnendijk

cecil@nbsi.eu http://nbsi.eu

3-rule

Number of trees in sight



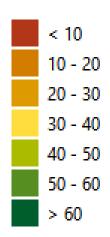






30-rule

% of canopy cover





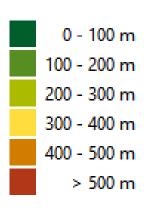


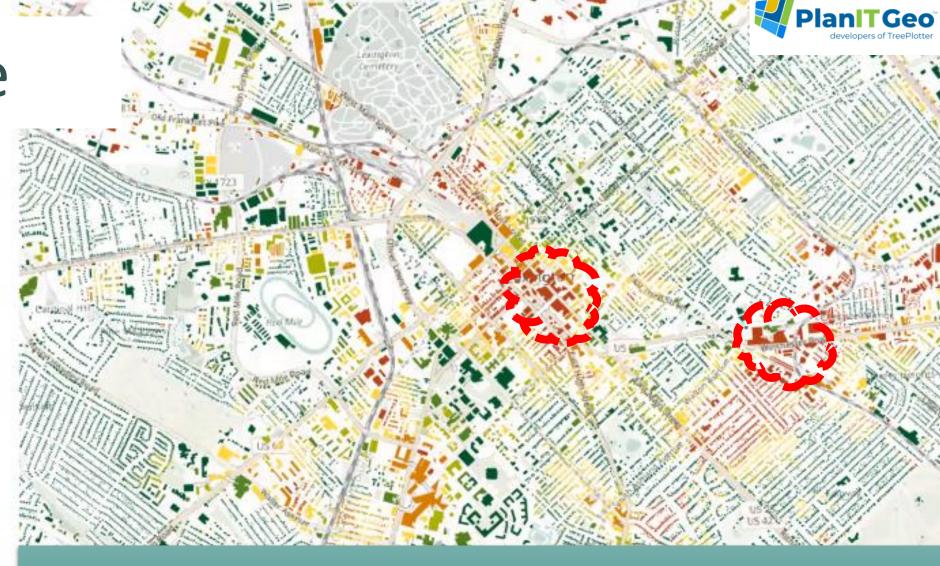


NATURE BASED SOLUTIONS

300-rule

Walking distance to an urban green space



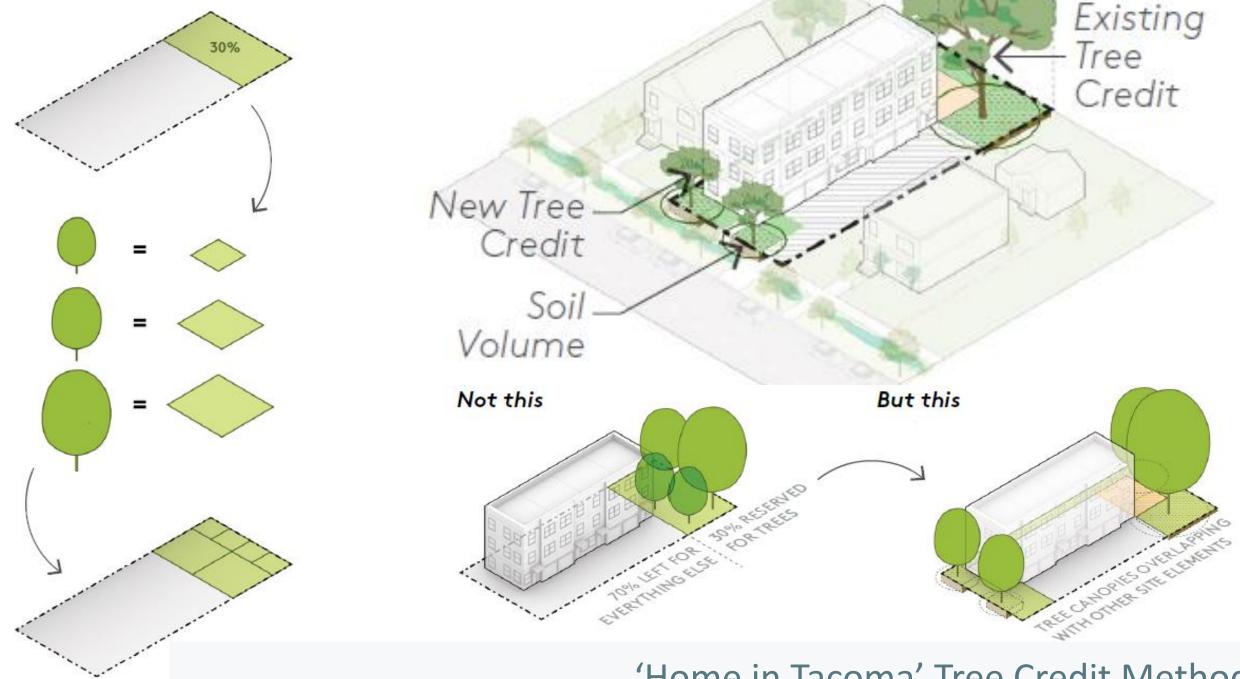




- Align tree codes with clear objective standards for housing consistent with GMA requirements
- Set clear and data-driven tree goals
- Align code provisions with clearly stated tree goals
- Establish clear procedures and legal authority for the benefit of applicants and staff •
- Provide flexibility by allowing multiple pathways to compliance with the tree code •
- Allowing flexibility to achieve tree coverage does allow for smarter, more cost-effective home construction. The two most effective structures MBAKS has seen some adopt are
 - Canopy systems
 - Credit systems

MBAKS Housing

https://www.mbaks.com/docs/default-source/documents/advocacy/issue-briefs/tree-code-issue-brief.pdf



'Home in Tacoma' Tree Credit Method

Examples of Housing Density & Urban Trees

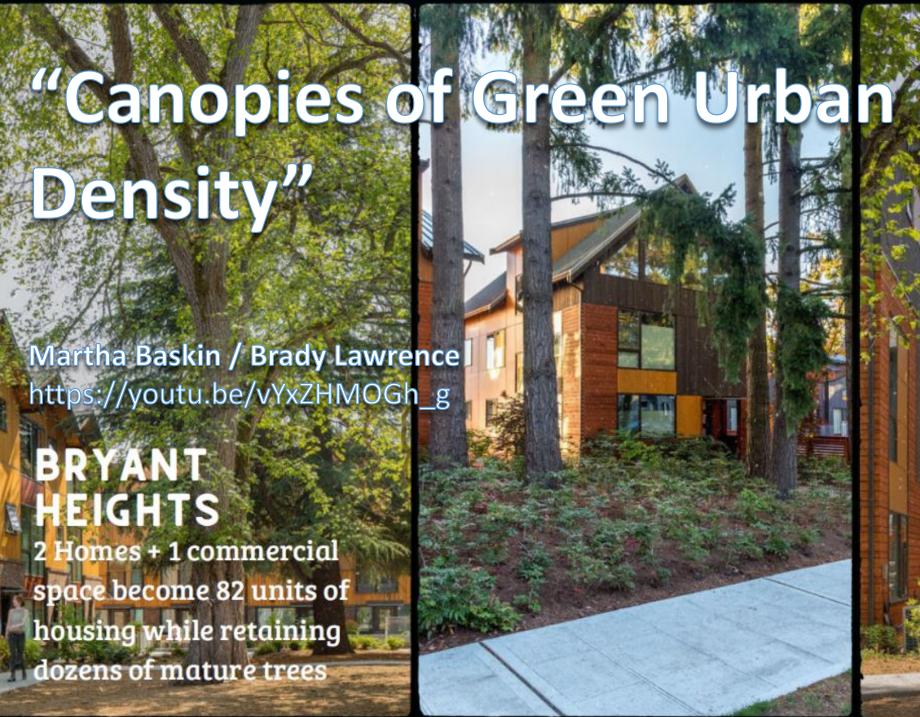
Before After





Create opportunities for trees in a good location to be retained









ngs



partment of on & Inspections

Representation only; approved project may vary.

Takeaways from "Canopies of Urban Green Density"



- Owners / architects recognize that density and canopy can coexist.
- Buy-in from city arborists and policy makers needed.
- Architects and arborists with tree expertise needed.

Region & Community Recommendations



- ✓ Consider 3-30-300 Principles
- ✓ Consider Tree Canopy and Tree Credit Methods
- ✓ Allow Flexibility to Achieve Urban Forestry Goals

Assure Communities We Will Have Both





- ✓ "Our communities will achieve our goals through the comprehensive growth of both urban forest and housing."
- ✓ "Architects and builders have demonstrated how we retain trees while adding more housing."

Recommended Policies



Strive to increase citywide tree canopy coverage to 30 percent by 20YY



 Promote the care and retention of trees and groups of trees that enhance cultural, environmental, and aesthetic character.



 Develop regulations, incentives, and educational materials to minimize lot clearing and ensure site design: that retain trees.



 Encourage the preservation and expansion of the tree canopy throughout the city for the health and environmental benefits trees provide, considering residential and mixed-use areas with the least tree canopy to equitably distribute benefits to residents.



"All things share the same breath - the beast, the tree, the man. The air shares its spirit with all the life it supports."

Chief Seattle

TheFamousPeople.com

Resources and Links

Slide 3: Urban Forestry benefits of trees Image

https://takomaparkmd.gov/government/public-works/urban-forestry/tree-education/the-benefits-of-trees/; Image of Money tree
https://www.alamy.com/money-tree-with-grass-on-blurred-natural-background-image353916965.html

Slide 4: Source Images and text from "First Steps in Trees and New Developments", University of Birmingham

http://epapers.bham.ac.uk/4109/1/TDAG_TreesAndNewDevelopment.pdf

Slide 5 Google earth Images left: multifamily low-rise community in urban Asian city. Image right: single household one- and two-story dwellings in Pacific Northwest city

Slide 6-9 "Mapping the 3-30-300 Rule for Actionable City Greening" webinar May 1, 2024; Used by permission Mr Cecil Konijnendijk only by David Moehring Relative to the Puget Sound Regional Council

To access the recording.

https://marketing.planitgeo.com/webinar/mapping-the-3-30-300-rule-for-actionable-city-

greening?utm_campaign=PlanIT%20Geo%20Webinars&utm_medium=em ail&_hsenc=p2ANqtz-9x-

bjkmxkaJ1_22HB3sS9mvZuPQHHIDgMosWb0xtP8PZZNEp-bt0fc-md29DyBAiW2uBAD53pXyiZtoXHTd9G_G80s6g&_hsmi=305533398&utm_content=305533398&utm_source=hs_email

Slide 10 Source Recommend only Pages 1-3 of Feb 2023 MBAKS Housing Toolkit "BALANCING TREE CODES AND RESPONSIBLE HOMEBUILDING" https://www.mbaks.com/docs/default-source/documents/advocacy/issue-briefs/tree-code-issue-brief.pdf

Slide 11 Source: "Home in Tacoma" 2024 draft. Mithun for the City of Tacoma. (Contact subsequent presenter Mike Carey, Tacoma's Urban Forest Program Manager.)

Slide 12 Source: King County Parcel Viewer

Slide 13 Source: image by Martha Baskin, Seattle 2022, 2030 and 2042 NW 62nd St, Seattle WA

Slide 14 Source: Feasibility Study 2813 4th Ave W. Seattle, WA, Used by permission. Twist Design Inc, April 17, 2019. Contact David Moehring for full study this Seattle location, or similar studies.

Slide 15-16: Martha Baskin / Brady Lawrence video "Canopies of Green Urban Density", Seattle, full 7.5 minutes presented November 2022 to for the National Arbor day foundation at https://treepac.org/wp-content/uploads/2023/01/canopies_of_green_urban_density-720p.mp4

Slide 21 Examples may be looked up online at https://web.seattle.gov/dpd/edms/