

Sustainable Streetscapes & Healthy Trees



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Presenters



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Today's Agenda

The Intersection!
 Urban Forestry & ROW Management

- Current streetscape construction workflow & practices
- Common infrastructure & tree health challenges
- Financial & ecological costs
- Solutions
- Case Studies



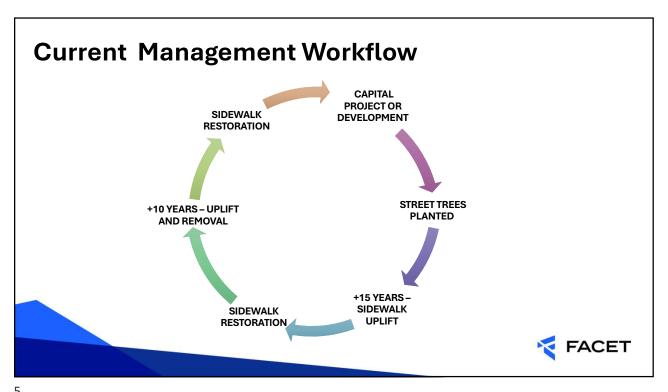
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The Intersection

Meeting multiple benefits within Streetscapes and Rights-of-Way

- Mitigating Urban Heat Islands
- Stormwater Management
- Pollution Abatement
- Carbon Sequestration
- Transportation Corridor
- Pedestrian Access & Safety
- Livability







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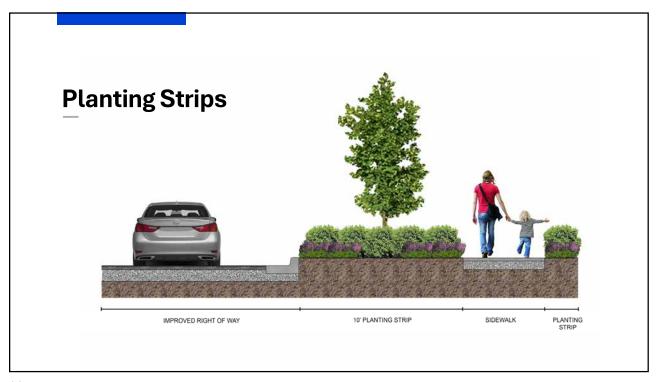
Common Infrastructure Conflicts & Tree Health Issues



Solutions

- Update **Design** and **Construction Standards** to achieve co-benefits for trees and infrastructure
- 2. Tree Species Selection
- 3. Management and Maintenance Plan

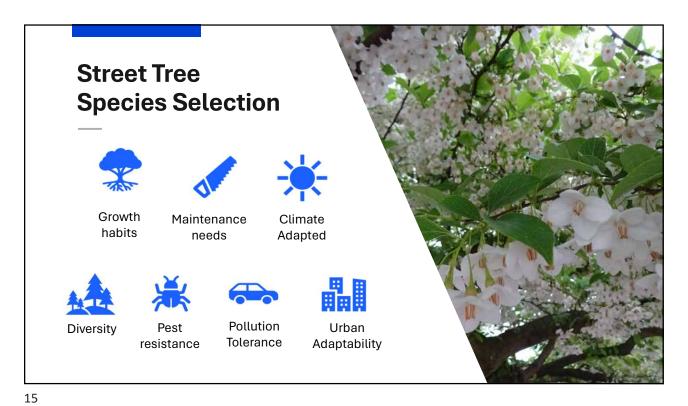


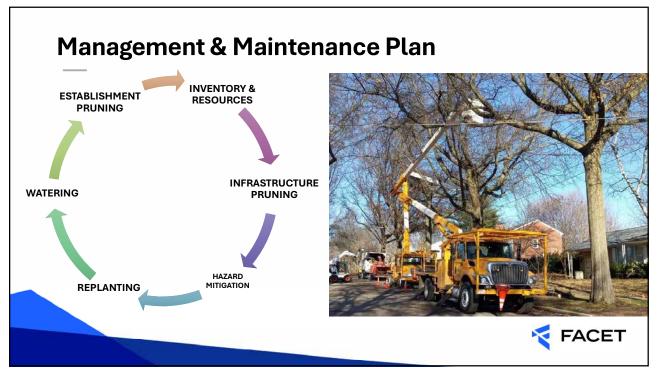












Inventory & Assessment in Mercer Island Town Center

- Tree species and condition
- Pruning and maintenance needs
- Infrastructure type
- Tree grate type
- Tree grate lifting
- Sidewalk lifting
- · Root intrusion of the road





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Inventory & Assessment in Mercer Island Town Center



2018 Tree Inventory Findings

Lack of species diversity

Acer spp
Pyrus calleryana
Plantanus x acerifolia
Quercus robur
42%
20%
21%
11%

- > Majority need structural pruning
- ➤ Infrastructure impacts to tree grates, concrete sidewalks, and asphalt roads.
- Next Steps













