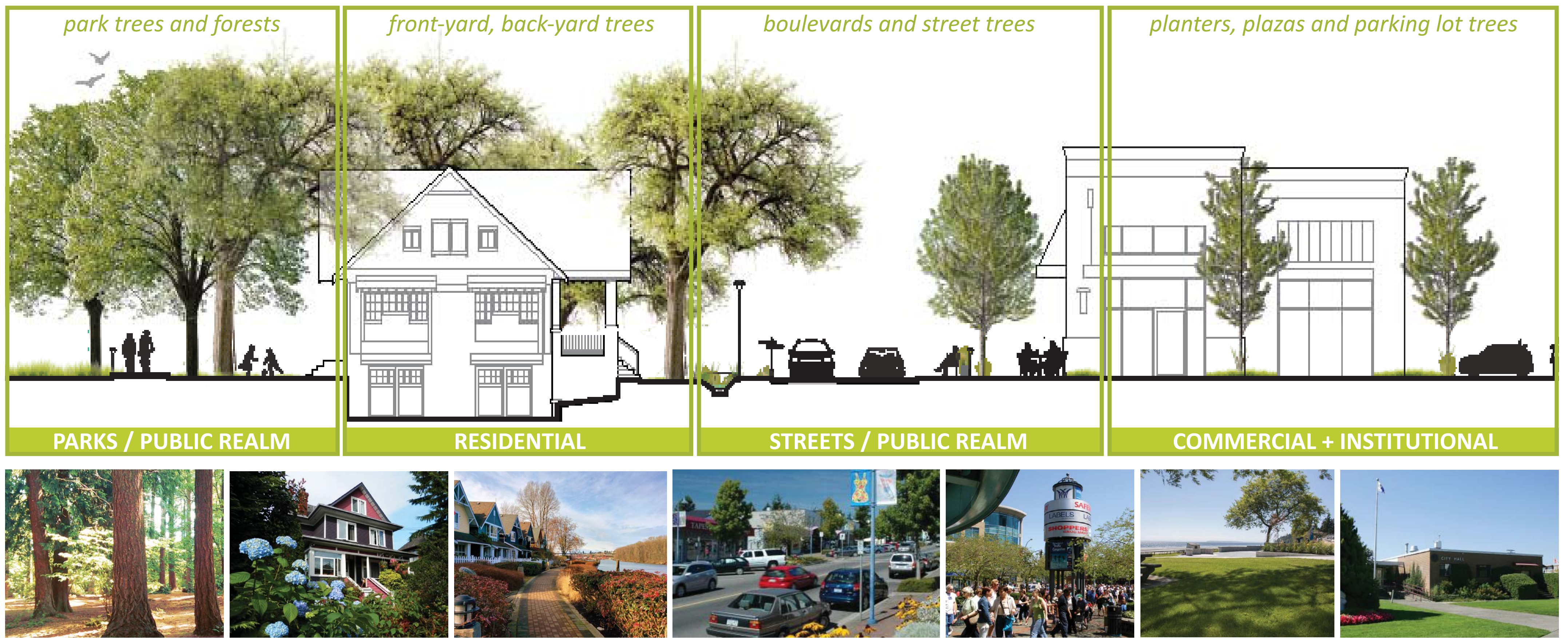


The City is developing an Urban Forest Management Plan.

Work with us to co-create the future urban forest vision for White Rock and to guide the strategic management of the City's urban forest.

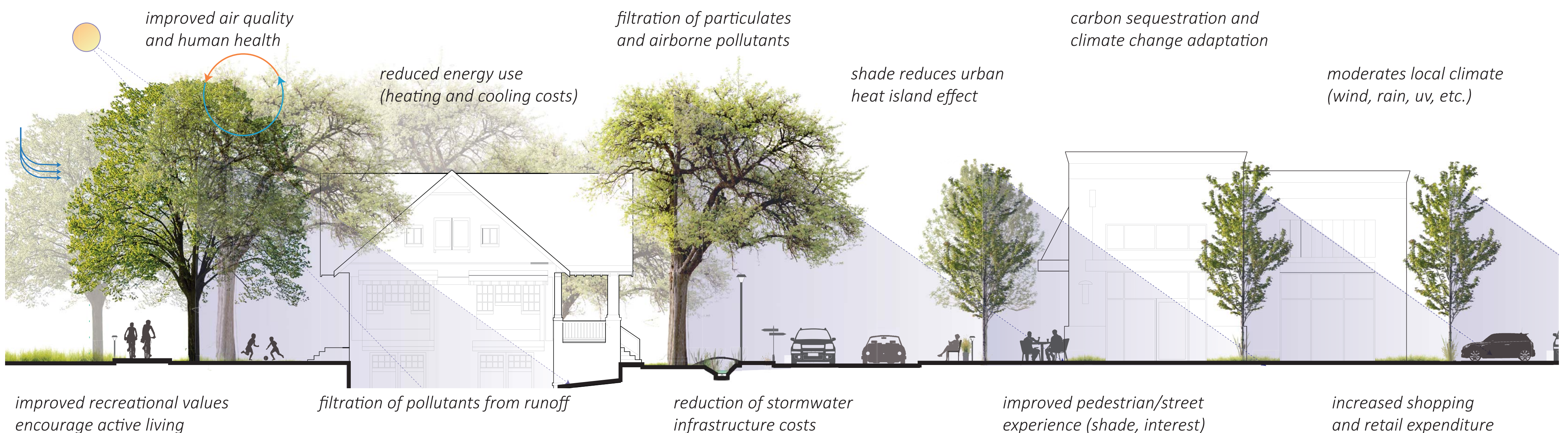
WHAT IS AN URBAN FOREST?

An urban forest includes the land in and around areas of intensive human influence, ranging from communities to dense urban centers, which is occupied or potentially occupied by trees and associated natural resources.

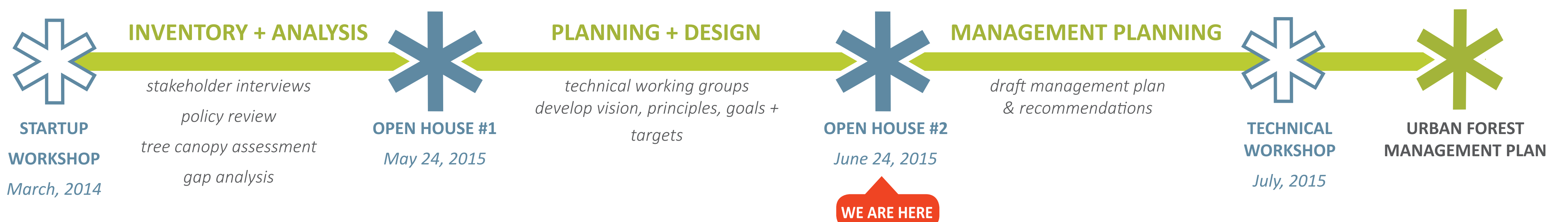


WHY DO WE NEED AN URBAN FOREST?

In Canada, and around the world, urban forests are becoming increasingly important because of the extent of urban land use and the populations living in cities. The benefits that were passively provided by nearby undeveloped natural or rural areas and large gardens now need to be actively replaced by planned urban forests and permeable areas within dense urban environments.



WHAT IS THE TIMELINE FOR THE PLAN?



Urban Forest Objectives

Five management objectives are proposed for White Rock's urban forest. Please tell us what actions are most important for the City to focus on to achieve each one.

A. Protect and enhance canopy cover to reach a target of 27% by 2045.

If you see an action here that you agree with, please put a sticker or tick next to it.

B. Support a healthy, well-adapted and diverse tree population.

If you see an action here that you agree with, please put a sticker or tick next to it.

Urban Forest Objectives

Five management objectives are proposed for White Rock’s urban forest. Please tell us what actions are most important for the City to focus on to achieve each one.

C. Manage the urban forest for community climate adaptation.

If you see an action here that you agree with, please put a sticker or tick next to it.

D. Strengthen ecological systems and biodiversity.

If you see an action here that you agree with, please put a sticker or tick next to it.

Urban Forest Objectives

Five management objectives are proposed for White Rock’s urban forest. Please tell us what actions are most important for the City to focus on to achieve each one.

E. Engage and partner with the community to build stewardship of the urban forest.

If you see an action here that you agree with, please put a sticker or tick next to it.

I would also like to say...

Imagine White Rock in 2045, what should the urban forest be like?

Place a sticker next to the vision that most represents the future you would like to see.

Vision 1

White Rock's urban forest offers beautiful parks and public spaces, tree lined streets and lush natural areas that provide sanctuary for birds and wildlife. The urban forest canopy is abundant and protected, supporting neighbourhoods that are peaceful and serene. The community works in partnership with the City to maintain a beautiful urban forest in the 'City by the Sea', creating an attractive and restorative destination for locals and visitors.

What could be improved about this statement?

Vision 2

White Rock's urban forest is a beautiful and beloved public resource, providing opportunities to experience nature, breathe clean air and enjoy recreation within the community. Integrating nature within White Rock's neighbourhoods, the urban forest enhances wildlife habitat, captures carbon, manages stormwater and maximizes benefits to our city's environmental health and quality of life. Community members of all walks of life care for the urban forest that makes White Rock a great place to live.

What could be improved about this statement?

Imagine White Rock in 2045, what should the urban forest be like?

Place a sticker next to the vision that most represents the future you would like to see.

Vision 3

Defined by its healthy and functioning habitat, White Rock's urban forest provides an interconnected network of greenspaces, treed corridors and natural areas. Creating a strong connection to nature, the urban forest strengthens the ecology of the urban environment and helps to reduce and clean stormwater run-off, improve air quality and cool the city. With its urban forest, White Rock is a resilient coastal oasis that provides sanctuary for people, plants and wildlife.

What could be improved about this statement?

Vision 4

White Rock's urban forest supports a beautiful city by the sea, balancing a healthy and beloved tree canopy with the maintenance of cherished ocean views. Vibrant urban forest and seaside public spaces unite the community in a mutual appreciation for the environment, establishing a legacy of heritage trees and important natural habitat. With a network of open green space and parks, tree-lined streets, and walking and cycle paths, White Rock's urban forest is integral to the health and well-being of the community.

What could be improved about this statement?

Residential Street Tree Planting Character

Please describe the urban forest characteristics you would like to see represented in residential streets.

If you see a characteristic here that you agree with, please place a sticker next to it.

Some examples of tree planting character descriptors...

- arching canopy
- seasonal flowers
- colour
- columnar trees
- evergreen
- deciduous
- boulevard
- blossoms
- shrub planting
- spacing
- planting location
- small tree
- tall tree
- heritage
- screen
- lush green
- colourful
- view corridors
- shade
- feature trees
- diversity



Commercial Tree Planting Character

Please describe the urban forest characteristics you would like to see represented in commercial streets and car parks.

If you see a characteristic here that you agree with, please place a sticker next to it.

Some examples of tree planting character descriptors...

- arching canopy
- seasonal flowers
- colour
- columnar trees
- evergreen
- deciduous
- boulevard
- blossoms
- shrub planting
- spacing
- planting location
- small tree
- tall tree
- heritage
- screen
- lush green
- colourful
- view corridors
- shade
- feature trees
- diversity



Seaside Tree Planting Character

Please describe the urban forest characteristics you would like to see represented on the foreshore

If you see a characteristic here that you agree with, please place a sticker next to it.

Some examples of tree planting character descriptors...

- arching canopy
- seasonal flowers
- colour
- columnar trees
- evergreen
- deciduous
- boulevard
- blossoms
- shrub planting
- spacing
- planting location
- small tree
- tall tree
- heritage
- screen
- lush green
- colourful
- view corridors
- shade
- feature trees
- diversity



Park Tree Planting Character

Please describe the urban forest characteristics you would like to see represented in parks

If you see a characteristic here that you agree with, please place a sticker next to it.

Some examples of tree planting character descriptors...

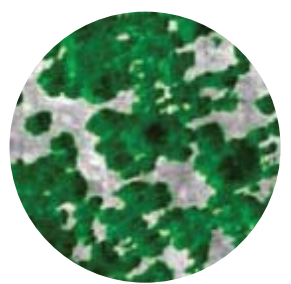
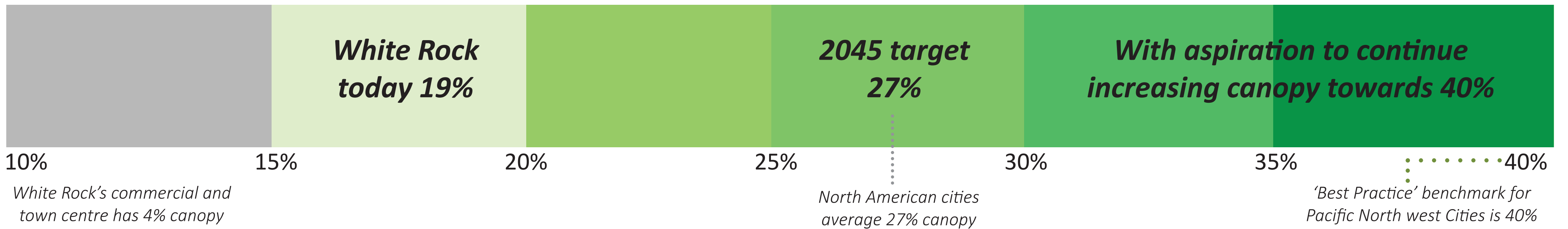
- arching canopy
- seasonal flowers
- colour
- columnar trees
- evergreen
- deciduous
- boulevard
- blossoms
- shrub planting
- spacing
- contemplative spaces
- small tree
- tall tree
- heritage
- screen
- lush green
- colourful
- view corridors
- shade
- feature trees
- diversity



White Rock's proposed canopy cover target is 27% by 2045

1% of canopy = 5 ha of canopy in White Rock (~400 medium-large trees)

A canopy increase of 1% requires planting approximately 400 new trees costing between \$40,000 and \$140,000 to plant and up to \$7,000 per year to maintain over a 60 year life span. The average annual benefit provided by those trees is estimated at \$17000 yielding a 60 year lifetime benefit of \$1 Million and a net benefit return to the community of \$440,000 (quantified air quality, stormwater, carbon, energy savings)*.

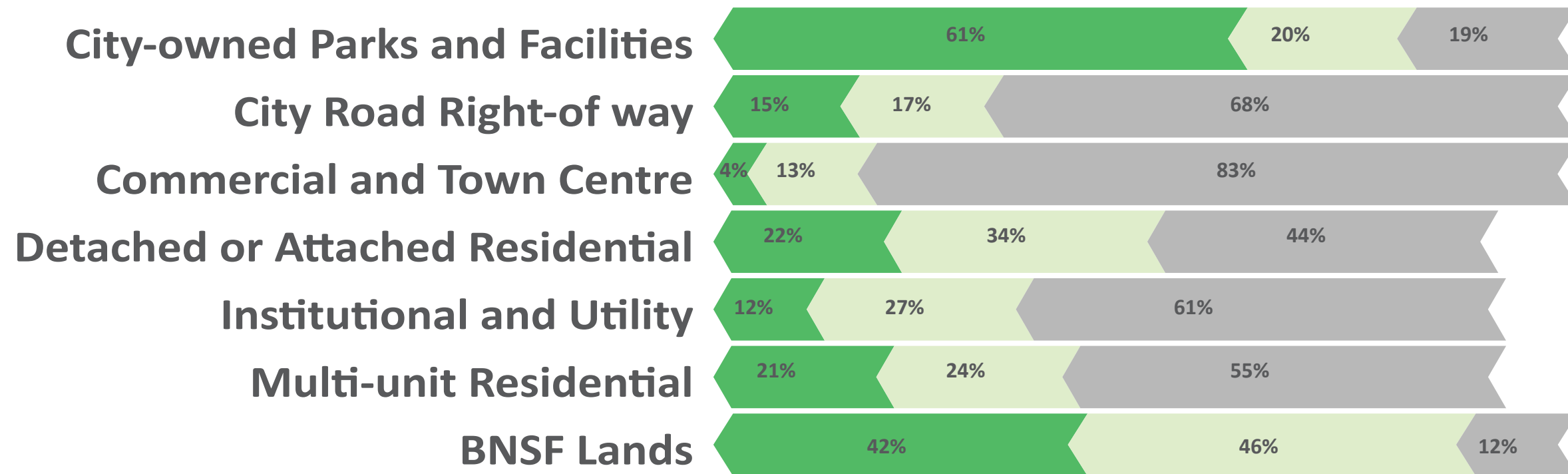


The extent of the urban forest is often measured by quantifying the urban tree canopy. Envision the layer of leaves, branches and tree stems when viewed from above.

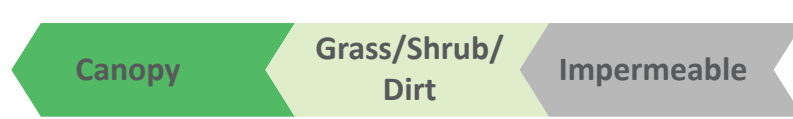
HOW IS WHITE ROCK'S CANOPY PERFORMING NOW?

Total City Canopy Cover

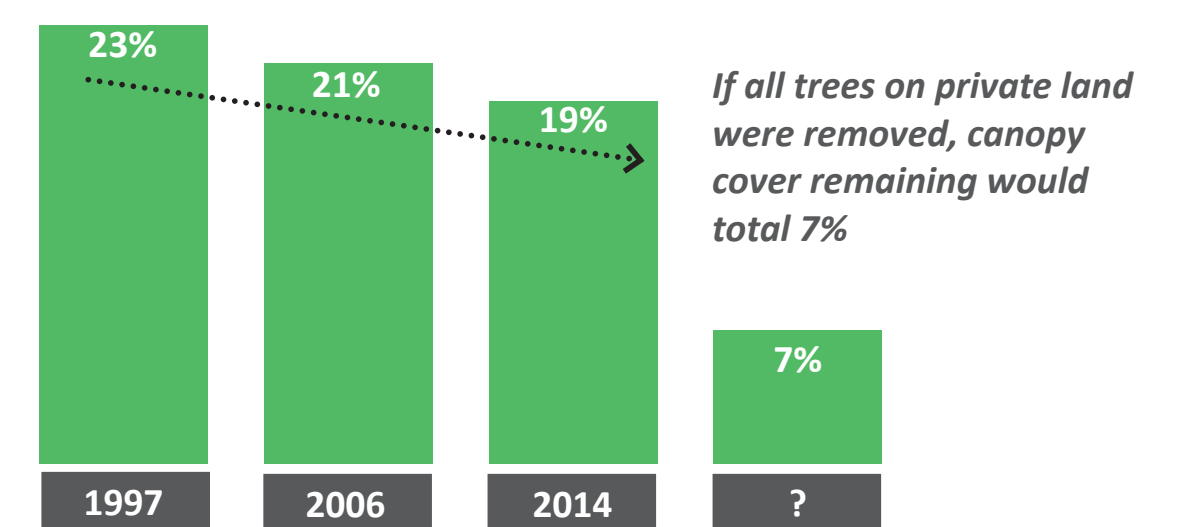
composed of...



key

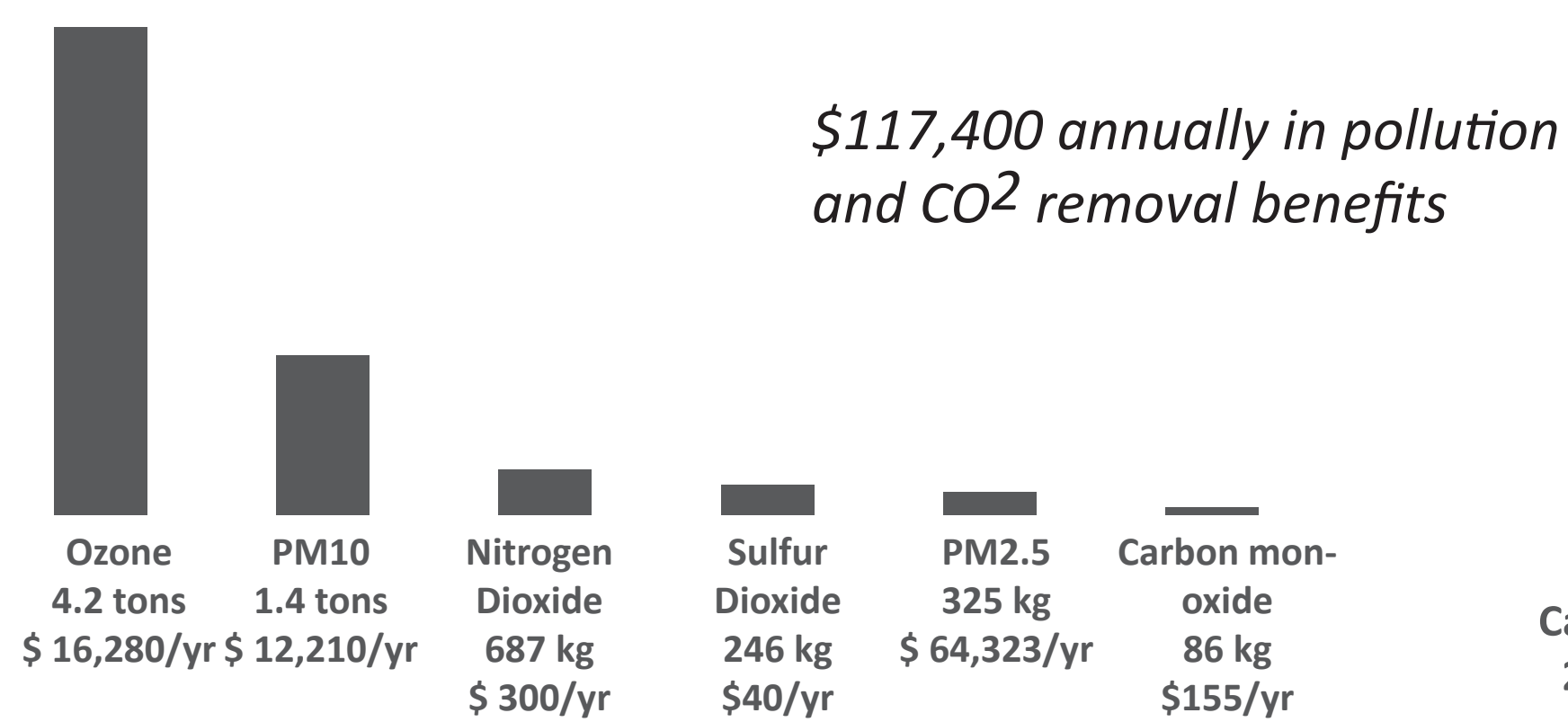


Canopy Cover Trend

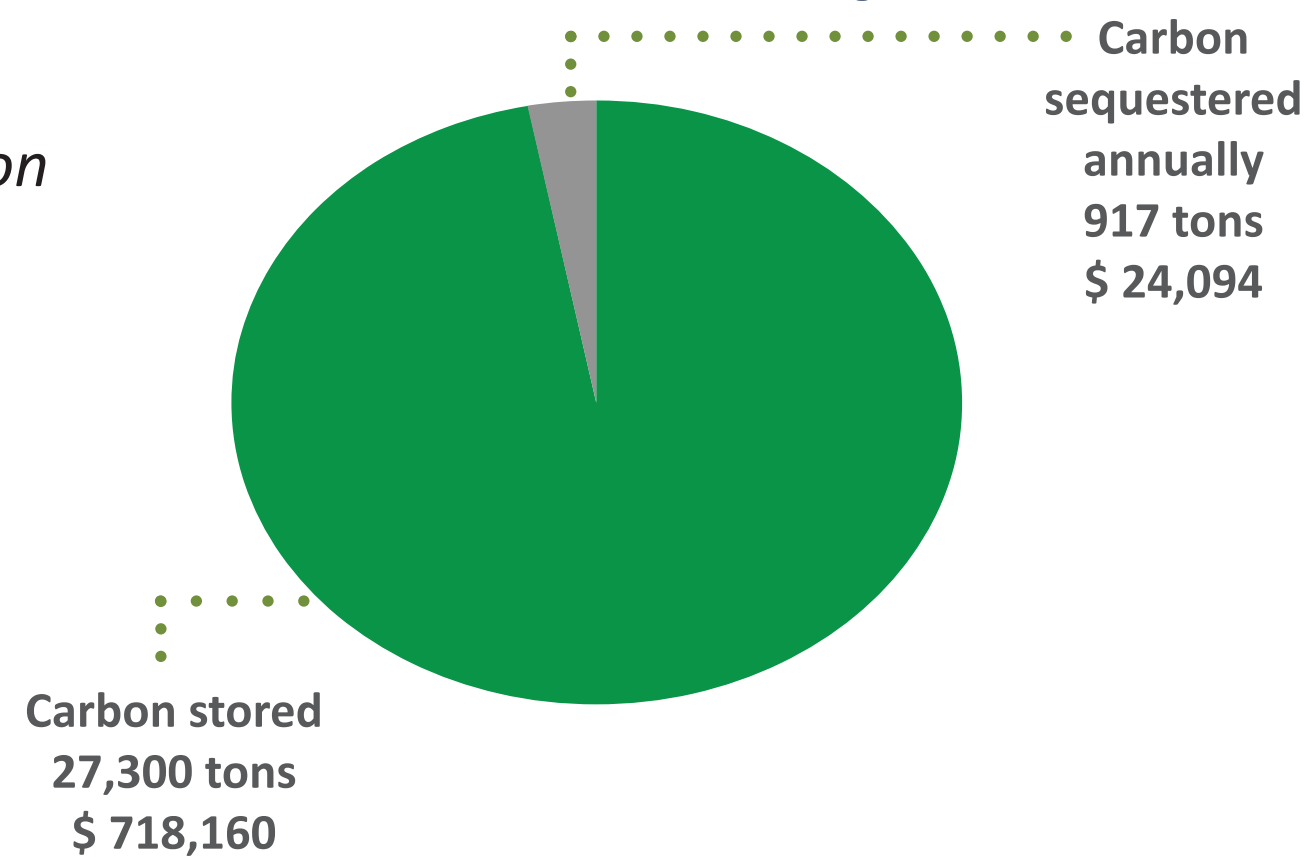


WHAT BENEFIT IS THE URBAN FOREST PROVIDING?

Yearly Pollution Removed



Carbon Stored and Sequestered



Additional Benefits

Examples of known benefits not quantified:

- Stormwater interception (7-22% reduction)
- Building energy reduction (~\$30 /tree/year)⁺
- Slope stability
- Habitat and biodiversity
- Community strengthening
- Improved mental health and lower stress
- Faster healing and less sickness
- Recreation
- Stimulation of local economy

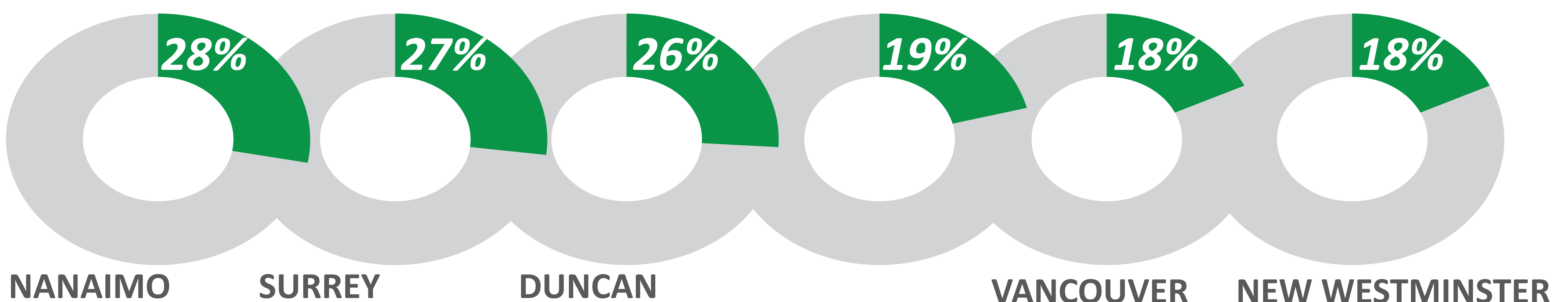
⁺ 40 cm ash tree, well situated

The World Health Organization reports that one in eight global deaths annually are caused by air pollution exposure. It is now the world's largest single environmental health risk .

For more information on tree benefit research, visit the Green Cities: Good Health website

HOW DOES WHITE ROCK'S CANOPY COMPARE TO NEARBY CITIES?

WHITE ROCK



Canopy analysis for White Rock was made available using iTree Canopy software with a +/- 2% sampling error; sampling error varies according to sample size. Analysis techniques and sampling error of case study examples is unknown.

* McPherson, E.G.; J.R. Simpson; P.J. Peper; Q. Xiao; S.E. Maco; P. J. Hoefer. 2003. Northern Mountain and Prairie Community Tree Guide: Benefits, Costs and Strategic Planting. https://www.itreetools.org/streets/resources/Streets_CTG/CUFR_258_North_CTG.pdf

White Rock's Urban Forest Survey

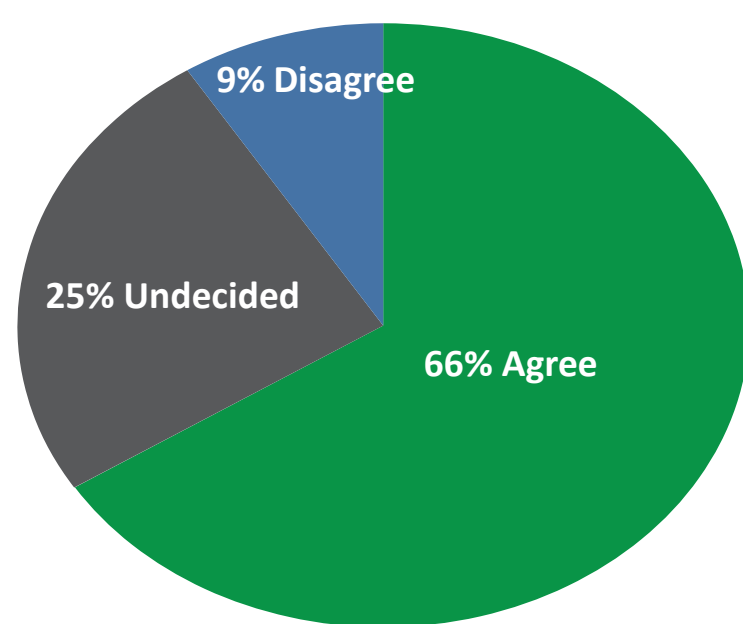
White Rock's urban forest survey was open from May 22 - June 17 2015. In total, 121 survey responses were recieved (50 online and 71 paper). For White Rock's population this represents an accuracy of +/-9% at the 95% confidence limit.

WHAT WE HEARD

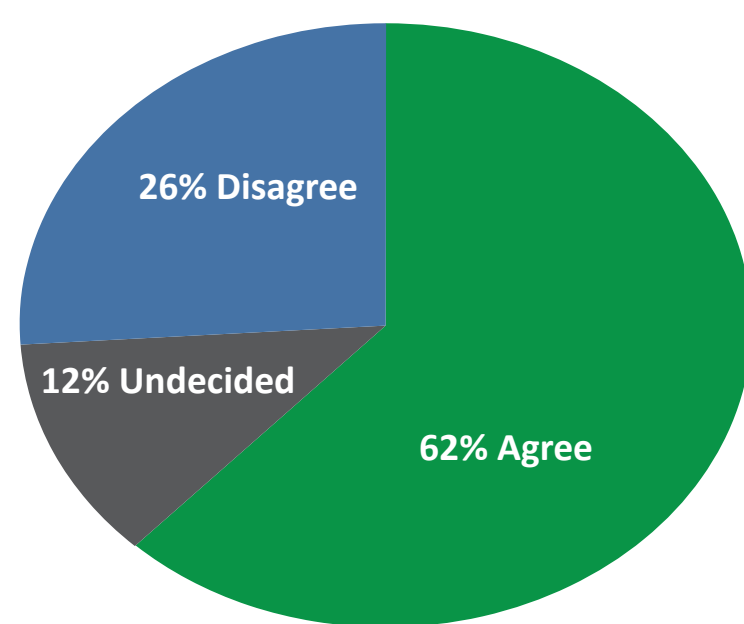
The majority of people in White Rock recognize the importance of the urban forest in providing functional ecosystem services to the city related to water, air and cooling. The urban forest's role in the social and cultural identity of the City is also important, as is its contribution to habitat.

Results from selected questions...

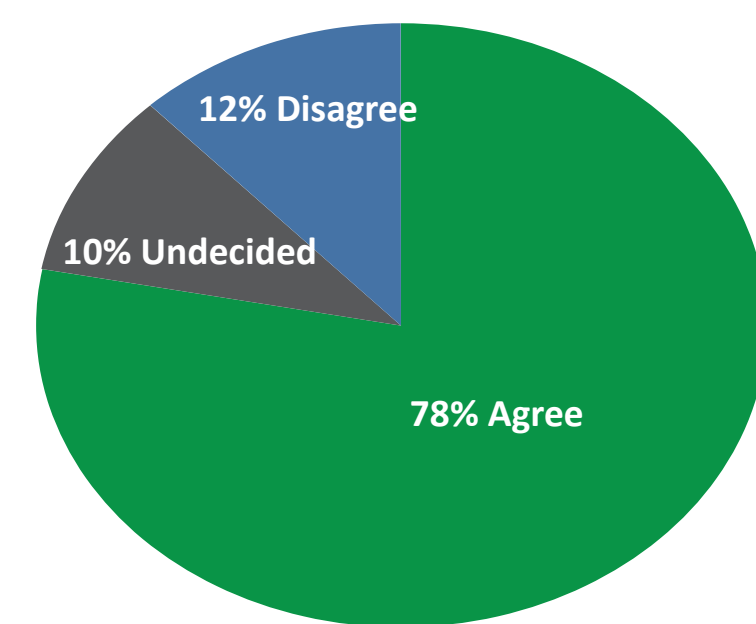
Q4a The City should aim to increase canopy cover



Q4b The City should continue to have a tree bylaw that protects trees on private land to prevent future canopy loss



Q4e The City should require minimum canopy cover for new developments. Developments would have to meet the target with tree planting on site or pay for equivalent tree planting on public land.

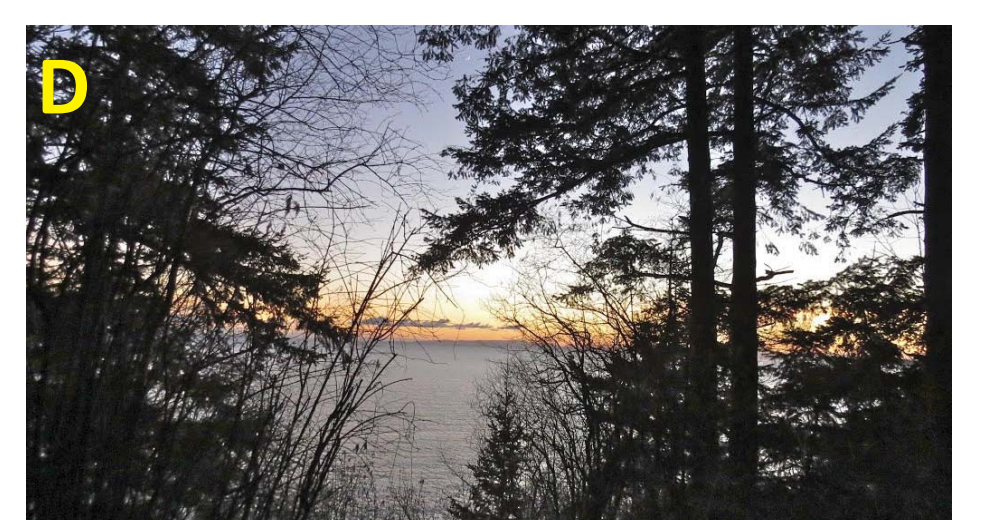
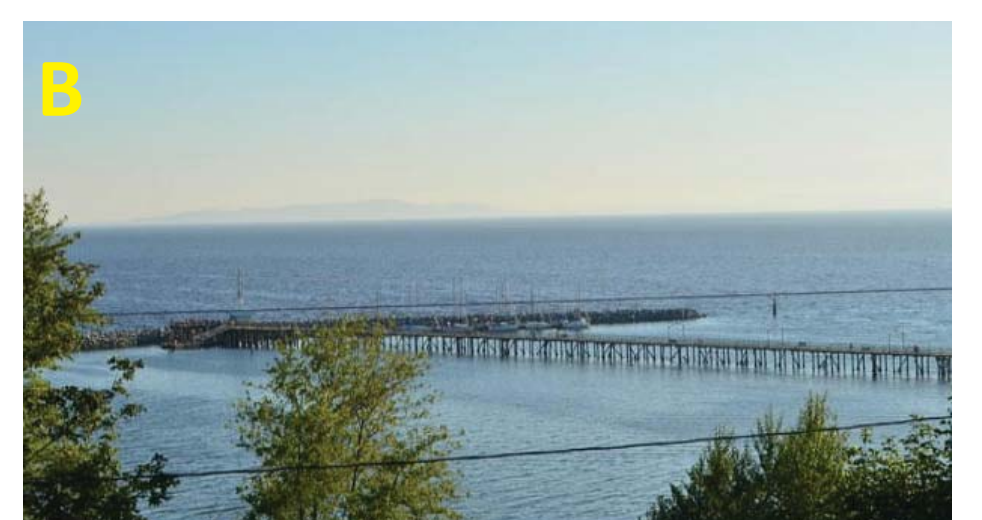


WHAT ABOUT TREES AND VIEWS?

When it comes to allowing pruning or removing trees for property views, opinions are divided. Trees and views are both important to people in White Rock. Please tell us what you believe is a fair balance for:

1 - your property? 2 - public property?

Photos are provided as references to assist in illustrating your response. Additional paper is provided.



Urban Forest Big Map

Please mark on the big map, by colour, locations that represent each of the questions below:

1. Where are the urban forest places you currently value and enjoy? (WHITE)

2. Where are there opportunities to plant new trees? (YELLOW)

3. Where are there opportunities to enhance what we have already? (PINK)