

GREEN NETWORKS- VANCOUVER

TODAY

Brief history Vancouver park planning Current Vancouver green networks planning

VANCOUVER 1898

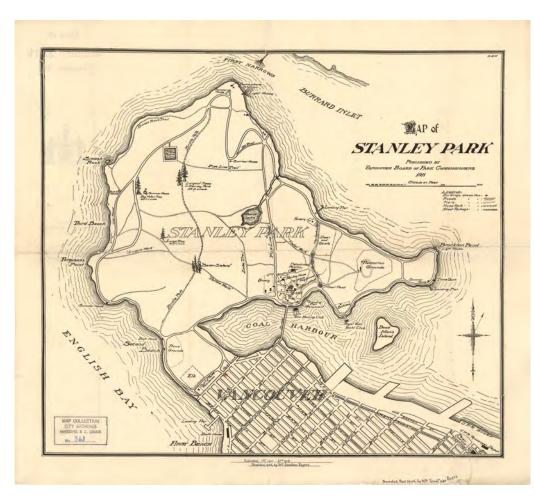


Vancouver in 1898. From an Old Lithograph.

CANADA- LARGE PARKS

1870 - 1900 Major parks acquired in most major cities

Stanley Park, Vancouver established 1887 (incremental development)



Stanley Park, 1916, source: City of Vancouver Archives

HASTINGS PARK Acquired by the City in 1889



Renfrew Creek in Hastings Park - Early 1900s

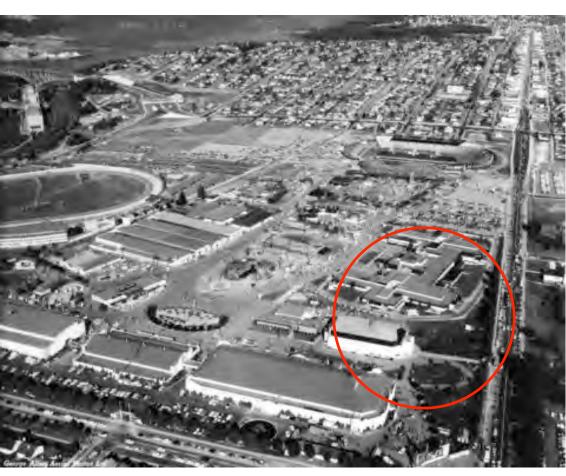


Plan 1915

HASTINGS PARK 1960



Plan 1915



Looking northeast 1960

Sources: City of Vancouver Archives,

Hastings Park Masterplan

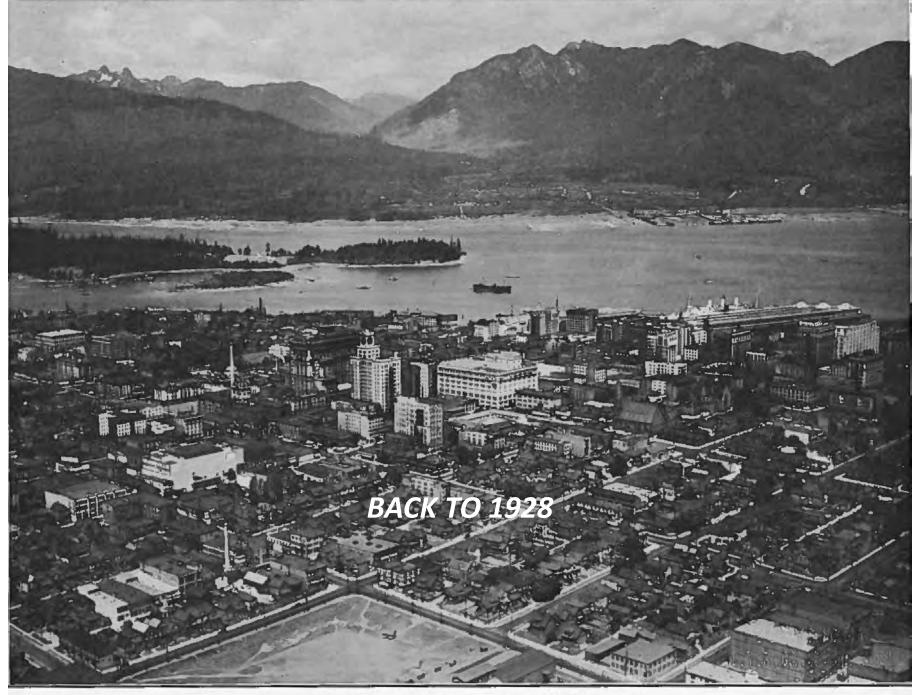


HASTINGS PARK 2018 returning to early visions....



The sanctuary in Hastings Park (PFS Studio)

Sources: Hastings Park Masterplan 2011, Friends of Hastings Park



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VANCOUVER, BRITISH COLUMBIA

A PLAN FOR THE CITY OF VANCOUVER 1928

Harland Bartholomew Associates, Planners and Engineers prepared for the Vancouver Town Planning Commission

"It will be noted that no mention has been made of any human foresight having been exercised in the control or direction of the growth of this British Columbia metropolis. Its history is that of Topsy, it just growed.

...

It is only within the last four or five years that people began to strive to form an idea of Vancouver as a unit to study the layout of the city with the intention of forming an opinion of whether the structure is fitted to adequately carry out the function of a metropolitan centre."

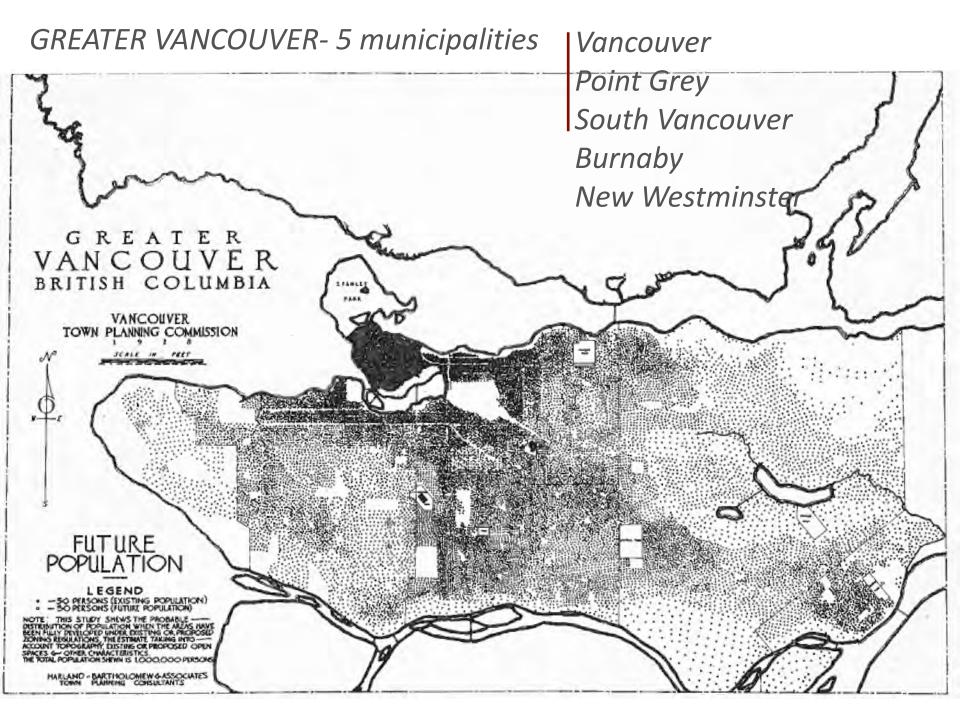
VANCOUVER- 1928 Harland Bartholomew Plan

TOPICS IN PLAN

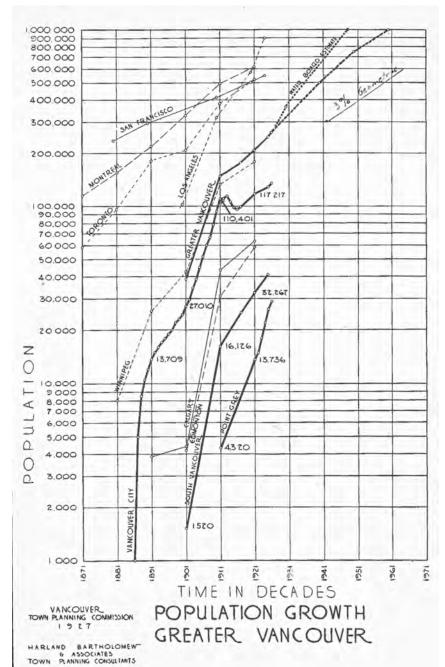
- street network
- public transportation
- rail (goods) network
- public recreation
- zoning
- civic art

PUBLIC RECREATION

- playgrounds
- public schools
- parks
- beach and shore
- pleasure drives
- swimming polls
- mountain parks



VANCOUVER 1928



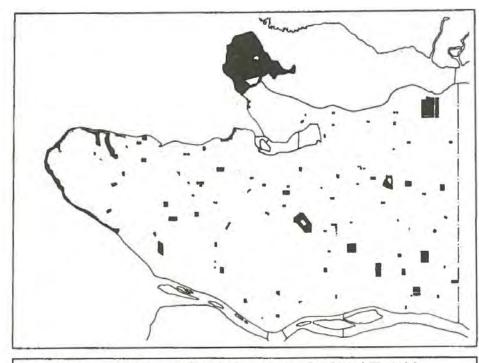
1961 1,000,000 Vancouver + Burnaby

1927 ~ 189,484 18,850 % increase Vancouver + South Vancouver + Point Grey 2016 833,218 Vancouver + Burnaby

2016 610,000 220 % increase Vancouver

1885 ~1000

PUBLIC RECREATION



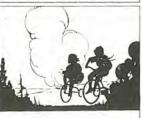
PUBLIC AREAS AVAILABLE FOR RECREATION

"Parks and playgrounds and other facilities for public recreation are today considered indispensable in the makeup of a great city."

1928 Harland Bartholomew Plan

CLASSIFICATION & POPULATION

FACILITIES WHICH SHOULD BE AVAILABLE



HOME GROUNDS
INTERIOR BLOCK PLAYGROUNDS
NEARBY CHILDREN'S PLAYGROUNDS
& KINDERGARTENS
DRIVES
PROMENADES
IN PARKS

SMALL CHILDREN



SCHOOL CHILDREN

HOME GROUNDS INTERIOR BLOCK PLAYGROUNDS PLAY AREAS IN PARKS SWIMMING POOLS BATHING BEACHES

BOY & GIRL SCOUT CAMPS SCHOOL PLAYGROUNDS PLAYFIELDS FOR ATHLETICS COMMUNITY CENTERS OUTLYING NATURALISTIC PARKS



YOUTH



ADULTS

PLAYFIELDS SWIMMING POOLS BATHING BEACHES

NEIGHBORHOOD PARKS LARGE PARKS COMMUNITY CENTERS PLEASURE DRIVES

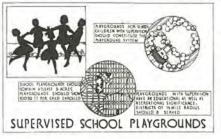
HARLAND BARTHOLOMEW

CLASSIFICATION POPULATION & RECREATION FACILITIES

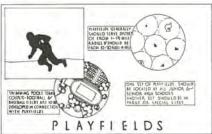
PUBLIC RECREATION PERSPECTIVE: What facilities and spaces do people need?

















BARTHOLOMEW & ASSOCIATES

TYPES OF RECREATION FACILITIES



STANDARDS:

Playgrounds:

Preschool- small lots on each block School age- schoolyards 100 sq ft playground/student (1 yard 8,000-12,000 people)

Playfields:

Affiliated with high schools

Neighbourhood parks:

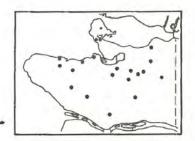
20 acres minimum 2500 families

1/2 mile walking distance

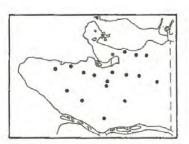
Community centres:

Indoor recreation
One in every neighbourhood

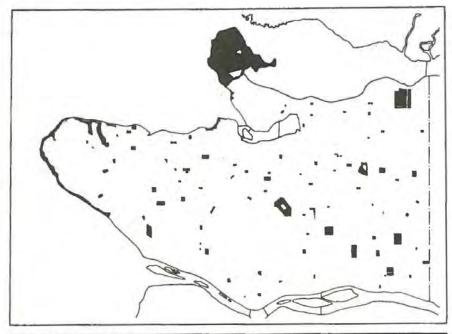
VANCOUVER Existing parks and facilities



TENNIS COURTS



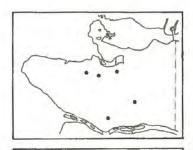
FOOTBALL FIELDS



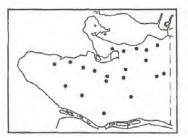
PUBLIC AREAS AVAILABLE FOR RECREATION



BATHING BEACHES



CRICKET GROUNDS

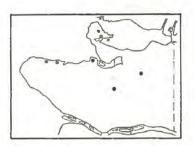


BASEBALL FIELDS

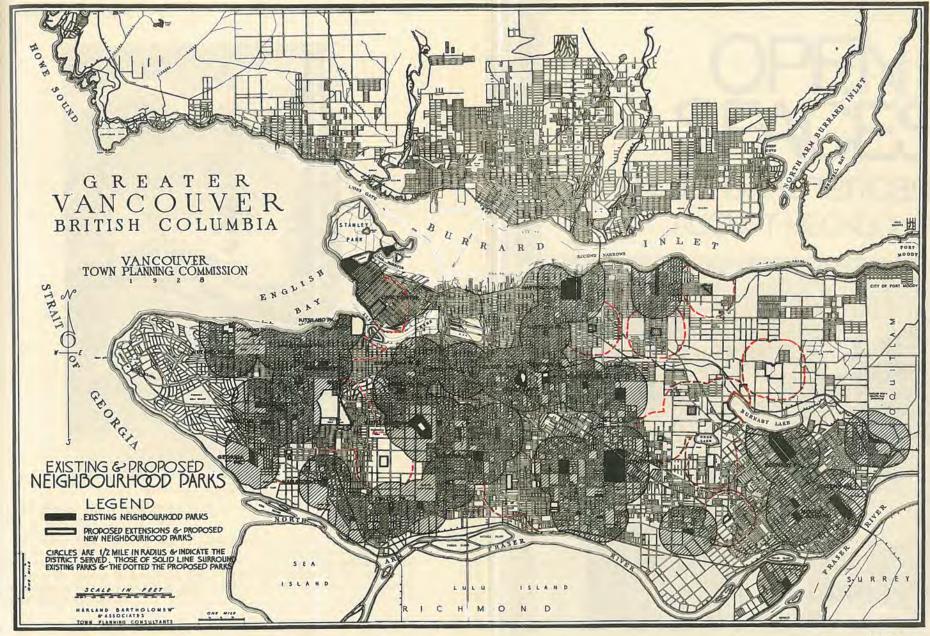
EXISTING RECREATION FACILITIES VANCOUVER B.C. 1928

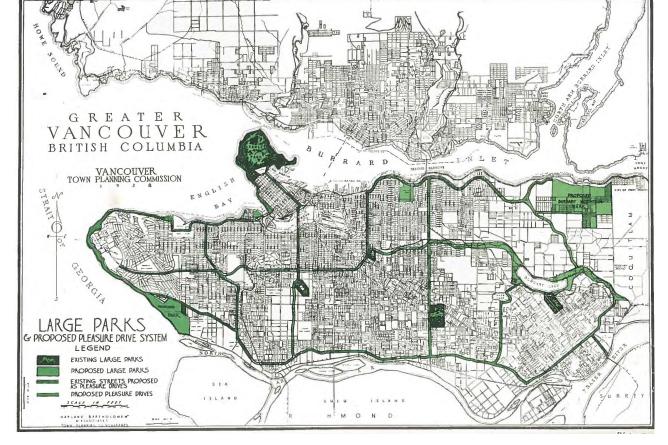
VANCOUVER TOWN PLANNING COMMISSION HARLAND BARTHOLOMEW

ASSOCIATES
TOWN PLANNING CONSULTANTS



PICNIC GROUNDS





Large Parks:

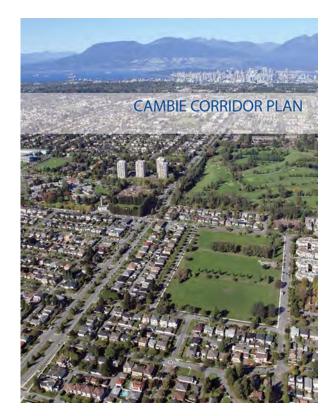
- preserve all types of native landscape
- each with a distinct feature (golf course, botanical garden...)

Pleasure drives:

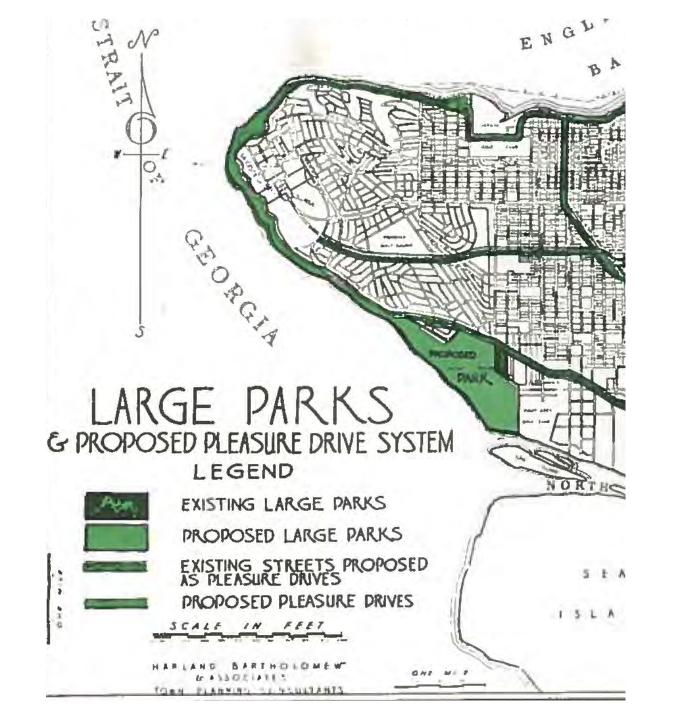
- boulevards connecting all large parks
- some may follow topography

PLEASURE DRIVE —> Heritage Landscape

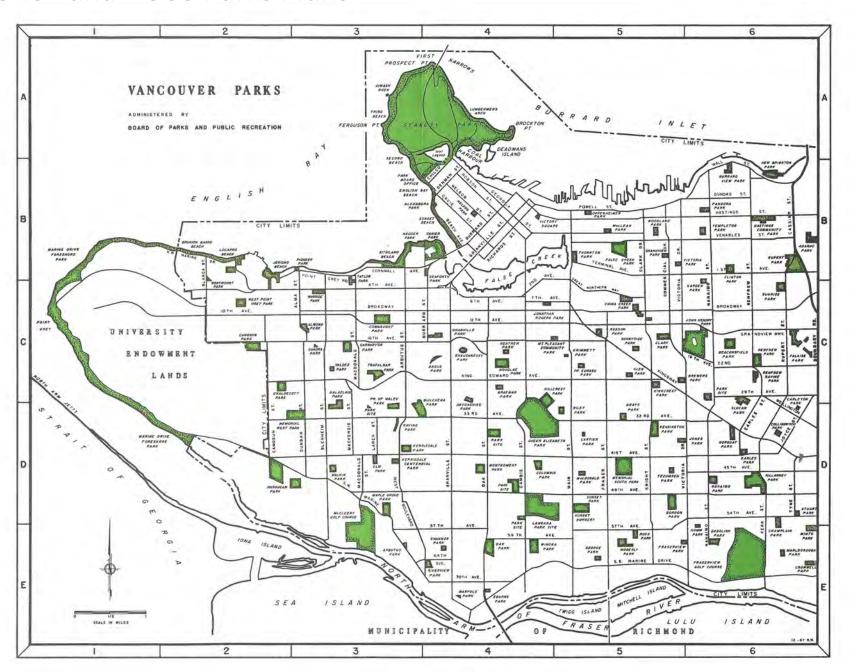
1993 designated a heritage landscape by City of Vancouver







1946 and 1960 Parks Plans



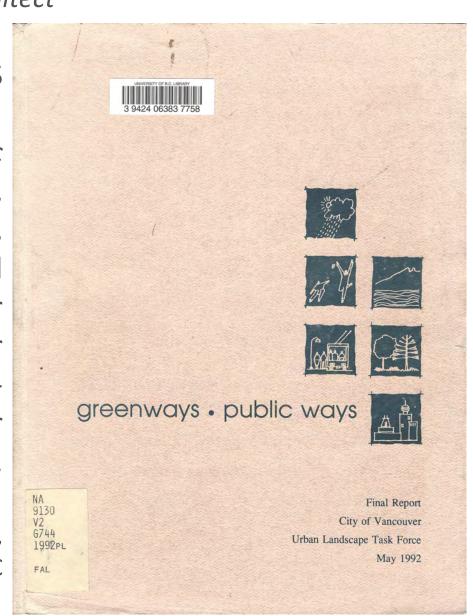
1982 PARKS MASTERPLAN LINESCAPE ARCHITECTURE READON ROOM BURRARP INLET **Master Plan** ENGLISH BAY UNIVERSITY OF IONA HLAND TRAIT OF GEORGIA SEA ISLAND TWIGG ISLAND LULU ISLAND FRASER RVER KICHWOND

1992 URBAN LANDSCAPE TASK FORCE CHAIR: Moura Quayle, Landscape Architect

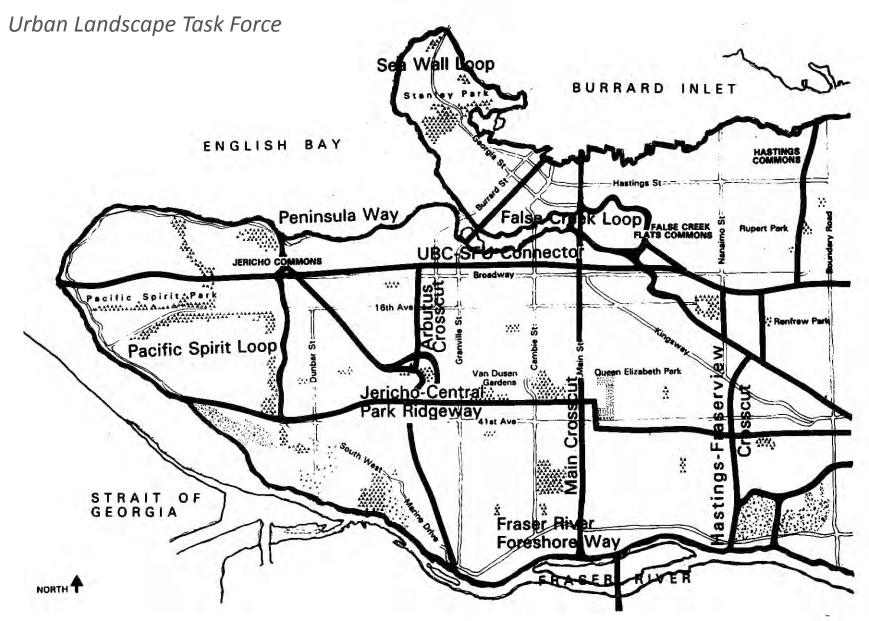
URBAN GREENWAYS

A greenway is a linear public corridor that connects parks, nature reserves, cultural features, historic sites neighbourhoods and retail areas often along either natural corridors like rivers or ocean fronts or along rail rights-ofway or streets shared for transportation use.

Quayle, Greenways Public Ways 1992, Vancouver BC



ESTABLISH URBAN GREENWAYS



Source: Quayle (1995) Urban greenways and public ways, Landscape & Urban Planning 33

1992 URBAN LANDSCAPE TASK FORCE

RECOMMENDATIONS (select)

- Establish urban greenways
 - Celebrate legacies
- Prepare a public realm plan
 - Develop a street strategy
- Undertake a landscape inventory
- Prepare an ecological management plan
 - Ecological performance standards
 - Promote the urban forest
 - Cultivate the city of gardens
 - Urban villages

PUBLIC REALM PLAN

- Use an accessible public process
- Urban landscape inventory biophysical and cultural
- A greenway plan √
- An ecological management plan √
- A public realm programming strategy (expand beyond recreation to include urban agriculture and celebration spaces)
- Include streets as multi-use spaces

1992 URBAN LANDSCAPE TASK FORCE

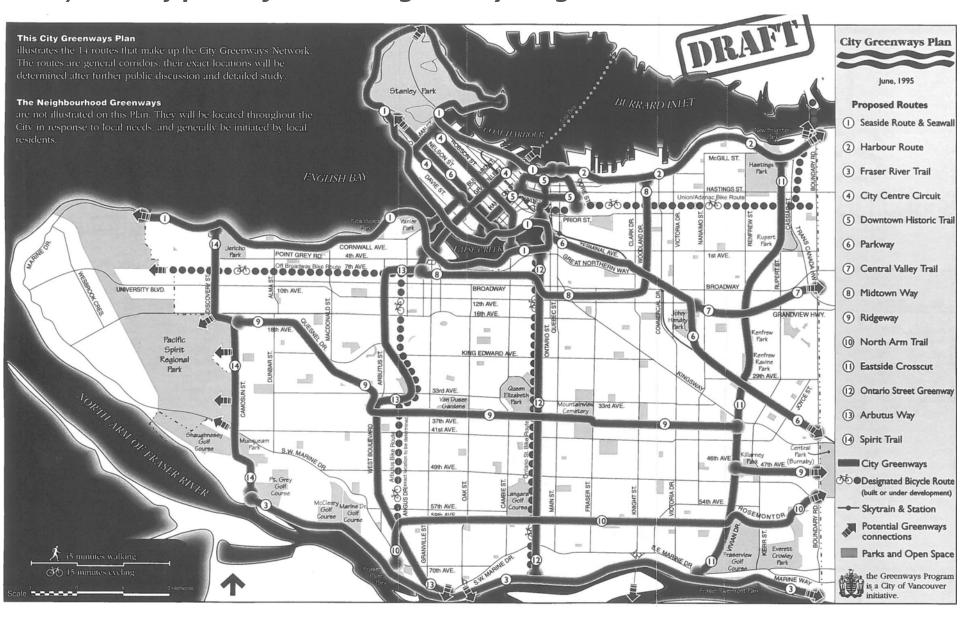
RECOMMENDATIONS (select)

- Establish urban greenways
 - Celebrate legacies
- Prepare a public realm plan
- Reclaim local streets for bicycles
- Undertake a landscape inventory
- Prepare an ecological management plan
 - Ecological performance standards
 - Promote the urban forest
 - Cultivate the city of gardens
 - Urban villages

'ESTABLISH URBAN GREENWAYS

- Expand the existing waterfront greenway system √
- Establish the Grandview Cut as a ecological reserve
- Establish the Arbutus Greenway √
- Establish the Hastings-Fraserview crosscut (eastside north-south greenway)
- Designate specific green street
 linkages √

City of Vancouver 1995 GREENWAYS PLAN A system of paths for walking and cycling across the



City of Vancouver 2011 GREENWAYS



VANCOUVER'S GREENEST CITY ACTION PLAN



Vancouver 2020: A Bright Green Future AKA Greenest City action plan

VANCOUVER 2020 A BRIGHT GREEN FUTURE
AN ACTION PLAN FOR BECOMING THE WORLD'S GREENEST CITY BY 2020

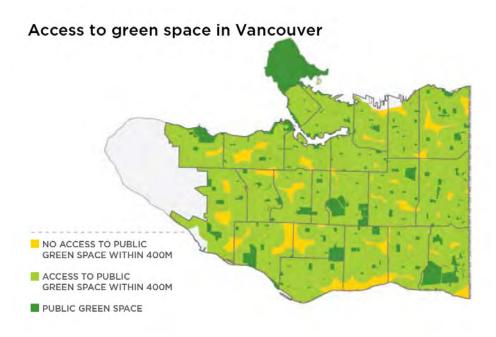


Make Vancouver the greenest city in the world by 2020

VANCOUVER'S GREENEST CITY ACTION PLAN

ONE GREEN ECONOMY & JOBS	TWO GREENER COMMUNITIES	THREE HUMAN HEALTH
World-wide mecca of green jobs	Green mobility: walking, cycling and public transit	Clean water: beat WHO standards and reduce
Eliminate dependence on	Zero waste	consumption
fossil fuels	zero waste	Clean air: beat WHO
World leadership in green building design &	Easy access to nature	guidelines
construction	Achieve a one-planet eco- footprint	Local food: global leader in urban food systems

GREENEST CITY ACTION PLAN- Access to Nature



TARGETS

All Vancouver residents will be within a 5 minute walk of a park, greenway or other green space by 2020

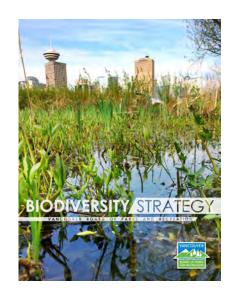
Plant 150,000 trees by 2020

VANCOUVER- GREENSPACE PLANNING TODAY

URBAN FOREST



BIODIVERSITY



GREEN INFRASTRUCTURE



PARKS & RECREATION PLANNING



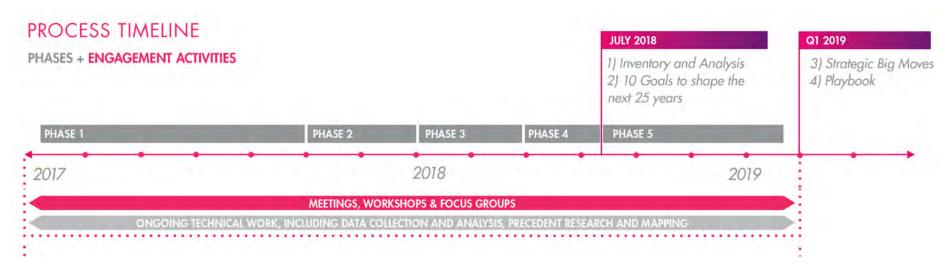
Report 1 June 2018
Inventory and Analysis

VANPLAY: VANCOUVER'S PARKS & RECREATION PLANNING



VanPlay- A 25-year plan

"will provide a road map to maximize access to high-quality parks and recreation experiences that connect people with each other, and with nature."



VANPLAY: VANCOUVER'S PARK & RECREATION PLANNING

10 GOALS:

Grow and Renew Assets

Protect Existing Parks and Spaces

SECTIONS: Prioritize Delivery of Resources

• Parks Focus on Core Responsibilities

Recreation Adapt to Climate Change

• Facilites Create a Green Network

Nature Restore Wild Spaces

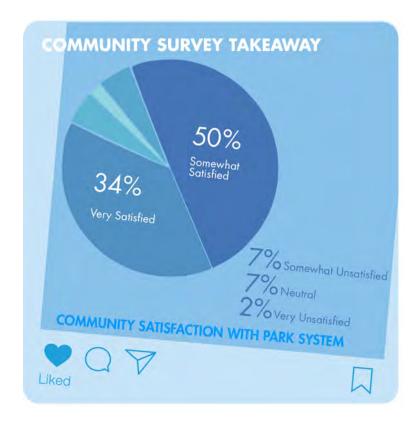
Foster Safety and Welcome

Seek Truth and Reconciliation

Secure Funding

"The parks and recreation system is increasingly under pressure from competing interests for land use and funding."

VANPLAY: PARKS

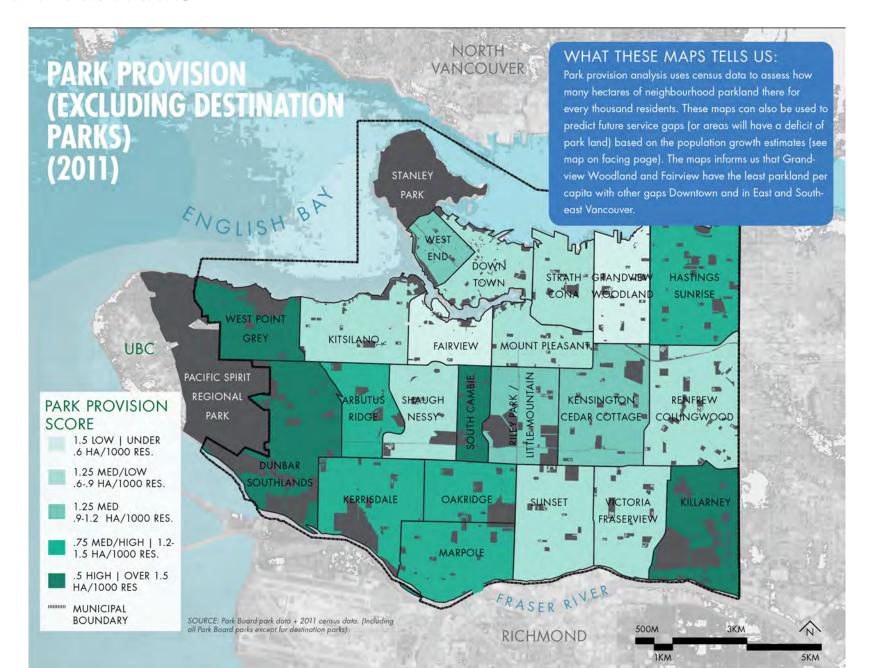


CHALLENGES:
Increased demand
Deferred maintenance
Varying needs across communities
Deteriorating biodiversity
Climate change
Sea level rise
High demand for public land

Loss of solar access

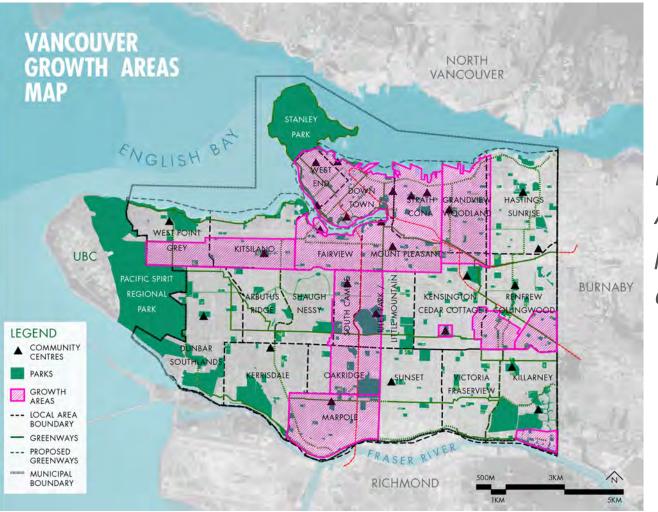
84% satisfied
49% prioritize need to improve parks— equity, inclusion, access, affordability, maintenance

VANPLAY: PARKS



VANPLAY: PARKS





INCREASING DEMAND
As population grows
parkland per person
decreases

EMERGING QUESTIONS

MORE WILD SPACES: Where can we create more wild spaces in the city? How can we balance need for wild, less curated spaces with needs for other outdoor recreation amenities?

ECOLOGICAL HEALTH: In a growing city how can we support ecological health? Can green infrastructure improve water quality and ecological health while managing the city's stormwater?

can we best support Vancouverites to be stewards of our natural spaces? How do we diversify the types of landscapes in our parks to bring more nature into Vancouver's neighbourhoods?

PRIORITIES FOR ACTION Throughout all the community engagement to date, the most commonly cited opportunities and big ideas were on the topics of:

- Access to nature
- Wild spaces
- Biodiversity
- Wildlife





SIZE: 1,639 ha

ASSETS: Large Marine Animals + Fish Habitat | Migratory Routes | Trade Routes | Views

THREATS: Acidification | Contamination | Rising Water Temperatures [

JURISDICTION: Federal + Provincial Government

HABITAT STATUS: Stable

SIZE: 246 ha

ASSETS: Resident + Migratory Birds | Forage Fish | Wave Mitigation Tidal Pools | Beaches | Recreation Space | Views

THREATS: Acidification | Contamination | Rising Water Temperatures | Sea Level Rise

JURISDICTION: Park Board, Port Authority

> HABITAT STATUS: Declining

SIZE: 2,069 ha (urban forest); 713 ha (habitat)

ASSETS: Coastal Temperate Rainforest | Record Trees | Native Species | Connection to

THREATS: Hotter, Longer Summers | High-intensity Storms | Invasive Plants + Insects

JURISDICTION: Park

Board, CoV, Private HABITAT STATUS: Stable

SIZE: 49 ha

ASSETS: Freshwater Wetlands + Water Bodies | Nursery Areas Amphibian Habitat | Connection to Nature

THREATS: Invasive Species | Buried Streams Contamination |

Eutrophication

JURISDICTION: Park

RECREATIONAL SIZE: 1,525 ha

ASSETS: Recreation Space | Meadow / Pollinator Habitat | Detention Areas Green Infrastructure

THREATS: Low Biodiversity Overuse | Development Contamination | Rising emperatures | Chafer Beetle | Dog Waste

JURISDICTION: Park

Board

HABITAT STATUS: Rore but HABITAT STATUS: Stable

SIZE: 2,286 ha

ASSETS: Green Roofs, Strata Parks + POPS | Green Infrastructure Unconventional Open Space | Views

THREATS: Heat Island Effect | Contamination | Severe Storms | Human mpacts

JURISDICTION: CoV

HABITAT STATUS:

Human Impacts JURISDICTION: CoV. community partners

SIZE: unknown

ASSETS: Fringe Habitat

| Wildlife Corridors |

nformal Recreation |

Biodiversity | Urban

THREATS: Invasive Species

Development | Overuse

SIZE: 102 ha

ASSETS: Biodiversity | Bird + Pollingtor Habitat | Connection to Nature | Urban Forest

THREATS: Invasive Specie Hotter, Dryer Summers Overuse | Maintenance

SIZE: 6,180 ha

ASSETS: Stormwater

THREATS: Development | Human Impacts | Invasive Species | Contamination

JURISDICTION: Park JURISDICTION: CoV

HABITAT STATUS: Stable

SIZE: 642 ha

ASSETS: Fringe Habitat Infrastructure | Wildlife | Wildlife Corridors | Corridors + Habitat | Bird and Small Mammal Pervious Paving | Urban Habitat

> THREATS: Development | Sea Level Rise | Contamination | Urban Heat Island Effect

> > HABITAT STATUS:

Declining

JURISDICTION: CoV. Metro Vancouver

HABITAT STATUS:

SIZE: Outside City

ASSETS: Freshwater Habitat | Migratory Routes | Trade Routes

THREATS: Eutrophication Contamination | Rising Water Temperatures Sea Level Rise

JURISDICTION: Port Authority, Federal + Provincial Government

HABITAT STATUS: Stable HABITAT STATUS:

Provincial Government INVENTORY & ANALYSIS - JULY 2016 | 189

JURISDICTION: CoV.

Musqueam First Nations,

SIZE: Outside City

Rising Water

Habitat.

ASSETS: Nursery Areas

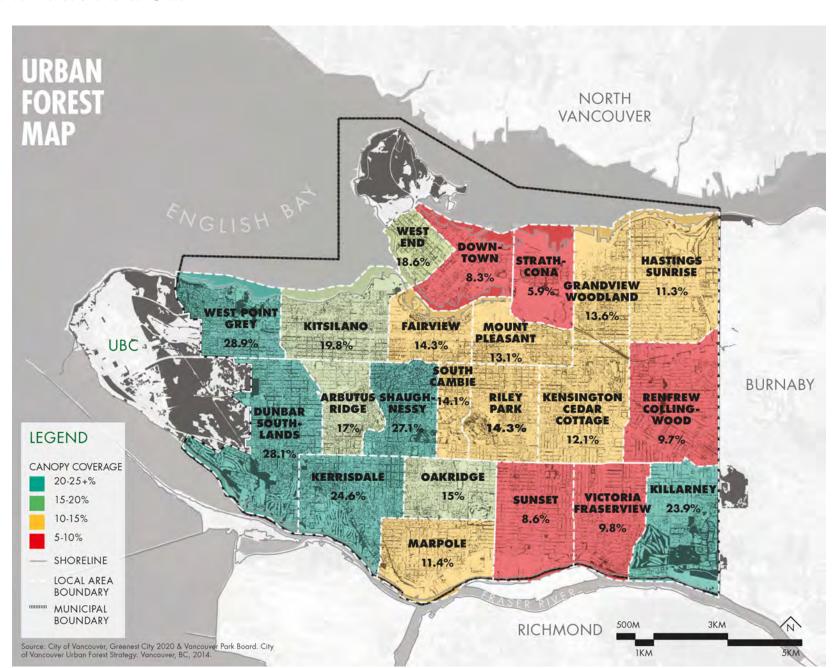
| Brackish Habitat | Bird

THREATS: Contamination

Temperatures | Sea Level

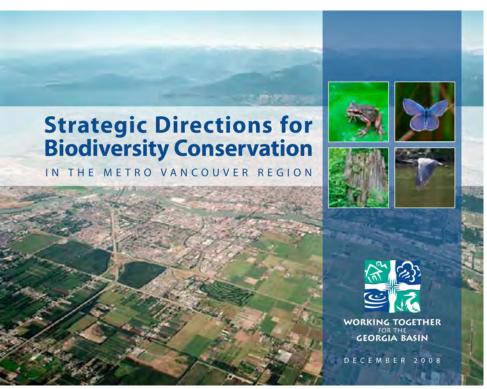
HABITAT STATUS:

Declining

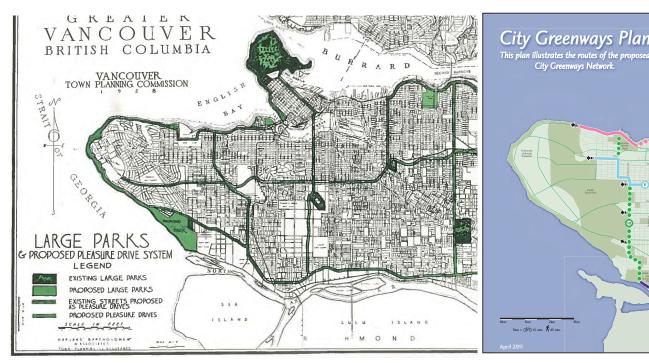


REGIONAL GREENSPACE PLANNING February 13, Jeffrey Fitzpatrick



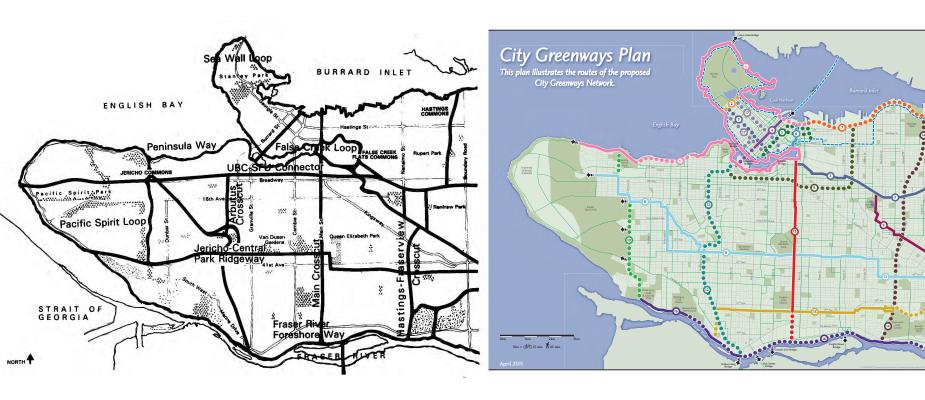


City of Vancouver 1995 GREENWAYS PLAN





City of Vancouver 1995 GREENWAYS PLAN



VANCOUVER- 90 YEARS OF PARKS AND GREEN NETWORK PLANNING

Resilient concepts and structure

- Public parks are resilient
- Green networks idea resilient— functions change
 (from pleasure drives to green networks for walking and cycling
 to ecological connections)
- Park and urban forest distribution remains inequitable
- Massive "win" Pacific Spirit Regional Park
- 10 minute walk to parks became 5 minute walk to nature
- Parks added with time and population

Q.—Is there a tipping point in the population v. greenspace challenge?

QUESTIONS? COMMENTS?

....PROJECT 1

WEDNESDAY CLASS January 16



GALLERY STYLE REVIEW PRINT YOUR PROJECTS!

All projects will be put up on the wall.

LOCATION: Landscape Architecture Annex Jury Room. 2371 Main Mall

AGENDA:

9:30 am - all projects will be tacked to a panel.

9:30 to 10:30 am Groups will be assigned two other groups to "review" projects with.

10:30 Some teams will be asked to present their solutions to everyone.