

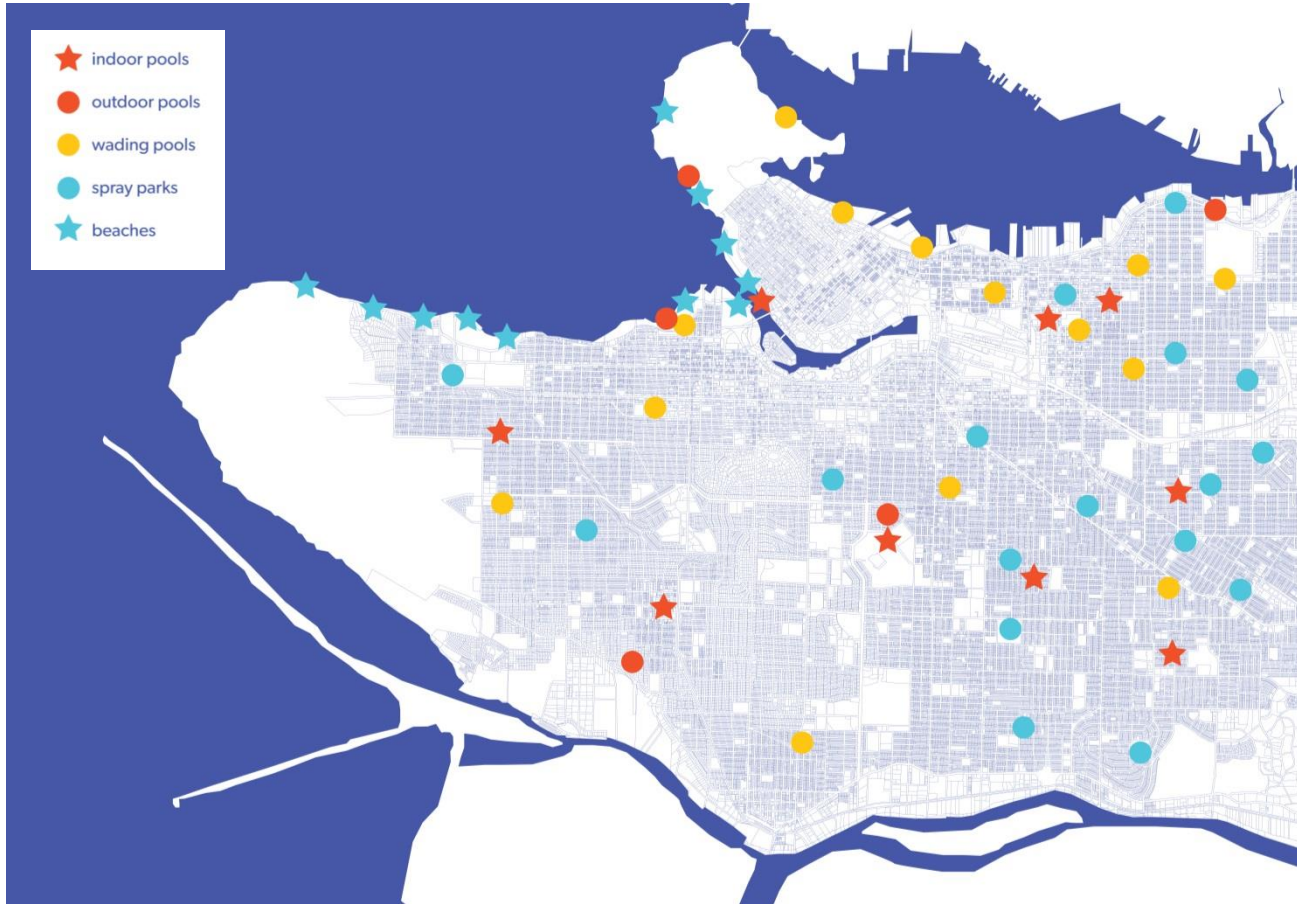
# VanSplash (Aquatic Strategy) Phase 1 Findings

Park Board Committee Meeting  
February 6, 2017



The purpose of the presentation is to provide the Board with an informational summary of key findings from Phase 1 of VanSplash (Aquatic Strategy).

- Context
- Strategy Objectives and Progress
- Phase 1 Consultation Findings Summary
- Current State Analysis Highlights
- Precedent Study Highlights
- Next Steps



in  
door

out  
door

spray +  
wading

beaches

inno  
vation

# Context



in  
door

out  
door

spray +  
wading

beaches

inno  
vation

# Context

in  
door

out  
door

spray +  
wading

beaches

inno  
vation





in  
door

out  
door

**spray +  
wading**

beaches

inno  
vation



in  
door

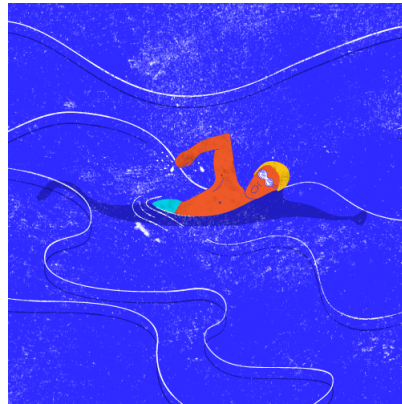
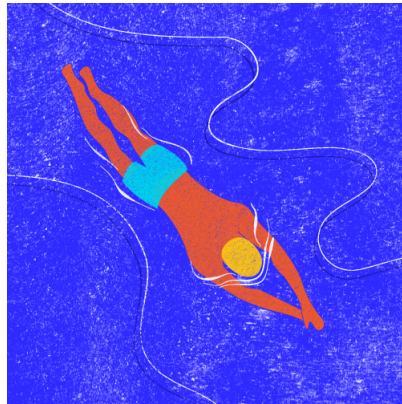
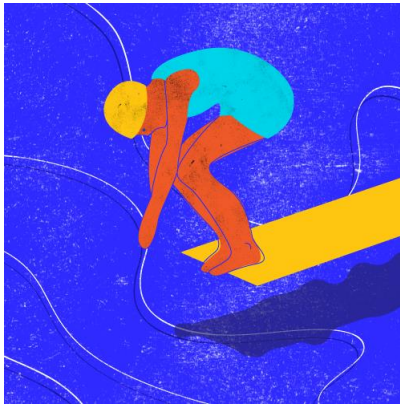
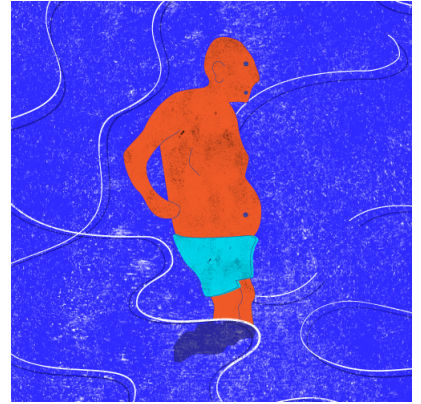
out  
door

spray +  
wading

**beaches**

inno  
vation



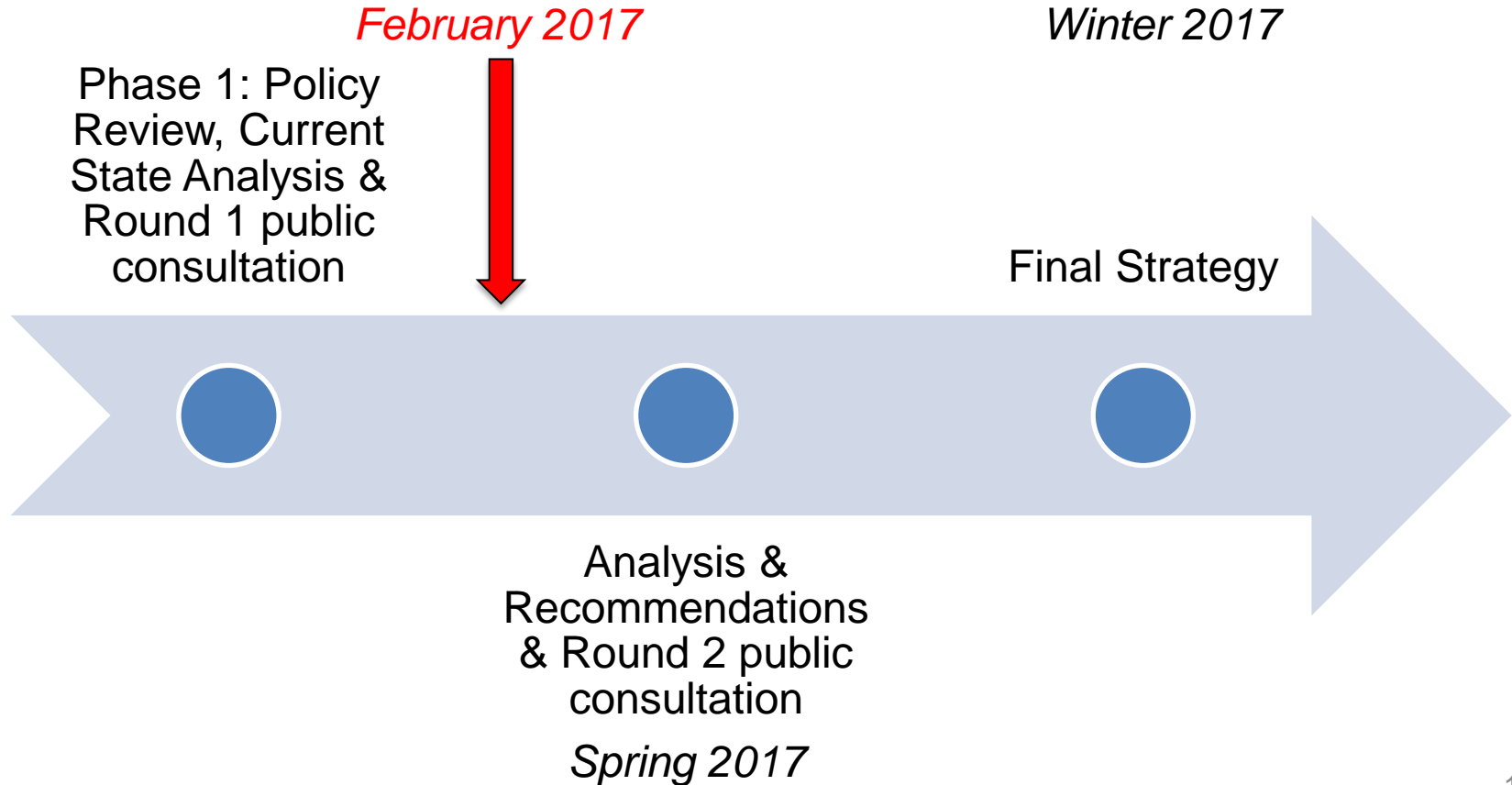


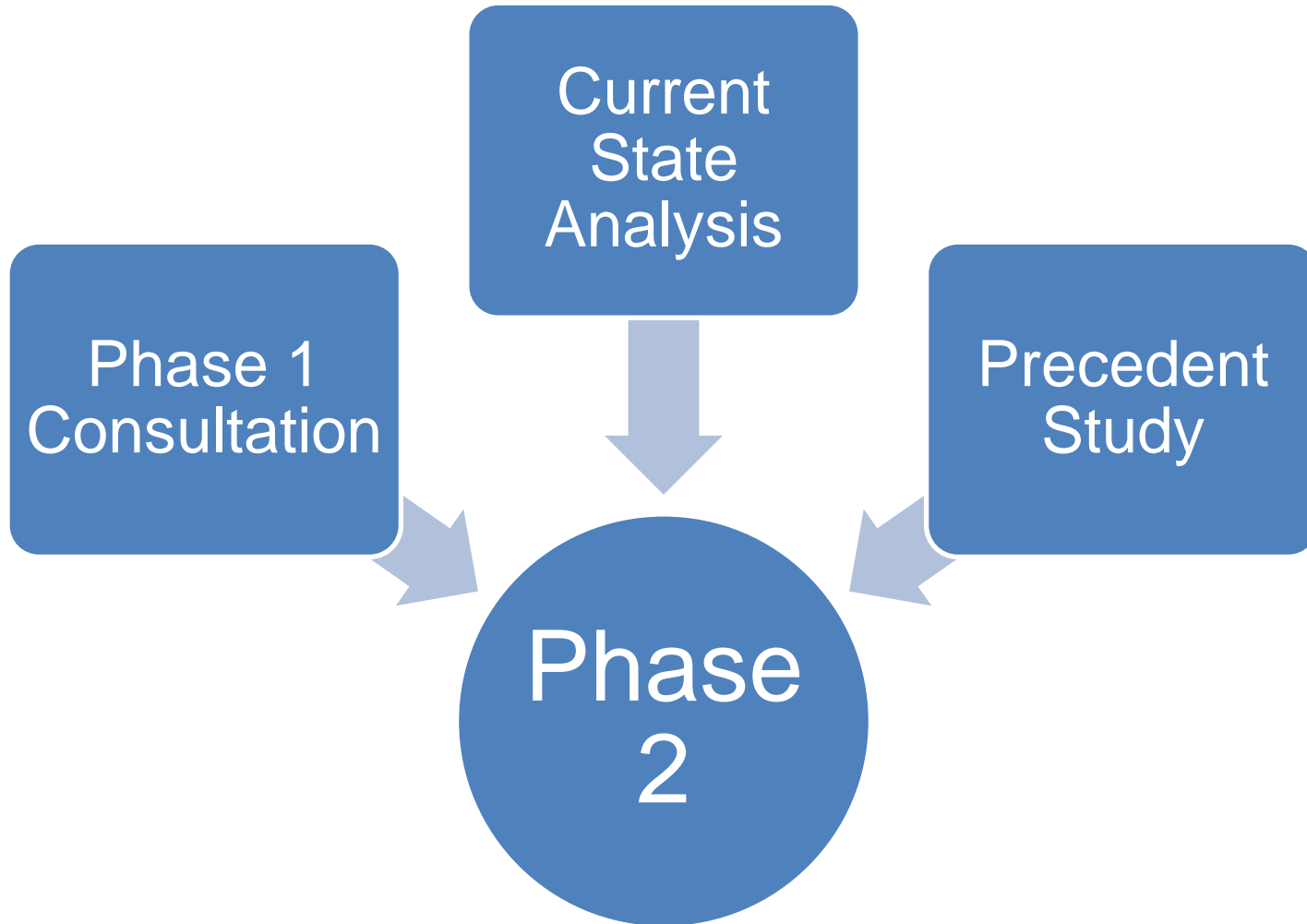
- Reviews condition, effectiveness and performance of current system.
- Considers aquatic services within a 25 year time-frame (accounting for anticipated population growth).
- Validates optimum city-wide service levels and delivery, including metrics.

- Establishes a timeline for renewal and replacement of existing facilities (indoor and outdoor).
- Assesses the feasibility and recommends the location of a new outdoor pool.
- Provides a 10 year Implementation Plan.

- Broadens the definition of aquatics to include beaches.
- Explores recommendations for new and innovative directions, and the idea of water as only one component of the destination.
- Seeks to:
  - enhance social inclusion
  - support community and personal well-being

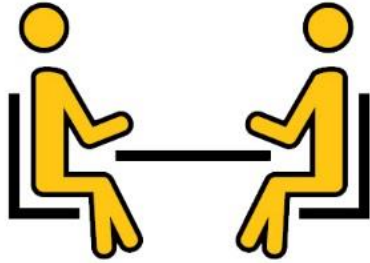
# Strategy Objectives and Progress - Schedule







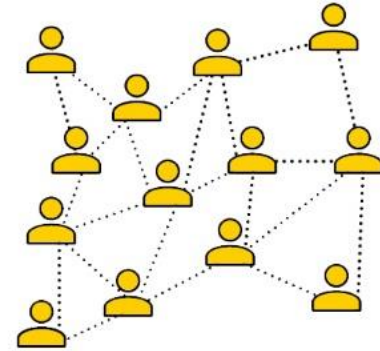
## Phase 1 Public Engagement



**1. Solicit feedback**  
on key functional  
issues and priorities  
related to the existing  
and potential future  
amenities



**2. Create awareness**  
of the project and the  
issues surrounding  
the renewal.



**3. Create a shared  
understanding**  
of the different  
community's needs,  
desires and vision.

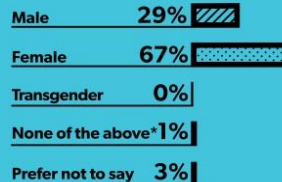


- 2 open house events: **375**
- Online and hard copy survey: **4556**
- Translated Chinese language hard copy survey: **60**
- Comments received via email: **45**
- Stakeholder workshops: **5**

**4556** survey responses were received.

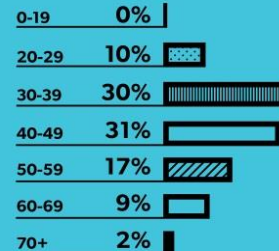
## Demographics profile of survey respondents

### GENDER

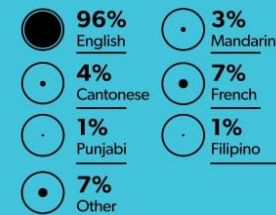


\*respondents identified as non-binary, gender queer, gender neutral, two-spirit, androgynous, and gender fluid.

### AGE



### PRIMARY LANGUAGES AT HOME



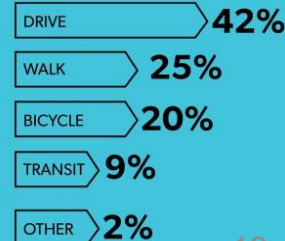
### AREA OF RESIDENCY

#### OUTSIDE

• 7% Outside Vancouver



### MODE OF TRANSPORTATION



### HOUSEHOLD MAKEUP

**37%**

**HAVE CHILDREN UNDER 19**

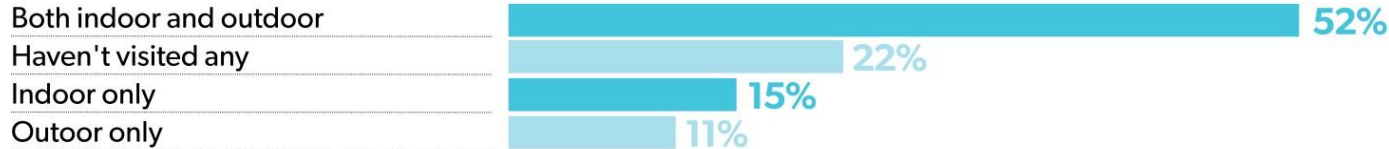


**8%**

**HAVE SOMEONE WITH DISABILITIES IN THEIR HOME**



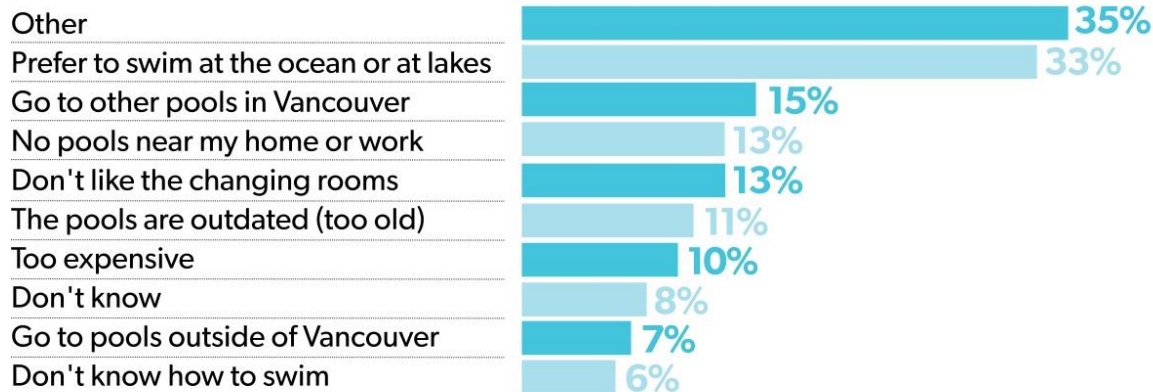
## PUBLIC POOL VISITS IN THE LAST YEAR:



in  
door

out  
door

## WHY DO YOU NOT VISIT?



spray +  
wading

beaches

inno  
vation

## PARTICIPATION IN THE LAST YEAR:



in  
door

out  
door

## PRIMARY POOL USE BREAKDOWN BY AGE

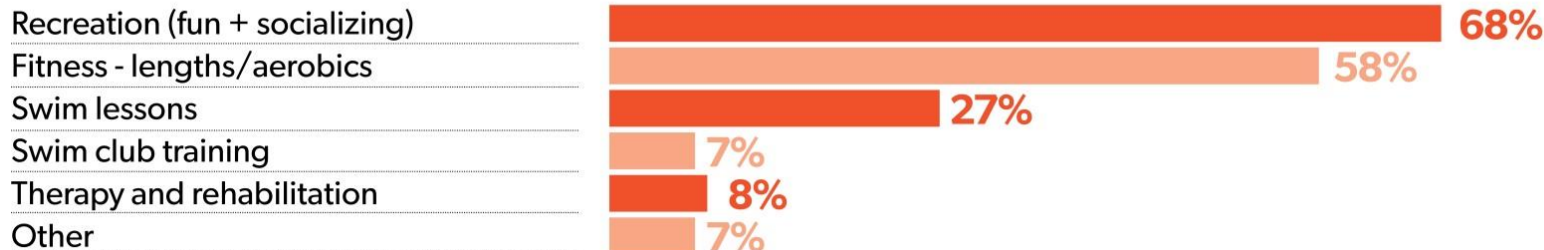


spray +  
wading

beaches

inno  
vation

## MAIN ACTIVITIES VISITORS PARTAKE IN:



in  
door

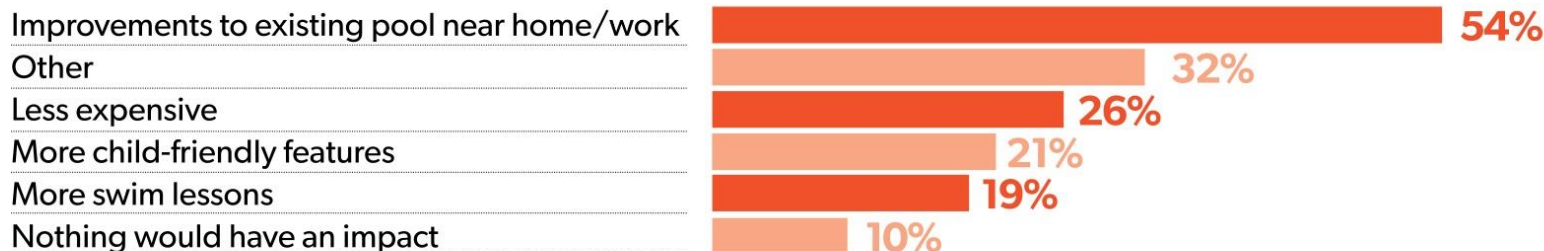
out  
door

spray +  
wading

beaches

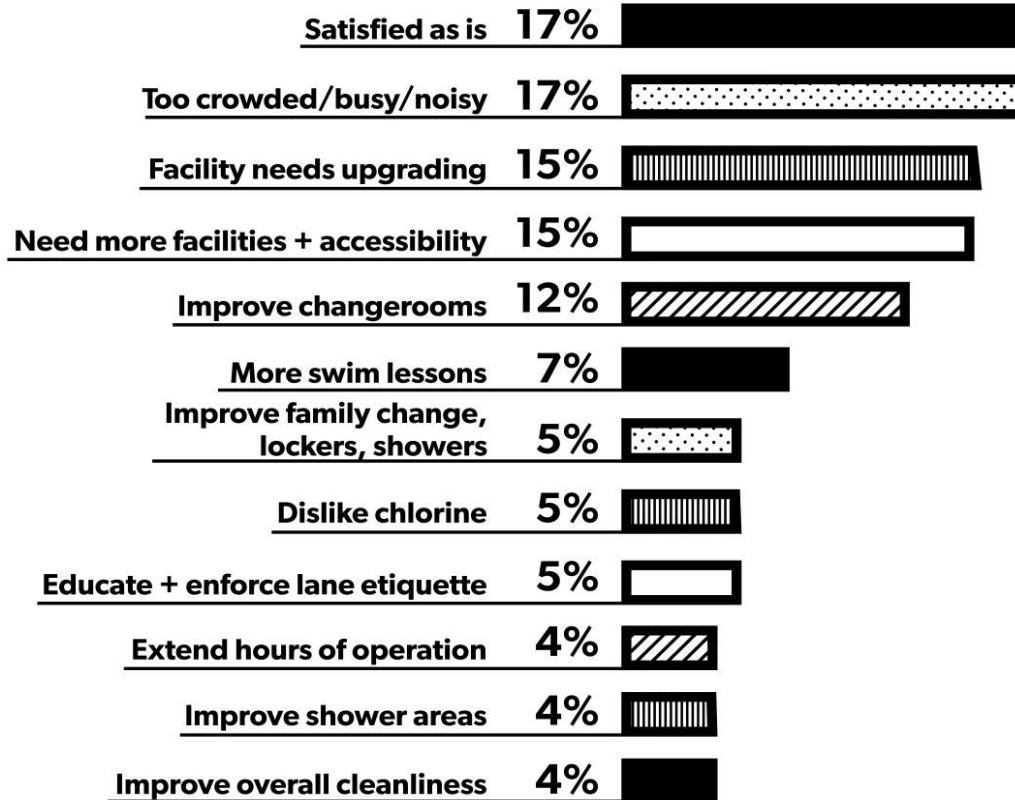
inno  
vation

## PRIORITIES TO ENCOURAGE VISITS:



# Phase 1 Public Survey: Indoor Pools

## Open ended comments received:



in  
door

out  
door

spray +  
wading

beaches

inno  
vation

## PARTICIPATION (IN THE PAST SUMMER)



### Most popular activities at outdoor pools:

Recreation: Fun + Socializing

80%



Fitness: Lengths + Aerobics

49%



Swim Lessons

5%



Swim Club Training

4%



Physical Therapy

4%



in  
door

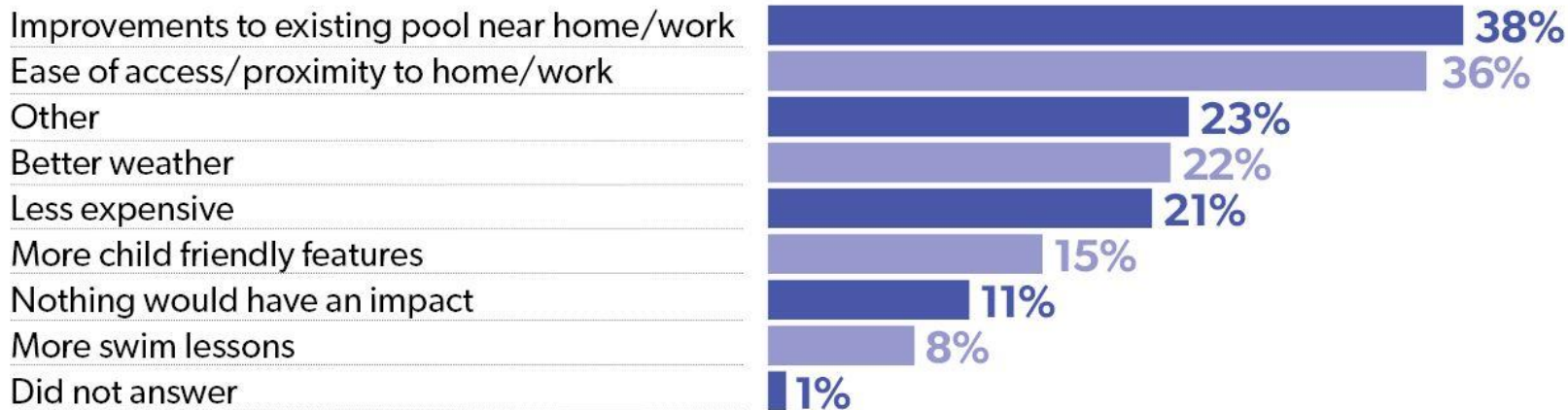
out  
door

spray +  
wading

beaches

inno  
vation

## PRIORITIES TO ENCOURAGE VISITS:



in  
door

out  
door

spray +  
wading

beaches

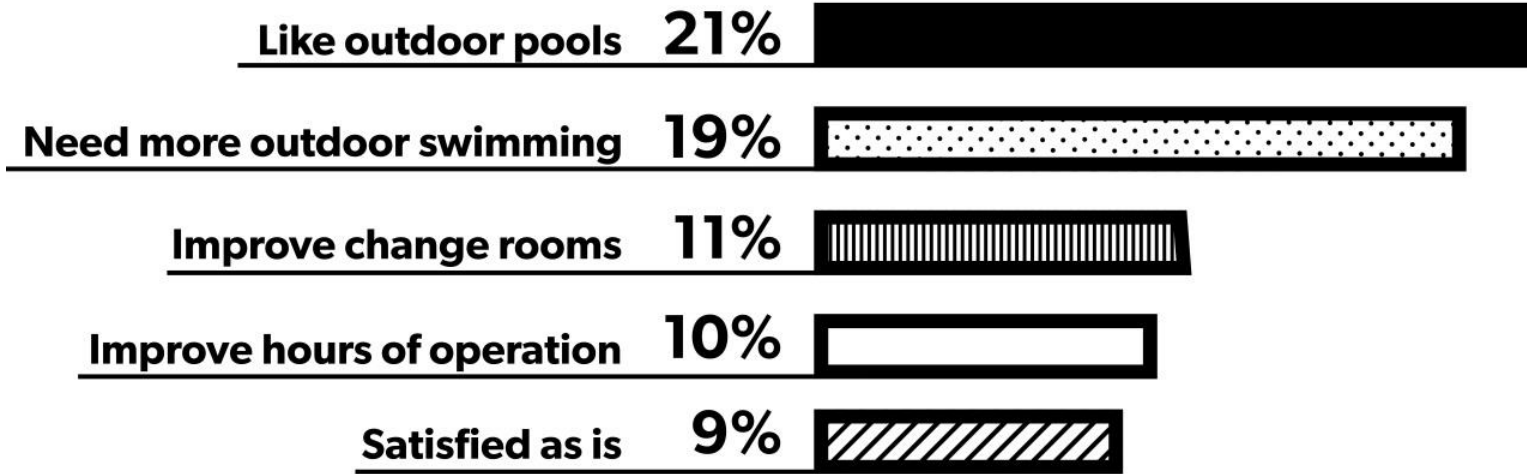
inno  
vation



# Phase 1 Public Survey: Outdoor Pools



Open ended comments received:



in  
door

out  
door

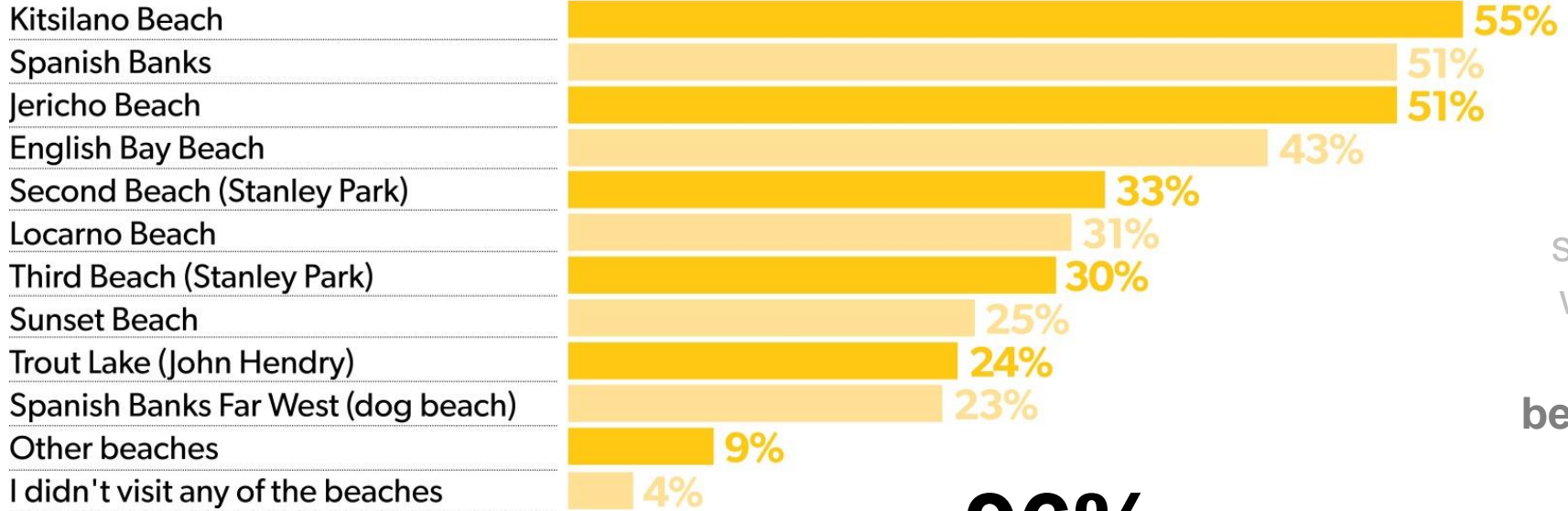
spray +  
wading

beaches

inno  
vation

# Phase 1 Public Survey: Beaches

## MOST POPULAR BEACHES:



**96%** of respondents listed a favourite beach

in door

out door

spray + wading

beaches

innovation

80% of respondents visit beaches with the primary goal of **RELAXATION**

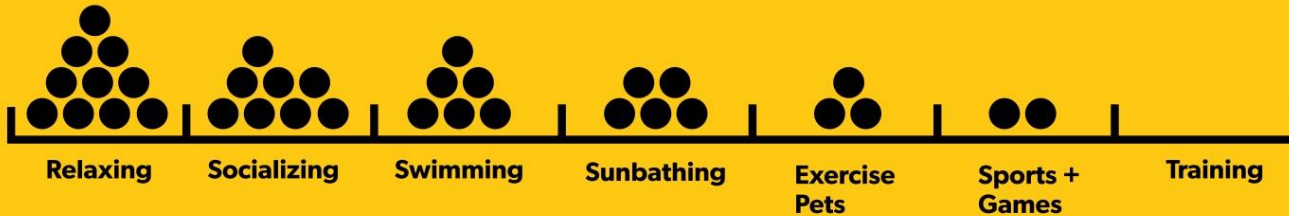
8% of respondents **WANT ALCOHOL** to be allowed on beaches

69% of respondents between ages 20 - 29 visit **KITSILANO** beach in the summer

4% of respondents **DON'T WANT ALCOHOL** to be allowed on beaches

## MOST RECOMMENDED BEACH IMPROVEMENTS

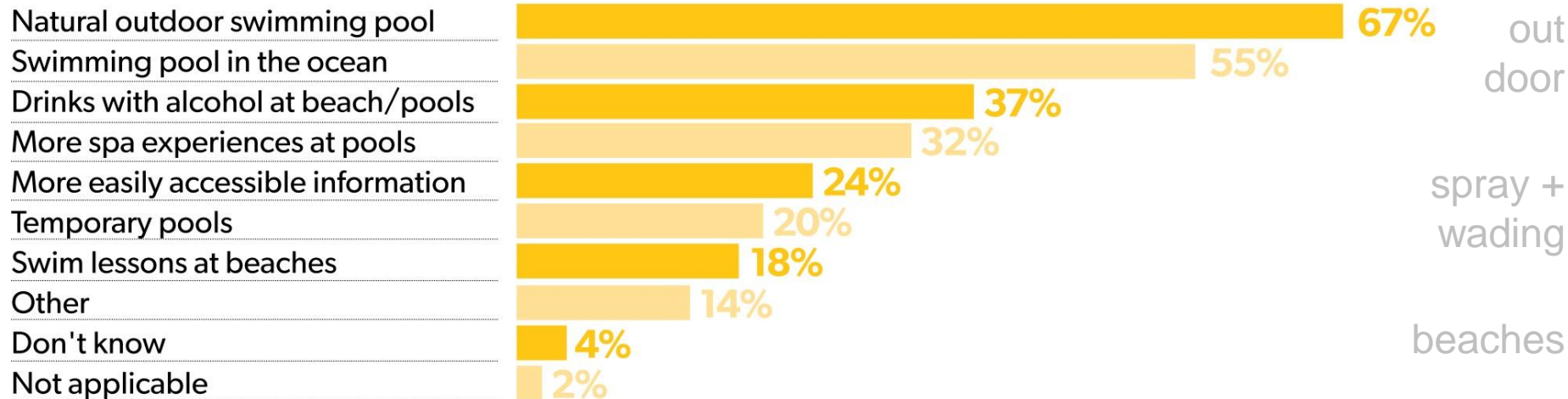
- 45% More shaded areas
- 37% Alcohol allowed on beach + sold at concession stands
- 33% Less garbage on beach
- 27% More signage (e.g. water quality + temperature)



## MOST POPULAR BEACH ACTIVITIES!

in door  
out door  
spray + wading  
beaches  
innovation

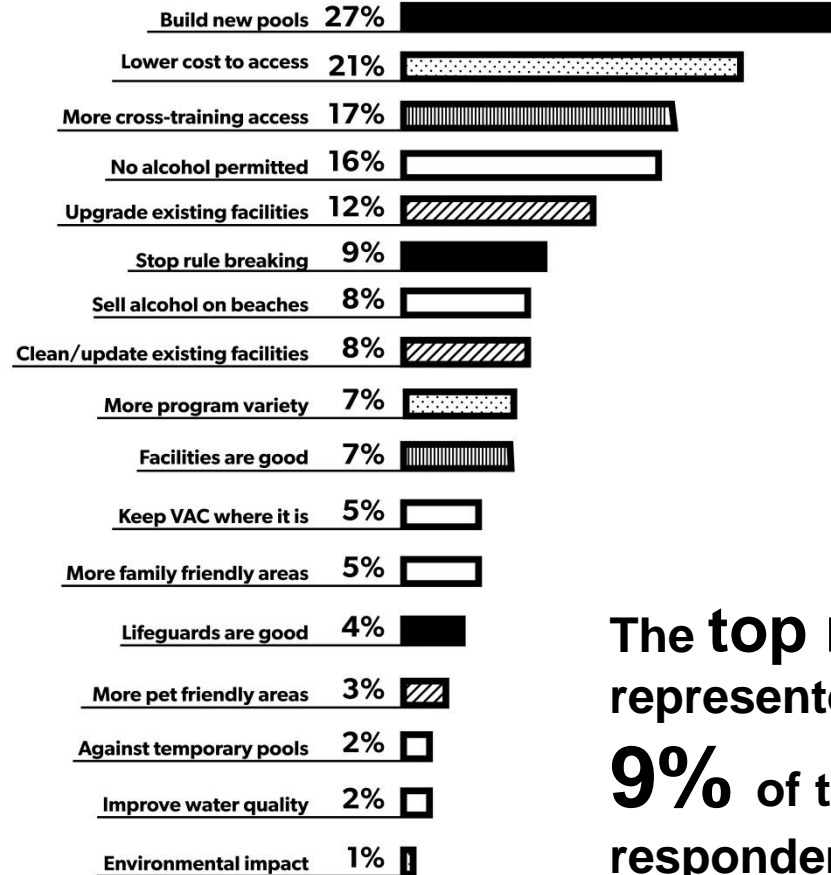
## MOST POPULAR FUTURE INNOVATIVE EXPERIENCES:



inno  
vation

# Phase 1 Public Survey: Final Comments

**1462** final  
comments were  
received (33% of  
total respondents)



The top response  
represented approx.  
**9%** of total  
respondents.

in  
door

out  
door

spray +  
wading

beaches

inno  
vation

- 5 stakeholder meetings were held.
- Over **150 groups were invited** including aquatic user groups, community centres, immigrant services, COV advisory committees, LGBTQ2 representatives, persons with disabilities and seniors.
- Representatives from over **60 groups attended.**

“What is good about the existing aquatic services in Vancouver?”

- Well trained and friendly **staff**.
- Aquatic facilities are **inclusive** to all.
- Number and proximity of facilities is considered good.
- Subsidies provide reasonable cost.

“What is not so good about the existing aquatic services in Vancouver?”

- **Access to swim lessons.**
- **Aging facilities and over crowding** at some pools.
- **Not enough competitive training** pool space available.



“Can you talk about barriers to accessing aquatic services in Vancouver?”

- **Language, gender and comfort barriers** in change rooms and pools.
- **Financial barriers.**
- **Lack of inclusivity** of homeless patrons.

“What should be done differently in the future?”

- Provide **more destination pools**.
- Provide **more frequent and more diverse lessons**.
- Provide **more amenities for competitive** aquatic sports training.

- Seniors were engaged through two sessions.
- Key messages:
  - Aquatic fitness programming tailored to seniors is needed - **tiered classes for different seniors age groups.**
  - **Opportunities to socialize** before or after aquatic use.
  - Provide greater **outreach in person.**

# Current State Analysis Highlights



- Vancouver's unique aquatic context.
- Focus on a broader range of experiences.
- Broader definition of aquatic services – the idea of water as only one component of the destination.

## ■ Explored:

- Why do people swim?
- What amenities are required to meet needs?
- How are amenities accessed?
- Where are the amenities located?

why do people swim?

**Drivers of Aquatic Use**  
p. 14-15

what amenities are required to meet needs?

**Nine Categories of Aquatic Services**  
p. 16

how are amenities accessed?

**Three Modes of Pool Operation**  
p. 17

where are these amenities in the community?

**Three Geographic Levels of Pool Supply**  
p. 19

# Current State Analysis Highlights: Facility Case Study

## Killarney Community Indoor Aquatic Facility

2006

### Pools

# 25 m

6 lanes (326 m<sup>2</sup> water area)  
15 m leisure tank (260 m<sup>2</sup> water area)  
whirlpool (34 m<sup>2</sup> water area)  
1 m spring board  
3 m diving platform  
lazy river and spray features  
giant water slide  
sloped, beach-style entry

### Amenities

# \*\*\*\*

steam room  
weight room (in adjacent community centre)  
universal change rooms  
ozone-treated water

### Swims (2014)

# 460,225

400,000 planned target capacity (exceeded)

Total visitors 2010: 556,789 visits  
(72,680 of these were spectators);  
484,109 swims; 102,000 lessons;  
26,900 rentals

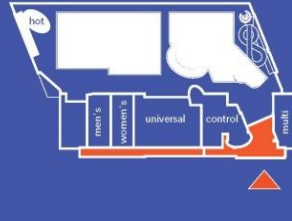
### Aquatic Experiences

- 4,807 scheduled annual operating hours (2016)
- Public swim all days (except Sat/Sun 10:1-30 pm)
- Majority of use is recreational, followed by aquafit and lessons, then rentals
- Registration levels drive programs, increased lifeguarding and instructional programs for future employees
- Entire facility is wheelchair accessible, healthy choices for snacks
- The facility draws a high number of spectators.

### Operating Budget (2014)

Revenues	\$1,143,842
Costs	\$1,888,142
Deficit	\$744,300
Recovery Rate	61%
Participant Swims	460,225
Cost/Swim	\$4.10
Revenues/Swim	\$2.49
Deficit/Swim	\$1.62

\* expenditures excludes utilities (water, sewer)



0 5 10 15 20 25m

#### Legend

- public space
- pool
- entrance



“Favourite aspect of the pool is the leisure pool - the swimming lessons and kids having fun.”

—Evan 2016, Pool Operator Survey

## Community Building

### CONTEXT

Serves surrounding communities of Killarney, Victoria-Fraserview, Renfrew-Collingwood, Kersington-Cedar Cottage. The leisure component also draws participants from other areas of the City and the region (Burnaby).

The 2011 population of surrounding communities was approximately 126,725, balanced over age groups with slightly more 40 to 64 yrs, followed by 20 to 39 years and 19 & under. Primarily English and Chinese as the mother tongue. More than 31% do not drive to work. Denatification of the East Fraser lands will increase area population.

\*population and demographic data extracted from 2011 census

### Site Context



“People stay anywhere from 20 minutes to 4 hours depending on the amenities they are using”

—Tom 2010, Pool Operator Survey



#### SITE

- Adjacent to Killamey Secondary School and Community Centre
- Within Killamey Park, which has playground, picnic, fields, and mountain views.

#### Relationship to other facilities / amenities

- Connected to Community Centre and Ice rink
- 2 secondary and 7 elementary schools use the facility
- Closest library is Champlain Heights
- Metrotown theatres and mall
- Closest indoor pools are Renfrew (approximately 3 km to the north) and Kensington (approximately 3 km to the west).

#### Transit & Bike Accessible

- On transit bus route, easy transfer access from SkyTrain

#### COMMUNITY AMENITIES

##### Is it part of a larger community centre?

Killamey pool is part of a complex containing pool, rink and community centre facilities. The community centre offers computer lab, games rooms, youth centre, concession, dancing courses and fitness centre. There is an ice rink facility connected to the centre and outdoor sportfields and tennis courts surround the facility.

#### IMPACT OF EXTERNAL / REGIONAL FACILITIES

South Slope YMCA and Jewish Community Centre are in the geographic community area and Barnaby's Bonsor Pool is close by. Memberships and not facilities drive participation in private facilities. Bonsor is an aging facility but is currently going through renovations to upgrade some of its facilities and amenities, including its fitness centre. Lifeguarding and leadership programs attract many regional participants.



## Social Inclusivity

#### PEOPLE WITH DISABILITIES

- Wheelchair accessible facility
- Sloped, beach-style entry

#### LGSTO/25

This facility is designated as a pilot facility for new policies from the 2014 TGVWG Report and includes the following alterations:

- Change stalls changed from "family" to "universal"

#### SENIORS

- No seniors specific programming, but most popular uses are length swimming, spa and aquafit
- Early mornings are the most popular time to visit
- Language barrier and accessible features are potential issues/ barriers to use

## Well Being

- Facility and pool accessible to people with disabilities
- Fitness centre adjacent
- Steam room

The pool area itself is quite simple, however the facility has a direct connection to the larger community complex that provides well rounded indoor and outdoor amenities such as sports fields, an ice rink, and fitness and dance spaces to complement the pool and steam room.

## Connection to Nature

- Views to the North Shore mountains
- Expansive glazing in natatorium to provide views and natural light
- Adjacent to large park space with field and track amenities

Although the pool contains only conditioned swimming spaces, the expansive glazing with panoramic views re-emissions the indoor aquatics experience.



## Sustainability

#### CONDITION AND LIFE CYCLE

Construction was completed on this new facility in 2006. Killamey is at the beginning of its lifecycle and has 40 or more years of life cycle remaining. UV water sterilization was recently added to the facility to benefit the air quality and reduce future maintenance to the building envelope.

**"The most urgent needs for replacement / renovations are the air quality / circulation, maintenance of bubbling tiles and expansion joints, and deck seating"**

—From 2016 Pool Operator Survey

#### ENERGY USE

Use Per Swimmer		Use per Area		Totals	
Energy Use / Swimmer	GHG / Swimmer	Energy Use Intensity	GHG Emissions Intensity	Total Energy	Total GHG
kWh/m <sup>2</sup> /swim	kgCO <sub>2</sub> e/m <sup>2</sup> /swim	kWh/m <sup>2</sup> /yr	kgCO <sub>2</sub> e/m <sup>2</sup> /yr	MWh/yr	kgCO <sub>2</sub> e/yr
15.78	1.78	786.50	88.49	7,261,738	817,000

GHG = Annual Green House Gas Emissions measured in kilograms of CO<sub>2</sub> equivalent Swimmer Number Data from 2014 annual numbers; Energy and GHG data from 2016 Q2 (Apr 20 - 15 Mar 2016)

Other uses in facility that will impact total energy use: Connected to community centre, fitness centre and rink.

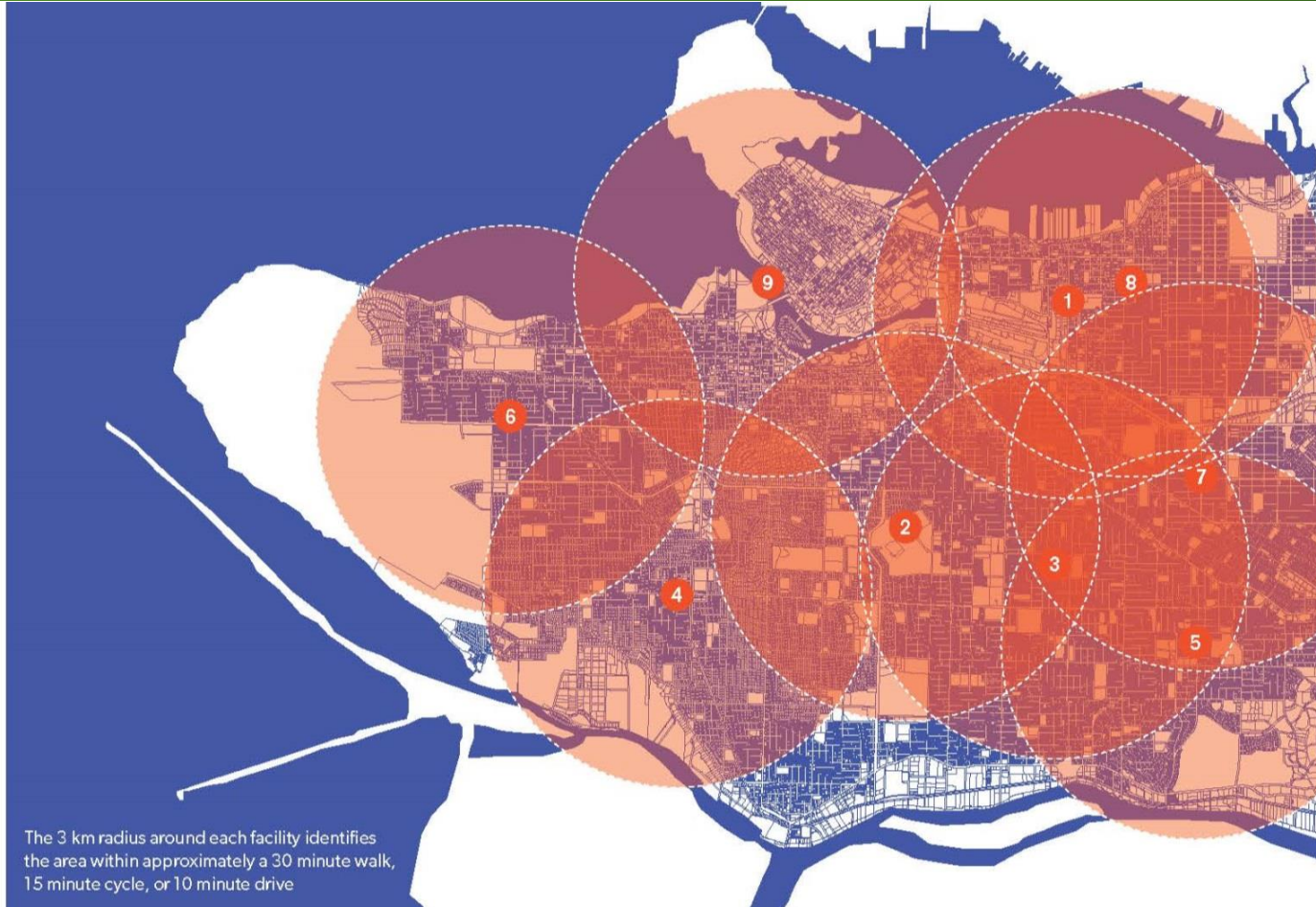
## Final Observations

Killamey is one of the newest facilities, and its spacious layout and ample natural light, along with a range of amenities and it's co-location with community amenities make it the second most highly visited pools annually. Its popularity is reflected in its operating efficiency, which according to sales records exceeded 100% of its capacity in 2014.





# Current State Highlights: Indoor Pool Distribution



The 3 km radius around each facility identifies the area within approximately a 30 minute walk, 15 minute cycle, or 10 minute drive

in  
door

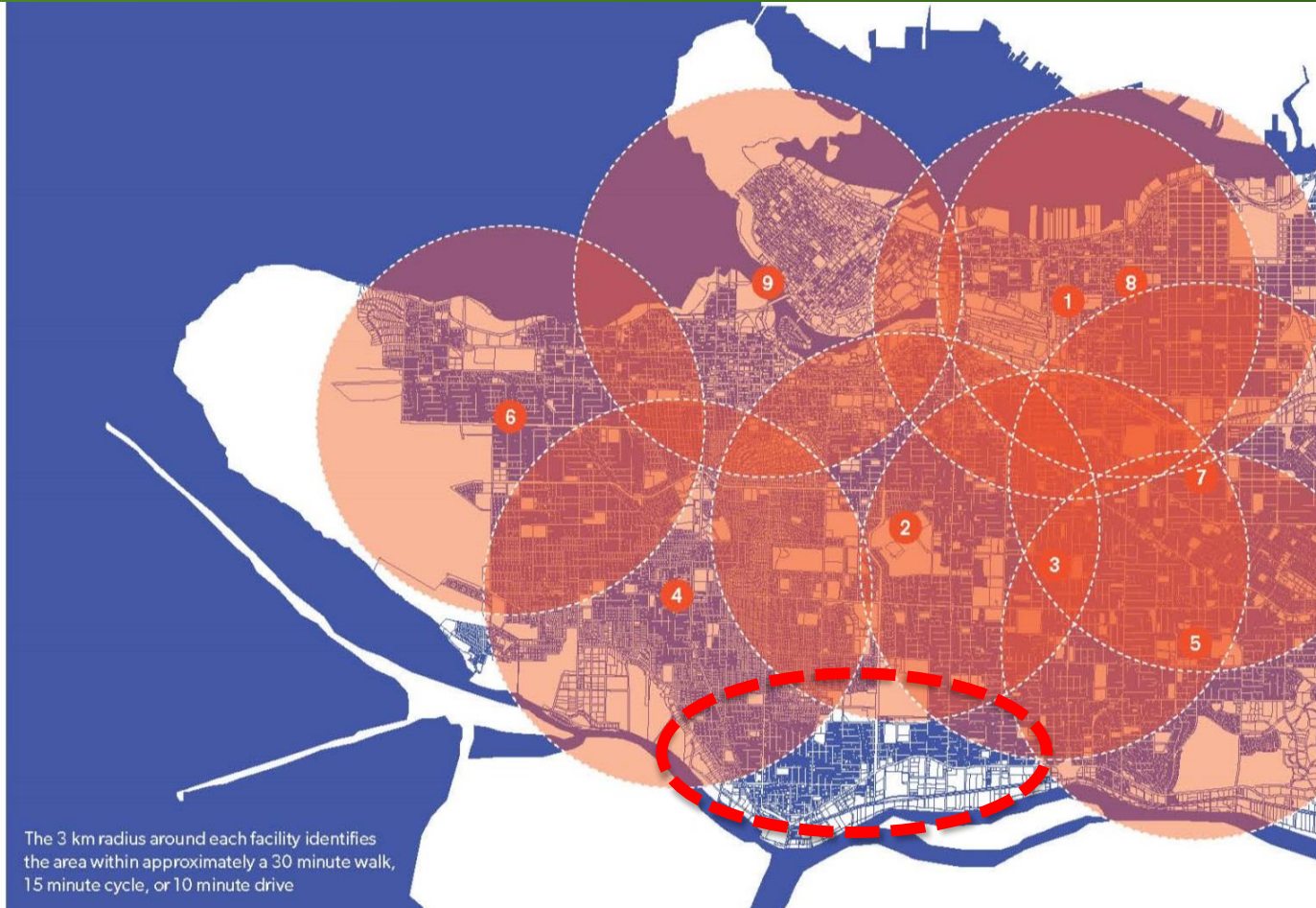
out  
door

spray +  
wading

beaches

inno  
vation

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in  
door

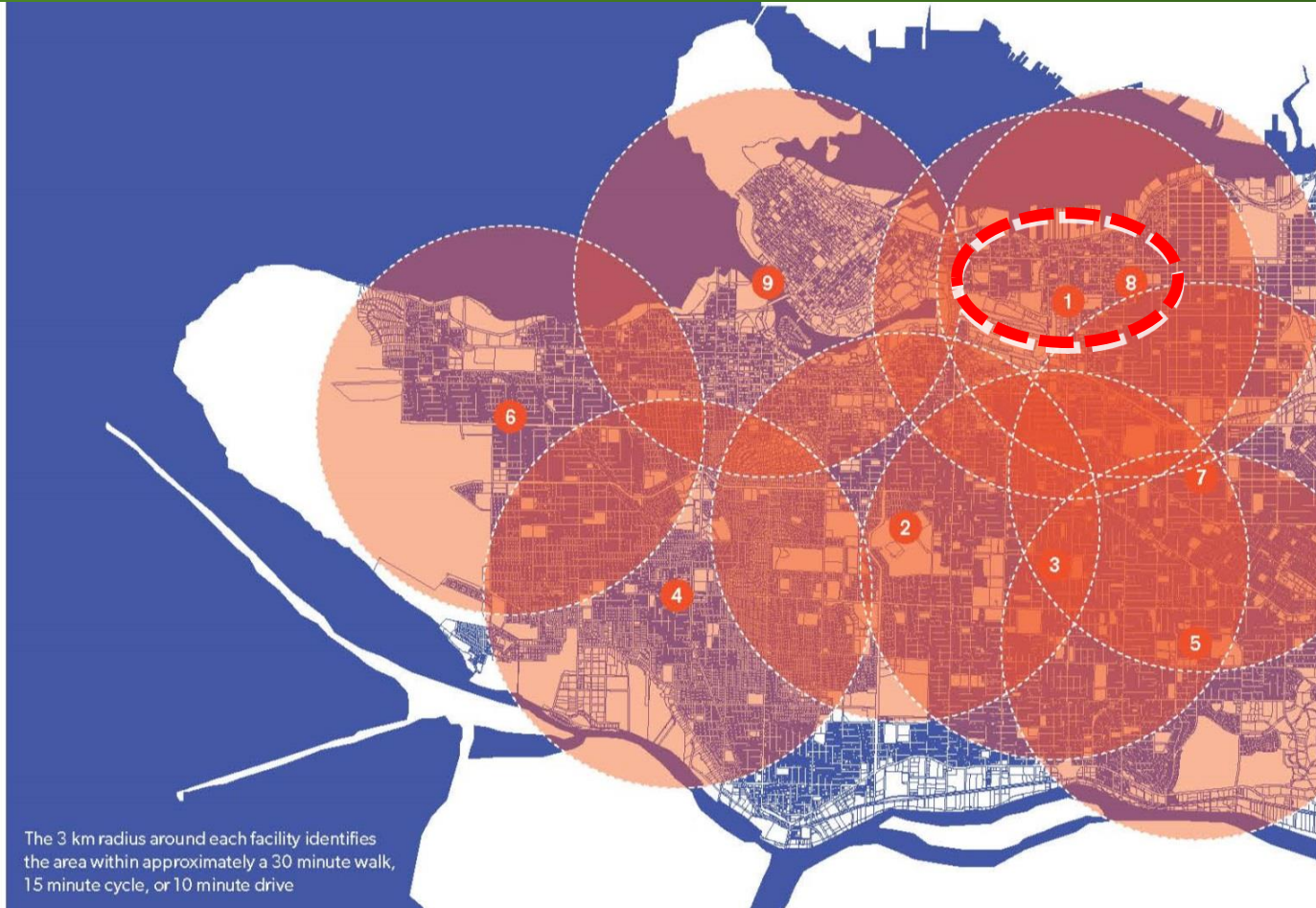
out  
door

spray +  
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inno  
vation

# Current State Highlights: Indoor Pool Distribution



The 3 km radius around each facility identifies the area within approximately a 30 minute walk, 15 minute cycle, or 10 minute drive

in  
door

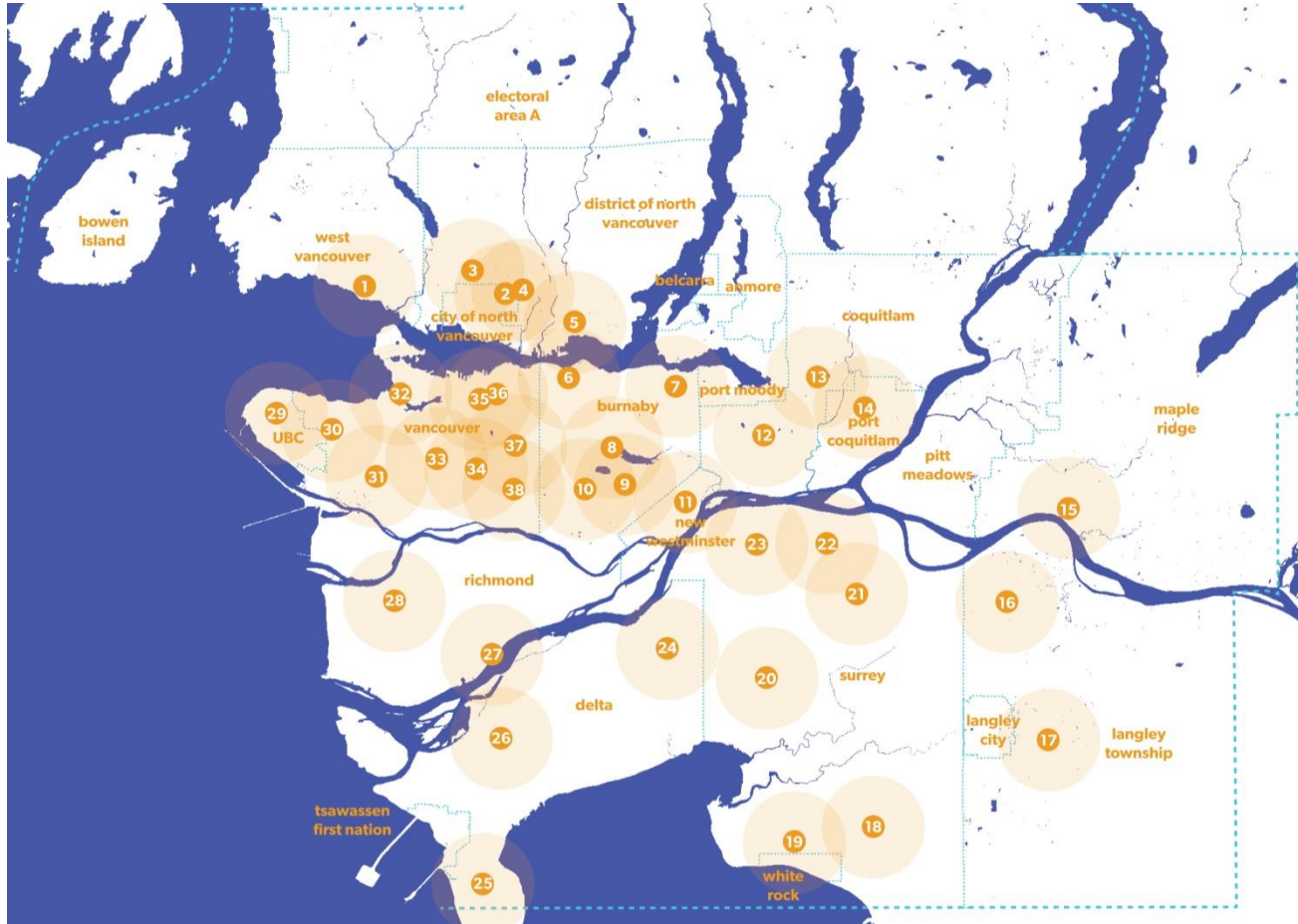
out  
door

spray +  
wading

beaches

inno  
vation

# Current State Highlights: Indoor Pools



in  
door

out  
door

spray +  
wading

beaches

inno  
vation

- The **indoor pools approaching the end of their functional lifespan** are the **most underutilized, least efficient, and have the highest subsidy** per swim (*VAC, Kerrisdale, Britannia, Lord Byng, Templeton*).
- The **pools that are the newest, or have had significant investment** (*Renfrew, Killarney, Hillcrest*) are the **best utilized and most financially efficient**.
- Indoor pool use has increased since these investments (*2.4 swims per capita vs 3.4 swims per capita*).

in  
door

out  
door

spray +  
wading

beaches

inno  
vation

# Current State Highlights: Outdoor Pools

- Currently no distance - based target for outdoor pool provision.
- Most are destination facilities.



in door

out door

spray + wading

beaches

innovation

# Current State Highlights: Outdoor Pools



in  
door

out  
door

spray +  
wading

beaches

inno  
vation

*Outdoor pools are an important part of Vancouver's complete Aquatic System.*

*The role and location of outdoor pools within the Park Board's aquatic service delivery will be considered in Phases 2 and 3 of the Aquatic Strategy.*

in  
door

out  
door

spray +  
wading

beaches

inno  
vation



- Generally, different outdoor pools are optimized to provide different types of aquatic experiences.
- Many of Vancouver's outdoor pools are destination pools, offering a range of experiences.
- The public consultation highlighted an interest in innovative facilities, such as outdoor natural swimming pools.

in  
door

out  
door

spray +  
wading

beaches

inno  
vation

*Phase 2 will include the feasibility and location of a new outdoor pool including scale and focus of the facility.*

in  
door

out  
door

spray +  
wading

beaches

inno  
vation

*Phase 2 will consider the value and role of wading pools and spray parks and will make recommendations related to whether continued phase out is appropriate, and if so, criteria for locating spray parks.*

*This will include consideration of the Board motion relating to salt water conversion.*

in  
door

out  
door

**spray +  
wading**

beaches

inno  
vation

- Experiences provided by wading pools and spray parks provide an introduction to water.
- Spray parks have been found to be better at doing so, in part by being more socially inclusive and accessible for longer seasons.

in  
door

out  
door

**spray +  
wading**

beaches

inno  
vation

- Current Practice: VPB wading pools are gradually being phased out, being converted to spray parks or decommissioned, consistent with trends across Canadian urban centres.
- Existing wading pools do not meet Health Act regulations, compelling significant conversion or removal.

in  
door

out  
door

spray +  
wading

beaches

inno  
vation

- Vancouver has easily accessed urban beaches with good water quality.
- The Park Board manages 11 guarded beaches over 18km of beach.
- Usage has not been consistently measured, but it is clear that these destination amenities serve millions annually.
- Further data collection is warranted, including the ways in which ocean swimming is contributing to aquatic service delivery.

in  
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out  
door

spray +  
wading

**beaches**

inno  
vation

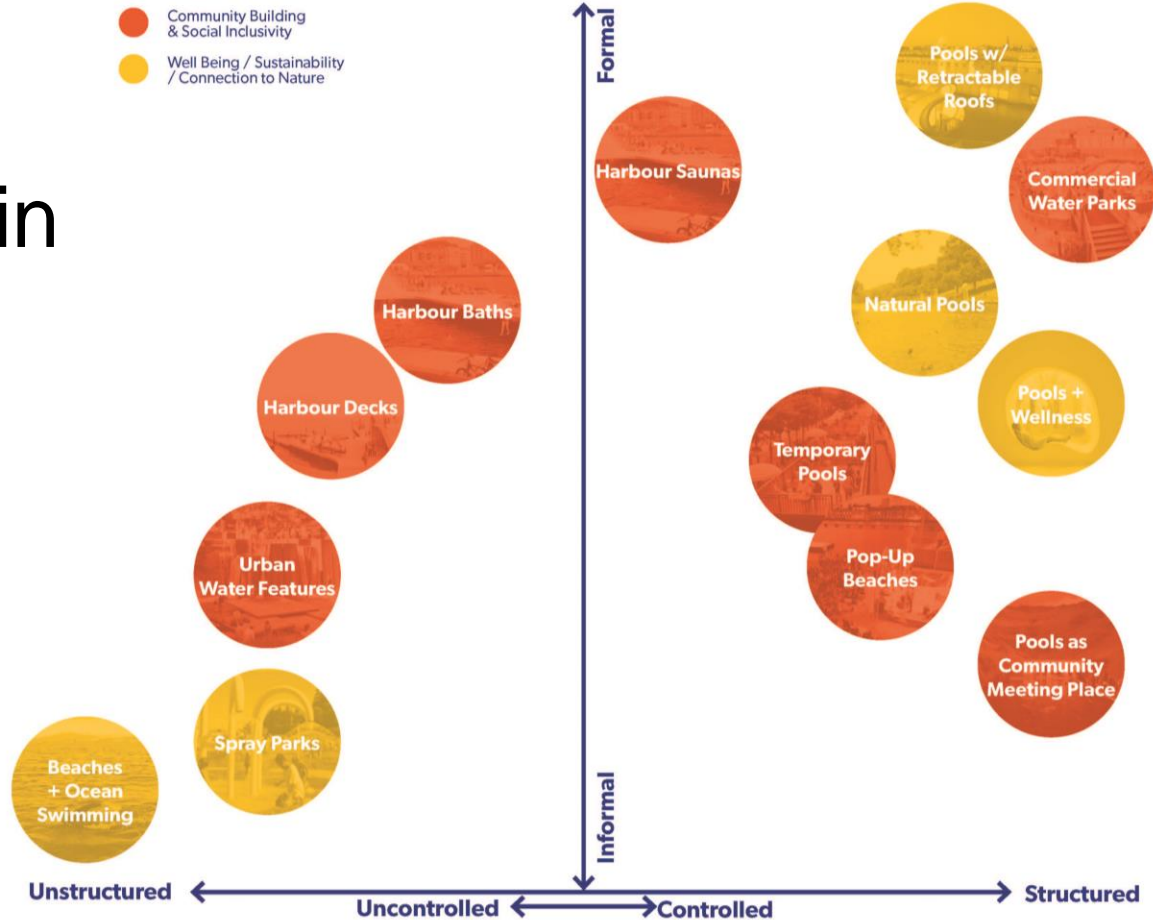


## Precedent Study Highlights



# Precedent Study Highlights

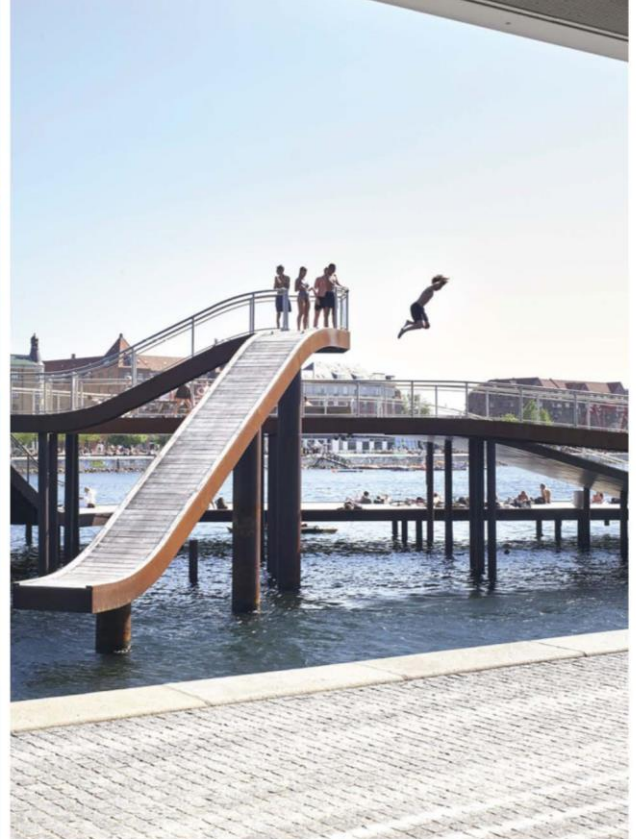
40 examples, in  
13 categories.





# Precedent Study Highlights: Harbour Baths, Decks, Saunas

## Kalvebod Bølge Copenhagen, Denmark

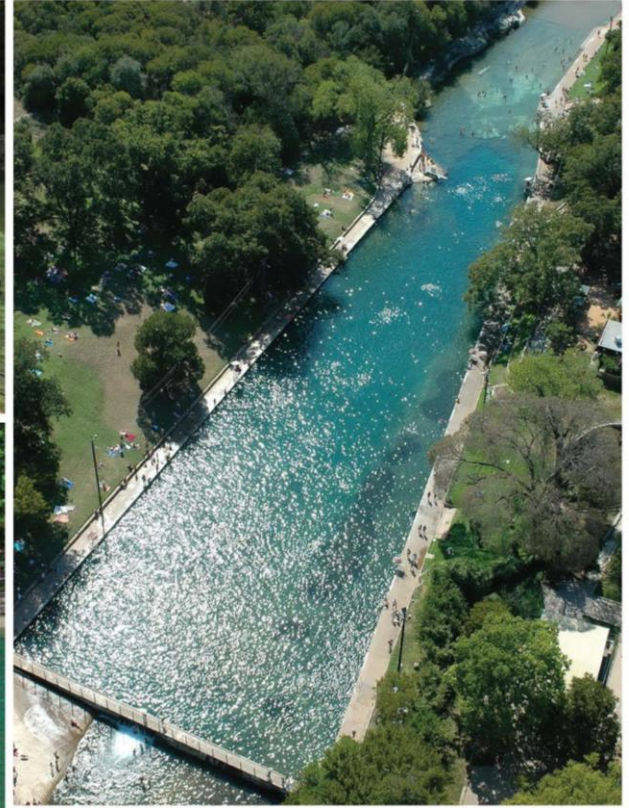


## Löyly Harbour Sauna Helsinki, Finland



# Precedent Study Highlights: Natural Swimming Pools

## Barton Springs Austin, Texas, USA



# Precedent Study Highlights: Retractable Roofs

## Badeshiff Berlin, Germany



# Precedent Study Highlights: Spectacle and Joy

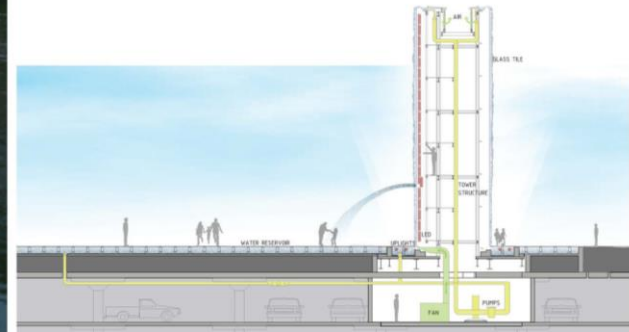
## Slide the City North Vancouver, BC



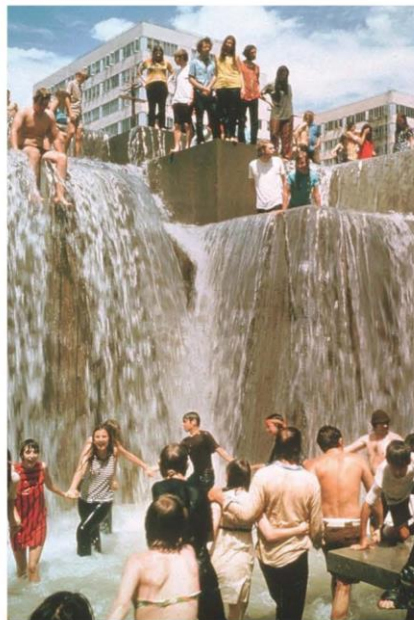
## Okanagan Wubit Kelowna, BC



## Crown Fountain Millennium Park, Chicago USA



## Keller Fountain Portland, Oregon, USA



# Precedent Study Highlights: Temporary Installations

## Plages (Various) Paris, France





# Precedent Study Highlights: Wellness

## Iceland Community Pools Various Locations, Iceland



## WA\_Sauna Seattle, Washington,



