Community Conversations Round 2 Sea Level Rise and False Creek

November 2020





Today's Agenda

Introduction and Overview

Sea level rise and Vancouver

False Creek

- What's at risk?
- What can we do?
- Adaptation approaches

Work-to-Date

Next Steps

Sea2City Design Challenge





Today's Goals



 Continue building awareness of sea level rise and coastal flooding risks for False Creek

 Review False Creek community values identified during first phase of project

 Explore potential adaptation approaches to look at in more detail during the next phase of work in 2021

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Coastal Flooding & Vancouver

Salish Sea rising









False Creek Coastal Flooding



High Tide Events



Storm Surges & Waves



Sea Level Rise



"Design Event" flood



"Raincouver"

- Surface flooding
 - Extreme rain events- climate driven
 - Drainage and stormwater management
 - Pooling behind flooding protection structures

A.A.A.



A storm sweeping through Vancouver on September 9, 2019. (Image: Christopher Bowes, Daily Hive)

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False Creek what is at Risk?

Creek

A DYNAMIC, URBAN MIXED-USE NEIGHBOURHOOD

• 38,000+ residents and a range of housing

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- \$19 billion in assessed property value
- 200 industrial properties
- Emergency and medical facilities
- Schools and childcare facilities
- Granville Island

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THLETES WAY

W 3RD AV

W 4TH AV

V 6TH AV

- Parks, recreation, and activity centres
- Major utilities and other assets

What Vancouver is Doing About It









2012

- Mapping and flood modeling
- Risk assessments
- Policy changes

2018

- Coastal Adaptation Plan –
 Fraser River Foreshore
- Community Values
- Planning & Design Principles

2020

- Coastal Adaptation Plan –
 False Creek
- Community Values gaps & priorities
- Sea2City planning the next stage





COVID Considerations

- No in-person
- Target False Creek and city-wide; youth and equity engagement goals

Work Flow:

- Microsite vs. Shapeyourcity.ca
- Survey
- Asset owners workshop
- Social media campaign
- Two phases of webinars for general public and youth
- K-12 Sea Level Rise Activity book
- Lots of meetings, emails, relationship building
- Granville Island and Musqueam



Community Engagement

- Community Conversations
 - 11 webinar style sessions with resident associations, youth organizations, and the general public
 - 144 participants
- TalkVancouver survey
 - 1,614 respondents
- Asset Owners workshop
 - Workshop with infrastructure and asset owners (e.g., City, Fortis, Metro Vancouver, Park Board)





Community Engagement

- Asset Owners Workshop
- False Creek NEU and City/Metro sewer and stormwater infrastructure identified as most consequential assets
- Harbour and marine functions need to be considered
- Ongoing projects around eastern end of False Creek
 will help reduce risks there and False Creek Flats
 over medium term
- Many assets within False Creek are important to atrisk and equity-seeking populations
- Granville Island is a key community asset that demands a separate, but integrated coastal flood management process





Community Values – False Creek

The community concerns that represent what residents and other stakeholders care about most – False Creek



Community Values – Fraser River

The community concerns that represent what residents and other stakeholders care about most – Fraser River Foreshore



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DESIGN PRINCIPLES:

Used by landscape architects, engineers, city planners, and others to inform the design of future adaptation options





1m Sea Level Rise and 1:500 storm



Adaptation Approaches



DESIGN VALUES:

Used to help evaluate future adaptation options.

- Which options respond best to community values?
- How could options be improved?

Adaptation Approaches

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RESIST





MOVE / AVOID



Adaptation Approaches



COMBINATION





















Next Steps



A unique, community-driven design challenge to be launched in **2021**

 Guide urban development and ecological revitalization in False Creek <u>and</u> along the Fraser River Foreshore

 ✓ Inform next phase of Coastal Adaptation Plan process

 Be guided by community values and design principles identified in False Creek and the Fraser River Foreshore projects



False Creek Challenge Sites

False Creek North

False Creek South







Between Bridges:

Coopers Park:

Charleson Park:

False Creek South (continued)



Stamps Landing:

East of Cambie:





Sea2City Objectives



Increase public awareness of climate change and sea level rise



Develop a conceptual route or alignment for a continuation of the flood management systems and structures along False Creek and the Fraser River Foreshore



Create transferable neighbourhood scale adaptation approaches and site-specific flood management design concepts



Expand the City's toolbox of coastal flood management approaches



Explore approaches to coastal adaptation for sea level rise beyond 1m



Build support for shoreline projects that respond to the social, economic and ecological risks of coastal flooding and sea level rise







VANCOUVER ADAPTATION

Thank you!

- Visit the Shape Your City project page for the survey, resources, and more information
 - www.shapeyourcity.ca/sea2city

Email us

- sealevelrise@Vancouver.ca
- angela.danyluk@vancouver.ca
- Participate in next round of webinars in November to discuss adaptation approaches and design principles