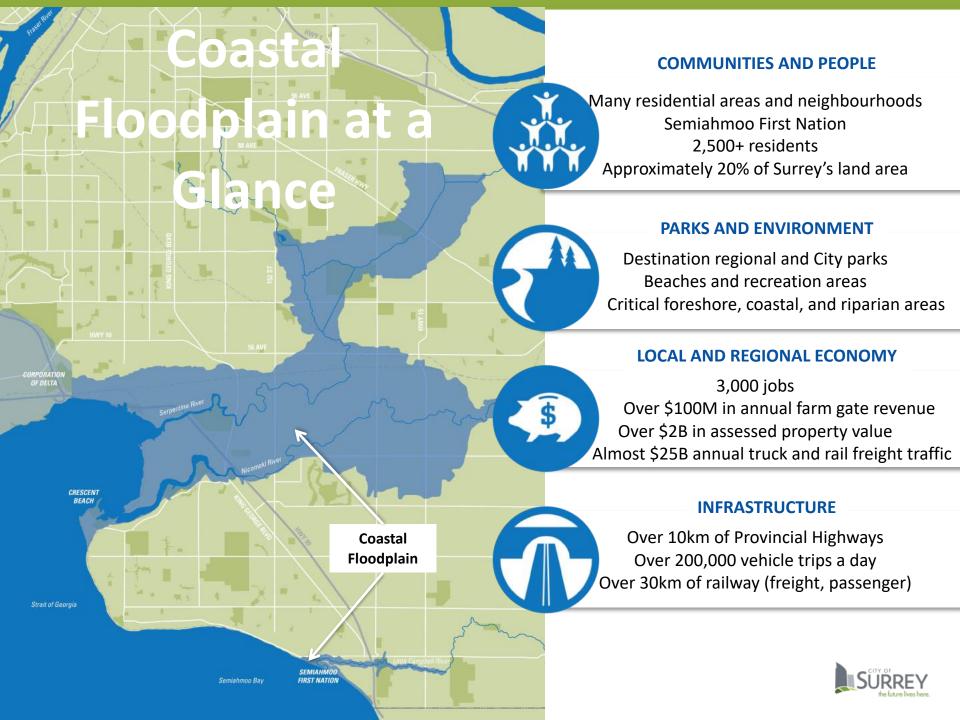
SURREY COASTAL FLOOD ADAPTATION STRATEGY and DISASTER MITIGATION ADAPTATION FUND

February 14, 2019 SBOT Presentation









Involving the Community





Coastal Flood Adaptation Strategy (CFAS)

- The Province has directed municipalities to consider
 1m of sea level rise by year 2100.
- Coastal cities around the world are facing same challenges

SUMMER 2016 - SPRING 2017



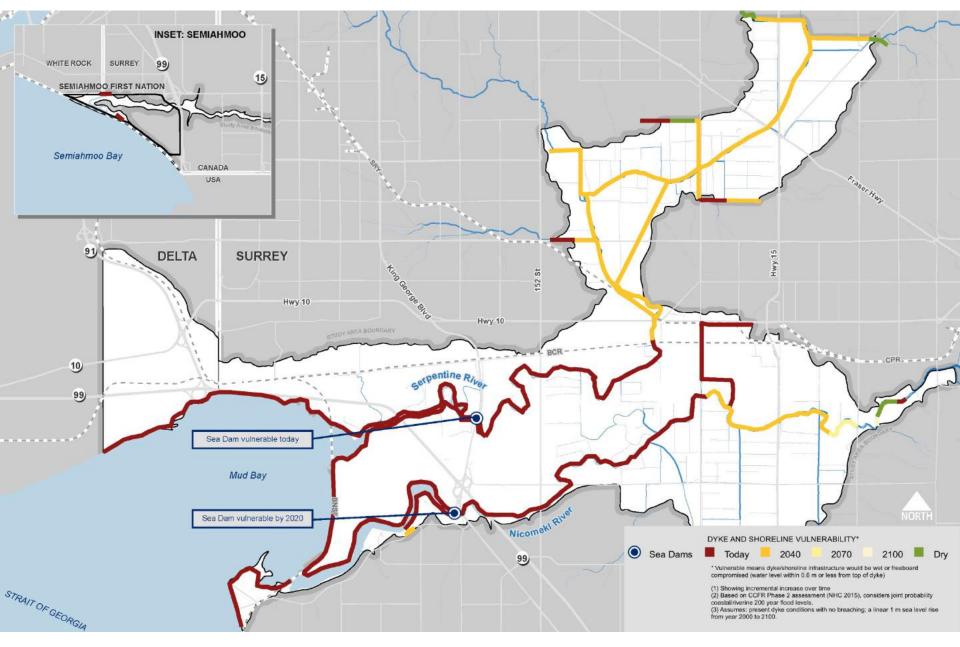
COASTAL AND RIVER FLOODING







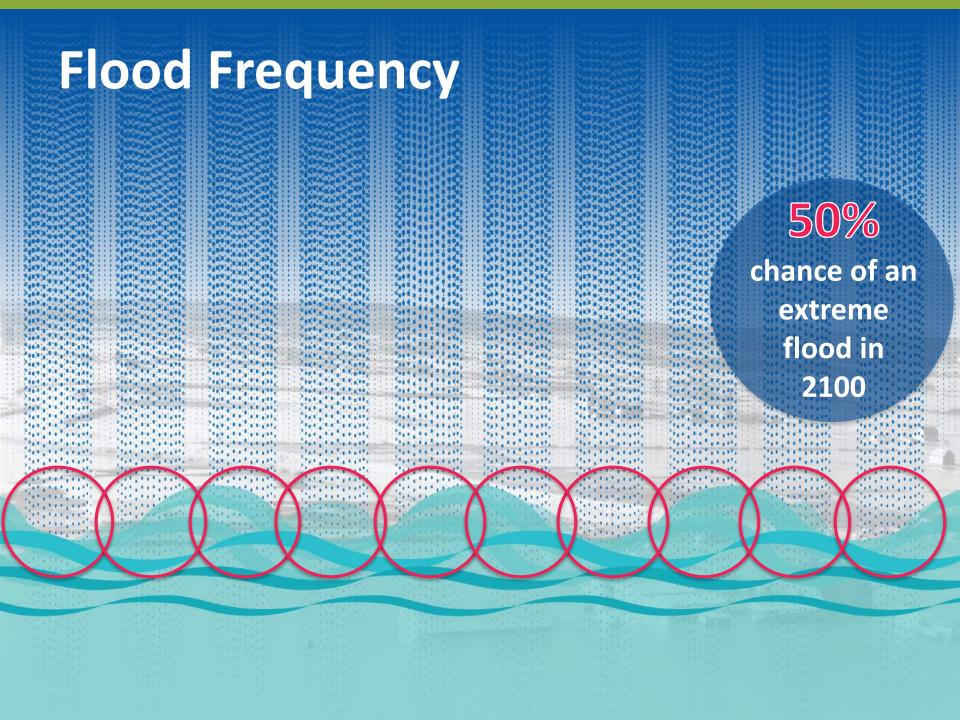








Flood Frequency 0.5% chance of an extreme flood today





First Nation

FOCUS GROUPS

(Agriculture & Farming, Community & Residential, **Environment & Recreation)**

60+ participants



TECHNICAL WORKSHOPS

2 Greenshores™ Shoreline Design workshops, 2 PIEVCTM infrastructure operators workshops, 2 Design workshops with Dutch engineering design experts and UBC researchers, Coastal regulators. Coastal stewards



CFAS ADVISORY GROUP WORKSHOPS

With project stakeholders and partners, including local governments, infrastructure operators, provincial agencies, organizations, residents and farmers





BUS TOURS

Site tour and "walk-shops" around the CFAS study area

70+ participants



SURREY YOUTH ENGAGED

5 sessions with high school students, 2 youth events at City Hall, and 80 CFAS postcards completed by elementary school students



200 +

COMMUNITY CONVERSATIONS

at Crescent Beach popup event hosted with 40+ University of the Fraser Valley Geography and **Environment students**



POP-UP PROJECT **OUTREACH STATIONS**

Crescent Beach, Blackie Spit, SFU Surrey, Surrey Centre/Ocean Park/ Semiahmoo Public Libraries, Surrey City Hall, Alexandra House (Crescent Beach)



WORKSHEETS COMPLETED

At various engagement events and workshops

100,000+



SOCIAL MEDIAL **IMPRESSIONS**

Instagram & Twitter (200+ #SurreyCoastal mentions), Facebook (100+ CFAS comments), LinkedIn, YouTube (1,000+ hours of CFAS video views), CFAS website and StoryMaps (10,000+ views)



COMMUNITY MEMBERS

directly involved to date



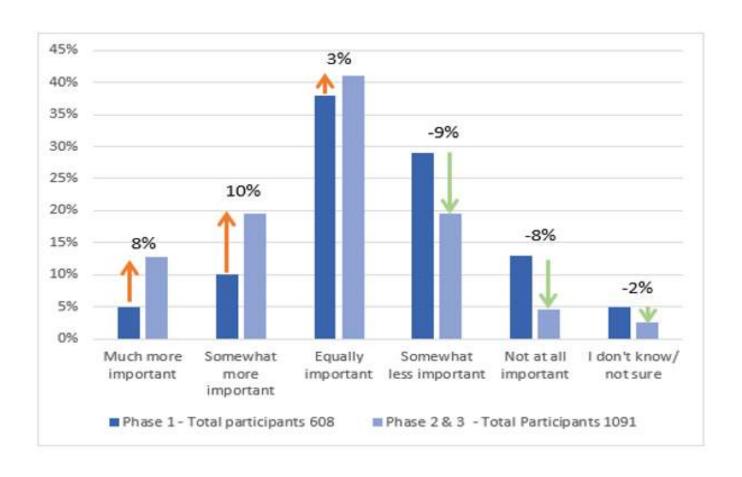
200+ submissions on Facebook, Twitter, and Instagram with winners in three categories



Completed online, at CFAS workshops, at community events, and by CitySpeaks Members

Public Awareness

By comparison to other issues Surrey is facing, how important is the issue of sea level rise and coastal flooding?





Building Partnerships























BIRD STUDIES CANADA





Friends of Semiahmoo Bay Society







\$272,525 received to date \$176,600 eligible upon completion





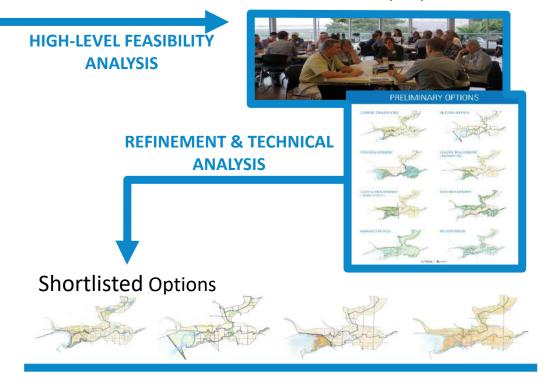


Options Development – What can we do?

Preliminary Options Development with Community and Professionals



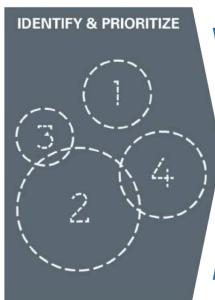
Community Review of Preliminary Options





Developing Solutions

ISSUES

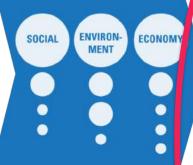


APPROACHES & OPTIONS



ANALYSIS & EVALUATIONS

OBJECTIVE-BASED



DETAILED STRATEGIES



1

Identify stakeholder issues and concerns, and develop objectives and measures that represent them.

2

Develop options for addressing stakeholder concerns.

3

Using the objectives developed in Phase 1, analyze how each option performs.

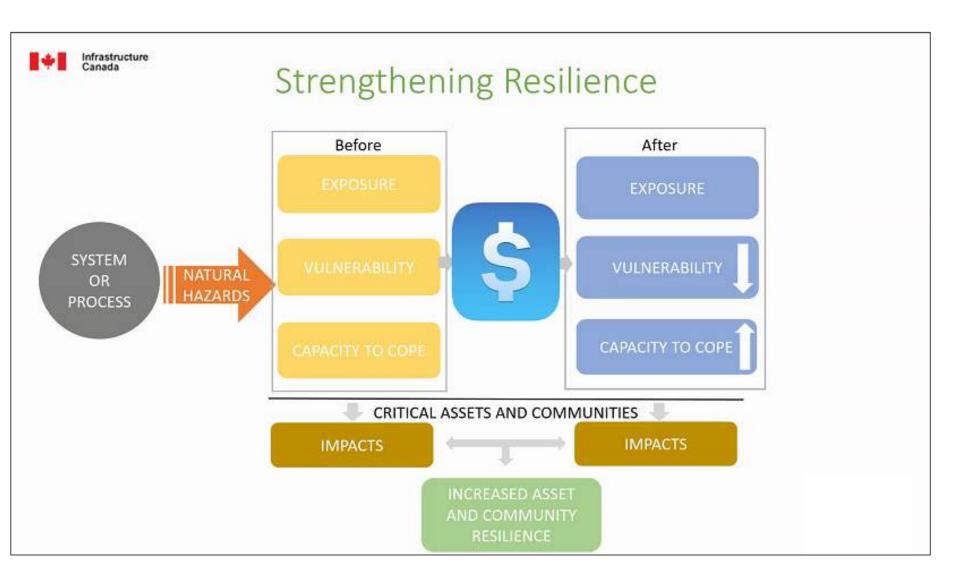
4

-Develop short term options and cost sharing -Guidance on no regrets actions for medium to longer term





Federal Disaster Mitigation Adaptation Fund (DMAF)



DMAF ASSESSMENT PROCESS



ASSESSMENT RESULTS
& ADDITIONAL
REQUESTS

March 2019

TREASURY BOARD APPROVAL

May/June 2019

APPROVAL IN PRINCIPLE

June* 2019

Contracts signed after this date become eligible





Shovel Ready Projects

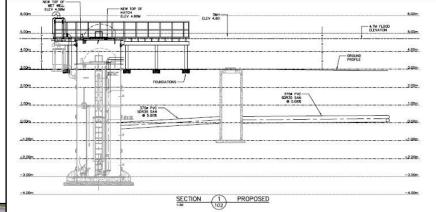
City of Surrey

- Colebrook Dyke Upgrades
- Stewart Pump Station
- Burrows Pump Station
- Southern Railway of BC

City of Delta

Boundary Bay Dyke Upgrades







High Priority Projects

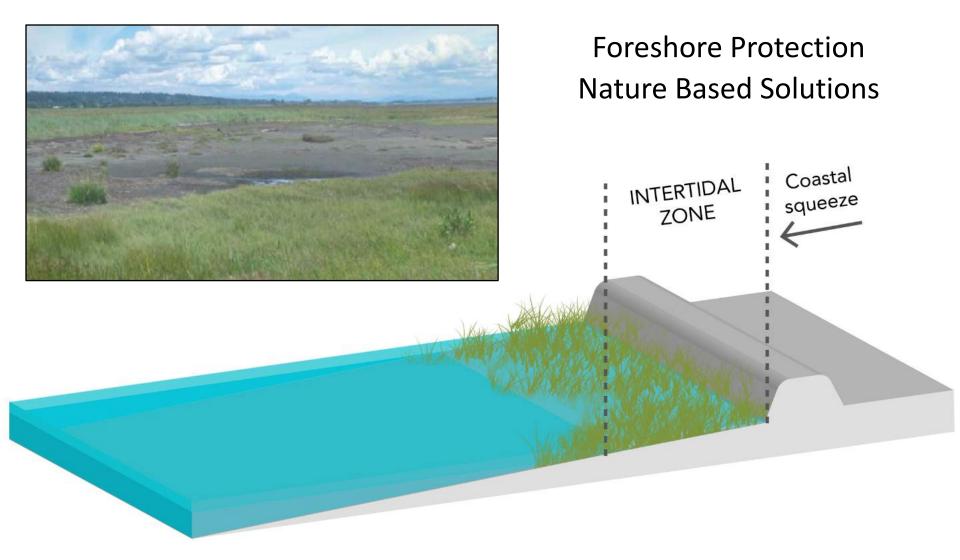
Conceptual designs:

- Nicomekl King George Blvd Bridge
- Nicomekl Riverfront Park
- 152 St Raising and Widening

Detailed Design



Innovative Projects







Next Steps

- Technical work underway
- Await to hear outcome of DMAF (Spring 2019)
- Develop draft strategy for Council Review (Summer 2019)



CFAS SURREY COASTAL FLOOD ADAPTATION STRATEGY (CFAS)

Thank you!





