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COMMISSIONER / CHIEF ADMINISTRATIVE OFFICER

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GM, PROJECT DELIVERY

Finance and Intergovernment Committee: April 15, 2020

metrovancouver SERVICES AND SOLUTIONS FOR A LIVABLE REGION

## **Board Request**

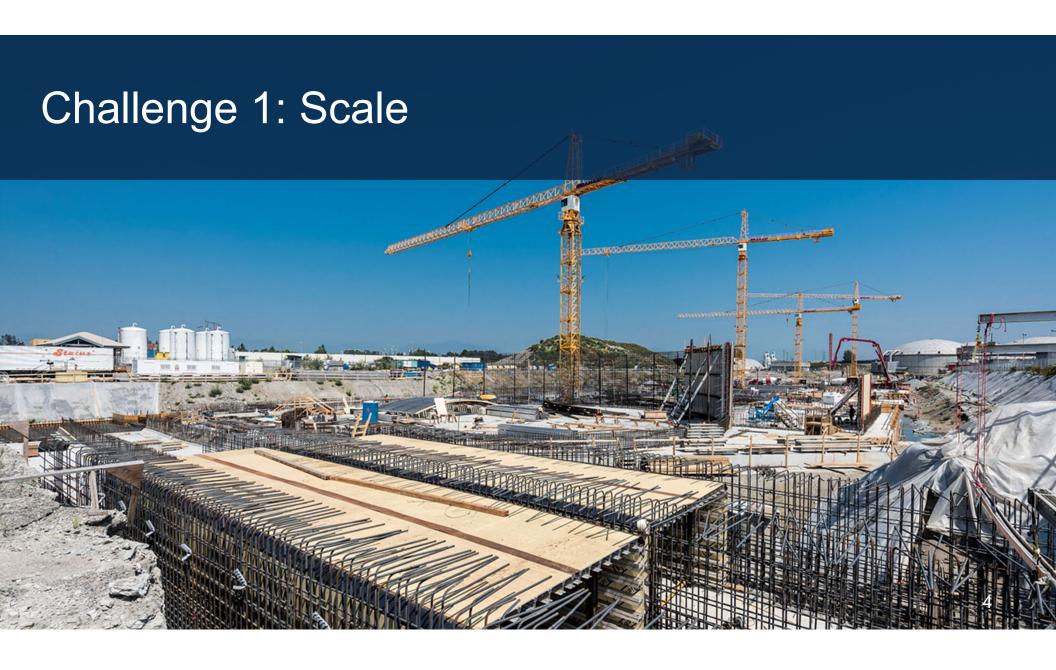
#### Staff were directed to:

- conduct an independent review of the processes and decision-making related to major infrastructure projects; and,
- bring forward for Board consideration recommendations arising from the review.

#### Outline

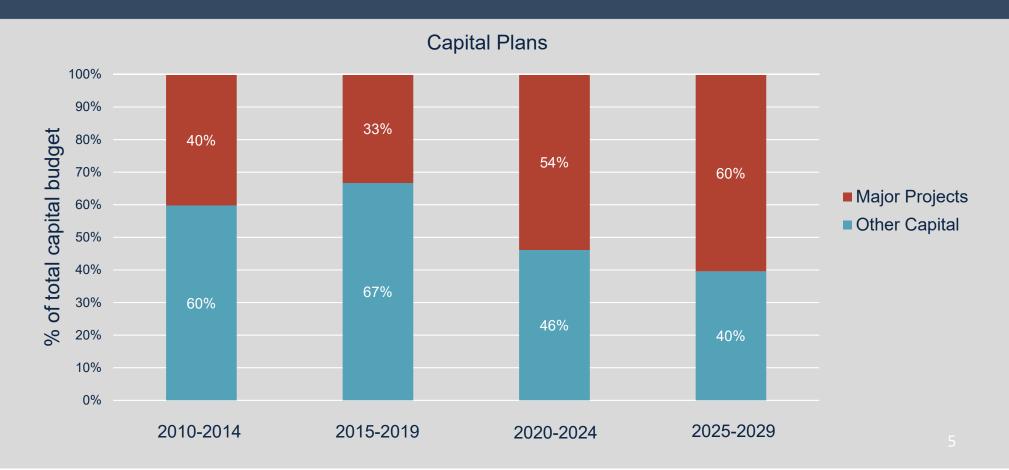
- Challenges
  - 1. Scale
  - 2. Complexity
  - 3. Market Influences
- Best Practices Response
  - 1. Re-organization
  - 2. Independent high level review by KPMG of major projects
  - 3. Response to KPMG's strategic recommendations





## Challenge 1: Scale

#### Major Capital Projects as Percentage of Plans



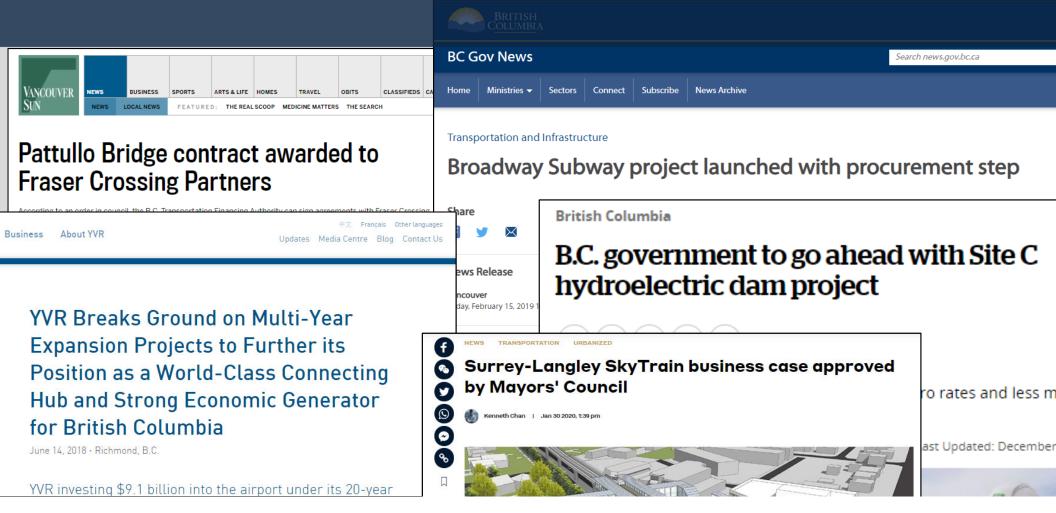


#### **Challenge 2: Complexity**

- Contract structures
- Environmental requirements
- Stakeholder involvement
- Funding approaches
- Regulatory requirements
- Community benefits
- Indigenous partnerships



## Challenge 3: Market Influences

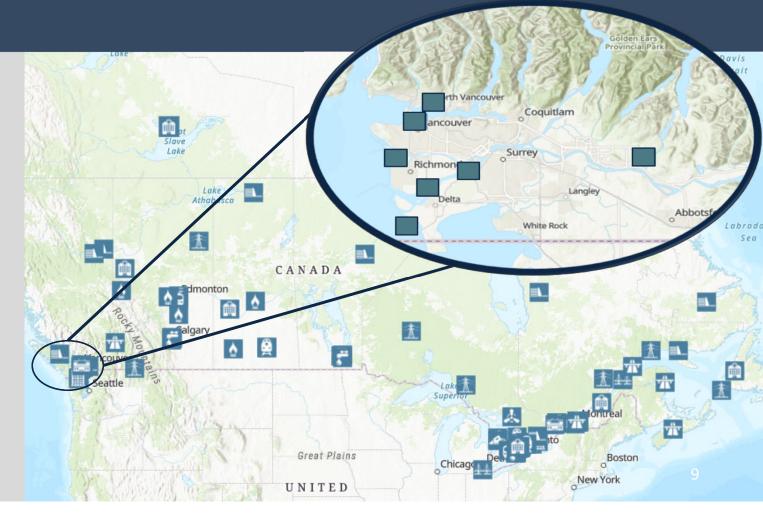


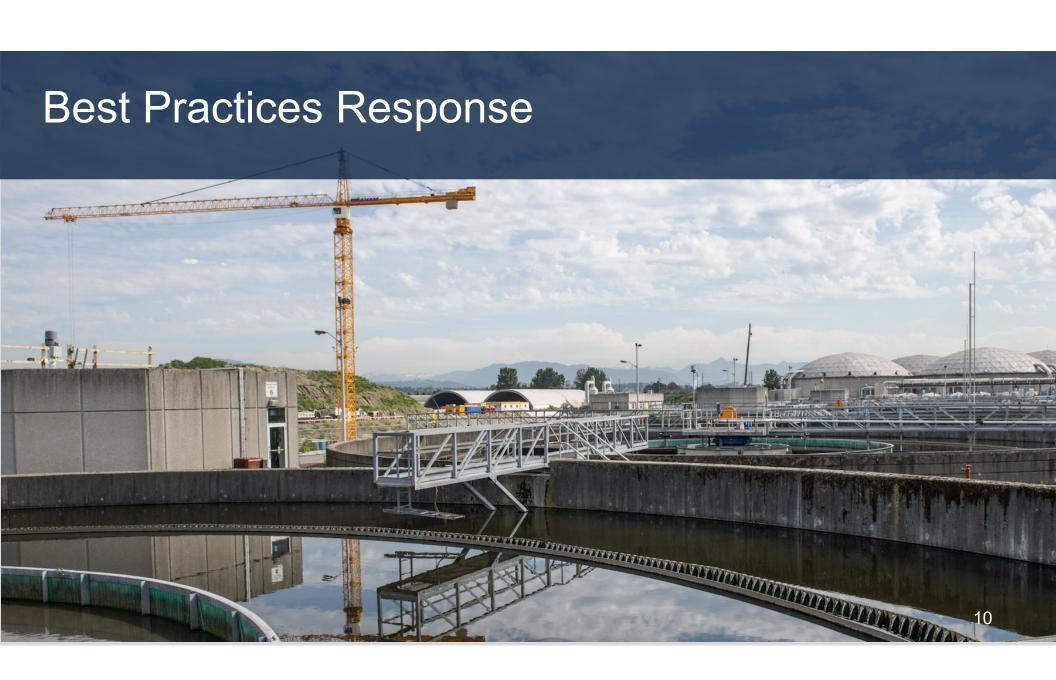
Challenge 3: Market Influences

# Metro Vancouver Region Projects:

- Broadway Extension
- Roberts Bank Terminal 2
- Vancouver International Airport Upgrades
- Surrey Langley SkyTrain
- Pattullo Bridge Replacement
- North Shore Wastewater Treatment Plant
- Annacis Island Wastewater Treatment Plant Expansion
- George Massey Tunnel Replacement Project

Source: Top100Projects.ca/2019

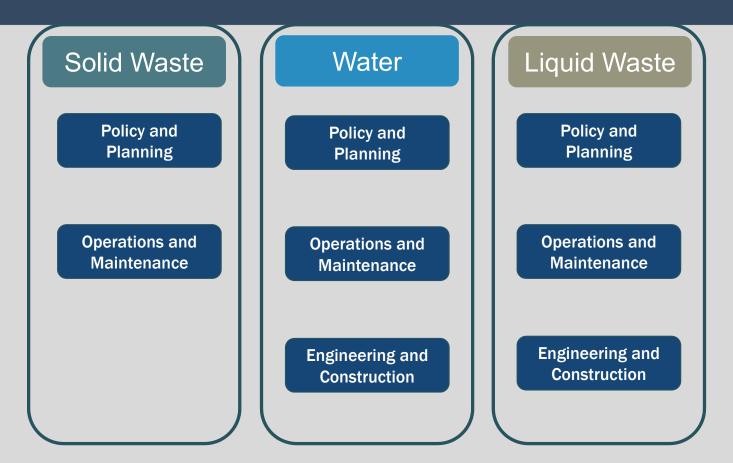




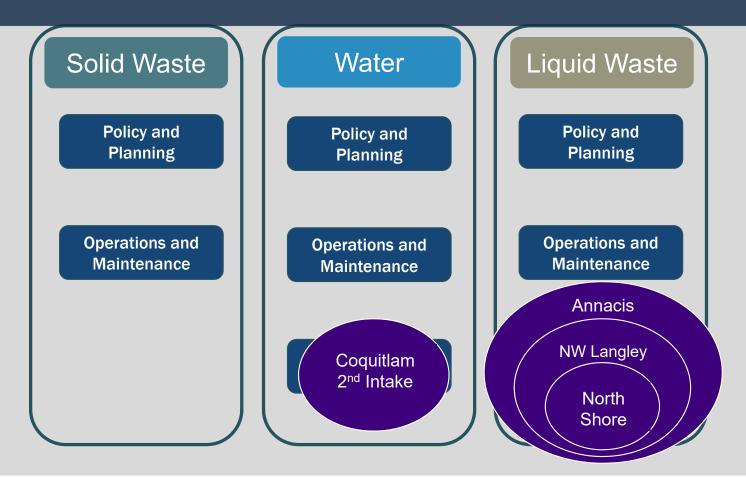
Pre-2012 Organizational Structure



2012-2019 Organizational Structure



2012-2019 Organizational Structure



2020 Organizational Structure



Policy and Planning

Operations and Maintenance

#### Water

Policy and Planning

Operations and Maintenance

**Engineering and Construction** 

#### Liquid Waste

Policy and Planning

Operations and Maintenance

Engineering and Construction

#### **Project Delivery**

**Major Projects** 

Asset Management

Project Management Office

Project
Management
Office Centre of
Expertise

Major Projects
Delivery

Asset Management

## Best Practices Response 1: Re-organization Functions of a Centre of Expertise

# Project Management Framework

Policy, Processes and Procedures, Standards and Controls

#### **Asset Management**

Asset Management Strategy and Plan, Policy, Processes and Procedures, Standards, Corporate Reporting

#### **Quality Assurance**

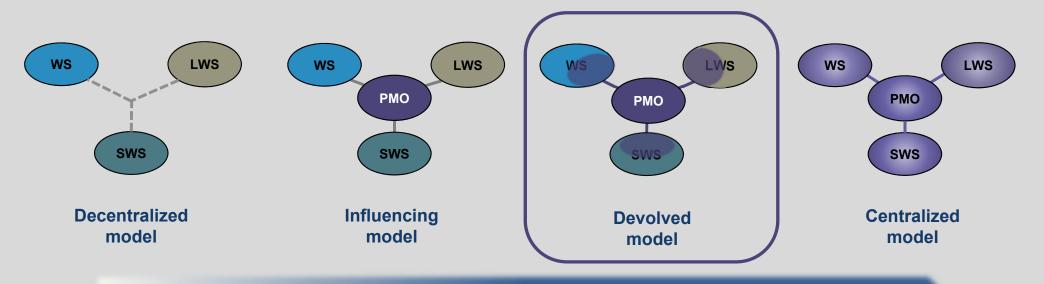
Quality Assurance and Control, Monitoring, and Training

#### **Project Delivery**

Project Management of Major Complex Projects

## Best Practices Response 1: Re-organization <u>Project Management Models</u>

#### **Increasing Project / Department Autonomy**



**Increasing Centralization of Control** 

# Best Practices Response 2: Independent Review KPMG Approach to Project Delivery

#### Key steps:

- Document review: key documents including reports from major projects
- Interviews: key project personnel involved in the delivery of major projects and programs
- Focus Group: validation and review of findings with General Manager working group

## Best Practices Response 2: Independent Review Best Practice Project Delivery Framework - KPMG



# Best Practices Response 2: Independent Review *The 5 Pillar Framework*



# Best Practices Response 2: Independent Review Strategic Areas of Opportunity



#### Best Practices Response 3: Response to Recommendations



# COVID-19 Response *Next Steps*

- \$1.7 Billion in work underway
- Over 40 claims received to date
- Coordinated approach to address risk
- Working with the Province and industry on COVID response
- Scenario analysis is currently being conducted to identify the range of potential impacts



