Ministry of Transportation and Infrastructure

2022/23 – 2024/25 SERVICE PLAN

February 2022



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Ministry of Transportation and Infrastructure

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Minister's Accountability Statement



The *Ministry of Transportation and Infrastructure* 2022/23 – 2024/25 *Service Plan* was prepared under my direction in accordance with the *Budget Transparency and Accountability Act*. I am accountable for the basis on which the plan has been prepared.

Honourable Rob Fleming Minister of Transportation and Infrastructure February 8, 2022

Minister of State's Accountability Statement



I am the Minister of State for Infrastructure and under the *Balanced Budget and Ministerial Accountability Act*, I am accountable for achieving the following results for 2022/23:

a) work with the Minister of Transportation and Infrastructure to advance critical pieces of transportation infrastructure that will benefit communities across B.C. and support B.C.'s economic recovery from the COVID-19 pandemic;

b) work with the TransLink Mayors' Council through its 10-year planning process to continue work to extend the Millennium Line to Arbutus Street, with an eventual terminus at UBC, and ensure prompt design and construction of the Surrey-Langley Skytrain;

- c) continue to support planning to improve the movement of goods and people in the Fraser Valley, including the widening of Highway 1;
- d) work with the Minister of Transportation and Infrastructure to advance a replacement for the George Massey Crossing to support communities on both sides of the Fraser River;
- e) work with the Minister of Transportation and Infrastructure to advance the successful completion of the Pattullo Bridge Replacement Project;
- f) work with Cabinet colleagues, communities, and regions to support the planning and development of key transit projects, like high-speed transit links for the North Shore and the expansion of rail up the Fraser Valley, which will bring cleaner transit, support economic growth and deliver more construction jobs for B.C. workers;
- g) submit to Cabinet a report on the results referred to in paragraphs (a) to (f) on or before March 31, 2023.

Honourable Bowinn Ma Minister of State for Infrastructure February 10, 2022

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Purpose of the Ministry

The Ministry of Transportation and Infrastructure plans transportation networks, provides transportation services and infrastructure, develops and implements transportation policies, and administers many related acts, regulations and federal-provincial funding programs. The Ministry strives to build and maintain a safe and reliable transportation system and provide affordable, efficient and accessible transportation options for all British Columbians. This work includes investing in road infrastructure, public transit, coastal and inland ferry service delivery, active transportation network improvements and other more socially and environmentally responsible modes of transportation, reducing transportation-related greenhouse gas emissions, and strengthening the economy through the movement of people and goods.

The Ministry invests in highway rehabilitation and side road improvements, which includes road resurfacing, bridge rehabilitation and replacement, seismic retrofits, intersection improvements and upgrades to smaller side roads to help connect communities.

Two provincial cost-sharing programs are also managed by the Ministry: the <u>British Columbia</u> <u>Active Transportation Infrastructure Grant Program</u> and the <u>British Columbia Air Access</u> <u>Program</u>. These programs help local communities invest in improvements to active transportation infrastructure and local airports respectively.

The Ministry is responsible for four Crown corporations: the <u>BC Transportation Financing</u> <u>Authority</u> (BCTFA); <u>BC Railway Company</u> (BCRC); <u>Transportation Investment Corporation</u> (TI Corp); and <u>BC Transit</u>.

Strategic Direction

In 2022/2023, the Government of British Columbia will continue its whole-of-government response to the COVID-19 pandemic with a focus on protecting the health, social and economic well-being of British Columbians. Building on our economic, environmental, and social strengths while looking to seize opportunities to improve outcomes for all British Columbians will be an important aspect of each ministry's work as we respond to COVID-19 and recover from devastating floods and wildfires. The policies, programs and projects developed over the course of this service plan period will align with the five foundational principles established by Government in 2020: putting people first; working toward lasting and meaningful reconciliation; supporting equity and anti-racism; ensuring a better future through fighting climate change and meeting our greenhouse gas reduction targets; and supporting a strong, sustainable economy that works for everyone.

This 2022/23 service plan outlines how the Ministry of Transportation and Infrastructure will support the government's priorities including the foundational principles listed above and selected action items identified in the <u>November 2020 Minister's Mandate Letter</u> and <u>Minister of State for Infrastructure's Mandate Letter</u>.

Economic Statement

B.C.'s economy has rebounded from the impacts of the COVID-19 pandemic that began in 2020, despite significant pandemic variant and climate-related events. A strong health response, high vaccination rates, increased infrastructure investments and supports for British Columbians struggling through the pandemic has helped the province rebound. While the recovery has broadened over the past year, it remains uneven with sectors like tourism, hospitality and live recreation events not fully recovered. The path of the ongoing economic recovery in B.C. and its trading partners remains highly uncertain. However, rebuild efforts from the November 2021 floods are expected to provide some support to economic activity in the province. The Economic Forecast Council (EFC) estimates that B.C. real GDP expanded by 5.1 per cent in 2021 and expects growth of 4.2 per cent in 2022 and 2.7 per cent in 2023. Meanwhile for Canada, the EFC projects national real GDP growth of 4.1 per cent in 2022 and 2.8 per cent in 2023, following an estimated gain of 4.7 per cent in 2021. As such, B.C.'s economic growth is expected to be broadly in line with the national average in the coming years. The pandemic has increased risks to B.C.'s economic outlook, such as the emergence of further variants of concern, inflationary supply chain disruptions, extended travel restrictions, and the continued impact of the slower recovery in some sectors of the B.C. economy. Further risks include ongoing uncertainty regarding global trade policies, and lower commodity prices.

Performance Planning

Goal 1: Invest in rural and urban infrastructure improvements that help build a strong, sustainable economy

Objective 1.1: Use Provincial investment dollars effectively to complete priority projects on budget and on time

Key Strategies

- Lead infrastructure planning needs of rural and urban B.C., in partnership with other Provincial ministries to support local government's priority infrastructure projects.
- Develop strategic partnerships with federal and other local government agencies, communities and the private sector to invest in priority rehabilitation and improvement projects, including flood recovery efforts, that serve the best interest of British Columbians.
- Streamline consultation, tendering, and construction of infrastructure projects to ensure projects are delivered without unnecessary delays.
- Lead negotiations for the next round of federal-provincial infrastructure programs.
- Use innovative solutions and best practices to deliver the most cost-effective transportation investment plans.

Performance Measure	2021/22	2022/23	2023/24	2024/25
	Forecast	Target	Target	Target
1.1 The percentage of projects that meet their budget and schedule	91.5%	91.5%	91.5%	91.5%

Data source: Ministry of Transportation and Infrastructure

Linking Performance Measure to Objective

This performance measure reflects the goal of being cost-conscious and evaluates all Ministry capital construction and rehabilitation projects completed each year, within the overall Transportation Investment Plan. This performance measure allows the Ministry to assess how efficiently and effectively it delivers this large suite of projects, and the consistent target represents the ability to maintain a high level of achievement despite challenges and the broad range of projects included in the target. This enables continued investment in projects that benefit rural and urban British Columbians, including those listed in the Capital Expenditures section.

Goal 2: Improve transportation network efficiency to provide British Columbians with safe and reliable access to the services they depend on

Objective 2.1: Improve highway safety and reliability

Key Strategies

- Monitor highway safety and improve high-risk locations.
- Maximize highway safety and reliability through safety-focused enhancements and low-cost improvements.
- Work with public safety partners to identify areas for safety improvements.
- Examine highway safety and reliability issues, considering climate forecasts, seismic hazards and the adaptive capacity of transportation infrastructure.
- Enhance commercial vehicle safety and enforcement in B.C.

Performance Measure	2015-19	2021/22	2022/23	2023/24	2024/25
	Baseline ¹	Forecast ²	Target ²	Target ²	Target ²
2.1 Serious collision rate on Provincial Highways (Collision per Million Vehicle Kilometre) ¹	0.155	0.139	0.135	0.132	0.129

Data source: The RCMP and ICBC

¹The baseline value represents the serious collision rate for the five-year period of 2015 to 2019.

 2 The forecast and target are based on historical trends of the 5-year rolling average serious collision rate between 2011 and 2020.

Linking Performance Measure to Objective

Targeted safety improvements, together with sound regulations/policy, ongoing monitoring and enforcement in cooperation with public safety partners, and the use of information systems and other technologies, creates a safer highway network with a reduced rate of serious crashes. The Ministry is committed to the safety and reliability of the transportation network to address areas of greatest need.

Objective 2.2: Ensure a high standard of provincial highway rehabilitation and maintenance

Key Strategies

- Administer highway maintenance contracts and assess service delivery.
- Invest in the provincial highway system to maintain safety and efficiency and to mitigate the onset of deterioration and maximize the return on infrastructure investment.
- Systematically assess the condition of provincial infrastructure to determine priority in the annual resurfacing and structure rehabilitation and replacement programs.
- Integrate climate change and seismic resilience considerations into rehabilitation projects.

Performance Measure	2021/22	2022/23	2023/24	2024/25
	Forecast	Target	Target	Target
2.2 Rating of Maintenance Contractor performance using Contractor Assessment Program	93%	93%	93%	93%

Data source: Ministry of Transportation and Infrastructure

Linking Performance Measure to Objective

Ensuring the safety and reliability of the provincial highway system through a high standard of highway maintenance protects the safety of citizens in both rural and urban settings, reduces delays and closures and increases traveller confidence in our transportation network. Information about the <u>obligations of Maintenance Contractors</u> is available on the Ministry's website.

Maintenance contracts were retendered over the last few years. The new maintenance contracts include increased standards, resulting in enhanced winter maintenance, expanded sweeping along cycling routes and more communication with the public regarding rapidly changing road conditions during severe weather events and other incidents affecting travel on B.C. roads.

The target of 93% indicates good performance from Maintenance Contractors and an indication of exceptional service delivery in exceeding contract specifications, working proactively, and promptly responding to emergencies. The target also indicates a contractor is proactively engaging and communicating with the public and local stakeholders.

Objective 2.3: Provide excellent service to all British Columbians

Key Strategies

- Communicate and engage efficiently and effectively with the Ministry's stakeholders.
- Undertake annual surveys to better understand expectations and levels of service.
- Evaluate survey results to determine how to enhance service and act on the findings.
- Ensure a GBA+ lens is applied to the planning of services and policies that impact Ministry stakeholders and the general public.

Performance Measure	2021/22	2022/23	2023/24	2024/25
	Forecast	Target	Target	Target
2.3 Survey of stakeholder and citizen satisfaction with Ministry services and processes, rated on a scale of 1 to 5	4.1	4.1	4.1	4.1

Data source: The Ministry's survey is based on the Common Measurement Tool, a survey framework designed by the Institute for Citizen Centered Service to be administered by public sector organizations to facilitate the measurement of citizen satisfaction.

Linking Performance Measure to Objective

Providing British Columbians with easy access to services, while ensuring these services are efficient and effective, contributes to a better quality of life, supports industry and the local economy. The enduring targets represent the Ministry's ability to consistently deliver high quality service.

Goal 3: Invest in transportation options that enhance network efficiency and support climate change objectives

Objective 3.1: Support local economies and communities through the continued development of a multi-modal transportation system

Key Strategies

- In partnership with other levels of government and Indigenous communities, expand public transit (including bus service and rapid transit) and support the planning and development of key transit projects, while ensuring service is affordable and accessible.
- Work with the Minister responsible for TransLink to integrate TransLink and BC Transit services.
- In collaboration with the Ministry of Municipal Affairs, encourage compact and mixed land-use around transit stations and along transit corridors through policy and funding agreements, and lead work on the Integrated Transportation and Development Strategy.
- Implement intelligent transportation systems to manage traffic and congestion, reduce idling, and enable improved transit service.
- Expand the use of HOV lanes and transit priority measures.

Performance Measure	2021/22	2022/23	2023/24	2024/25
	Forecast	Target	Target	Target
3.1 Annual public transit ridership in B.C.	165 million	246 million	267 million	270 million

Data source: Ministry of Transportation and Infrastructure, and BC Transit and TransLink ridership forecasts.

Linking Performance Measure to Objective

Increased use of public transit (higher ridership) supports growth of local economies and helps to reduce greenhouse gas emissions generated by motor vehicles. Public transit improves the effectiveness of the transportation network by opening up capacity, diminishing the carbon footprint and providing a lower cost transportation alternative for people getting to work, school and services. Provincial transit ridership levels are gradually recovering from substantial declines in 2020/21 due to impacts of the COVID-19 pandemic. As of December 2021, total ridership for BC Transit and TransLink has recovered to over 60 percent of pre-pandemic levels, reflecting improving economic activity, post-secondary institutions returning to in-person classes, more people returning to their workplaces, and other factors. Ridership levels are forecast to continue rebuilding gradually over the service plan period, supporting reduction of greenhouse gas emissions from the transportation sector - a priority for Government under its <u>CleanBC</u>: <u>Roadmap 2030</u> strategy.

Objective 3.2: Reduce greenhouse gas emissions from the transportation sector

Key Strategies

- Shift to more efficient and lower-carbon emitting modes of transportation, and cleaner fuels such as hydrogen and electricity, and pursue pilot projects that explore new transportation technologies including electric kick scooters.
- Implement CleanBC transportation initiatives like the electrification of the provincial inland ferry fleet and the implementation of Move. Commute. Connect., the provincial active transportation strategy.
- Support the adoption of zero emission vehicles (ZEVs) by contributing to a provincial network of EV charging stations, so that ZEV drivers can feel confident travelling throughout B.C.
- Continue to work with the public transit agencies as they transition to low carbon fleets through <u>BC Transit's Low Carbon Fleet Program</u> and TransLink's Low Carbon Fleet Strategy, and support TransLink's other climate action initiatives for Metro Vancouver captured in the agency's new 30-year Regional Transportation Strategy, Transport 2050.
- To reduce greenhouse gas (GHG) emissions from the commercial transportation sector, continue to invest in the Heavy-duty Vehicle Efficiency Program, reduce permit wait times, increase the use of weigh in motion technology at inspection stations, build rail grade separations, and improve rural road infrastructure.

Performance Measure	2021/22	2022/23	2023/24	2024/25
	Forecast	Target	Target	Target
3.2 Number of locations with public EV charging installed or supported by the Ministry	26	30	34	38

Data source: Ministry of Transportation and Infrastructure

Linking Performance Measure to Objective

Promoting the use of zero-emission vehicles (ZEVs), including EVs and other lower-carbon emitting transportation options, contributes to the overall health of our communities by reducing greenhouse gas emissions generated by motor vehicles. Tracking the number of EV charging stations along provincial highways and in rest areas provides a measure of the effectiveness of the EV charging station network. A robust charging network accelerates EV adoption in the province and EV use for inter-community trips. Because it is not always easy to get access to electric power in remote areas of B.C., future targets for this measure can be unpredictable and may change from year-to-year. The Ministry continues to research off-grid options to expand the province's EV charging network.

Strong communities and economies are integral to continued provincial prosperity. Through the development of multi modal transportation network, the Ministry is supporting economic innovation and community health.

Resource Summary

Core Business Area	2021/22 Restated Estimates ¹	Restated 2022/23 2023/24 Estimates ² Plan		2024/25 Plan					
	Operating Expenses (\$000)³								
Transportation and Infrastructure Improvements	16,497	29,586	29,586	26,986					
Public Transportation ⁴	327,986	344,247	344,300	343,689					
Highway Operations	550,680	561,180	561,180	561,180					
Commercial Transportation Regulation	3,059	3,059	3,059	3,059					
Executive and Support Services	17,900	17,908	17,923	17,923					
Total	916,122	955,980	956,048	952,837					
Ministry Capital Expenditures (Consolidated Revenue Fund) (\$000)									
Highway Operations	3,506	5,005	4,373	4,373					
Total	3,506	5,005	4,373	4,373					

¹ For comparative purposes, the amounts shown for 2021/22 have been restated to be consistent with the presentation of the 2022/23 Estimates.

² Further information on program funding and vote recoveries is available in the <u>Estimates and Supplement to the</u> <u>Estimates.</u>

³ Operating expenses are reported net of funding from external sources, primarily the BC Transportation Financing Authority.

⁴ Public Transportation operating expenses include government contributions towards public transit and coastal ferry services.

	2021/22 Forecast	2022/23 Budget	2023/24 Plan	2024/25 Plan		
Rev	enue (\$000)					
Tax revenue ¹	467,000	474,000	477,000	480,000		
Amortization of deferred contributions ²	172,175	171,026	168,494	170,434		
Other operating revenue ³	32,823	37,484	32,492	27,646		
Total	671,998	682,510	677,986	678,080		
Expen	ditures (\$00	0)				
Highway Operations	741,526	782,990	706,341	831,469		
Transit Programs	137,470	182,493	228,781	225,612		
Ferry Operations	24,752	24,123	24,042	23,985		
Other	143,132	152,501	159,383	153,382		
Debt Servicing Costs ⁴	413,118	463,403	559,439	668,632		
Total	1,459,998	1,605,510	1,677,986	1,903,080		
Net Loss (\$000)						
Net operating loss	(788,000)	(923,000)	(1,000,000)	(1,225,000)		

BCTFA Statement of Operations:

¹Tax revenue includes 6.75 cents per litre motor fuel tax and a provincial sales tax on short-term car rental of \$1.50 per day. ²Contributions towards capital assets are deferred and amortized to income at the same rate as the related highway infrastructure is amortized to expense.

³Other operating revenue includes property sales, rental revenues, grants from the Province and revenue from subsidiaries. ⁴Interest on borrowing used to finance construction work in progress is capitalized. Upon substantial completion, related interest costs are expensed.

Transportation Investments

(\$ millions)	2022/23 Budget	2023/24 Plan	2024/25 Plan	Total			
Provincial Investments:							
Highway Corridor Rehabilitation	343	232	233	808			
Side Road Improvements	183	119	122	424			
Pattullo Bridge Replacement	300	206	191	697			
Highway 99 Tunnel Program	91	149	318	558			
Highway 1 to Alberta Border	283	277	172	732			
Broadway Subway	411	374	136	921			
Transit Infrastructure ¹	290	442	316	1,048			
Transportation and Trade Network Reliability	420	397	218	1,035			
Safety Improvements	42	30	30	102			
Community and other programs	13	26	19	58			
Total Provincial Transportation Investments	2,376	2,252	1,755	6,383			
Investments funded through contributions from Federal Government and Other Partners:							
Contributions from all partners	551	521	590	1,662			
Total Investments in Transportation Infrastructure ²	2,927	2,773	2,345	8,045			

¹Includes notional funding for Surrey-Langley SkyTrain that remains subject to Treasury Board project approval. ²Total investments include operating and capital spending.

Capital Expenditures

	-		Project	Estimated	Approved		
Majo	r Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)		
<u>Highwa</u> Improv	ay 91 – Alex Fraser Bridge Capacity rements	2019	66	4	70		
	Objective: Implement a counter-flow system during peak travel times through the addition of a seventh lane, a moveable barrier system and a delay time information system.						
maxim	Costs: The estimated cost is \$70 million. The Government of Canada is contributing half of eligible costs up to a maximum of \$33 million under the National and Regional Priorities of the new Building Canada Fund. The Project completed in 2020. The asset has been put into service and only trailing costs remain.						
Benefit	ts:						
•	Improve traffic capacity and reduce travel times.	time delays for c	ommuters and g	goods movemen	nt during peak		
•	Respond to community and local governme	ent concerns.					
Risks:							
•	This project is substantially complete. No s	significant risks i	remain.				
<u>Highwa</u> <u>Check</u>	ay 1 – Illecillewaet Four-Laning and Brake	2021	71	14	85		
check a	Tour failing of two knohenes to mercuse vehicle storage during whiter closures and to improve passing						
•	opportunities year round Acceleration and deceleration lanes for the	brake check					
•	Improved geometrics to 100 km/h design s						
•			ive route				
the Pro net cos	• Turn-around to enable trucks and cars to choose an alternative route Costs: The gross project cost is \$85.22M with a contribution of \$15.5M from the Government of Canada under the Provincial-Territorial Infrastructure Component of the New Building Canada Fund, bringing the provincial net cost to \$69.72M. The estimated total project cost includes engineering, construction, First Nations consultation, environmental and project management.						
Benefit	ts:						
•	Improve safety, mobility, reliability and efficient commercial transporters, tourists, local rest						
•	Improve travel speeds and relieved congest	tion, which will	reduce driver fr	ustration and in	nprove safety.		
•	Improve capacity and safety for queued vehicles and reduced traveller delay due to highway closures during winter storm and avalanche control events.						
•	Improve brake check safety and capacity.						
•	Provide an opportunity for vehicles to safely turn around in the event of extended highway closures.						
•	Improve rural highway passing capability and safety.						
Risks:							
•	This project is substantially complete. No s	significant risks i	remain.				

Majo	r Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)		
<u>Highwa</u>	Highway 1 – Lower Lynn Corridor Improvements202117325198						
Main St include	Objective: Construction of replacement structures over Highway 1 at Mountain Highway, and Keith Road and Main Street/Dollarton Highway as well as municipal improvements on Keith Road/Bridge. The Project also includes the construction of two westbound collector-distributor lanes and the construction of two new structures on either side of the existing Highway 1 Lynn Creek Bridge.						
	The estimated cost is \$198 million, inclusive ations from other parties totalling \$121 milli		uisition costs ar	nd contingencie	s with		
Benefit	s:						
•	Improve safety for all road users.						
•	Reduce congestion and improve travel time	es through a key	corridor.				
•	Support community connectivity.						
Risks:							
•	This project is substantially complete. No s	significant risks i	remain.				
<u>Highwa</u>	ny 99 – 10 Mile Slide	2021	70	14	84		
	ive: Long-term stabilization of the Ten Mile within Xaxli'p's Fountain Reserve 1A.	Slide, approxim	ately 17 kilome	tres northeast o	f Lillooet and		
supervi	The estimated cost is \$84 million, which inc sion, First Nations accommodation and cont ction in September 2019 and completed in C	ingency. Phase 2					
Benefit	s:						
•	Improve safety and reliability.						
•	Maintain direct connection between Lilloo	et and Kamloops	s.				
•	• Maintain community connectivity and cohesiveness for the Xaxli'p community.						
•	Limit future costs associated with extraord	inary maintenan	ce and stabilizat	tion measures.			
Risks:							
•	Managing gravel road surface until paving	in 2023.					
•	Construction claims.						

Ma	jor Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)	
<u>High</u>	way 4 – Kennedy Hill Safety Improvements	2022	41	13	54	
Hill, widtl	ective: Upgrade the 1.5-kilometre section of Hi to a standard that meets a minimum design spen of 1.5 m to accommodate cyclists.					
Cost	s: The approved project budget is \$54 million.					
Bene	efits:					
•	Improve safety and mobility of traffic.					
•	Facilitate economic development and touri	st travel.				
Risk	s:					
•	Geotechnical conditions.					
• Environmental impacts.						
Maintaining traffic flow during construction.						
•	Construction claims.					
<u>High</u>	way 14 Corridor Improvements	2022	43	34	77	
trans shou	ective: To enhance safety, introduce opportunit it use to help build a stronger local and regiona lder widening 10 kilometres of Highway 14 ber gning and four laning with median division over	l economy. Thes tween Otter Poin	e objectives wi t Road (west) a	ll be met by res nd Woodhaven	urfacing and Road, and by	

realigning and four laning with median division over 1.5 kilometres of the highway generally between Connie Road and Glinz Lake Road, including an underpass sideroad connection to Gillespie Road that includes a new Park and Ride transit facility.

Costs: \$77 million total Capital cost made up of \$29 million in funding from the Government of Canada, and \$48 million in Provincial funding.

Benefits:

- Mobility improvements via the introduction of wider paved shoulders for cyclists and improved sideroad connections and the new Park and Ride transit facility.
- Safety improvements via wider paved shoulders, better surface conditions, straighter alignments, intersection upgrades, median barrier division, channelization and lighting.
- Reliability improvements as a result of the safety benefits associated with reduced collisions and associated highway closures, as well as new passing opportunities.

- Properties.
- Construction and Traffic Management.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
Highway 1 – Chase Four-Laning	2023	59	161	220

Objective: Upgrading approximately 4.9 kilometres of the Trans-Canada Highway to increase safety and capacity by expanding narrow two-lane sections, constructing safer access points to local communities and promoting safer pedestrian and cycling inter-community access.

Costs: Estimated project cost is \$220 million, with the Government of Canada contributing \$12.1 million under the Provincial-Territorial Component of the new Building Canada Fund. The Chase Four Laning project is composed of the following phases:

- Phase one, Chase Creek Road to Chase West, will be completed in Fall 2022
- Phase two, Chase West to Chase Creek Bridge, will be completed in Fall 2023
- Phase 3, Hoffman's Bluff to Chase West has released the associated federal funding and been removed from the Chase Four Laning project to allow for additional consultation with the Neskonlith Indian Band. The Ministry is continuing with the detailed design process, determining the property requirements and working closely with the Neskonlith Indian Band to address any concerns and impacts the design could have on the band.

Benefits:

- Improve safety, mobility and reliability of this section of Highway 1 for all road users.
- Better capacity on a vital transportation link between British Columbia and the rest of Canada, supporting regional, provincial and national economic growth.
- Improves intersections and accesses for local residents of the Village of Chase and Indigenous communities.
- Improves pedestrian and cyclist accommodation for the communities.

- Potential additional costs related to completing property acquisition.
- Potential cost increase and delays related to evaluation of scope change requests following stakeholder input.
- Potential for changed conditions during construction.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
<u>Highway 1 – Salmon Arm West</u>	2023	67	88	155

Objective: Upgrade 3.2 kilometres of the Trans-Canada Highway to four lanes to improve safety, mobility and reliability on this key section of the corridor. The Project includes four-laning, intersection improvements, replacement of Salmon River Bridge, construction of an interchange with frontage road connections at 1st Avenue SW, construction of frontage roads to consolidate access to and from Highway 1, and a multi-use pathway for pedestrians, cyclists and other non-motorized users. Includes up to four intersections, a new bridge across the Salmon River, a new interchange, and approximately four kilometres of frontage roads.

Costs: The current estimate is \$155 million including a \$31 million Government of Canada contribution under the Provincial-Territorial Infrastructure Component of the new Building Canada Fund. The Project is composed of two segments and will be delivered in two phases. The first phase, from 1st Avenue SW to 10th Avenue SW, was tendered 2020.

Benefits:

- Improve the safety, mobility and reliability of the Trans-Canada Highway corridor.
- Improve safety for the City of Salmon Arm, local Indigenous community members and the surrounding area with improvements to intersections and accesses.
- Improve pedestrian and cyclist accommodation with construction of a multi-use pathway that will integrate with the community trail networks.
- Mitigate impacts of projects on Indigenous interests including archaeological, environmental and cultural interests.

Risks:

- Archaeological impacts.
- Potential additional costs or delays related to completing property acquisition.

<u>Highway 91 – Highway 17 Deltaport Way</u> <u>Corridor</u>	2023	157	103	260
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Objective: A combination of improvements to the existing Highway 91, Highway 17, Highway 91 Connector and Deltaport Way to improve travel safety and efficiency. These upgrades will improve local and commercial travel in the area and reduce conflicts between commercial vehicles and other traffic. They also complement the Alex Fraser Bridge improvements and 72nd Avenue Interchange projects.

Costs: The estimated cost is \$260 million, with the Government of Canada contributing \$81.7 million, the Port of Vancouver \$87.5 million, the Province of B.C. \$87.5 million, and the Tsawwassen First Nation \$3.5 million.

Benefits:

- Reduce congestion to improve travel time and reliability through Delta.
- Improve traffic safety for goods movers and the travelling public, with lowered collision risk and better operating hours at the Nordel commercial inspection facility.
- Support community and economic development, with better access to employment areas, faster access between South Delta and North Delta/Surrey, improved cycling connections, and improved permitting and inspection service for commercial vehicle operators.

- Geotechnical conditions.
- Traffic management during construction.
- Archeological finds.
- Utility relocations.

Majo	r Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)	
Kooten	ay Lake Ferry Service Improvements	2023	36	49	85	
Object and acc Costs: governm	ive: To replace the aging MV Balfour with a cessibility at both ferry terminals (Balfour and The approved project budget is \$85 million. ments. Federal funding of \$17 million is beir uilding Canada Fund – Provincial-Territorial	d Kootenay Bay) The project is cong provided throu Infrastructure C ment of MV Balfo ummer peaks.). ost shared betwe ogh the omponent. our. and Kootenay	een the provinci Bay).	-	
•	Vessel assembly in a remote location. Archaeological and geotechnical conditions. Market conditions may impact project pricing and vessel delivery.					
West F	raser Road Realignment	2023	33	70	103	
Objective: Reconstruct 5.6 kilometres of two-lane West Fraser Road on a new alignment that by-passes a closed eroded section that was washed out in 2018 and is located in an active landslide area. A new bridge will be constructed over Narcosli Creek along a new alignment. This project will improve the connectivity of local Indigenous and non-Indigenous communities in the area by eliminating the need to take a substantial detour which has been in place since the closure. Costs: The estimated cost is \$103 million, and the Project is eligible for reimbursements from the Government of Canada through the Disaster Financial Assistance Arrangements (DFAA). Benefits:						
•	Improves travel time and reliability for residents affected by the detour.					
•	Better connects Indigenous communities that are separated by the closure.					
•	Improves the ability for local industries to get their goods and resources to their destinations.					
•	Improves safety of all road users through le	ower collision ris	sk.			
•	Avoids active slides and rockfall areas.					
Risks: • • •	Geotechnical conditions. Archeological finds. Potential for changed conditions during con Potential for flooding in Narcosli Creek dra					

Majo	r Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
<u>Highwa</u>	ay 1 – Quartz Creek Bridge Replacement	2024	26	95	121
replace Culver	ive: Upgrading approximately 4.4 kilometre ement of the existing Quartz Creek bridge, re t, a new wildlife underpass structure, and acc Approved project budget is \$121 million, wi	habilitation and e cess improvemen	extension of the ts to forest serv	existing Wiser ice roads.	nan Creek
	vincial-Territorial Infrastructure Component			0	minion under
Benefi	ts:				
•	Improve safety, mobility, and reliability for	or all users on this	s section of the	Trans Canada H	Highway.
•	Increase capacity on a vital transportation supporting regional, provincial, and nation			and the rest of C	Canada,
•	Improve safety for accessing forest service	e roads.			
Risks:					
•	Third party agreements.				
•	Schedule delays.				
•	Geotechnical conditions.				
Highwa	ay 1 – 216th to 264th Street Widening	2024	24	211	235
Canada 232nd 150 con Costs:	tive: Extension of 10 kilometres of High Occ a Highway between 216th and 264th streets i Street; the replacement of Glover Road Under mmercial vehicles and 45 passenger vehicles The approved project budget is \$235 millior um of \$109 million under the Provincial-Ter	n Langley. The p erpass and the Cl s. n, with the Gover	Project will inclue Rail Underpase nment of Canad	ude a new interess and a parking la contributing	change at g lot for up to up to a
Fund.			_		-
Benefi	ts:				
•	Improve safety for all road users.				
•	Reduce congestion and improve travel tim	es through a key	corridor.		
•	Support HOV use.				
Risks:					
•	Geotechnical conditions.				
•	Archeological impacts.				
•	Environmental impacts and contaminated	soils.			
•	Replacement of the Canadian Pacific Rails along the Roberts Banks Rail Corridor.	way crossing of H	Highway 1 whil	e keeping rail ti	raffic moving
•	Maintaining adequate traffic flow during c	construction may	require tempora	ary works and d	levelopment of

- comprehensive traffic control plans.
- Construction cost escalation.
- Access to partnership funding.
- Schedule delays due to market situation as a result of flood recovery efforts.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
<u>Highway 1 – Ford Road to Tappen Valley Road</u> Four-Laning	2024	5	238	243

Objective: The Trans Canada Highway 1 Ford Road to Tappen Valley Road Four-Laning project will upgrade approximately 4.3 km of the Trans-Canada Highway (TCH) and replace the Tappen Overhead bridge. The western limit of the project begins at Ford Road and extends through to its terminus 400 metres east of Tappen Valley Road.

Improvements include:

- 4.3 kilometre section of the Trans-Canada Highway widened from two to four lanes
- New east bound commercial carrier pullout
- New frontage road system to provide safer access to the highway
- Modified protected T-intersection at Tappen Valley Road
- Replacement of the existing Tappen Overhead bridge
- Installation of median barrier

Costs: The total project cost is estimated at \$243 million. This includes up to \$82 million from the Government of Canada under the Provincial-Territorial Infrastructure Component of the New Building Canada Fund. The estimated total project cost includes engineering, property acquisition, environmental, construction, First Nations consultation, archaeology, and project management.

Benefits:

- Improve safety, capacity and movement of goods and services.
- Provide safer access to local roads for residents, commercial vehicles, tourists and travellers.
- Reduce travel times during peak travel periods.
- Wider shoulders and new frontage road system to support cyclists, pedestrians, and people using other modes of active transportation.

- High potential archaeology sites.
- Extensive Section 35 Process with Little Shuswap Lake Band.
- Geotechnical concerns and rock horizon variances.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
<u>Highway 1 – Kicking Horse Canyon</u>	2024	256	345	601

Objective: Upgrade the final 4.8 kilometres of the Kicking Horse Canyon section of the Trans-Canada Highway to a modern, four-lane standard, completing the corridor improvements from the junction of Highway 95 at Golden to the western boundary of Yoho National Park. This portion of the Trans-Canada Highway serves as a gateway between British Columbia and the rest of North America and is a key part of the province's interprovincial trade, tourism and resource economies. The first three phases of the project have been completed and are now in operation.

Costs: The current estimate for Phase 4 is \$601 million. The Government of Canada is contributing \$215 million under the National Infrastructure Component of the new Building Canada Fund.

Benefits:

- Increase the safety, reliability and capacity on a critical provincial and national gateway.
- Strengthen economic development through increased tourism and efficient movement of goods and services.

Risks:

- Challenging climatic and geographic conditions.
- Traffic management during construction.

Pattullo Bridge Replacement	2024	419	958	1,377
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Objective: A new four-lane bridge that meets current seismic and road design standards and provides a safe and reliable crossing for vehicles, pedestrians and cyclists and network connections in Surrey and New Westminster.

Costs: The estimated cost is \$1.377 billion which includes planning, engineering, construction, site supervision, property acquisition, regulatory approvals, removal of the existing Pattullo Bridge, interest during construction and contingency. The estimated cost includes both capitalized and expensed costs. The new bridge is expected to open in 2024. The removal of the existing bridge will occur after the new bridge is in service.

Benefits:

- Improve safety for drivers.
- Improve seismic resiliency and emergency response capability.
- Improve regional connectivity.
- Improve the movement of goods.
- Provide safer corridors for pedestrians and cyclists.

- Managing traffic during construction.
- Managing archeological impacts.
- Permitting/regulatory processes.
- Utility relocations.
- Coordinating rail interface.
- Third party agreements.
- Geotechnical conditions.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
Highway 1 – RW Bruhn Bridge	2025	28	197	225

Objective: The R.W. Bruhn Bridge and Approaches Project supports the provincial commitment to accelerate Highway 1 upgrades to the Alberta border, and addresses the immediate needs of the aging bridge infrastructure and associated safety, mobility and reliability issues. The project scope includes four-laning approximately 1.98 kilometres of Highway 1 and replacing the R.W. Bruhn Bridge. The Project extends approximately 2.5 kilometres and includes at-grade intersection improvements at Old Sicamous Road, Old Spallumcheen Road, Gill Avenue and Silver Sands Road. The scope includes a new multi-use path to increase safety for pedestrians and cyclists.

Costs: The estimated project cost is \$225 million. The project is cost shared between the provincial and federal governments with a federal contribution of \$91 million and a provincial contribution of \$134 million. Federal funding is being provided through the new Building Canada Fund. The estimated total project cost includes engineering, construction, land acquisition, First Nations consultation, archaeology, and project management.

Benefits:

- Improve safety and traffic flow along the Trans-Canada Highway corridor.
- Replace aging R.W. Bruhn Bridge.
- Improve safety of local road connections at the Trans-Canada Highway.
- Enhance safety for pedestrians and cyclists along the Trans-Canada Highway corridor.
- Continue collaboration with Indigenous people and government on opportunities and accommodation.

- Archeological finds.
- Geotechnical conditions.
- Traffic Management (Vehicle, Marine, Pedestrian/Cyclist) during construction.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
Broadway Subway	2025	633	2,194	2,827

Objective: The proposed project is a 5.7-kilometre extension of the existing Millennium Line along Broadway from VCC Clark station, entering a 5-kilometre tunnel at the Great Northern Way campus and continuing as a subway to Arbutus Street. Six underground stations will be built: one at the Great Northern Way campus, and five along Broadway Avenue (Main Street, Cambie Street, Oak Street, Granville Street and Arbutus Street). Upon completion, it will be fully integrated into the regional transportation network and operated by TransLink.

Costs: The Broadway Subway Project will cost \$2,827 million and will be funded through contributions of \$1,830 million from the Government of British Columbia, \$897 million from the Federal Government and \$100 million from the City of Vancouver. The Project is a key part of the rapid transit program in Metro Vancouver's Mayors' Council 10-Year Vision, Phase 2. The Vision is funded by the governments of B.C. and Canada, TransLink, and local municipalities.

Benefits:

- Provide faster, convenient and more reliable transit service.
- Improve transportation options and economic development potential.
- Connect communities and regional destinations and fill the gap in the regional transit network.
- Help meet future needs by keeping people and goods moving and supporting a growing economy.
- Support environmentally friendly transportation options.
- Improve regional affordability and access to the Broadway Corridor.

- Traffic management during construction.
- Geotechnical Conditions.
- Third Party Agreements.
- Future expandability.
- Utility relocations.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
Highway 99/Steveston Interchange Transit and	2025	2	135	137

Objectives: Support sustainability of Fraser River communities, facilitate increased share of sustainable modes of transportation, enhance regional goods movement and commerce and support a healthy environment.

Costs: The estimated cost of the project is \$137 million including project management, design, construction, property acquisition, interest during construction and contingency. The new transit and cycling improvements are expected to be complete in 2023 and the interchange in 2025.

Benefits:

- Relieve congestion at key interchanges within the Highway 99 corridor.
- Improve transit reliability and operations within the Highway 99 corridor.
- Address significant transit vehicle travel times within the corridor.
- Improve travel reliability for priority vehicles such as transit and high-occupancy vehicles/electric vehicles.
- Improve long-term mobility and reliability for transit travel within the Highway 99 corridor and support higher capacity transit services.

- Higher than anticipated construction material costs.
- Environmental and geotechnical conditions.
- Protection of proximal infrastructure.
- Traffic management during construction.
- Third party interfaces (e.g., utilities).
- Regulatory and permitting requirements.

Major Capital Projects (over \$50 million)	Targeted Year of Completion	Project Cost to Dec 31, 2021 (\$m)	Estimated Cost to Complete (\$m)	Approved Anticipated Total Cost (\$m)
Fraser River Tunnel Project	2030	3	4,145	4,148

Objective: A new eight-lane immersed tube tunnel that will provide more capacity for drivers and transit users in both directions, while providing walking and cycling options at this crossing for the first time.

Costs: The estimated cost is \$4.148 billion which includes planning, engineering, construction, site supervision, property acquisition, regulatory approvals, removal of the existing George Massey Tunnel, interest during construction and contingency. The estimated cost includes both capitalized and expensed costs. The new tunnel is expected to open in 2030. The removal of the existing tunnel will occur after the new tunnel is in service.

Benefits:

- More capacity for drivers and transit users in both directions.
- Improved transit speed and reliability along the Highway 99 corridor.
- More travel options for users with a new connection for pedestrians and cyclists.
- Improved seismic resiliency and emergency response capability.
- Maintains the current clearances for the Fraser River navigational channel.

- Geotechnical conditions.
- Permitting/regulatory processes.
- Managing highway and river traffic during construction.
- Managing archeological impacts.
- Utility relocations.
- Coordinating rail interface.
- Third party agreements.

Appendix A: Agencies, Boards, Commissions and Tribunals

As of March 31, 2022, the Minister of Minister of Transportation and Infrastructure is responsible and accountable for the following:

BC Transit

BC Transit coordinates the delivery of public transportation across B.C. with the exception of those areas serviced by TransLink (Metro Vancouver). BC Transit's Service Plan is available on their <u>website</u>.

BC Container Trucking Commissioner

The Office of the BC Container Trucking Commissioner enforces compliance with the *Container Trucking Act*, issues Container Trucking Services licences within the Truck Licencing System and facilitates ongoing policy and regulatory review. More information about the role of the BC Container Trucking Commissioner is available at <u>obcctc.ca</u>.

Passenger Transportation Board

The Passenger Transportation (PT) Board is an independent tribunal established under the *Passenger Transportation Act*. In its adjudicative roles, the PT Board operates independently from Government. The PT Board is accountable to the Minister of Transportation and Infrastructure for complying with applicable government administrative, financial and human resources and other policies. More information on the Board's role and its strategic plan is available at <u>ptboard.bc.ca</u>.

Transportation Investment Corporation (TI Corp)

Transportation Investment Corporation (TI Corp) was established under the *Transportation Investment Act*. TI Corp became a subsidiary of BCTFA on April 1, 2018, and has a mandate to provide enhanced oversight, management and delivery of major capital transportation projects, including the new Pattullo Bridge Replacement Project, the Kicking Horse Canyon Project – Phase 4, the Broadway Subway Project, the Fraser River Tunnel Project and the Steveston Interchange Project. TI Corp's Service Plan is available on their <u>website</u>.

Appendix B: Non-Reporting Crowns

BC Transportation Financing Authority (BCTFA)

Organizational Overview:

The BC Transportation Financing Authority (BCTFA) was established in 1993 as a Crown corporation operating under the Transportation Act with a mandate to plan, acquire, construct, hold, improve or operate transportation infrastructure throughout B.C. The BCTFA owns all provincial highways and land held for construction of future transportation infrastructure. However, administration, regulatory responsibility and operational authority for management of highways, as set out in the Transportation Act, are the responsibility of the Minister and the Ministry of Transportation and Infrastructure. The BCTFA has no dedicated staff. Management is provided by staff at the Ministry of Transportation and Infrastructure.

Corporate Governance:

The Minister of Transportation and Infrastructure is the Minister responsible for the BCTFA and the sole member of the Board of Directors. The Deputy Minister of the Ministry of Transportation and Infrastructure is appointed as the Chief Executive Officer and is responsible for the business and operations of the BCTFA.

The BCTFA has two subsidiaries: Transportation Investment Corporation (TI Corp); and the British Columbia Railway Company (BCRC).

Financial Statements:

BCTFA Audited Financial Statements

BCTFA Statement of Operations

BCTFA Performance Plan 2022/23-2024/25

Goal 1: Maximize the financial, social and economic benefits of provincial transportation investments.

Strategies:

- Protect existing transportation infrastructure by replacing, rehabilitating and seismic retrofitting of the transportation networks;
- Invest wisely with comprehensive transportation investment plans that support long-term and sustainable economic growth;
- Develop strategic partnerships with federal and local government agencies, communities and private sectors that serve the best interest of British Columbians; and,
- Use innovative solutions and best practices to deliver the most cost-effective transportation investment plans.

British Columbia Railway Company (BCRC)

Organizational Overview:

BCRC's primary mandate is to acquire and hold railway corridor and strategic port lands and to make related infrastructure investments to provide benefits to the province. BCRC owns the former BC Rail railway lands and tracks infrastructure, which is leased to CN Rail through the Revitalization Agreement. Consistent with western trade corridor strategies, BCRC owns and operates the Roberts Bank Port Subdivision rail line (a 40-kilometre track from Surrey to Roberts Bank coal and container terminals). BCRC, through its subsidiary BCR Properties Ltd., also owns port-related lands which are leased to terminal operators, including those upon which the Vancouver Wharves and Squamish Terminals port facilities operate.

BCRC is a corporation incorporated under the British Columbia Railway Act. On April 1, 2010, BCRC moved under the control and management of the Ministry of Transportation and Infrastructure, becoming a wholly owned subsidiary of the BC Transportation Financing Authority (BCTFA).

BCRC has retained its legislative authority and is governed by two principal pieces of legislation. The British Columbia Railway Act establishes the corporation's structure, governance, responsibilities and accountabilities. The British Columbia Railway Finance Act establishes the borrowing and investment framework for BCRC. BCRC must also meet the requirements common to other government corporations and organizations under the Financial Administration Act and the Budget Transparency and Accountability Act.

Corporate Governance:

The Deputy Minister of the Ministry of Transportation and Infrastructure is the sole member and Chair of the Board of Directors.

Goals and Strategies:

Goal 1: Provide open access for the three class one railways serving the Roberts Bank port terminals via BCRC's Port Subdivision and ensure safe, reliable and efficient freight train operations

Key Strategies:

- Conduct dispatching, train control and yard management in a manner that provides fair and equal access to Roberts Bank port terminals;
- Maintain railway track and infrastructure in compliance with standards acceptable to Technical Safety BC and Transport Canada; and
- Maintain cooperative relationships with port terminal operators and neighbouring municipalities of Delta and Surrey.

Goal 2: Participate in joint planning and development initiatives related to western trade corridor strategies

Key Strategies:

- Provide advice and support to further trade corridor strategies;
- Secure through lease, purchase, or other means, lands suitable for supporting trade corridor objectives; and
- Make investments in infrastructure projects that support western trade corridors.
- **Goal 3:** Effective and efficient management of the long-term leases of BCRC's strategic assets, including the Revitalization Agreement with CN Rail, the Vancouver Wharves Operating Lease Agreement with Pembina Pipelines and the property lease with Squamish Terminals

Key Strategies:

- Manage a positive landlord-tenant relationship with Squamish Terminals, CN Rail and Pembina Pipelines;
- Monitor CN Rail compliance with terms of the Revitalization Agreement and Pembina compliance with terms of the Operating Lease Agreement; and
- Protect the strategic interests of BCRC and the Province whenever terms of the Revitalization Agreement and the Operating Lease Agreement require enforcement or interpretation.