

There is recent talk about setting up a Passenger Rail Service to Whistler,

Whistler Passenger Rail Development Analysis

Cascadia Improvements and Cross-Border Development

*The Socio-Economic Impact of Passenger Rail Stations can cover multiple different stations,
so it could be altered to Socio-Economic Impact of Vancouver Passenger Rail Station.*

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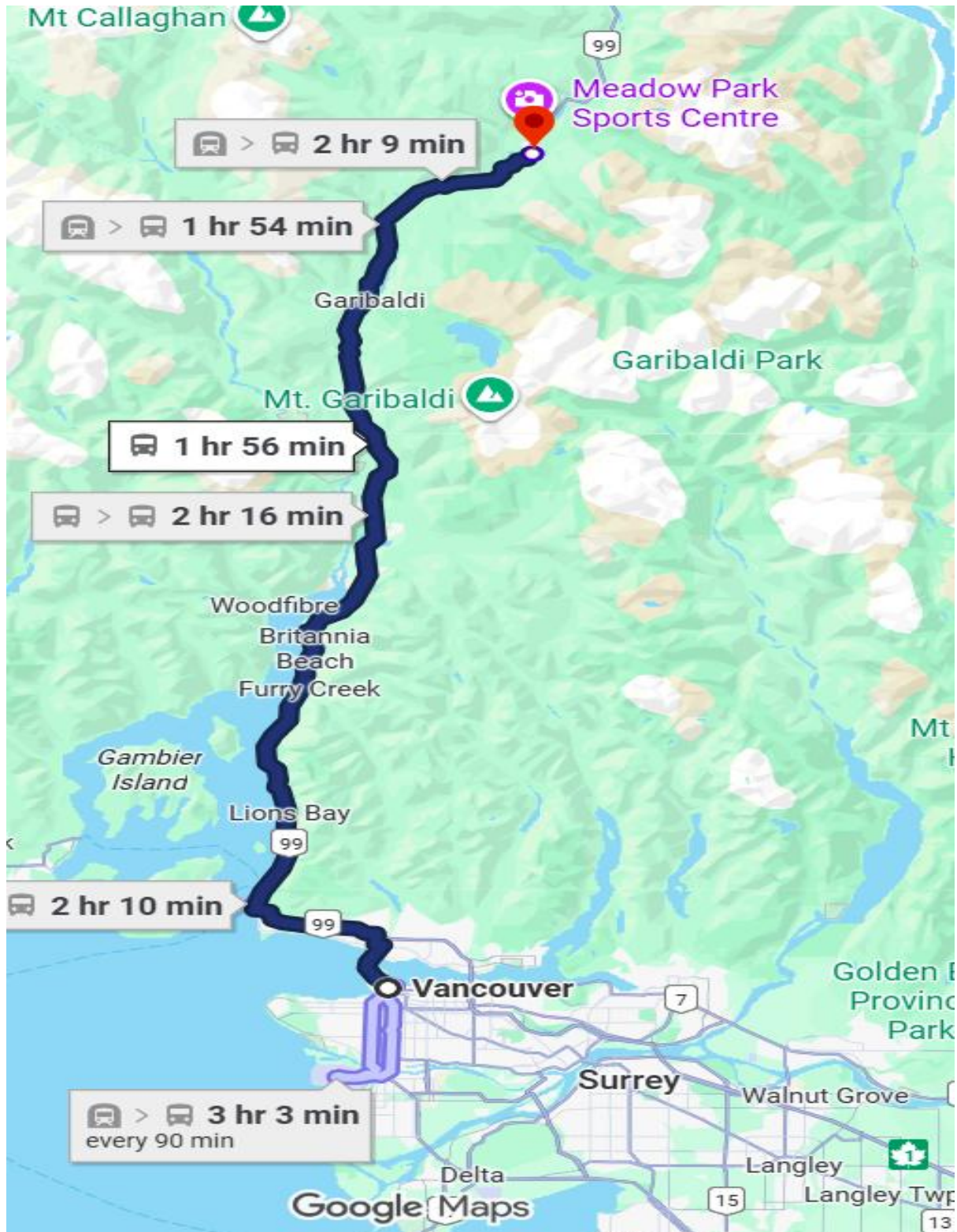
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Executive Summary

The proposal to reintroduce passenger rail on the Vancouver-Whistler corridor addresses regional transportation, sustainability, and development concerns immediately. First, mounting demand to travel and current Highway 99 congestion highlight the limitations of highway-only access alone and the calls for a guaranteed year-round backup. Second, evidence confirms that passenger rail will reduce greenhouse gas emissions and facilitate sustainable land-use practices by reducing reliance on private automobiles (Papagiannakis & Yiannakou, 2022). Third, rail investments have economic benefits in that they improve employment, tourism, and commerce around station locations. However, as property value increases around transit corridors, research cautions that it can lead to gentrification and displacement if not accompanied by affordable housing programs (Bardaka, 2024; Rojas, 2024). Finally, phased implementation allows authorities to strike a balance between costs, coordinate government, and test demand before widening service. Taken together, evidence suggests a phased rail strategy with a focus on environment sustainability and social-economic equity as the optimal means to facilitate mobility, initiate economic development, and give inclusive benefit along the corridor of Vancouver–Whistler

Image 1

Sea to Sky Highway Map

Source: <https://www.google.ca/maps/dir/Vancouver,+British+Columbia/Whistler>

Image 2

Tourism attractions in Whistler

**Image 3**

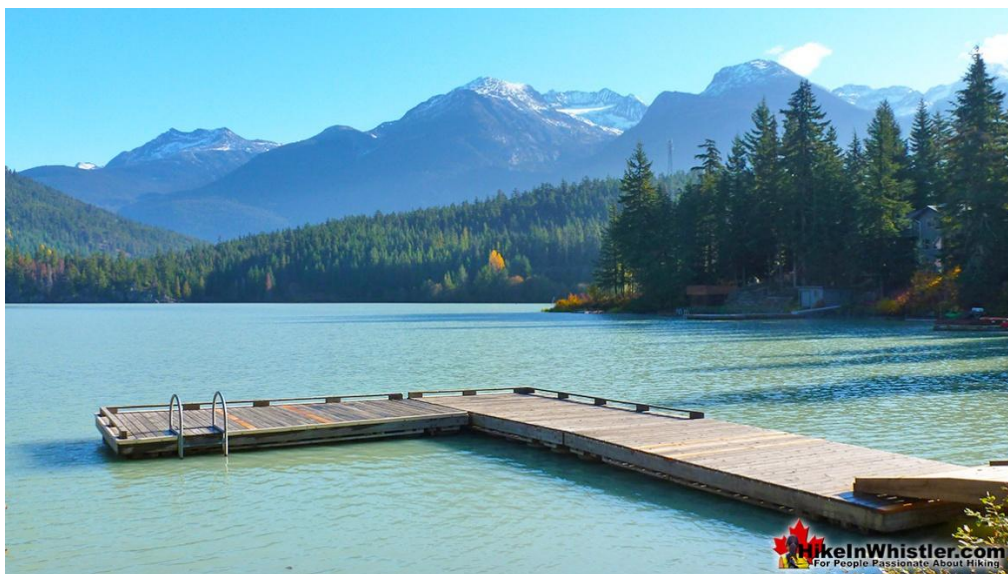
Image 4



Source: <https://www.whistler.com/activities/>

Image 5

Green Lake



Source: <https://hikeinwhistler.com/index.php/hiking-glossary/green-lake>

Image 6*Rainbow Park*

Source: https://www.tripadvisor.ca/Attraction_Review-g154948-d6707256-Reviews-Rainbow_Park-Whistler_British_Columbia.html

Image 7*Neeta Lake*

Source: <https://montecristomagazine.com/travel/summer-nita-lake-lodge#gsc.tab=0>

Introduction

The Vancouver, Squamish, and Whistler Sea-to-Sky corridor is crucial for commuter and tourist travel. However, the increased demand for travel and the geographic weaknesses of Highway 99 have renewed the interest in passenger rail as a complement mode of transport. Rail has been identified to diversify mobility while meeting climate and resilience goals (Papagiannakis & Yiannakou, 2022).

Along with mobility advantages, rail investment influences regional development more broadly. Studies show that rail corridors attract firms, promote compact land-use patterns, and enhance job accessibility (Rojas, 2024). These advantages may, however, be attended by disadvantages. For example, property value appreciation around stations can deepen inequities in the absence of housing affordability and inclusionary policies (Bardaka, 2024).

This constitutes the premise for considering the socio-economic, environmental, and technical aspects of reintroducing passenger rail in the Vancouver–Whistler region with particular emphasis on balancing development gains and equity and sustainability.

Literature Review / Background

The scholarly literature consistently finds both promise and peril in passenger rail projects. Among the findings that hold up is that the proximity of rail stations is capitalized into property values, often stimulating development and tourism (Rojas, 2024). While signaling economic potential, this also can trigger displacement pressure if not accompanied by affordable housing policies (Bardaka, 2024). Equity-oriented planning frameworks are therefore essential to ensuring inclusive outcomes.

A second general theme is the rail contribution towards advancing sustainability. Rail investment has a direct association with reduced car dependence and reduced carbon emissions, particularly where it is used in conjunction with transit-oriented development

(Papagiannakis & Yiannakou, 2022). Denser land use in proximity to stations also yields long-term economic and environmental dividends.

Literature also identifies phased or incremental approaches as viable options for implementation. Phased rail development allows coordination of government, trial of financial viability, and risk management before full expansion (Bardaka, 2024). The above studies in total suggest the socio-economic analysis of Vancouver–Whistler rail should incorporate property value analysis, equity audits, and environmental modeling in a way that benefits are made widely and durably available.

In the Cascadian case, long-term planning for future Amtrak Cascades improvements and ultra-high-speed rail to be implemented demonstrates the resilience of cross-jurisdictional regional collaboration. The proposals have operational synergies to offer Vancouver-based services but also governance and cost-sharing challenges among jurisdictions. Overall, the literature indicates that the Vancouver–Whistler proposal must balance mobility, environmental, and economic benefits against equity protection and phased development strategies to ensure sustainable regional integration.

Problem Statement and objectives

Problem Statement

Whistler is one of the world-famous ski tourism destinations and it is estimated that Whistler has nearly three million visitors each year to ski, mountain bike, and tour the city (Destination BC, 2022). The local permanent residential population is approximately 16,074 (2025 World Population Review), but the number of visitors leads to enormous traffic jams on the Sea-to-Sky Highway (Highway 99), which is the primary highway connecting Whistler with Vancouver (BC Ministry of Transportation, 2021). The highway is regularly congested, especially during tourist seasons and during special events like the Whistler World

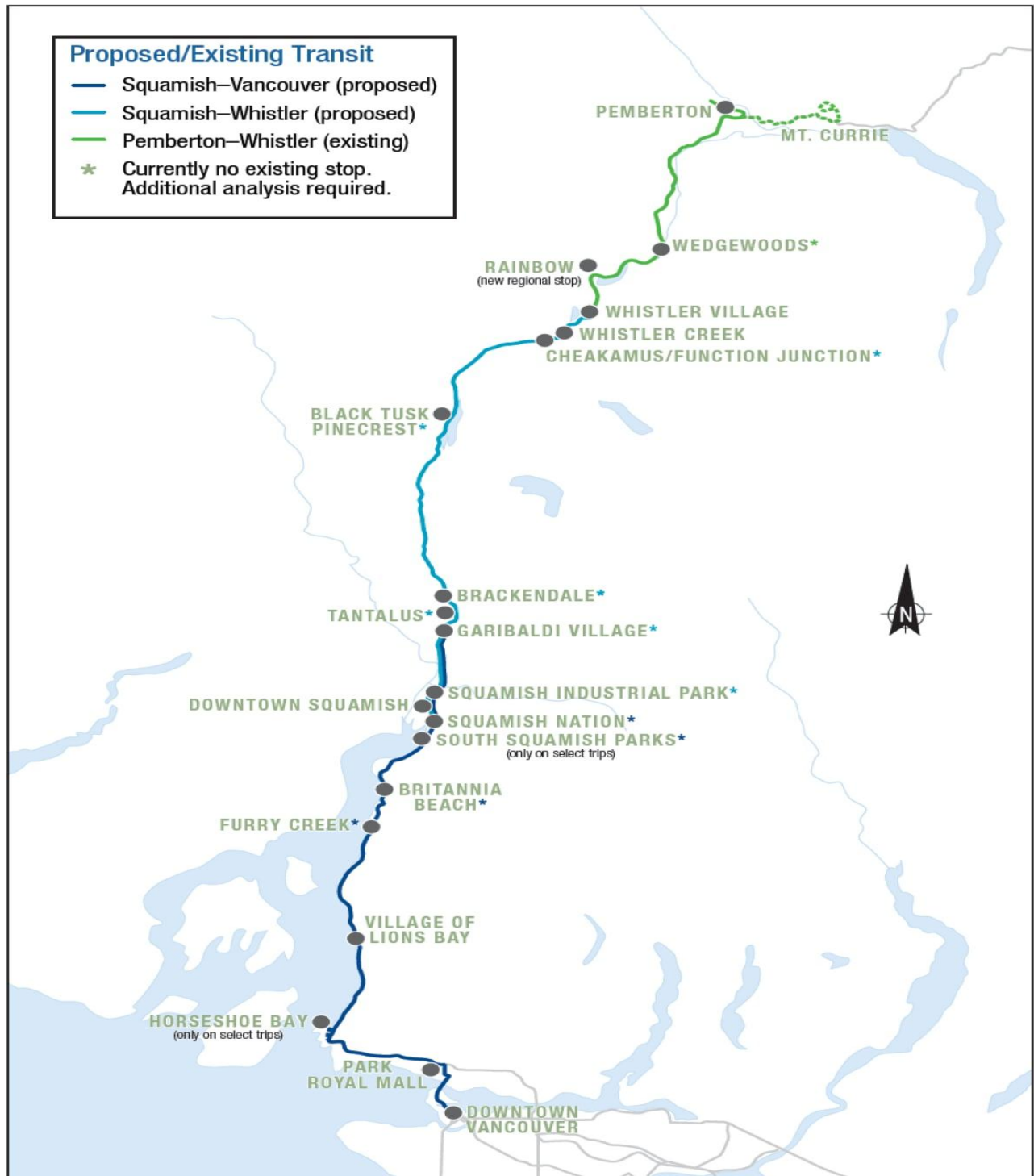
Ski and Snowboard Festival. Besides, the use of road transport has increased the emission of greenhouse gases (GHG), road accidents and unreliability of travel time.

The defunct of a passenger rail service restricts sustainable travel options for residents, workers, and tourists. Vancouver was once linked to Squamish and Whistler by rail lines, which stopped operating passengers in the early 2000s because of the dwindling ridership and the infrastructure limitations (Global News, 2025). Today, with the CN Rail abandoning the Squamish Whistler corridor, the stakeholders claim that there is an opportunity of a lifetime to restore rail service (Global News, 2025).

The thing is, there is also the problem of the very low permanent resident population of Whistler, the very marginal prospects for commuter ridership, and the very questionable sustainability of the economy (Martin, 2024).

Highly considered one more connection on the Cascadia megaregion crossing Portland, Seattle to Vancouver, also includes highly in the mean (Washington State DOT, 2017). This would complement cross border tourism, business and environmental sustainability by including a passenger rail linkage of Vancouver-Whistler within this larger regional system.

Image 8

Proposed/Existing Transit from Vancouver to Whistler

Source: <https://www.cbc.ca/news/canada/british-columbia/public-transit-vancouver-whistler-proposed-1.4001569>

Objectives

Seasonal demand forecasting for ridership

Whistler is an international and all-season resort destination, which has visited over 3 million annual visits each year, and the demand patterns are characterized by unequal representation of the four seasons (Destination BC, 2022). The transportation requirements in Whistler, unlike the typical commuter destinations, are mainly those led by the tourism sector, with the seasonal demands being most intense in the winter skiing and the summer adventure season, and spring and fall are shoulder seasons in which the traffic is significantly less. These seasonal variations are essential to know to predict ridership correctly and design solutions to transport (such as a potential passenger rail service).

1. Winter Season (November–April) – Peak Demand

The season of winter is the most dominant tourism season, and Whistler Blackcomb is one of the leading ski resorts worldwide. It is the busiest season with more than 1.35 million skiers visiting every year in the season (Tourism Whistler, n.d.-a). Tourists get attracted to skiing, snowboarding, heli-skiing, and international sports including the Whistler World Ski and Snowboard Festival.

The effect of this spike is extreme traffic congestion along the Sea-to-Sky Highway (Highway 99) during weekends and holidays (BC Ministry of Transportation, 2021). Migration between workers on a seasonal basis also increases significantly with thousands of seasonal employees being hired to work in hospitality, lifts, and retail (Martin, 2024). To the transportation planning, the season is the most promising period in terms of the ridership potential of rail, as the frequency and capacity of services are required to be high.

2. Summer Season (June–September) – Secondary Peak

Summer is most visitable season than winter, which is more intense, but winter has about 1.35 million visitors annually compared to 1.65 million in summer (Tourism Whistler, n.d.-a; Tourism Whistler, n.d.-b). This extended season makes Whistler an outdoor recreation and family adventure destination. Mountain biking activities in the Whistler Mountain Bike Park, hiking, sightseeing in the Peak 2 Peak Gondola, golf, fishing and wellness activities attract visitors.

Crankworx Mountain Bike Festival and other outdoor activities generate peaks of demand that are very high, whereas international families and adventure tourists offer consistent traffic during the season (Dodds and Butler, 2019). It is common to see accommodation occupancy in the peak weeks of summer to be over 80 percent (Global News, 2025). The seasonal demand is high in transportation, but not as high as in winter, with the need to provide flexibility but regularity of service.

3. Spring Season (April May) Low Demand (Shoulder Season)

Spring is a season of transition when the number of visitors is low. By April, skiing business is closed, and the snow does not attract international ski tour operators due to the lack of snow (Destination BC, 2022). Simultaneously, summer tourism including hiking and mountain biking is not running at full strength because of melting snow and muddy roads.

Conference visitors, wellness tourism and local weekend travelers sustain tourism in this period, although the demand is generally low. This season presents potential challenges related to unused transportation capacity if rail services are not appropriately scaled to meet year-round demand (Martin, 2024).

4. Fall Season (September-November) Low Demand (Shoulder Season)

Another low-demand season is fall, after the seasonal summer adventure tourism. Unpredictable weather conditions due to rain, fog, and colder temperatures result in

decreased interest by visitors (Dodds and Butler, 2019). Additional constraints, such as school days and the limitations of holiday periods, further reduce opportunities for families and international travellers to visit.

Fall does not have major events or festivals like winter and summer and its demand is mostly limited to local visitors and niche markets. Restaurants and hotels are reducing their business hours or change their business pattern and introduce multiple offers, also provide discounts to get business. In the case of transport planning, it considers as per demand basis like less demand needs less service frequency (Global News, 2025).

Table 1

Seasonal Visitors to Whistler (millions)

Season	Approx. Visitors (Millions)	Main Activities	Demand Characteristics	Transport Implications
Winter (Nov–Apr)	1.35 million (45%)	Skiing, snowboarding, snow festivals, winter sports events	Strongest peak intensity; short-term surges on weekends/holidays	Highest capacity required; severe Highway 99 congestion
Summer (May– Oct)	1.65 million (55%)	Mountain biking, hiking, sightseeing, golf, Crankworx Festival	Highest total volume; steadier and more diverse demand	Consistent but flexible service; high occupancy rates
Spring (Apr–May)	Much lower (0.25 est.)	End of ski season, wellness tourism, conferences	Transitional season; low visitation	Risk of underutilization; reduced services needed
Fall (Sep–Nov)	Much lower (0.25 est.)	Limited hiking, mild weather tourism	Shoulder season; decline before winter	Low demand; scaled-back

				operations to avoid inefficiency
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Source: <https://trade.whistler.com/about/stats>

Image 9

Skiing



Source: <https://www.whistlerblackcomb.com/plan-your-trip/ski-and-ride-lessons.aspx>

Image 10

Snowboarding



Source: <https://luxuryinwhistler.com/whistler-snowboard-lessons/>

Image 11*Heli-skiing*

Source: <https://www.youtube.com/watch?v=8f7CHW1PDYc>

Image 12*Winter festival*

Source: <https://www.whistler.com/blog/post/2021/12/14/whistlers-festive-lights/>

Image 13*Mountain biking*

Source: <https://www.mountainbikingbc.ca/vancouver-coast-mountains/whistler-bike-park/>

Image 14*Hiking*

Source: <https://www.whistler.com/blog/post/2025/07/08/guide-hiking-summer/>

Image 15

Crankworx Festival



Source: <https://www.crankworx.com/>

Economic (Regional and local) Implications

There would be significant economic gains should a new passenger rail service be introduced between Vancouver and Whistler. First, it would introduce jobs in the construction phase (engineers, builders, suppliers) and continuing jobs once the train is operational, i.e., drivers, maintenance crews, and service staff (Rail Passengers Association, 2022).

This would also benefit tourism and hospitality. The easier and more reliable the travel is, the more people are going to visit Whistler and stay in hotels, restaurants, and rent equipment to go skiing or biking. This generates additional revenue to the local business and increased tax collections to the municipality. As an example, in Vancouver, an expansion of the SkyTrain boosted more than CAD \$5 billion of private developments near stations, demonstrating that new access modes can boost land values and encourage the focus of private investment (City of Vancouver, 2020). The same opportunities may be observed in Whistler near new rail stations, where new shops, restaurants, and new housing developments would contribute to the local economy.

Social Effects (Societies and Citizens)

Social benefits would also be realized by the passenger rail. It would make the movement of people between Vancouver and Whistler cheaper and more accessible particularly to the workers and seasonal employees who are not always able to afford a car. This implies increased inclusiveness, as more individuals would want to travel to seek employment, recreation or even visit their families. It would also enhance road safety. The Sea-to-Sky Highway is congested and known to be involved in accidents during the peak weekends and holidays. A reduced number of vehicles would result in a reduced number of accidents and injuries, benefiting the residents, as well as the people who visit the region (BC Ministry of Transportation, 2021).

On the social front, a rail service would bring the urban and rural communities closer together. People of Vancouver had opportunity to access Whistler easier to get sports and recreation, whereas Whistler locals were able to access the city to get education or health care, or visit some cultural events. This enhances the social well being and community bond.

Environmental (Sustainability and Climate) Impact

It would also be beneficial to the environment. The current Highway 99 is transporting thousands of vehicles per day, contributing to the emission of huge quantities of greenhouse gases. It is projected that 10,000-35,000 tons of CO₂ might be saved annually by providing a train alternative, which is the equivalent of eliminating 200,000-700,000 car journeys annually (Transport Canada, 2022). This would assist British Columbia and Canada in achieving their climate targets including Net-Zero by 2050.

Less number of vehicles would also result in less traffic and the lack of wear caused by highways, which would lead to a lower government expenditure on the maintenance of the roads (BC Ministry of Transportation, 2021). Moreover, fewer vehicles have the advantage of

reduced noise pollution, less air-pollution and safe traveling conditions among people and wildlife along the corridor.

Explore Cascadia transboundary connections and integration

The fourth goal is to position the Vancouver-Whistler service within the Cascadia Innovation Corridor, a cross-border economic zone stretching from Portland, Seattle and Vancouver. The Washington State Department of Transportation's Ultra-High-Speed Ground Transportation Study details the importance of a regional feeder system that expands the access of high-speed services (WSDOT 2017). Rail line towards Whistler has the potential to play an important role as a northern extension of this network, it helps to improve connectivity for international tourism, facilitating trade, and complementing Cascadia's vision of integrated and sustainable mobility.

Financial recommendations and Policy implementation

Finally, the project will assist in policy decisions with recommendations based on evidence. Other revenue-generating strategies used by North American railroads include provincial subsidy programs, public-private partnerships, and tourism-related taxes (such as tourist taxes) (Rail Passengers Association, 2022). In addition, governance must ensure equitable inclusion of Indigenous organizations, tourism boards, and local governments whose lands and cultural assets pass through the corridor. Martin (2024)

Methodology

This study offers a mixed method approach, involving qualitative evaluation with economic and environmental modeling and quantitative analysis that includes ridership forecasts. This further includes stakeholder perspectives, policy analysis & comparative analysis. This entire infrastructure allows us in assessing the quantifiable impacts for this Rail development within this socio-political framework. Some mixed methods are helpful for

research related studies regarding transportation because they balance out the massive chunks of forecasts & models through real-life experiences & legislative limits that affect what is possible on the ground (Creswell & Plano Clark, 2017)

Quantitative Analysis

1. *Ridership Forecasting*

Tourism and population numbers to be used for commuter demand estimation. Whistler is the destination of 3 million visitors per year (Destination BC, 2022) many of whom currently travel by car and coach. Based on various service scenarios, we will develop a demand model assuming modal shift rates increase by 5%–30%. We will also personalize as a function of season, since winter skiing tourism has relatively large annual visit as a percentage. Comparison of ridership data for the Amtrak Cascades, which saw a 41% increase in annual ridership in 2024, can help to confirm assumptions on mode shift elasticity (Amtrak, 2024).

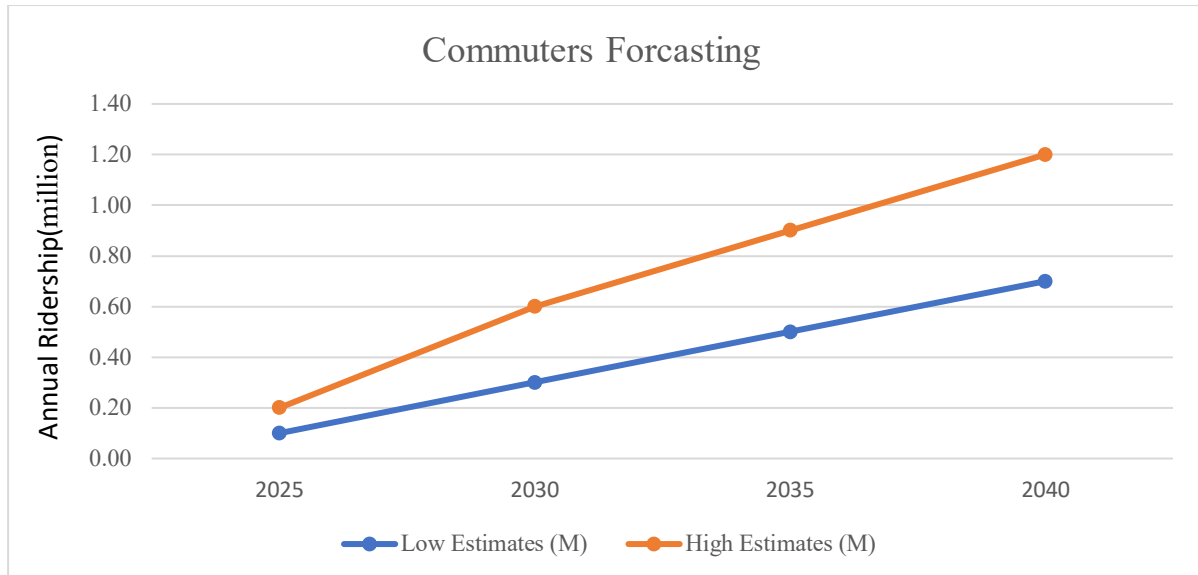
Table 2

Year	Low Estimates (M)	High Estimates (M)	Tourist Market in %
2025	0.10	0.20	5-10%
2030	0.30	0.60	12-15%
2035	0.50	0.90	20-25%
2040	0.70	1.20	30%+

Source: Destination BC (2022); Amtrak Cascades (2024). Ridership projections are modeled estimates based on Whistler tourism volumes and comparative regional rail benchmarks.

Image 16

Commuters Forecasting by Annual Ridership



Source: Destination BC (2022); Amtrak Cascades (2024). Ridership projections are modeled estimates based on Whistler tourism volumes and comparative regional rail benchmarks.

2. Economic Impact Analysis

Passenger rail construction will have a significant direct and indirect impact on the economy, particularly in areas with high tourism, like Whistler. Also, the following benefits would result from the proposed Vancouver–Whistler line:

Direct effects: Jobs created during construction and operation of the plant.

Indirect effects: More visitor spending, and higher property values and urban redevelopment around stations.

This case study offers compelling evidence for such results. For instance, the Chicago–Minneapolis Amtrak corridor was estimated to provide USD \$47 million in annual economic benefits (Rail Passengers Association, 2022). Likewise, Virginia's rail expansion program yielded a return of \$1.4 billion in revenues in return for \$64 million in state funding and

1,400 job per year (Rail Passengers Association, 2022). Closer to home, Vancouver's expansion of SkyTrain driven over CAD \$5 billion in private real estate investment within 500m of stations (City of Vancouver, 2020).

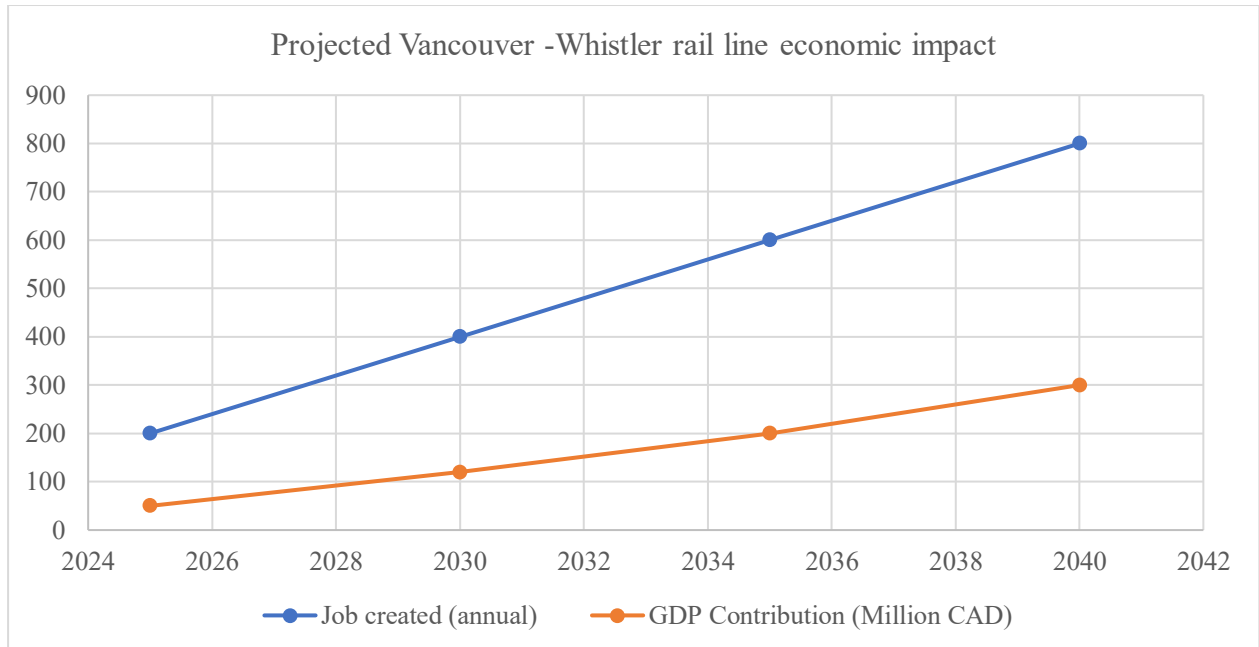
If these benchmarks are applied in proportion to Whistler's scale, the passenger rail project between Vancouver and Whistler would produce annually between 200 and 800 jobs by 2040 and would provide between C\$50 million in 2025 and C\$300 million by 2040 of GDP gains (Canadian Urban Transit Association [CUTA], 2021).

Table 3

Projected economic impact

Year	Job created (annual)	GDP Contribution (Million CAD)
2025	200	\$50
2030	400	\$120
2035	600	\$200
2040	800	\$300

Source: Rail Passengers Association (2022); Canadian Urban Transit Association [CUTA], (2021). Estimates scaled from comparable North American rail corridor studies and transit-oriented development cases.

Image 17*Projected Vancouver-Whistler Rail Line Economic Impact*

Source: Adapted from Rail Passengers Association (2022); Canadian Urban Transit Association [CUTA], (2021). Modeled estimates for academic analysis.

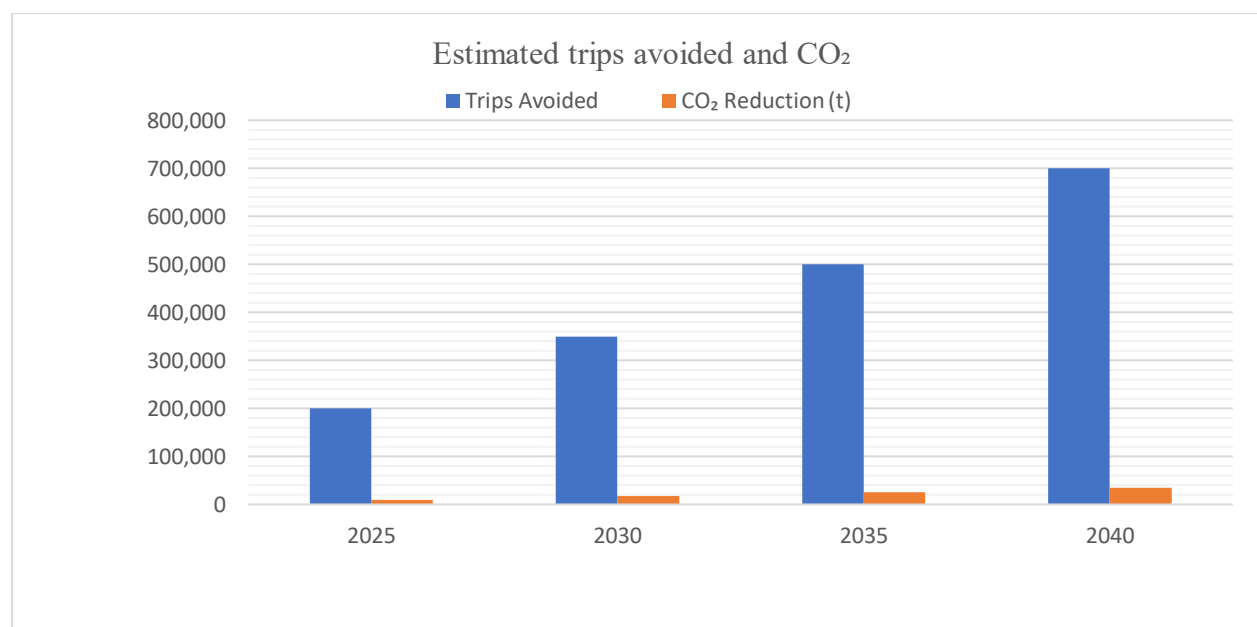
3. *Environmental Assessment*

Environmental savings will be estimated in avoided vehicles kilometers traveled (VKT). For car trips replaced by rail travel, it is estimated that approximately 0.12 tons of CO₂ may be saved for each such trip based on Transport Canada emission factors (Transport Canada, 2022). Therefore, returned CO₂ savings for mode shift will be 10,000 tons per year in 2025 and 35,000 tons per year by 2040. In addition, with the reductions in traffic levels, there are obviously fiscal benefits of spending less money on road maintenance (BC Ministry of Transportation, 2021).

Table 4*Projection of environmental impact*

Year	Trips Avoided	CO ₂ Reduction (t)	Emission reduction in Corridor %
2025	200,000	10,000	3%
2030	350,000	18,000	6%
2035	500,000	26,000	9%
2040	700,000	35,000	12%

Source: Transport Canada (2022); BC Ministry of Transportation (2021). CO₂ reduction estimates are calculated using average per-vehicle emission factors and assumed mode shift to rail.

Image 18*Estimated Trips Avoided and CO₂*

Source: Transport Canada (2022); BC Ministry of Transportation (2021). Graph demonstrates modeled projections for vehicle trips avoided and corresponding CO₂ reductions.

Technical and Operational Feasibility

The area between Vancouver and Whistler is a place of beautiful but rough mountains which have for a long time been the reason for a lot of technical and operational problems for the railway services. The challenges of this nature have frequently led the train services to lower their speed and reliability; thus, they were less able to run as scheduled, and this happened especially in the areas that are located north of Squamish (Global News, 2025). Such limitations as these are now open to be overcome by means of technology in the railway sector, as well as the efficiency of operations to be improved, according to the recent advancements.

Image 19

A Rocky Mountaineer train traveling through the landscape near Whistler, British Columbia



Source: Rocky Mountaineer. (n.d.). Whistler, British Columbia.

Key Feasibility Points

1. Improvement in Technology

Among other things, modern rail technologies such as tilting body trains are the subject of numerous applications in both Europe and Asia. Along these lines, these trains in both continents enable higher speeds on curves by minimizing the lateral forces on passengers. The Italian Pendolino and Japan's JR West 683 series are the best-known examples that both utilize one and the same technology to get shorter travel times without doing much with the rail (Railway Gazette, 2023; East Japan Railway Company, 2022). In this regard, diesel-powered tilting trains might be closer to the truth while electrification is quite the opposite.

2. Engineering Solutions

In general, the introduction of various infrastructure projects like track realignment, tunneling, or bridge construction would have the potential to drastically lower journey times. The cases of the Lötschberg Base Tunnel in Switzerland and other long alpine tunnels are good examples of the increased reliability and reduced travel times achieved through such solutions (Swiss Federal Railways, 2020). However, a lot of difficulties in the underground environment and lengthy productions times rapidly escalate their budgets.

3. Rebuilding of Infrastructure

Significant modernization would require signaling upgrade, avalanche and rockslide protection, tunnel ventilation, and new stations. The schedule of services suggests at least five round trips daily that would blend the commuting and the tourist demand (Global News, 2025). These changes would not only be compatible with rail renewals in North America but also with program renewals of railway infrastructure, for example, Amtrak (Amtrak, 2023).

4. Current State of the Corridor

The shutdown of CN Rail's freight service between Squamish and 100 Mile House, as it was proposed, would be a strategic opportunity for public acquisition of the route (Global News, 2025). A business case and a consortium agreement could be made by stakeholders before infrastructure lost due to redevelopment, which is the only time this happens.

Table 5

Comparative Operational Parameters

Service Option	Express Travel Time (Vancouver – Whistler)	Cross-Harbor Tunnel	Rolling Stock Type	Tunnel % of Route
Option 1&2	3h 10m-3h17m	None	Bi-level commuter	<10%
Option 3	2h 7m (tilting)	4.3 miles	Tilting Train	12%
Option 4	1h 33m (Tilting, express)	10.1miles +15.2 miles tunnel/realignment	Tilting Train	33%-80%

Source: Global News, 2025; CBC, 2025.

Through performance modelling, it is demonstrated that only Option 4 can achieve a traveling time that is comparable to that of a private car (about 1 hour and 33 minutes express) while at the same time, meeting the needs of tourists and daily commuters. On the other hand, the less ambitious options result in traveling hours of three or more, which is not adequate to cause a significant modal shift or have a regional impact. It is worth mentioning

that the delivery of Option 4 within a 5 - 8-year design and construction period would make Vancouver and Whistler the leaders of rail innovation in North America.

Challenges

Nevertheless, there are substantial risks even with the opportunities. One of the most expensive as well as delay-prone things about mountain railways is the tunnel construction. In the case of the 120 km Vancouver–Whistler corridor, the cost of even partial tunneling may hover between CAD 200–300 million per km, subject to the factors like geology, environmental protections, and the requirements for winterization. The length of the route that was mainly tunneled could be over CAD 20–25 billion without difficulty. In comparison, the cost could be brought down to something closer to CAD 5–8 billion by an improved conventional alignment implementing tilting trains along with the selective tunnels and avalanche barriers.

The hazards of winter including avalanches, landslides, and freezing conditions will not only increase the operating expenses significantly but will also make the installers build protective galleries, snow sheds, and engage in high-maintenance track inspection practices which would be very similar to Swiss and Japanese alpine railways.

Considering these problems, a phased approach begin with corridor acquisition and targeted upgrades would indeed be more practicable as opposed to the complete tunneling strategy.

Economic and Financial Feasibility

The financial evaluation is quite expansive, and it makes clear that the capital and the operating expenditures fluctuate greatly depending on the engineering scenario that has been selected. The alteration of the current infrastructure in a less extravagant manner would have a significantly lower price, but, on the other hand, the ridership generated would not be

enough to guarantee the project's financial sustainability. In contrast, the designs with a lot of tunneling and the use of advanced rail technology could go beyond 1.4 billion CAD (the capital cost alone), and the operational expenditures for one year could be nearly 27.9 million CAD (Global News, 2025; Movement, 2025).

Table 6

Capital and Operating Costs

Option	Capital Cost (million CAD)	Operating Cost (million CAD / year)	Required Average Occupancy for 15% ROI
Option 1	262.5	30.8	520 passengers
Option 2	266.5	32.3	540 passengers
Option 3	615.3 – 643.6	26.1 – 27.8	655 passengers
Option 4	1,430.9	27.9	805 passengers

Source: Global News, 2025; Movement, 2025.

The utmost ambitious and elaborated project (Option 4) refers to this data (i.e., the average number of 805 passengers per departure) to achieve a 15% return on investment. The fact that demand forecasting and fare design have a fundamental role in this area serves as the basis for this statement.

Table 7*Projected Incremental Fare Revenues (Vancouver Region)*

Year	Fare Revenue (2016 million CAD)	Fare Revenue (2021 million CAD)
2028	18.4	20.3
2035	21.7	24.0
2050	28.6	31.5

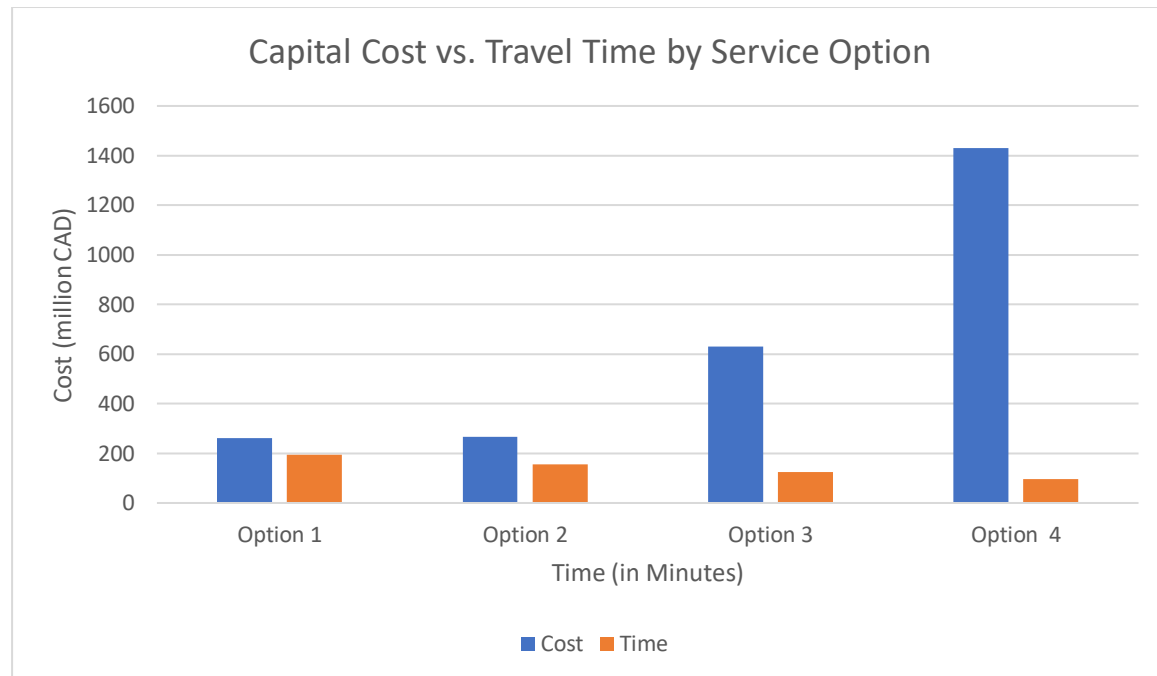
Source: Transportation Investment Corp., 2022.

This estimate points to an ongoing increase in fare revenues for a long time, indicating that the ridership will rise as trains integrate into the transport network of the region. It is evident in the graph that the financial investments turn out to be potential sources of long-term stability and wider regional development benefits.

The table below summarizes the capital and operating costs alongside estimated travel times from Vancouver to Whistler for four distinct rail service options.

Image 20

Vancouver to Whistler Rail Project: Capital Cost vs. Travel Time by Service Option



Risks and Uncertainties

Despite the financial view of potentials, the risks of the following remain:

1. Farebox Recovery Uncertainty

Projections are only possible if ridership is strong and pricing meets demand forecasts. Should actual ridership fall short of target levels (e.g., 805 passengers for Option 4), fare revenues might not be sufficient to cover operating costs, resulting in the creation of deficits.

2. Dependency on Subsidies

Global trends reveal that most mountain rail operations, e.g., Switzerland's Lötschberg Base Tunnel and Japan's Hokuriku Shinkansen, rely mostly on public subsidy to cover capital and operational costs. Without federal and provincial commitments for the long run, high-cost scenarios will turn into financially unsustainable ones.

3. Cost Overruns

Mountain tunneling projects have always been suffering from an increase in their cost due to the geological conditions and some other factors. The examples of Germany's Stuttgart 21 and Switzerland's Gotthard Base Tunnel attest to that such unforeseen risks can lead to the doubling of the budget or drastically prolonging the timeline.

Socio-Economic & Environmental Impact: Vancouver Passenger Rail Station

The railway station is not only the place where the introduction of passenger rail service in Vancouver will be made, but it is also the launching point of a dream that will bring socio-economic benefits and environmental gains to the entire region. By being the multimodal hub acting as the strategic one, the station is at the core of the transformation in sustainable mobility, economic development, equitable access, the quality of life, and climate resilience in Metro Vancouver and along the Sea-to-Sky corridor.

Socio-Economic Impact

1. Enhanced Regional Mobility and Labor Market Access

The new passenger rail network will be a direct way to get to Vancouver from Squamish, Whistler, and other nearby areas. The main advantages of the network are shorter traveling times, less congestion, and fewer barriers in commuting (CBC, 2025; Langley Union, 2025). With this improved mobility, access to jobs and education is increased, which in turn promotes local economic opportunity and workforce flexibility, especially in communities that are faced with high housing costs and long automobile commutes (Langley Union, 2025; UBC, 2018).

2. Property Development and Urban Revitalization

Transit station proximity is one of the main reasons that property values increase, new businesses are attracted, and there is higher-density residential growth, as evidenced by Metro Vancouver (SkyTrainCondo.ca, 2025). Properties within 500–800 meters of rapid transit stations are sold at a premium of 5%–20% compared to those far away. Real estate development, including affordable and mixed-income housing, is typically concentrated around these transportation nodes, thus supporting vibrant, walkable, and transit-oriented communities (UBC, 2018; SkyTrainCondo.ca, 2025).

Table 7

Property Value Impact of Transit Proximity

Distance from Station	Average Value Premium
0–400 meters	10%–20%
400–800 meters	5%–10%
>800 meters	Baseline

Source: SkyTrainCondo.ca, 2025

3. Increased Equity and Social Inclusion

The expansion of regional rail service will be a great advantage for both low- and moderate-income households who are transit-dependent and will allow them better access to employment, healthcare, and education (CBC, 2025; Craig & Chernoff, 2022). On the other hand, studies warn that the possibility that, without the implementation of affordable housing policies, the rail expansion may elevate property values in already wealthy areas more than in other areas, thus leading to the wealth gap getting even wider (Craig & Chernoff, 2022).

Table 8*Summary of Social Benefits (Projected 2035-2050)*

Benefit Type	Example Outcome
Access to Jobs	Broader labour pool, reduced job vacancy
Equitable Mobility	Greater transit access for low-income
Urban Vitality	More foot traffic / local commerce
Education Access	Faster student commutes
Housing Opportunity	Incentivizes higher-density/affordable

Source: CBC, 2025; UBC, 2018

But there are significant dangers of gentrification in the case of rail expansion, without the provision of the necessary and anticipatory affordable housing policies. The development near transit most of the time results in the rise of the value of properties, especially in places that are close to a station, which in most cases, leads to a higher benefit of wealthy neighbourhoods. This trend endangers the deepening of wealth disparities by making the price of the properties too high for low-income residents and the vulnerable ones to buy or rent so that they will not be forced out because housing affordability will decline (Craig & Chernoff, 2022; CBC, 2025; SkyTrainCondo.ca, 2025). Gentrification is not exclusive to the Metro Vancouver; however, case studies have shown that the increasing housing costs due to rapid transit-driven development, which has been growing faster than the income of the population, are pushing the low- and moderate-income households into a corner (North Shore News, 2025).

Moreover, one of the main concerns about the expansion of the passenger rail infrastructure is that it relates to Indigenous lands. Proper and continuous consultation, cooperation, and partnership with Indigenous communities are the absolute that the Indigenous people and their ancestral lands, their cultural heritage, and governance will not be violated in any way. More than just a political move, the inclusion of Indigenous voices is more effective if the True Planning integration approach is applied and government Indigenous communities are already actively doing so by practicing transparency and building trust and patriotism among natives and settlers (Government of Canada & BC, 2023; Capital Daily, 2023). Projects, which are located in or near Indigenous areas, have to comply with the provisions and restrictions under the treaties, frameworks agreed upon regarding consent, and support the development of economic opportunities for the Indigenous people that are directly related to infrastructure.

Comprehensive equity audits along with the adoption of robust affordable housing policies are among the first steps that need to be taken in order to reap equitable benefits from enhanced transit accessibility, thereby, ensuring that displacement is avoided, and community diversity is supported. Such actions must necessarily center on the needs of the poor, low-income, transit-dependent populations, who have historically been pushed to the margins of society in particular; hence, they should be the major beneficiaries of affordable housing supply being maintained and even increased through the construction of mixed-income developments, and the long-term socio-economic monitoring is employed as a tool to achieve these goals (CBC, 2025; Craig & Chernoff, 2022). Just investments in public transportation grounded in the concepts of social inclusion and justice will have to bring the most benefits to the largest number of people, thus, those who enjoy greatly from the mobility-related improvements will be the ones gaining access to new opportunities without being excluded or displaced unintentionally.

Environmental Impact

An increase in passenger train service from Vancouver to Whistler is generally anticipated to have a big positive impact on the environment, mostly by transferring a substantial amount of the traffic load that traditionally uses private cars and trucks running along Highway 99 over to an electricized or highly efficient modern diesel rail system. This change is very important in terms of achieving not only local but also regional sustainable development and health objectives.

Reduced Greenhouse Gas Emissions

First and foremost, passenger railways are much more energy efficient compared to personal cars or freight trucks even if the railway is fully powered by clean energy or advanced diesel technology. The system thus reduces thousands of car and bus trips requiring only one rail trip to accommodate the same number of people, in other words, the system concentrates mobility in a smaller number of cleaner trips. It is expected that the total GHG emissions by 2050 will be reduced about 9,700 tonnes per year. This reduction is a significant portion of the emission targets achievement within Metro Vancouver and the Sea-to-Sky corridor (Transportation Investment Corp., 2022; Whistler OCP, 2025). Besides that, this helps B.C. to move forward with its provincial emissions targets and ensures compatibility with the national clean transportation initiatives.

Improved Air Quality and Urban Health

Apart from the climate benefits, the region will also experience better community health conditions as residents are exposed to less air pollution. The shift of long-distance travel from road to rail means direct reductions of air pollutants, such as nitrogen oxides and particulate matter, which are associated with respiratory illnesses and reduced community health, particularly in urban areas affected by highway traffic (Whistler OCP, 2025). Although rail

must maintain strict adherence to emission and noise reduction regulations, it still has a lower environmental footprint compared to highway expansion.

Traffic Safety and Community Wellbeing

There will be fewer car crashes along Highway 99 because the number of cars will be less. The analysts forecast that if the rail share is increased, by 2050, up to 70 serious vehicular accidents per year could be avoided (Transportation Investment Corp., 2022). Consequently, accidents will result in less personal injuries, fewer fatalities, and less pressure on the emergency response and medical resources.

Financial and Social Benefits

The environmental and safety improvements initiated by this project are accompanied by financial benefits whose worth is estimated at around C\$14.2 million annually in the form of savings in healthcare needs, emergency response, lost productivity, and infrastructure maintenance (Transportation Investment Corp., 2022). Less traffic on the road along the corridor means that the roads will have a longer life and that there will be fewer and less expensive repairs, while the corridor will be more in line with the criteria of quieter, safe, and liveable communities (UBC, 2018).

Table 9

Annual Environmental Benefits (by 2050, Vancouver–Whistler Corridor)

Environmental Indicator	Projected Impact
GHG Emissions Reduced	9,700 tonnes/year
Serious Collisions Avoided	70/year
Health/Social Cost Savings	C\$14.2 million

Green Urban Mobility	Substantial
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Sources: Transportation Investment Corp., 2022; Whistler OCP, 2025; UBC, 2018.

On balance, cleaner transportation modes without a doubt are the main player towards a better environment, however, most of the environmental and safety improvements upon which this project is based and that have been publicized and praised ultimately by the stakeholders like the public, communities, and governments, are being realized by an upgraded passenger rail system between Vancouver and Whistler.

Policy, Governance, and Stakeholder Analysis

The sustainability and viability of implementing passenger rail service between Vancouver and Whistler necessitate a clear vision of the composite policy framework, multi level governance structure and the multiplicity of the stake holders involved. This revised edition adds to the roles of governance, makes the context of the policies more clear, and makes it clear that Indigenous consultation is mandatory, which is the direct answer to the response of the professor.

Policy Context

- **Federal Policy:** The Transportation 2030 of Transport Canada offers the general outlines of the transportation policy in Canada. It emphasizes sustainability and the improvement of modal choices as alternatives to vehicle travel that can be used (Transport Canada, 2016, p. 3). Notably, the federal government is also accountable not only in the regulations but also in the finance of major rail infrastructure projects, which have both the capital input and the regulatory aspect.
- **Provincial Drivers:** The CleanBC Roadmap to 2030 in British Columbia establishes very ambitious goals to curb greenhouse gases emissions with transportation contributing to almost 40% of the total emissions in the province (Government of

British Columbia, 2021, p. 5). The application of passenger rail would be in direct correlation with these objectives, as the car dependency will be minimized, and more sustainable means of traveling will be promoted.

- **Municipal Frameworks:** On the local level, the Transportation 2040 Plan in Vancouver focuses on changing the travel habits to be more transit-oriented or walking-oriented and biking-oriented instead of cars (City of Vancouver, 2012, p. 7). Municipal governments will be instrumental in the location of stations, zoning, and land-use planning which will directly influence the feasibility of projects and the acceptance of the project to the community. A preliminary consultation with the municipalities is necessary to make sure the stations will be connected with the existing transport systems and the plans of urban development.

Governance Landscape

Development of rail needs to be done in a manner that involves three levels of government

- **Federal:** Safety oversight, the establishment of national rules of rail operation, and frequent funding of capital-intensive infrastructure projects. The presence of the federal regulations makes certain its adherence to the national transportation issues and safety requirements. (Siemiatycki, 2016).
- **Provincial:** The provincial will be involved in alignment of the project with the target of reduction on the provincial level on emissions, finding provincial funding, and carrying out environmental assessment. The provincial government is also the one that bridges between the federal interests and the local needs.
- **Municipal:** In charge of zoning, land-use approvals and station area planning. The involvement of the municipalities will ensure a project is in line with the local development plans, reduce inconvenience, and benefit the community as much as possible.

Public-Private Partnerships

Public-private partnerships (PPPs) can be an effective mechanism of distributing financial risks and operational duties of the state sector and the co-operation partners. This model has the ability to deliver projects at an increased pace without failing to keep the people accountable (Siemiatycki, 2016, p. 62). Notably, Indigenous consultation is not an option, but a requisite of the process. According to the Canadian law, governments are obligated to consult and accommodate Indigenous communities whose rights can be affected by development projects (Newman, 2014, p. 102). This necessitates established consultation procedures, which may involve Memorandums of Understanding (MOUs), cultural impact assessment, and continuous negotiations to make sure that the rights and knowledge of Indigenous people are not violated.

Stakeholder Ecosystem

The stakeholders in this project are federal and provincial agencies, municipal governments, indigenous communities, the environmental organizations, tourism operators, and private rail operators and the end users - commuters and tourist. The well-developed multi-stakeholder consultation process will synchronize the expectations, resolve possible conflicts at the initial stage, and promote the support of the community. Developing these relationships during the planning phase can help decrease the speed of resistance, accelerate approvals, and make the project seem to be part of all participants.

- **Community Groups:** Aboriginal communities, country people, nature activists, tourism companies.
- **Private Sector:** The rail operator community, engineering companies, hospitality and tourist sectors.

- **Organizations involved in advocacy:** integrated.Travel and other non-profits engaging in equity and access.
- **End Users:** Commuters, tourists and underserved sections of the population whose traveling requirements are behind demand.

One of the core elements of successful governance will be engaged multi-stakeholder consultation that, in addition to legal mandates, will provide culturally-sensitive and equitable planning (Newman, 2014).

Image

Risks & Challenges

Implementation of passenger rail in Whistler has financial, technical, environmental, social and operational risks. On the basis of precedent studies and regional figures mitigation can be directed.

Table 10

Financial	<p>The capital costs lie between CAD M 262 and \$1.43B.</p> <p>Historical tendency is that ridership forecasts are overly optimistic with demand forecasts being overstated by a 106% average (Flyvbjerg et al., 2013, p. 5).</p>	<p>Do conservative demand modeling and various sensitivity scenarios, which Flyvbjerg et al. (2013) recommend. Introduce a pilot roll out including servicing Vancouver-Squamish, like the incremental roll out plan of Canada Line prior to the</p>
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		2010 Olympics (Winston, 2013, p. 780).
Technical	The geotechnical instability, snowy weather and steep rugged terrain of the Sea-to-Sky corridor are risky to landslides and necessitate substantial improvements in infrastructure.	Adhere to recommendations of geotechnical study, and apply engineering best practices, which are presented in the UBC Urban Studio (2001) feasibility study. Include winterization and mitigation of landslides mentioned in BC Transit in the study of Sea-to-Sky Corridor (2017).
Environmental	Consequences on ecologically sensitive zones like the Garibaldi Provincial Park.	Along with the Transport Canada (2016, p.), conduct a thorough Environmental Impact Assessment (EIA) and apply corridor designs with wildlife crossings. 12) advice on sustainable transport infrastructure.
Social	Threat of overtourism and pressure on the housing and infrastructure of Whistler, its community character	Introduce visitor capacity management and community engagement systems in accordance with sustainable

	(Dodds and Butler, 2019, p. 88).	tourism (Dodds and Butler, 2019, p. 105).
Governance	The presence of delays caused by the inactivity of the federal, provincial, and municipal priorities. The uncertainty of politics can be a threat to long-term funding.	Create an intergovernmental task force as suggested in the Sea-to-Sky Corridor Transit Study (2017) to align governance and financing agreements between jurisdictions.
Operational	Ridership may be curtailed because of competition with buses and personal vehicles. Service could be disrupted by winter weather (icing, avalanches).	Co-locate rail and local bus time plans and provide competitive prices, based upon the experience of the Amtrak Cascades corridor of multimodal connectivity (Amtrak Cascades, 2025). Introduce avalanche control and predictive maintenance, according to Transport Canada (2016, p.). 15) safety protocols.

Image 21

Risk Matrix for the Vancouver–Whistler Rail Project

Risk Matrix: Vancouver-Whistler Rail Project						
Likelihood ↑	5					
	4				• Governance	• Financial • Technical
	3				• Environmental • Social • Operational	
	2					
	1					
	1	2	3	4	5	
	Impact →					

Note. The matrix displays the relationship between risk likelihood (1 = rare to 5 = almost certain) and impact (1 = very low to 5 = very high). Color coding indicates risk priority: green = low, yellow = medium, orange = high/very high. Risks in the upper right (Financial, Technical, Governance) should be prioritized for mitigation.

Alternatives and Comparatives Options

Vancouver Whistler corridor transportation planning involves a comprehensive analysis of options. These increasing congestions in Highway 99, environment and the necessity to serve the economy of Whistler which is largely based on tourism offer policy makers three major choices i.e. passenger rail, increased bus services or increased road infrastructure. There are financial, environmental and social implications associated with each of the options.

Passenger Rail Service

The most sustainable long term alternative is passenger rail. Although it is the most costly equipment to capitalize upon (an advanced tunneling and tilting train equipment costs more than CAD 1.4 billion), rail is a time saving technology in the long term. These are the minimization of the emission of greenhouse gases up to 35,000 tonnes per year until 2040, the stimulation of 200-800 new employment per year to the economy, and the addition of CAD 50-300 million to GDP annually. Passenger rail makes Whistler a part of the broader Cascadia megaregion, making the destination more accessible to international tourists traveling between Seattle and Portland. Nevertheless, potentially overestimated ridership (Flyborg et al., 2013), delays caused by topographic conditions and the intergovernmental consent process can also be listed among the risks.

Enhanced Bus Services

The most feasible short medium-term intervention is an enhanced bus networks. The provision of more fleets of buses and bus electrification are a short-term solution that would help particularly during the seasonal peak of bus tourism in Whistler. Buses are flexible in their time schedule and they are cheaper to start up as compared to rail. In addition, electric buses meet the provincial clean air targets under CleanBC. However, buses are not free as they rely on Highway 99 which is subject to avalanches, weather inconveniences, and traffic jam. Although enhanced buses will alleviate congestion in the short run, it will not replace rail in providing radically different environmental and socio-economic benefits.

The development of Road infrastructure

The least sustainable solution is road expansion (e.g., the addition of lanes to Highway 99). Although more lanes may lessen congestion in the short run, the studies conducted in relation to the basic law of road congestion (Duranton and Turner, 2011) show that the

increase in road supply is soon overwhelmed by increased demand. The increased travel by vehicle is aggravating the release of greenhouse gases, compromising climate goals, and ecological damage along areas with low ecological sensitivity like Garibaldi Provincial Park. Moreover, the growth of highways dilutes the Whistle brand as a sustainable tourism destination by indicating a further reliance on cars.

Table 11

Comparative Evaluation Matrix

Option	Cost	Environment al Impact	Scalabilit y	Tourism/Commun ity Benefit	Risks & Limitations
Passenger Rail Service	High (C\$1.4B +)	Low emissions (up to 35,000 tonnes CO ₂ reduction by 2040)	High – expandable to Cascadia corridor	High – sustainable tourism, urban revitalization	High upfront capital; ridership risk; construction challenges
Enhanced Bus Services	Medium	Medium–Low (better if electrified)	Medium – scalable seasonally	Moderate – provides immediate relief	Dependent on Highway 99 congestion/weather
Road Expansion	Very High	High (negative)	Low – capacity fills quickly	Low – marginal impact	Induced demand; ecological risks;

					undermines climate goals
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Reasons why Bus Expansion is Unsuitable to replace Rail:

Improved buses must be viewed as an interim measure and not necessarily a replacement of rail. Although buses cause less short-term congestion, they are entrenched in the constraints of Highway 99: accidents, weather shutdowns and capacity limits. Rail, on the other hand, offers specific infrastructure, which can transport greater passenger quantities more productively and ecologically, making Whistler a paradigm of green tourism mobility on the international level.

Recommendations

A gradual, time-based approach is needed to guarantee a temporary and sustainable solution to the congestion issue, which, on the one hand, will alleviate the issue in the short term and, on the other hand, will initiate transformation by implementing change over time. This will minimize the risk of implementation and move slowly towards sustainability and economic objectives.

Short-term (05- 5 years): Resolving short-term obstacles.

- Increase and electrify bus services in order to mitigate the short term emission and flexibility during high tourist seasons.
- Multi-seasonal capacity planning to make capacity available during the surges of ski and biking tourism.
- Carry out feasibility and environmental impact analysis to perfect ridership predictions, determine engineering constraints and social economic payback.

- Consultations with the stakeholders, and especially Indigenous governments, municipalities, and tourism operators, in order to achieve early buy-in and fair project design.

Medium-Term (510 Years): Institutional and Financial Prerequisites

- Agree on funding sources at the federal infrastructure programs, CleanBC and Public–Private Partnerships (PPPs).
- Acquisition of land and protection of corridors, especially after the CN Rail has decided to stop operation on the Squamish-Whistler line that offers rare chance to reuse infrastructure.
- Federal, provincial, municipal and Indigenous governance alignment to facilitate planning and regulatory approvals.
- Establishing a partnership with the tourism operators, hospitality industry and local companies to make sure the project is grounded in the economic powerhouse of Whistler.

Long-term (10 and above Years): Introducing Transformative Rail Infrastructure

- Design and run the Vancouver-Whistler passenger railroad service, which aims at the travel periods competing with those of private vehicles (~1h30m).
- Include rail and Cascadia Corridor programs to improve accessibility to Seattle and Portland so as to boost international tourism.
- Implement fair policies of transit oriented development such as affordable housing around the stations to avoid gentrification and displacement.
- The financial sustainability, such as tourist levies, dynamic pricing of fares, and land value taxation, to guarantee financial sustainability.

Stakeholder Alignment:

- The land use and cultural effects should involve the consultation of the indigenous communities, and co-management and benefit sharing should be agreed upon.
- Bundled rail and resort packages can be offered by tourism operators in order to generate ridership.
- Investors and PPPs help to lessen the financial influence of the government as they distribute the risks and costs.
- Municipalities must align zoning and land-use planning with station development, ensuring vibrant, equitable growth.

Conclusion

The analysis of the passenger rail development in the Vancouver Whistler corridor portrays a strong argument on why the transformation of regional mobility should be sustainable. The results of this report reveal that the congestion and safety issues of Highway 99 are not the only issues, but the economic, environmental, and social opportunities found in the restoration of passenger rail. The project can go beyond being a transportation enhancement and become a driver of wider regional enhancement, though in a gradual evidence-based process.

Three major insights can be drawn in relation to the analysis. To begin with, passenger rail is the only long-term green solution. Rail focuses on emissions reduction, safety as well as reliability unlike bus expansion or highway widening. Its socio-economic transformational effect is evident in the projected 35,000 tonne annually of CO₂ reduction, and 200-800 new jobs each year and C\$50-300 million of GDP increases by 2040. Also, the rail connectivity with the Cascadia Innovation Corridor makes Vancouver and Whistler the world leaders in the field of sustainable tourism and international connectivity.

Second, the short-term strategies are essential to provide the relief and capacity-building in the short term. Improved bus service, especially by electrifying the fleet offers short term congestion relief and emissions. Combined with the intensive feasibility investigations, seasonal ridership, and the initiation of early stakeholder consultation, this is providing the environment of more ambitious infrastructure. They create a momentum that helps to take care of the interim needs such that long-term projects are not abandoned as they design and finance them.

Third, and most crucially, the project should be successful due to the capable governance and the support of the involved stakeholders. The federal and provincial governments should

take the lead and offer financial assistance, whereas the municipal governments and the Indigenous Nations should establish equal and culturally sensitive development. The concept of Public-Private Partnerships (PPPs) may decrease fiscal costs, whereas tourism operators and local enterprises stabilize the demand. Lacking a coherent governance model and progressive planning may expose the project to the risks of overestimated ridership, environmental disturbance or unequal development.

After all, the project of the Vancouver-Whistler passenger rail service is not a mere transportation project, but a long-term choice concerning the future of the area. Making a decision to use rail will mean making a decision that is more consistent with provincial and federal climate objectives, that will help preserve vulnerable ecosystems, make Whistler more competitive as a sustainable destination and promote fair economic development. Its capital and technical requirements are high, but the long-run returns are more than the short-run risks. Through a combination of short-term initiatives and a well-defined and gradual approach and sound governance, the Vancouver-Whistler corridor can be turned into a national standard of sustainable mobility and a model of cross-border integration in Cascadia.

This conclusion is obvious: Rail is the way. It is not only a transport method, but a source of resilience, prosperity and sustainability in the British Columbia in future.

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