Powell River Transit Service Review

Summary

March 2022







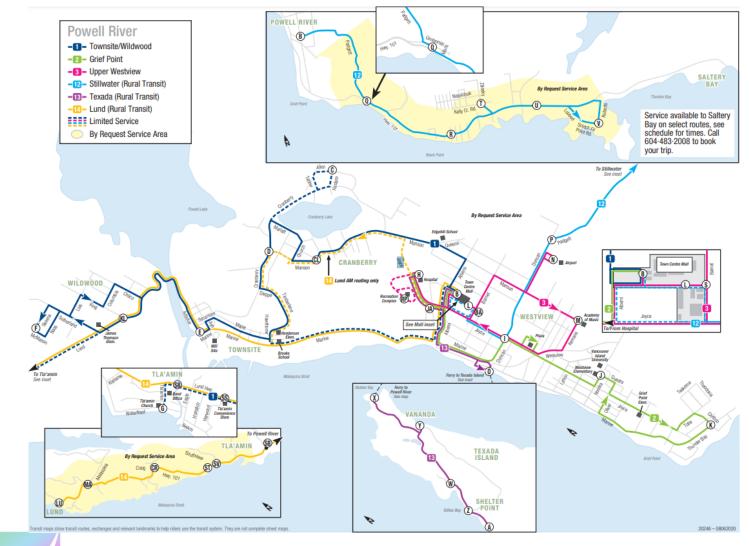
Scope of this study

 Overview of existing conditions
 (demographics, transportation, land use planning and developments)

2) Assessment of the existing fixedroute transit service within the City of Powell River (Routes 1, 2, 3)

3) Analysis of Zunga On-Demand Service and recommend next steps for the program

4) Updating of the City's short and long term transit direction



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What we learned – Service Planning Considerations

Unintuitive fixed-route transit service

- Uneven frequencies and round trip times
- Infrequent trips for bespoke purposes (e.g. Cranberry Lake)
- Focus on school service

Transit Service Hours have held steady at 11k annual hours.

- Ridership pre-pandemic: 18
 pass/hr
- Ridership during pandemic: 11 pass/hr

Unique operating model within the BC Transit Municipal Systems Program which has provided more autonomy in service decisions.

First On-demand service in BC with high level of community support

Transit travel times need to compete with other modes: 70% of trips within the community are under 15 minutes in duration

Community Considerations

- Transportation is the second highest household cost after housing

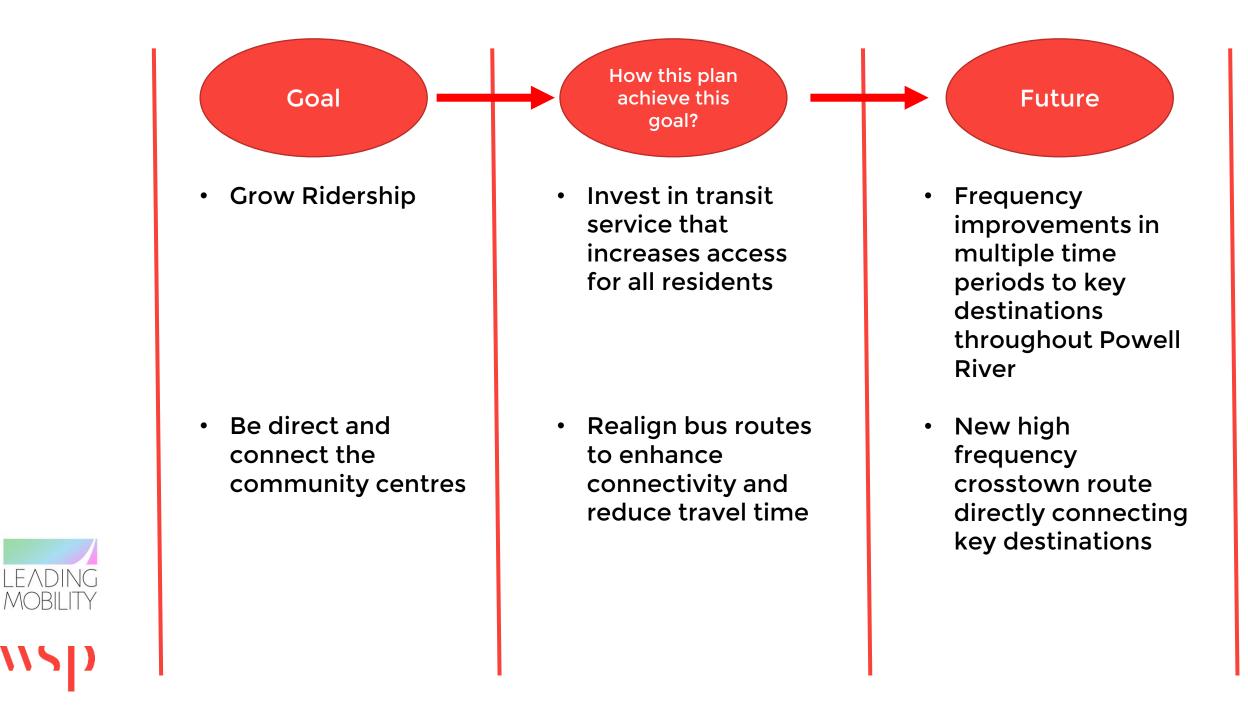
- Lack of affordable transportation options were cited as a barrier to accessing education and essential services

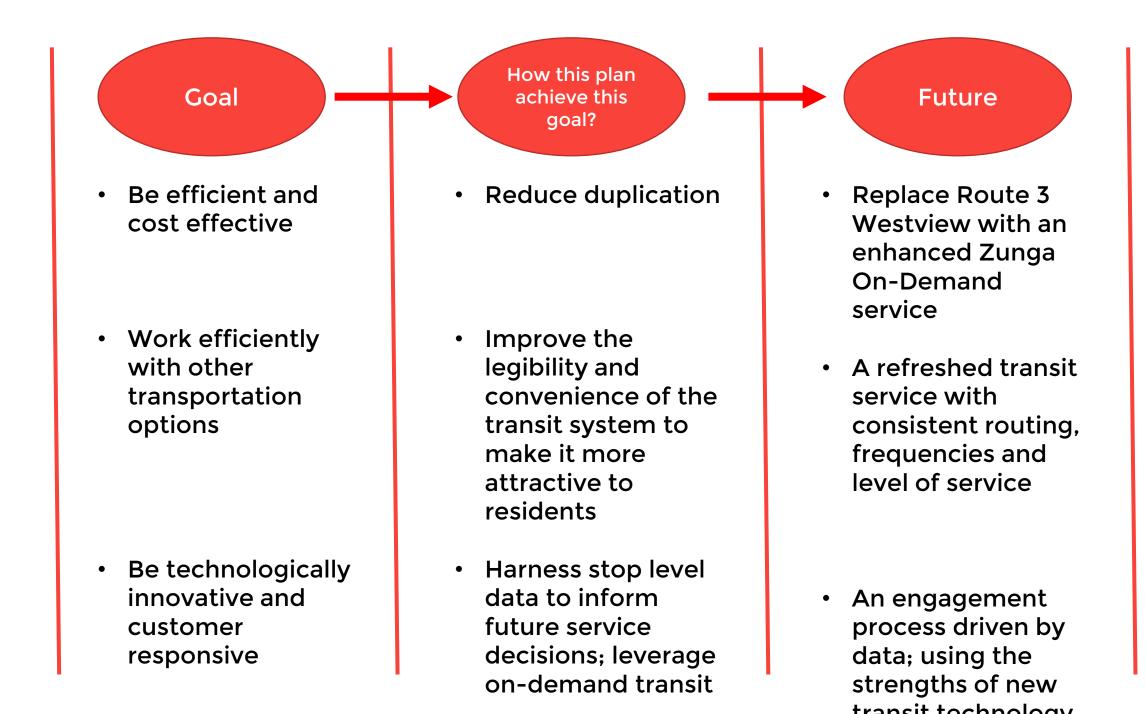
- The Ending Poverty Strategy lists On-Demand transit as one of Powell River's assets to support resident's wellbeing, this was identified as a positive by survey respondents.



Key demographics within the City of Powell River

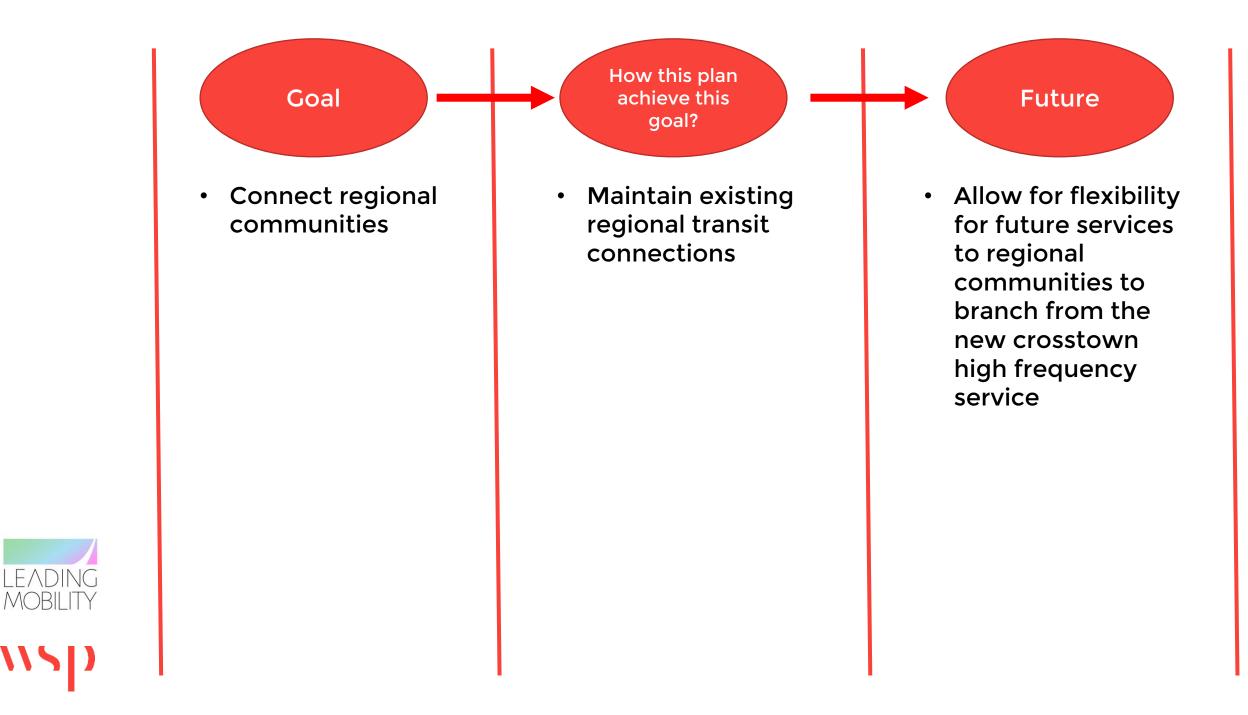
- 44% of the City's households have an income less than \$50k
- 36% of the City's population is over 60 years old
- 19% of the City's population is under 20 years old





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City of Powell River

- Sets Routes and Service Levels
- Approves Local Funding
- Establishes Fares and Receives Transit Revenue
- Maintenance and Operations of Transit Fleet
- On-Street Supervision for Operations and Incident Management
- Implementation/Maintain Bus Stop Facilities

Annual Operating Agreement

BC Transit

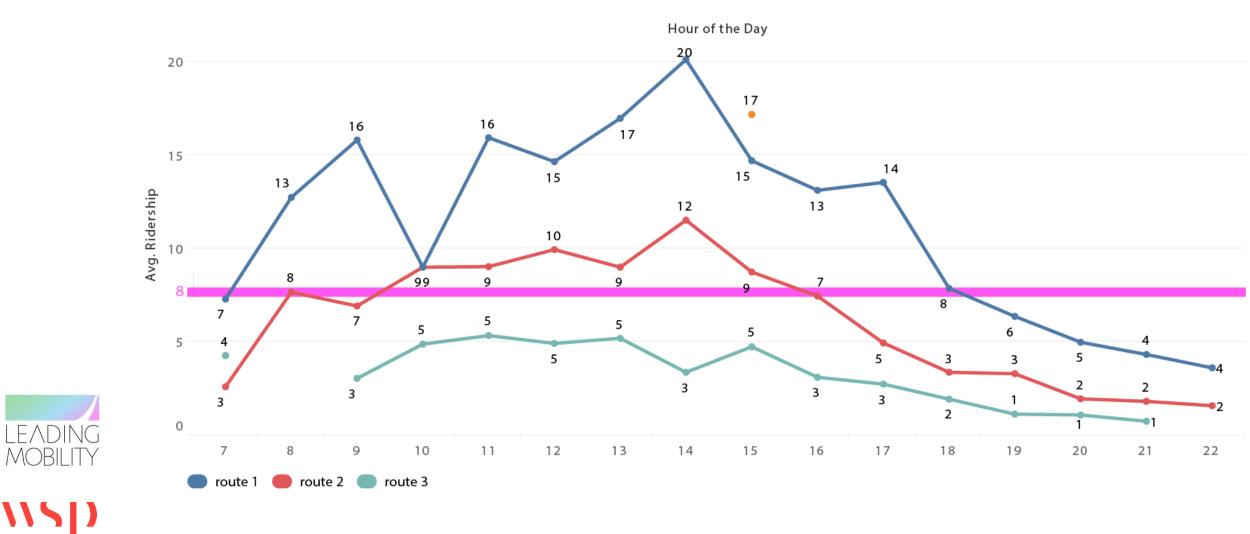
- Provincial Operating and Capital Funding Support
- Transit Planning and Scheduling
- Confirm Conventional Transit & Custom Transit Service Hours for scheduling
- Procurement and Provision of Transit Fleet
- Capital Planning
- Marketing Services

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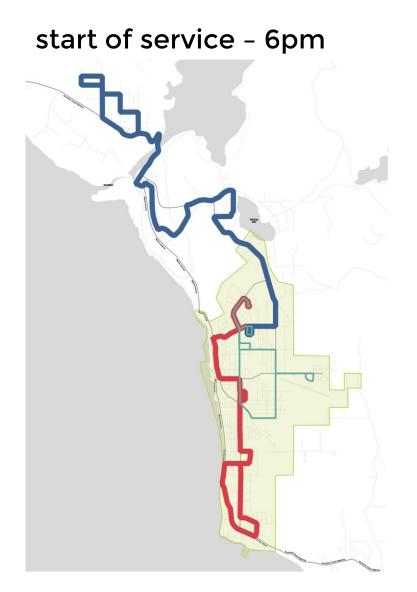
Transit Service Delivery Model Comparison

	Fixed-route	On-demand
Appropriate Use(s)	Connecting major trip generators or hubs; longer- distance trips . Minimal meandering to provide coverage.	Covering a lower-density but continuously developed area where trip patterns are less obvious or predictable. Replacing under-performing fixed-routes, or supplementing fixed-routes at low demand times.
Benefits	More Passenger Capacity Schedules and routes are consistent and predictable.	 On-demand software collects data, informs future transit plans. Operational flexibility, service can be scaled up and down. Wait times and travel times are often superior to coverage
Limitations	Buses run according to schedule, even if empty. Typically can not cover all parts of a community with frequent / desirable service	fixed-route service.Size of coverage area is limited: not suitable for long distance travel patterns.Not suitable for high-demand situations.Cellular connectivity required.
	for a reasonable cost.	May be concerns about technology accessibility.

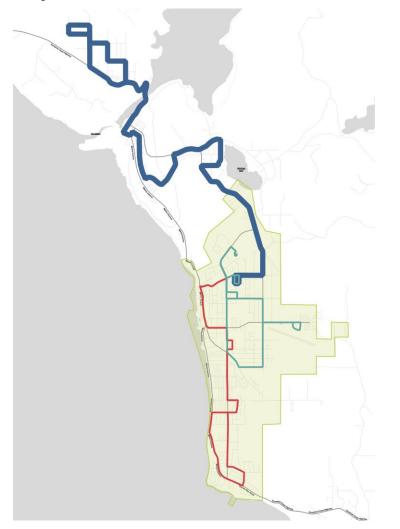
2021 Average Boardings by Hour – Fixed Route



2021 Weekdays

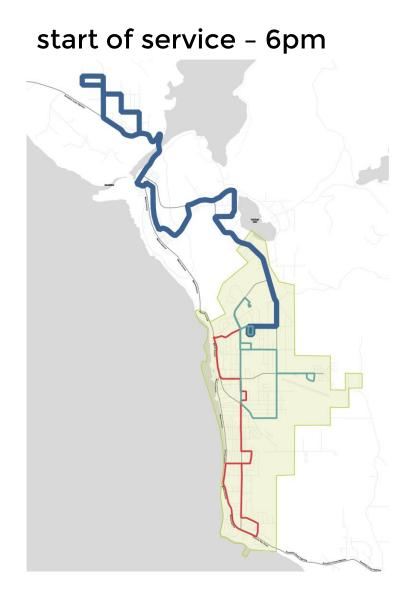


6pm - end of service

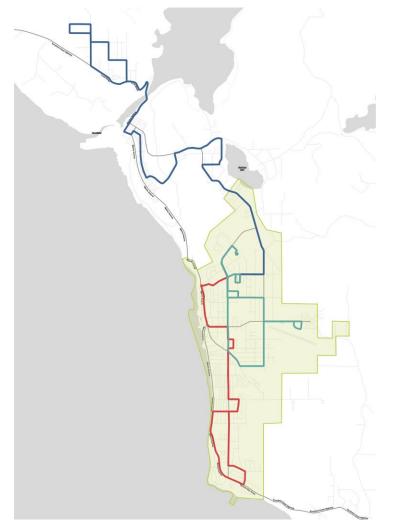




2021 Saturdays

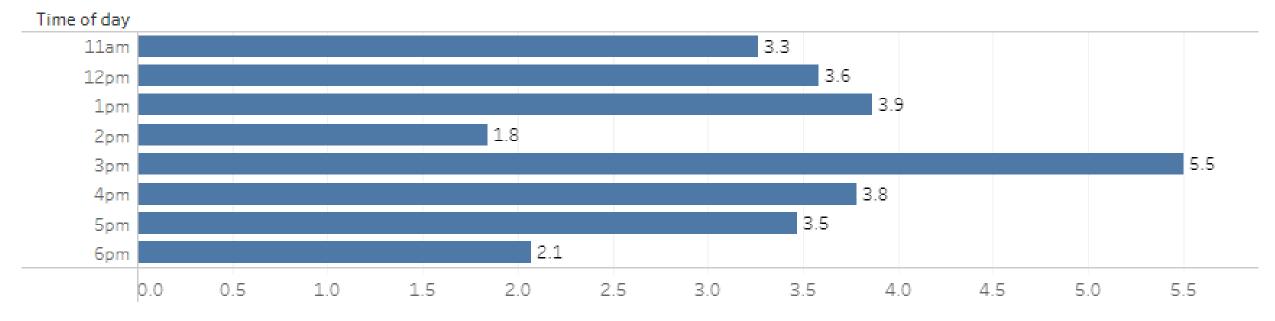


6pm - end of service





Zunga Bus - Average Rides Per Service Hour - Fall 2021



Avg. Rides per Service Hour



Service Planning Recommendations

1) Improve the transit experience and level of service for customers

2) Reduce transit service duplication

3) Simplify and streamline the transit experience in the near term



4) Maximize the benefit of on-demand transit

5) Align resources for future system enhancements in the longer term

Short Term Planning Actions (next 6 months)

Keep 1 Zunga Bus in operation with the same service hours while undertaking the following steps:

1) Assess stop level boarding and alighting data for all fixed route service. BC Transit is scheduled to install Automatic Passenger Counters on the transit fleet in Spring 2022

2) Identify under-utilized stops to inform future service adjustments



3) Engage the public on the consolidation of Route 3 Westview into an expanded Zunga Bus service and during lower ridership times for Routes 1 and 2

Medium Term Planning Actions

1) Monitor BC Transit's progress with the Provincial Digital On-Demand Transit Framework and lobby BC Transit to fund the Zunga Bus Service subsidy to be similar to the paratransit level in other communities, which is between 47-67%

2) Lobby BC Transit to retain the local branding of the Zunga Bus in future service agreements



3) Continue to coordinate with the Tla'amin community and the Regional District to define responsibilities and governance pertaining to service provision to the Tla'amin area

Zunga Service Projects (Short Term)

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Zunga Bus Service Projects	Annual Service Hours	Total Service Cost (Before Subsidy)	Interim Cost To City (% City Pays)	Expected Cost To City with On- Demand Subsidy (% City Pays)	Potential Revenue	Net New Cost to City with On-Demand Subsidy, after Revenue
Total Zunga Bus Service Hours Required	6,250	+ \$406,300	+ \$406,300 (100%)	+ \$134,100 to \$174,700 (33%-43%)	\$42,000 to \$84,000	
Eliminate Route 3	(-) 2,100	- \$231,000	- \$122,400 (53%)	- \$122,400 (53%)	-\$21,000	
Net New On- Demand Service Hours and Costs	4,150	\$175,300	\$283,900	\$11,700 to \$52,300	\$21,000 to \$63,000	\$31,300 to -\$51,300

Medium Term Service Actions - Fixed Route

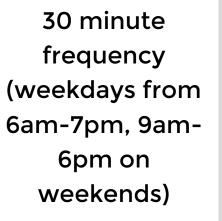
1) Implement a frequent transit route (combining Routes 1 & 2) serving key destinations on a consistent headway to improve service, legibility and the customer experience



New Combined High Frequency Route



wsp



Route 1

proposed unification

45 minute frequency weekday evenings

1,000 2,000 m

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Fixed Route Service Projects (Medium Term - Incremental Implementation)

Service Project Total	Annual Service Hours	Total Service Cost (Before Subsidy)	Total Cost To City (53%)	Potential Revenue	Total Cost to City After Revenue	
Existing Route 1 and 2 service Hours or Costs	8,700	\$957,000	\$507,200	\$195,800	\$311,400	
Combination of Routes 1 & 2 to create a new crosstown high frequency service	15,410	\$1,695,100	\$889,900	\$347,000	\$542,900	
Net New Service Hours or Cost	6,710	\$738,100	\$382,700	\$151,200	\$231,500	



Thank you

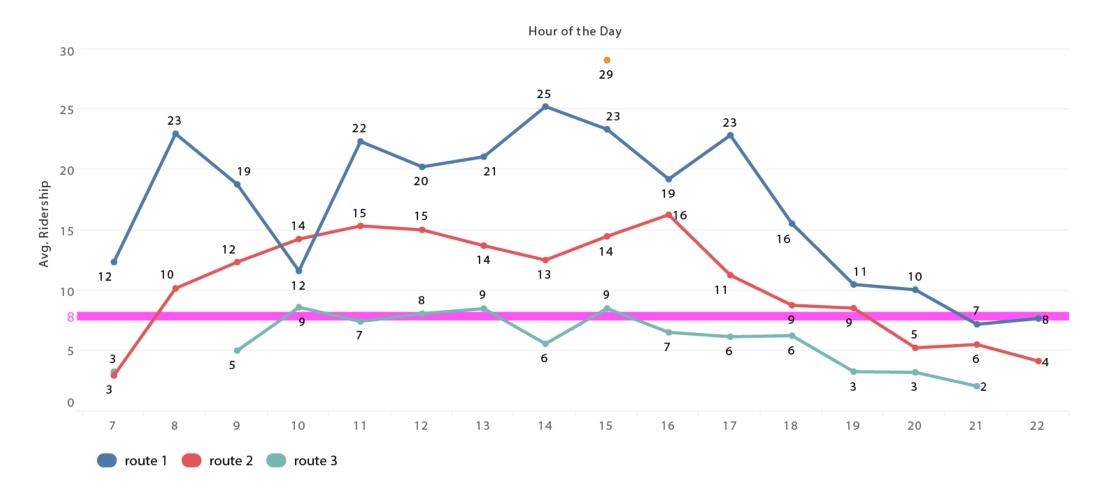






Appendix Slides

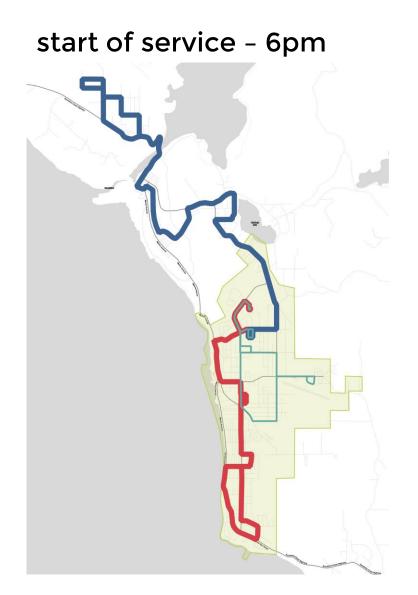
2019 Average Boardings by Hour – Fixed Route



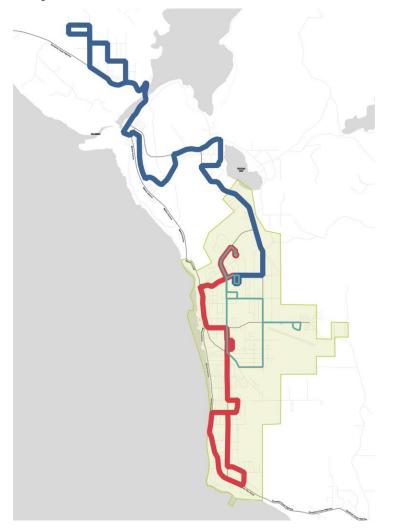


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2019 Weekday

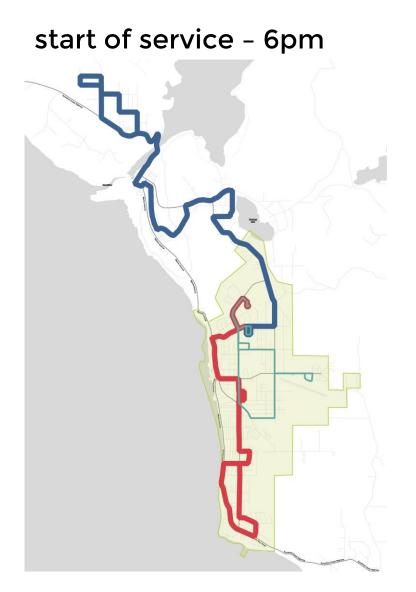


6pm - end of service

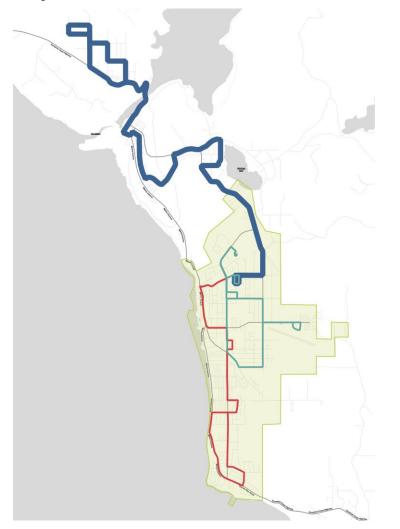




2019 Saturdays



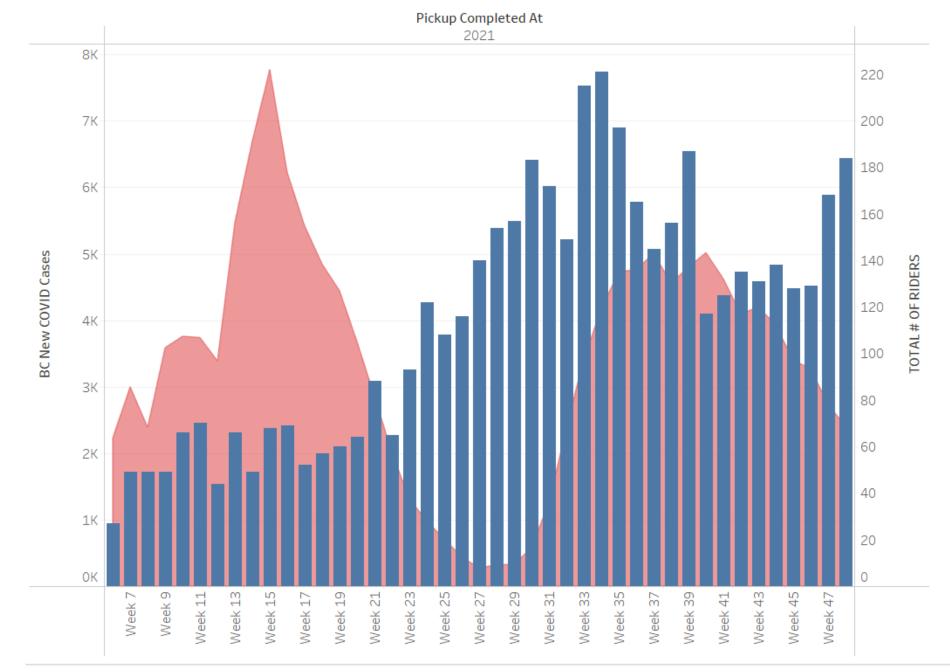
6pm - end of service





2021 Zunga Bus Ridership by Week vs BC Covid Cases

2021 Zunga Bus Ridership



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Zunga Service Projects

Zunga Bus Service Projects	Description	Annual Service Hours	Total Service Cost (Before Subsidy)	Interim Cost To City (% City Pays)	Expected Cost To City After Subsidy (% City Pays)	Potential Revenue	Net New Cost to City after Revenue
Existing Zunga Bus Service	On-Demand Service (11am-6:30pm, 7 days a week)	2,900	+ \$188,500	+ \$188,500 (100%)	+ \$62,205 to \$81,055 (33%-43%)	On-demand: 3 to 6 passengers per service hour	
	Eliminate of Route 3 - Westview, replace with Zunga Bus for all time periods	(-) 2,100 (elimination of Route 3)	- \$231,000	- \$122,430 (53%)	- \$122,430 (53%)	\$2.25 per passenger	
Conversion of Route 3 to Zunga Bus Service		1,750 (new Zunga Bus service during weekday evenings, Saturdays and Sundays)	+ \$113,750	+ \$113,750 (100%)	+ \$37,540 to \$48,900 (33% -43%)	Route 3: 8 passengers per hour	
Addition of Second Zunga Bus during higher ridership time periods	Deployment of 2 nd Zunga Bus during higher ridership times (weekdays from 10am to 4pm)	1,600	+ 104,000	+ 104,000 (100%)	+ \$34,320 to \$44,720 (33% -43%)	\$1.25 per passenger	
Net New Service Hours and Costs	Net network hours for the expanded Zunga Bus Service	4,150	\$175,200	\$283,820	\$11,630 to \$52,260	\$21,000 to \$63,000	\$31,300 to -\$51,300

Fixed Route Service Projects (Medium Term - Incremental Implementation)

Service Project Total	Description	Annual Service Hours	Total Service Cost (Before Subsidy)	Total Cost To City (53%)	Potential Revenue	Total Cost to City After Revenue
Existing Route 1 and 2 service Hours or Costs		8,700	\$957,000	\$507,200	\$195,800	\$311,400
	30 minute frequency (weekdays from 6am-7pm, 9am- 6pm on weekends) 45 minute frequency - weekday evenings	8,300 - Weekdays (7am- 6pm)	\$913,000	\$483,900	18 Passengers per hour	542,900
		3,000 - Weekday evenings	\$330,000	\$174,900	\$1.25 per trip (combination of	
Combination of Routes 1 & 2 to		3,000 - Weekends (9am- 6pm)	\$330,000	\$174,900	cash fare and passes)	
create a new crosstown high frequency service		460 - Branch service to Tla'amin (3 weekday trips plus 1 additional trip on Fridays)	\$50,600	\$18, 300 - Cost partially covered through contract with Tla'amin (~\$8,500)		
		650 - Branch service to Cranberry Lake (weekday school trips)	\$71,500	\$37,895		
		Total: 15,410 hours	Total: \$1,695,100	Total: \$889,900	Total: \$347,000	
Net New Service Hours or Cost		6,710	\$738,100	\$382,700	\$151,200	\$231,500