Transportation Community Forum

January 17, 2017

RESORT MUNICIPALITY OF WHISTLER
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Tonight's Agenda

5:00–5:30pm	Walk-through displays
5:30pm	Welcome and Introductions
5:45pm	"Transportation Today" Presentations
6:45 pm	Introduction to 2017 Action Plan
6:50–7:55pm	"Transportation Tomorrow" Exercise
7:55pm	Closing Comments & Next Steps

Mayor Nancy Wilhelm-Morden

Chair, Transportation Advisory Group

Jordan Sturdy

MLA – West Vancouver – Sea-to-Sky

Tonight's Purpose

1. Share TAG's purpose, role
2. Share highlights of what's been learned from the evidence-based research
3. Gather your input on the proposed short-term (2017) actions

Tonight's Agenda

5:50 pm	Presentations: *Transportation Today*
6:45 pm	Proposed 2017 Action Plan
6:50 pm	Table discussions: *Transportation Tomorrow*
7:55 pm	Closing Comments & Next Steps
8:00 pm	End

Transportation Today Presenters

- Richard Drdul, Drdul Community Transportation Planning
- Matthew Boyd, BC Transit
- James Hallisey, RMOW
- Mike Furey, RMOW

Transportation Engineering 101

Presented by:

Richard Drdul, P.Eng.

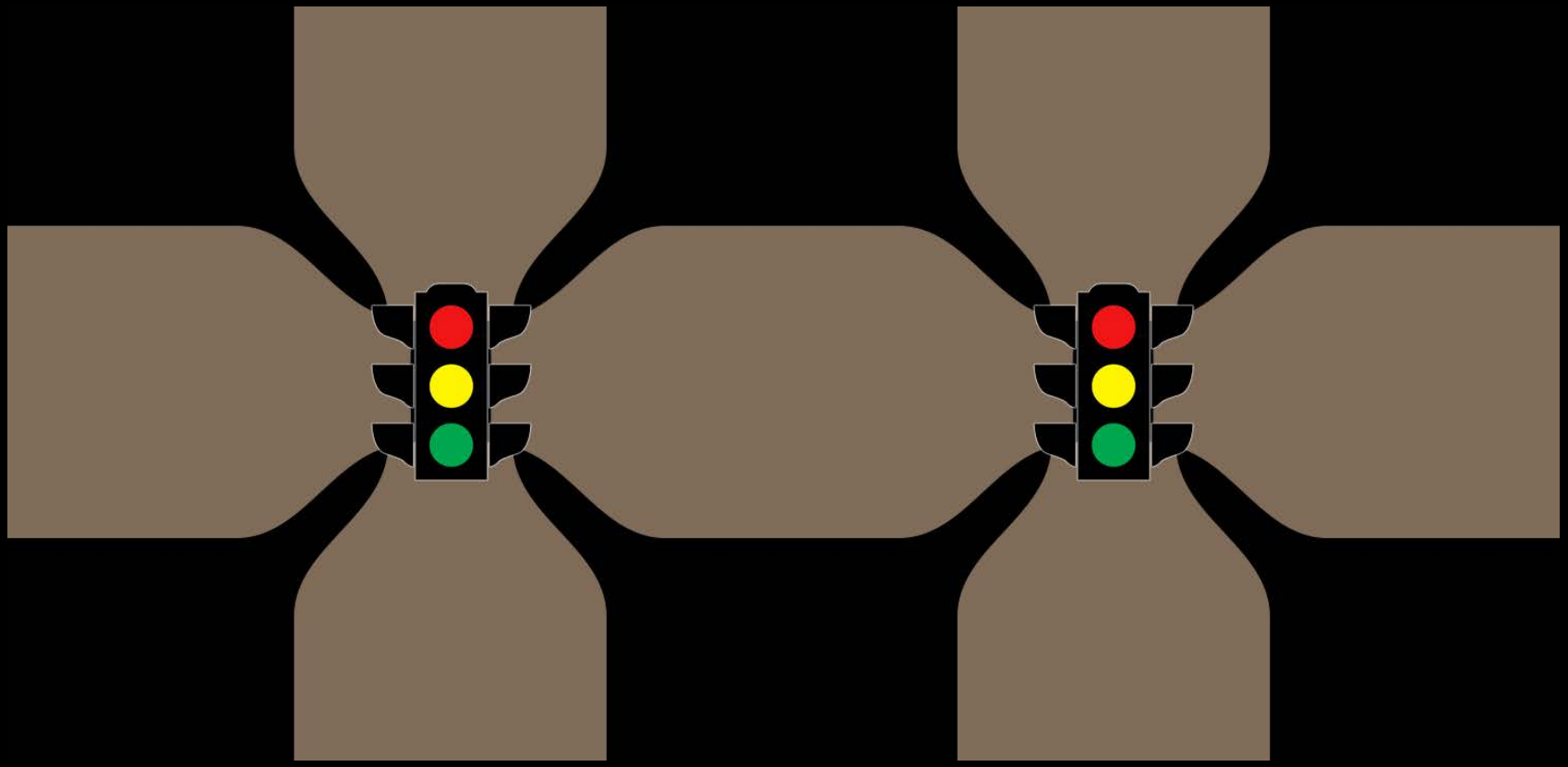
Community Transportation Planner

What is Transportation?

- Movement
  - ✓ of People
    - Visitors (Regional, Destination)
    - Employees (Local, Commuting)
    - Residents (Permanent, Part-Time, Seasonal)
  - ✓ of Products

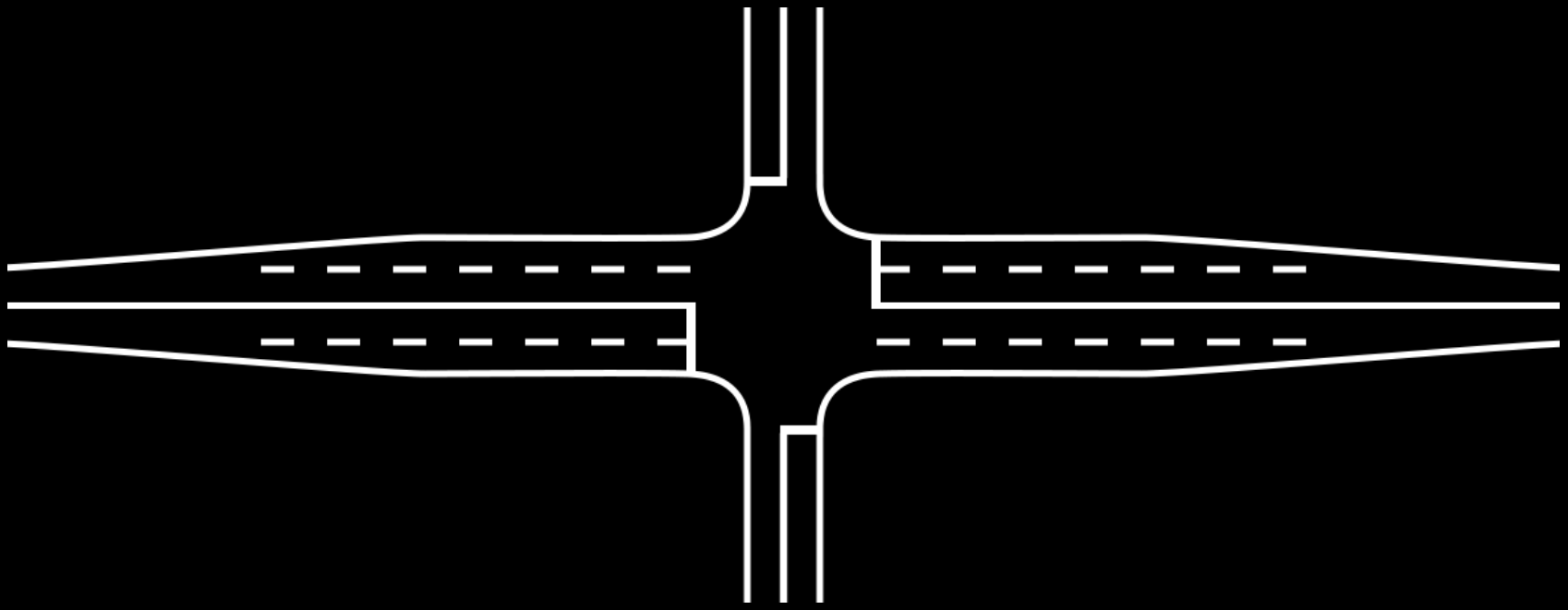
What is the capacity of a road?

Capacity is determined by intersections



What is the capacity of a road?

- Traffic lane:
  - Highway = up to 2000 vph
  - Signalized intersection = 500–1500 vph



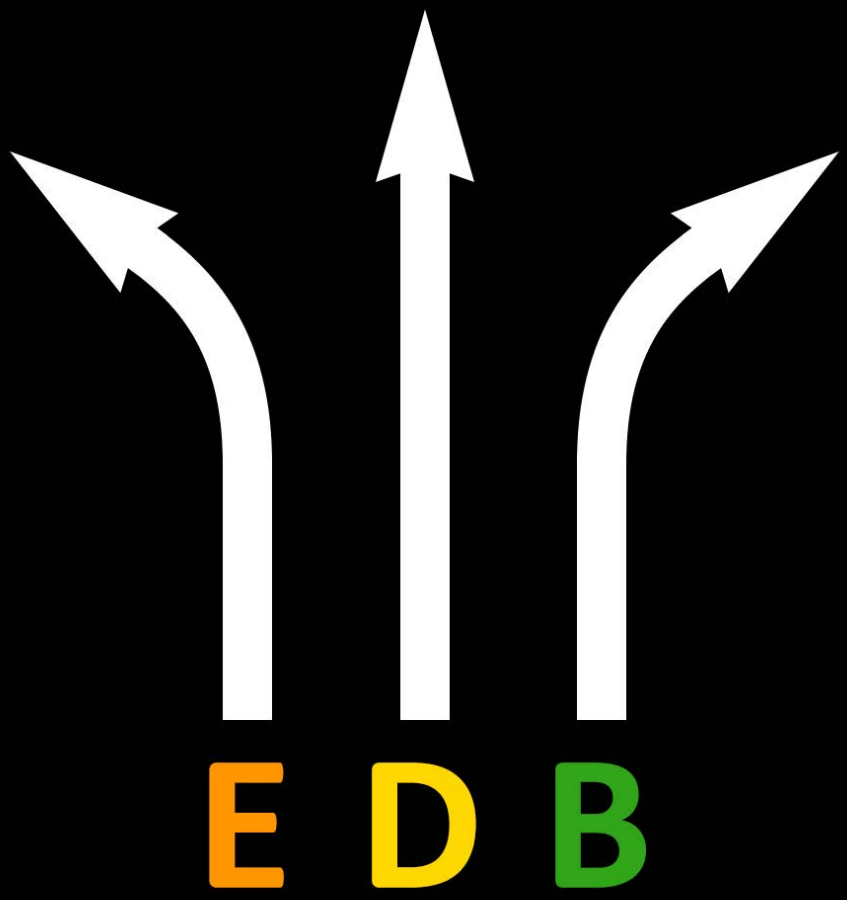
What is congestion?

- Measure congestion at intersections
- Delay = deceleration + stop + acceleration
- Calculate average delay by:
  - Time period (peak 15 mins, hour, 2 hours)
  - Movement, approach
  - Intersection

What is congestion?

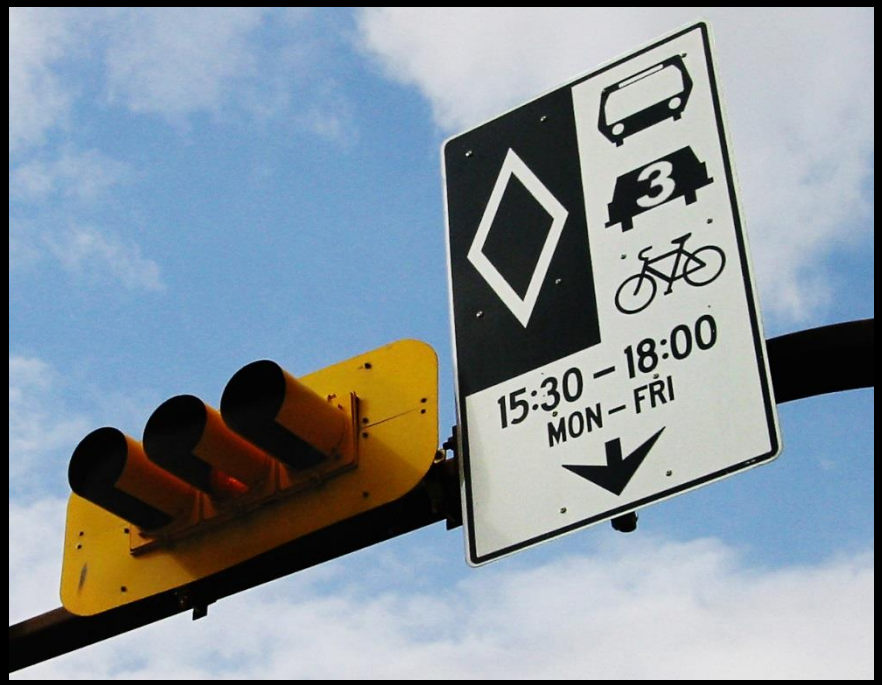
- Level of service

A	0–10 sec
B	10–20 sec
C	20–35 sec
D	35-55 sec
E	55-80 sec
F	80+ sec



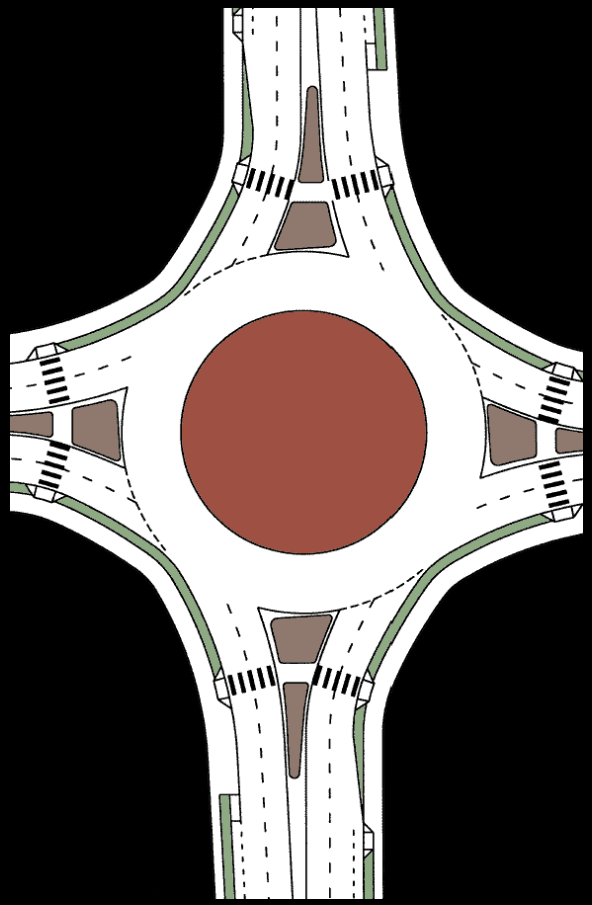
How can we reduce delay?

- Laning:
  - Additional through lanes
  - Turn lanes
  - Queue jumpers
- Signals:
  - Phases
  - Timing
  - Pedestrians



How can we reduce delay?

- Roundabouts:
  - Yield on entry if necessary
  - Splitter islands with crossings
- Applicability:
  - Low to moderate traffic volumes
  - Balanced volumes on 3 or more legs
  - Safety issues



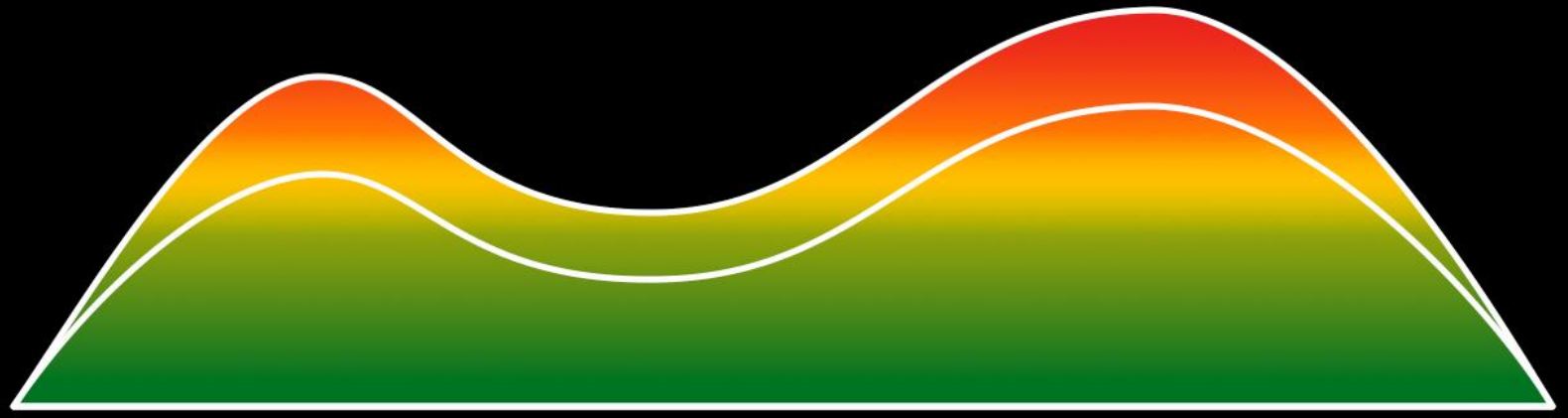
How can we reduce delay?

Caution:

- **Consider entire corridor** – aim for balance throughout corridor
- **Manage congestion** – don't expect to build your way out of congestion

How else can we mitigate congestion?

- Travel demand management – shift demand to other times, other modes
- Manage local trips – reduce number and length of trips on highway



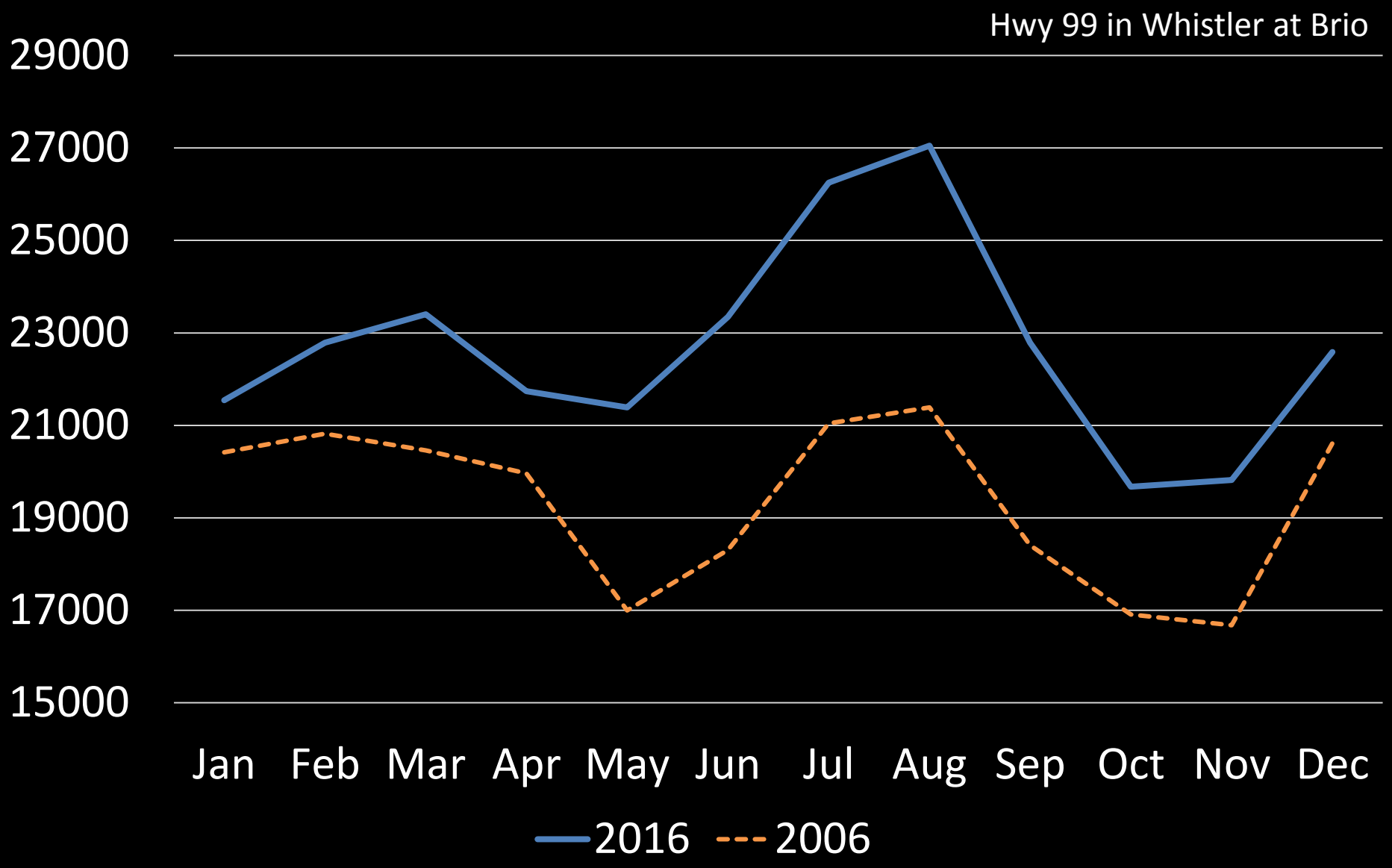
How else can we mitigate congestion?

- Locally generated trips are a key factor on peak days:
  - Shift to non-peak times
  - Shift to other modes
  - Shorten or avoid trips
  - Inter-neighbourhood connections

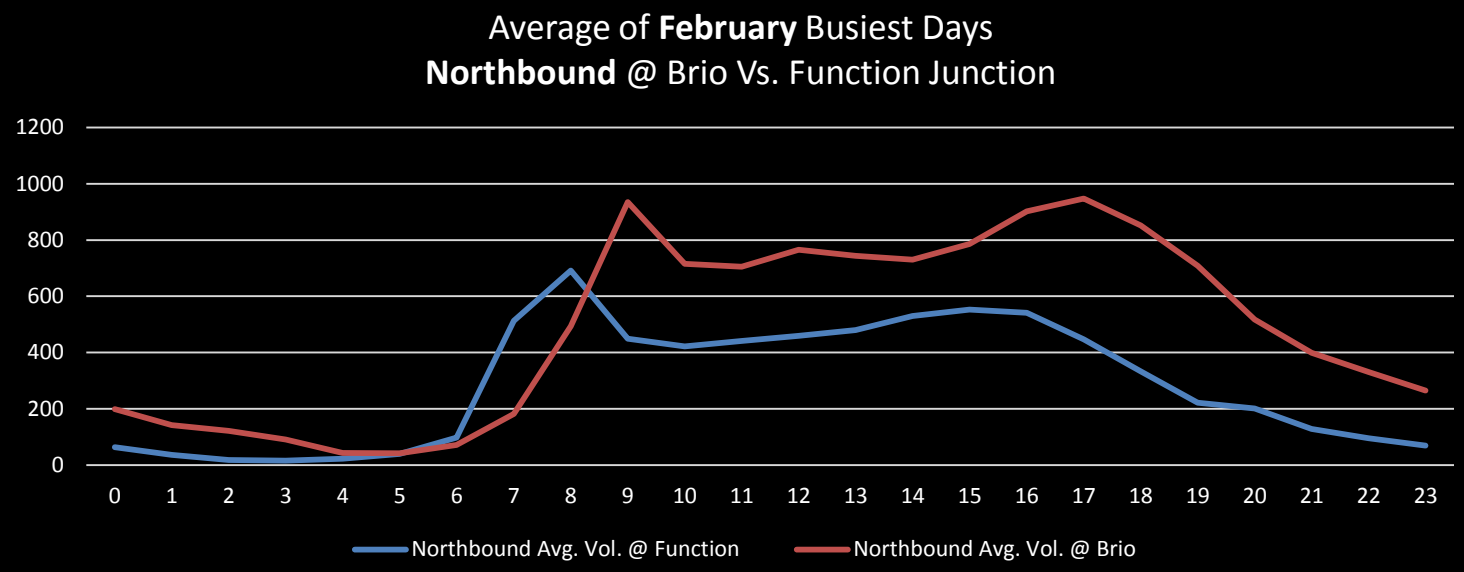
What can we do now?

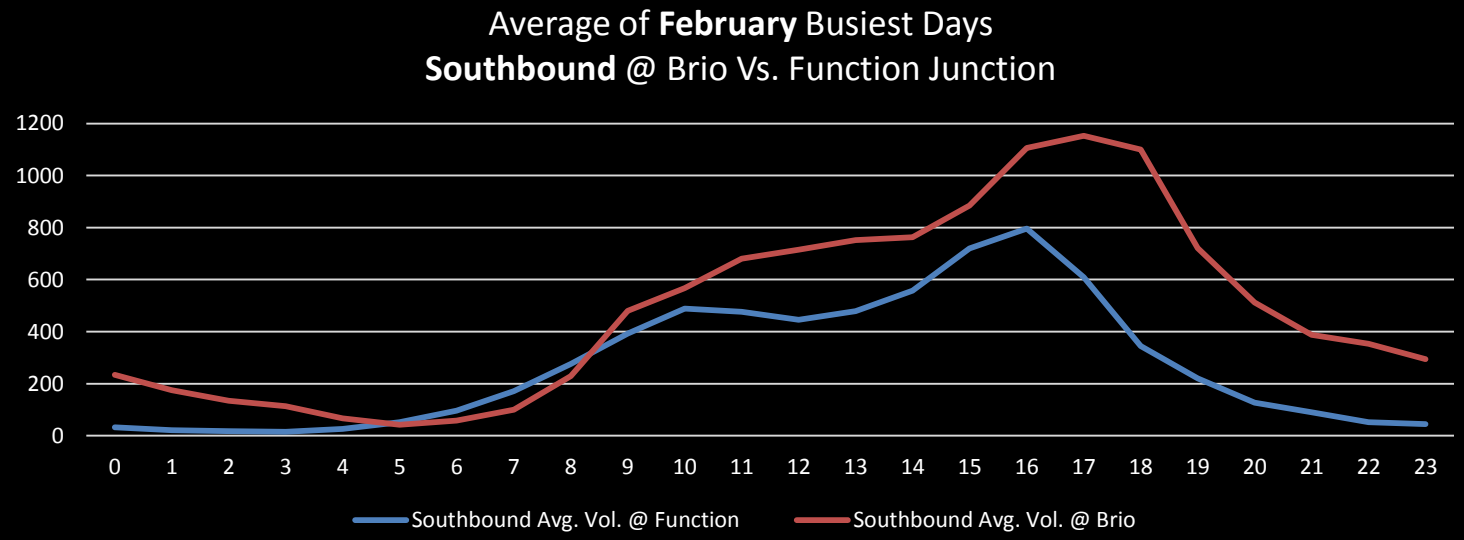
- Corridor traffic analysis of highway:
  - Analyze potential solutions
  - Compare infrastructure solutions to TDM solutions
  - Identify preferred solutions with partners
- Prioritize and implement solutions

Annual Traffic Comparison



2016 Winter Traffic





2016 Winter Traffic

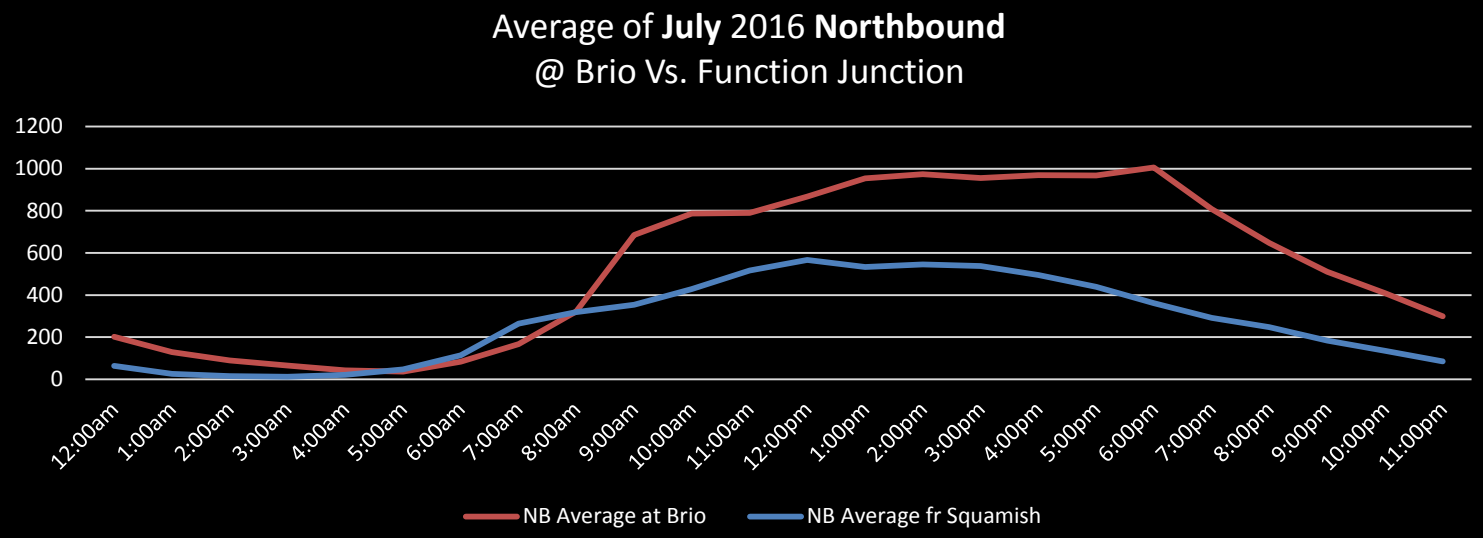
Example: Northbound at noon on Feb weekends:

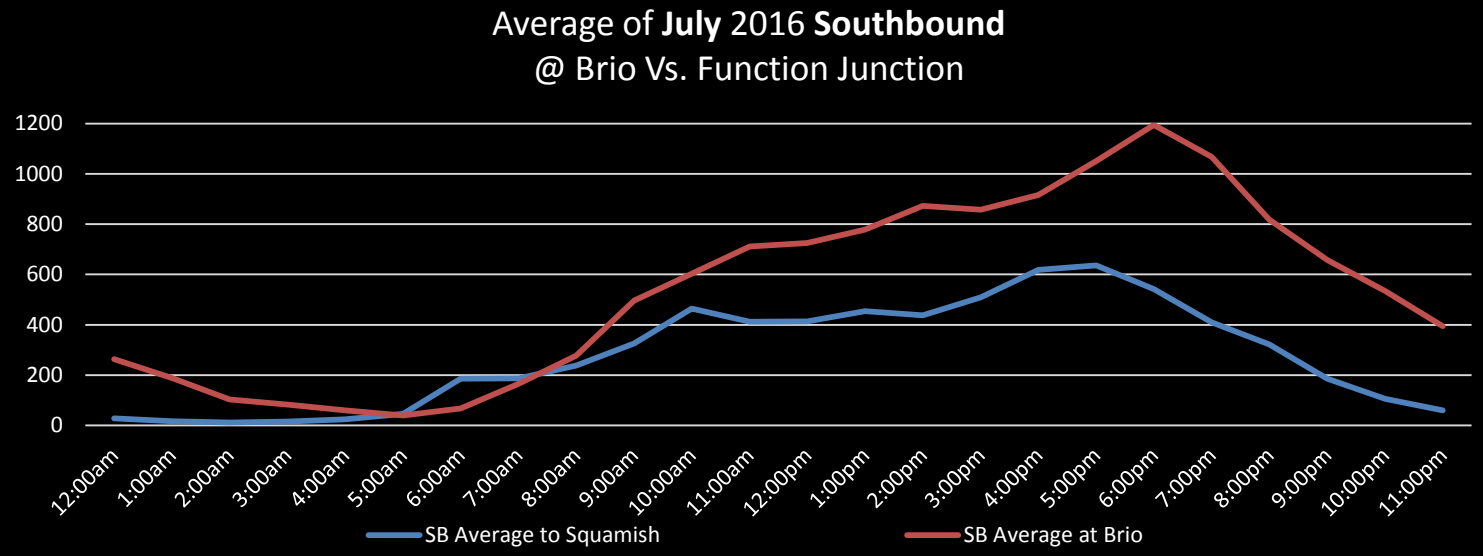
Location	Cars per hour
Brio – (Red Line)	800
South of Function Junction (Blue Line)	460

Traffic generated within Whistler: 340 cars/hour
= 40% of total

**Area between the Red line and Blue line on graph is traffic generated within Whistler.

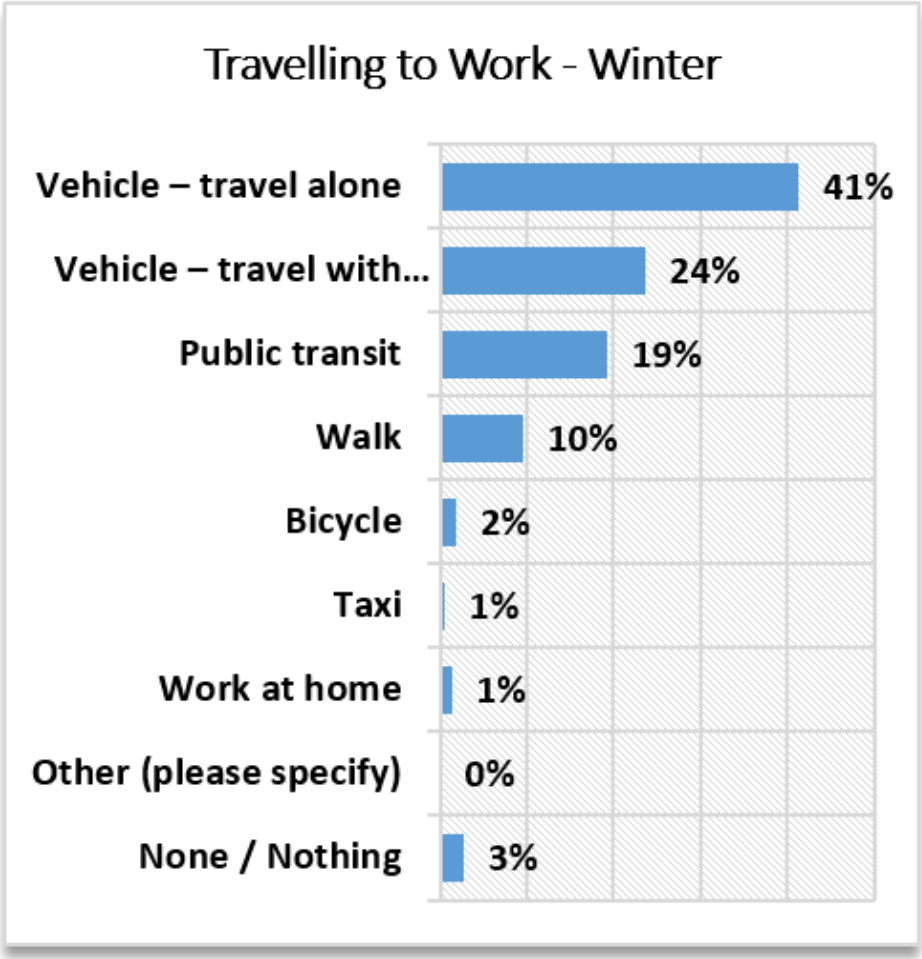
2016 Summer Traffic

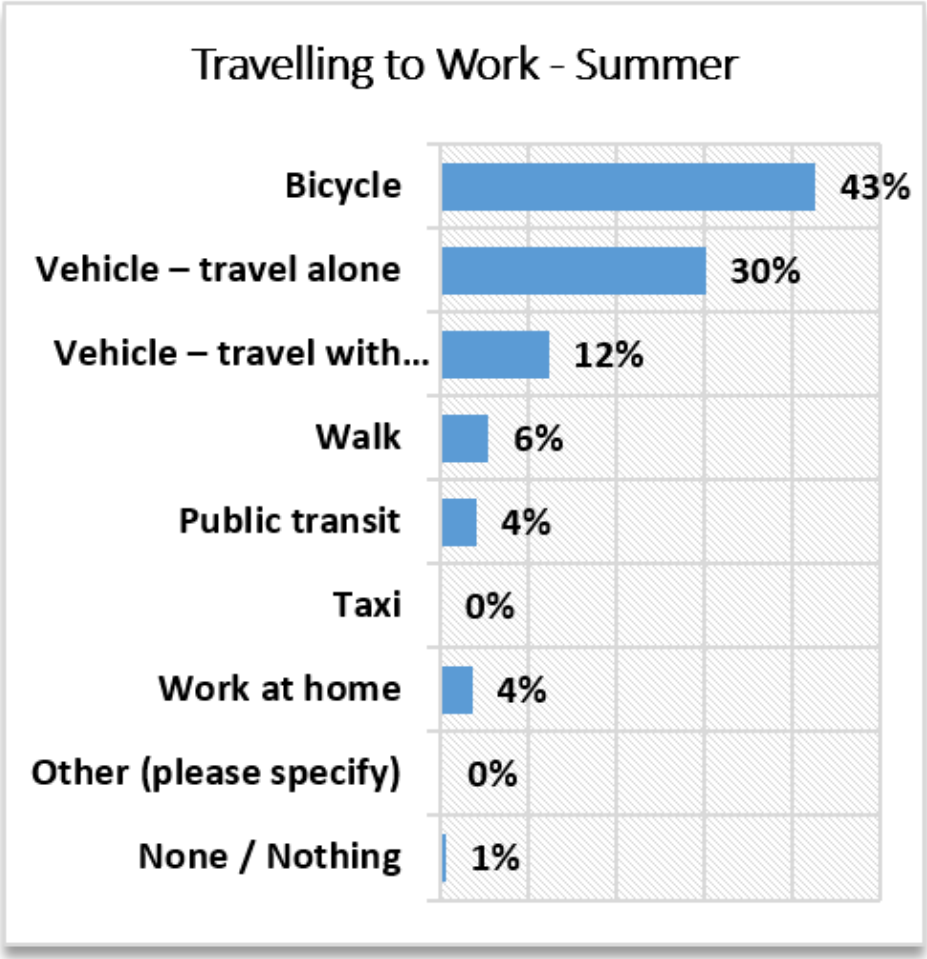




Travel Demand Management

How are people in Whistler travelling today?





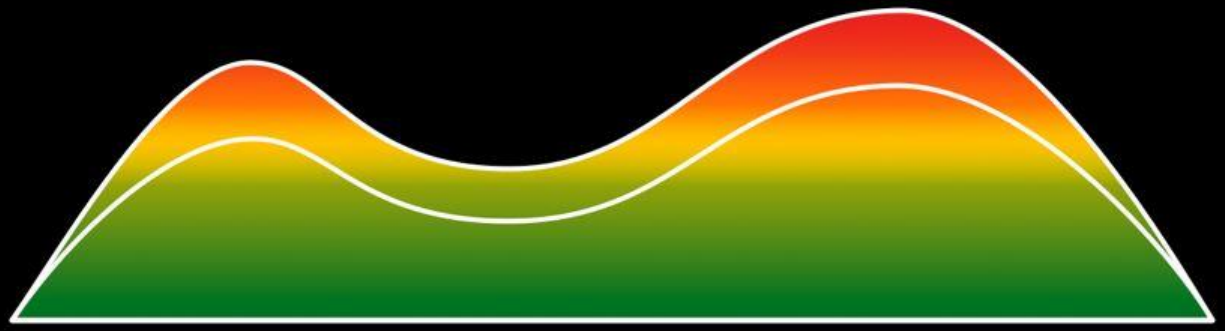
Source: 2015 Whistler Community Life Survey

Travel Demand Management

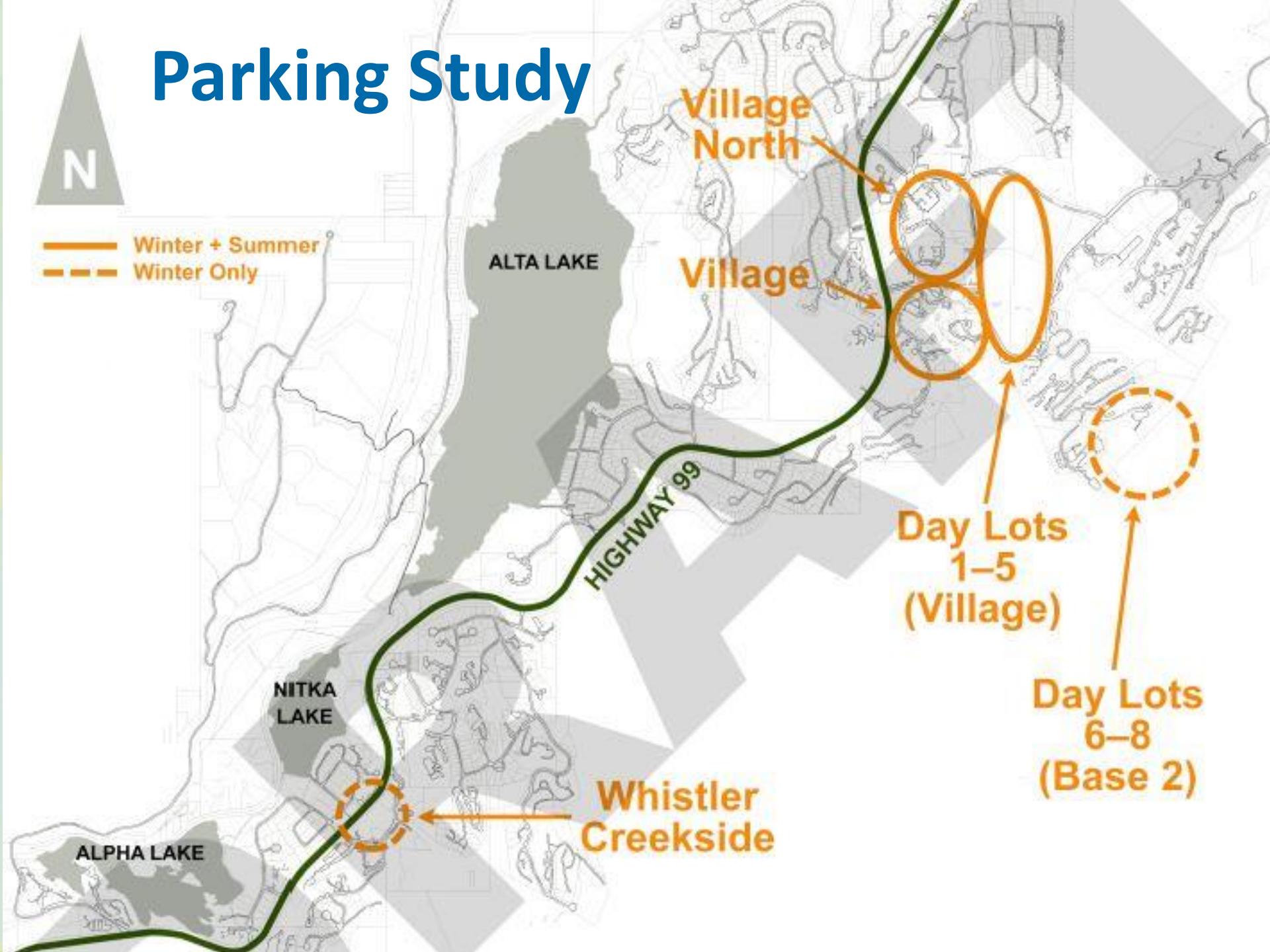
Why is it important to know where the traffic comes from?

Travel demand management – shift demand to other times, other modes

Manage local trips – reduce number and length of trips on highway



Parking Study



2016 Parking Study

Measure peak and near-peak parking demand:

- Winter
- Summer

Information for transportation planning

Program for future parking counts

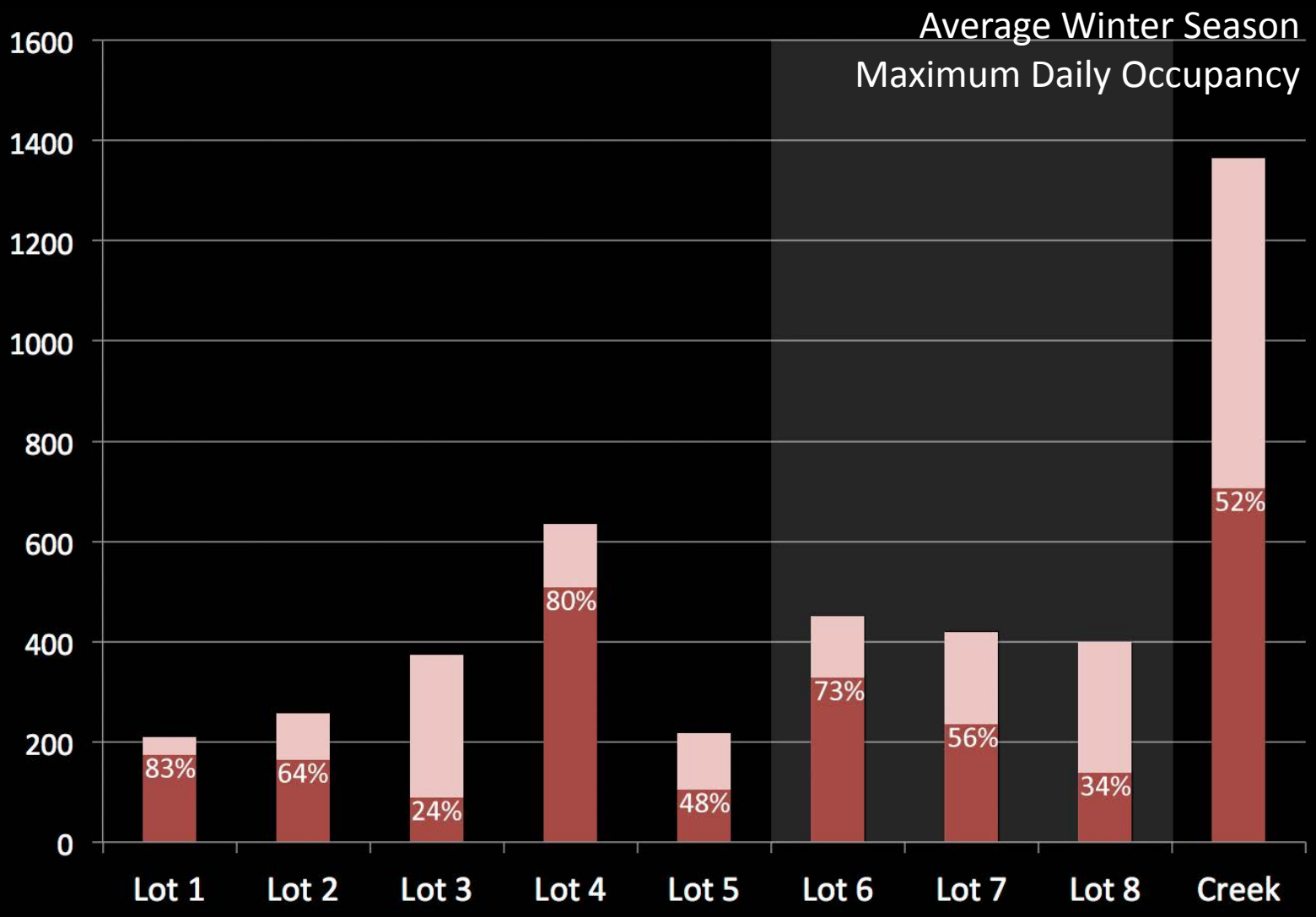
Availability

Primary objective in managing parking:

- Visitor/customer experience
- Congestion, frustration

- Village: 15% availability = 85% occupancy
- Day lots: 10% availability = 90% occupancy

Winter: Day Lots



Winter: Day Lots

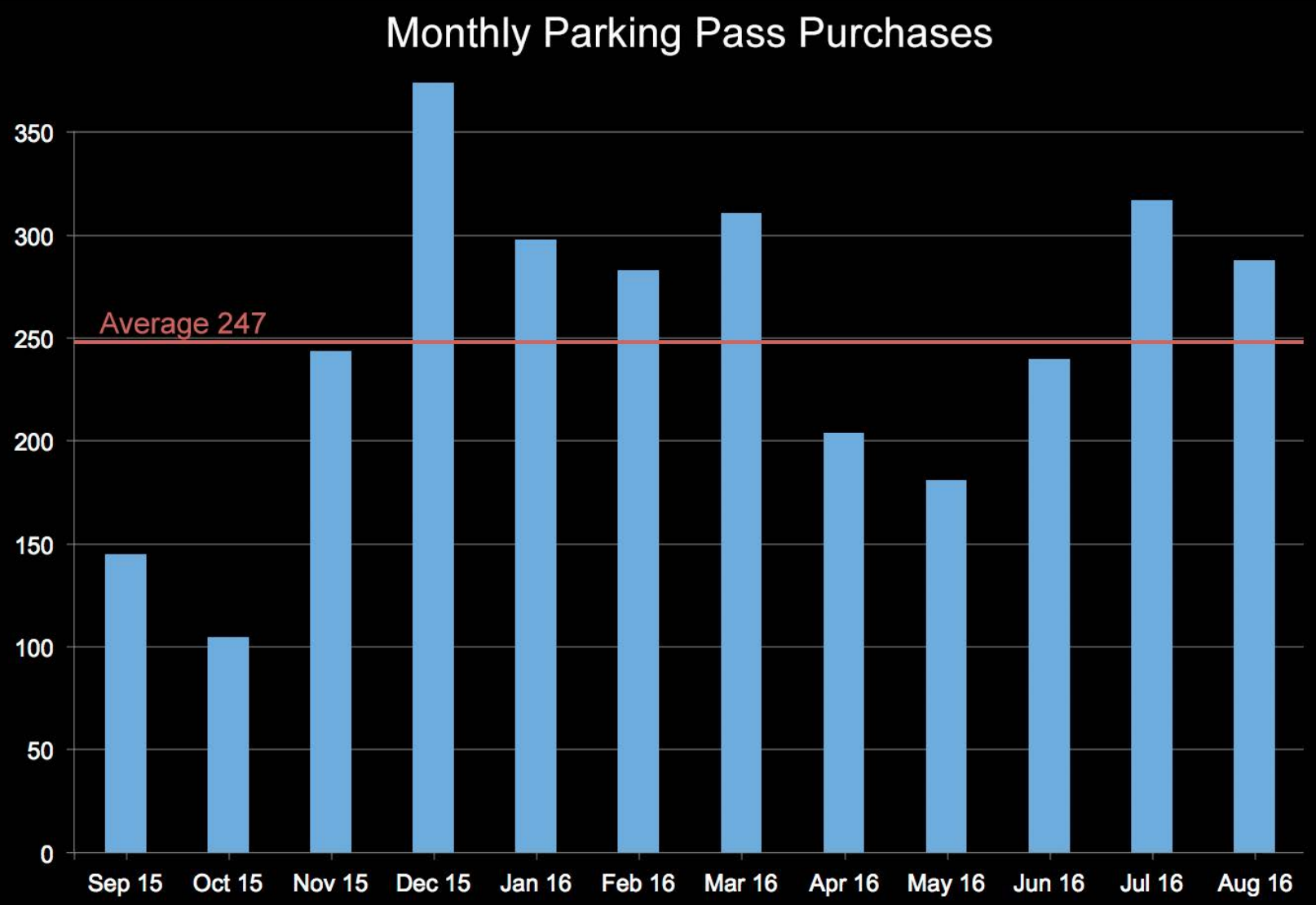
Summer: Day Lots

Summer: Day Lots

Average Times Day Lots Full
1 July – 5 September 2016

	Friday	Saturday	Sunday
Free Lots	10:39 am	9:52 am	9:54 am
Pay Lots	12:27 pm	12:18 pm	11:30 am

Summer: Day Lots

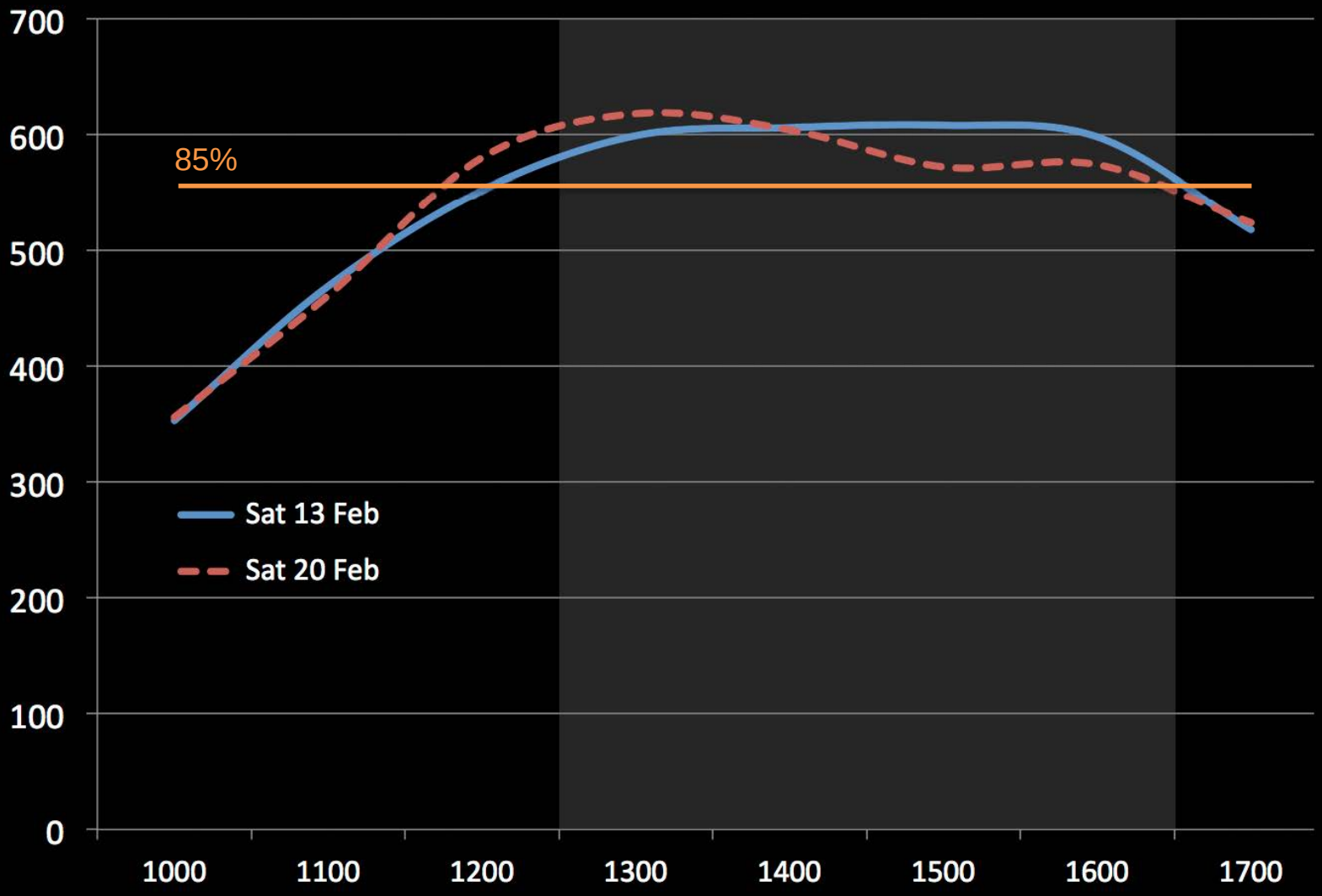


Summer: Day Lots

Overnight Parking

	Wednesday 24 August 4:00 am	Saturday 27 August 4:00 am	Sunday 28 August 4:00 am	Saturday 3 September 4:00 am
Lot 5	28	51	27	52
Lot 4	43	58	39	71
Lot 3	6	5	4	10
Lot 2	5	2	4	18
Lot 1	7	3	5	22
Totals	**89**	**121**	**79**	**173**

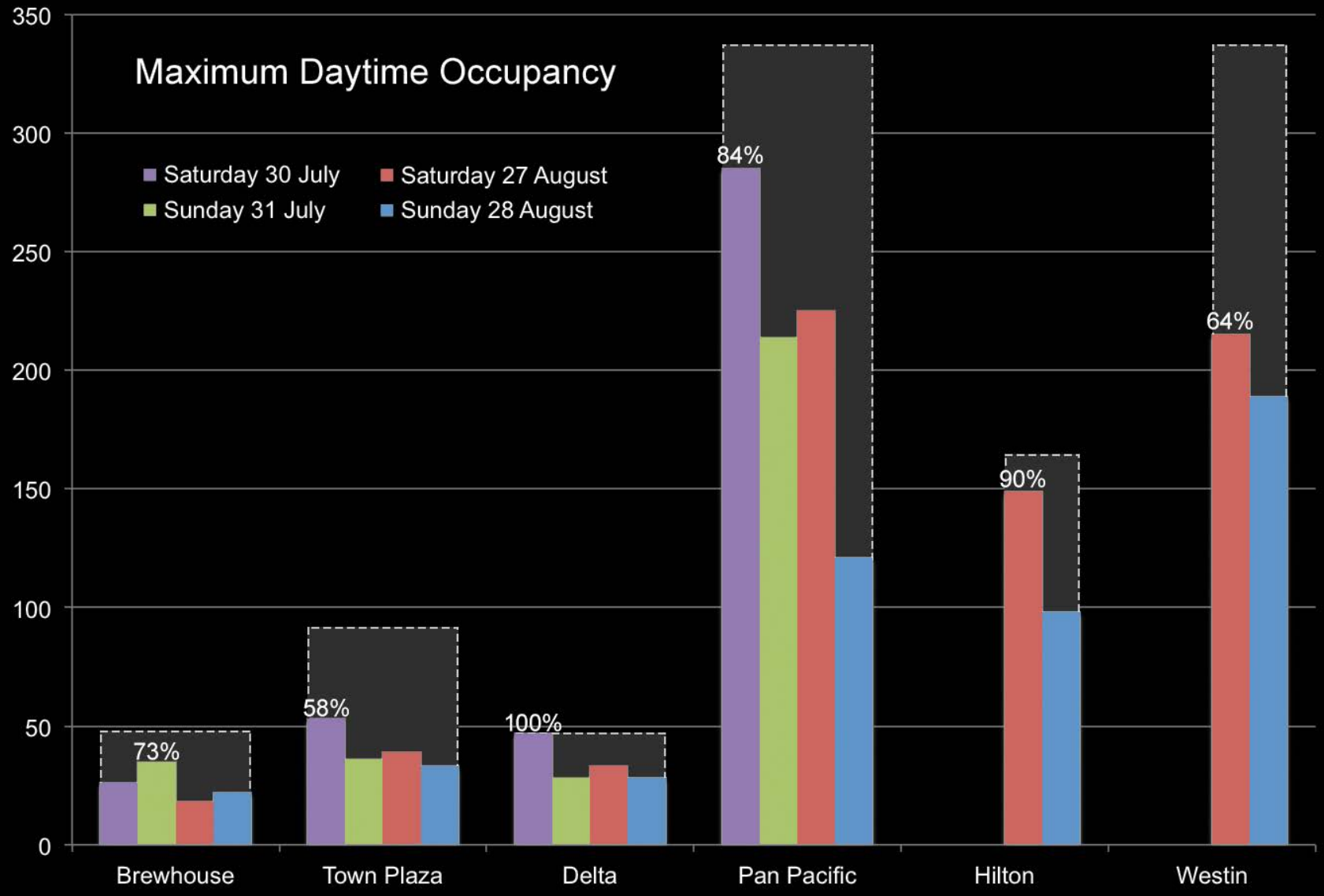
Winter: Village Parking



Summer: Village Parking

		Main Street	Conference Centre (Surface)
Capacity		81 veh	70 veh
Duration	Average	1 hr 17 min	1 hr 19 min
	Maximum	8.0+ hr	8.0+ hr
Occupancy	0–2 hr	49%	39%
	2.5–4 hr	20%	16%
	4.5+ hr	11%	10%
	Empty	21%	35%

Summer: Private Lots



Conclusion

Availability is not adequate:

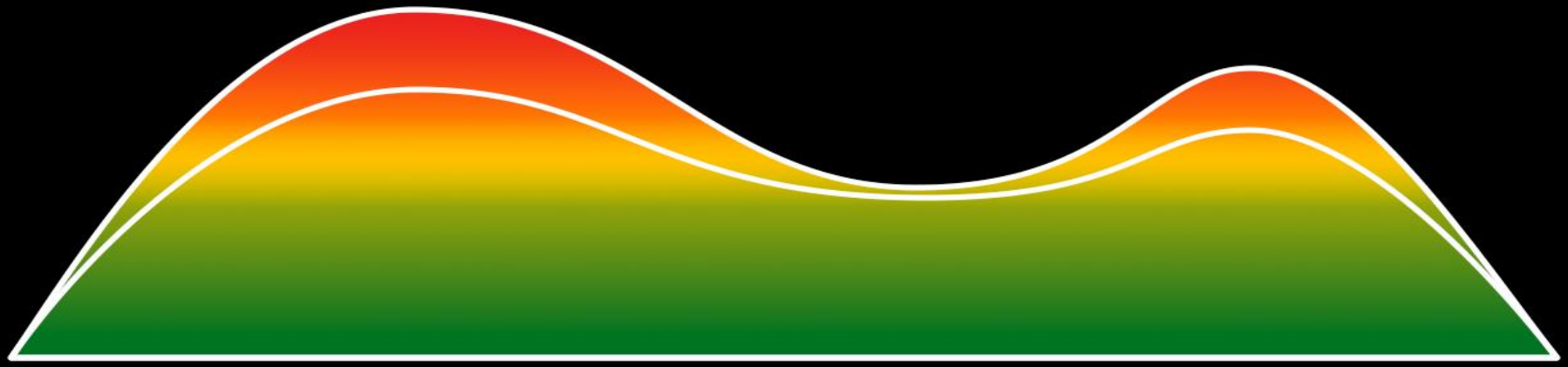
- In most Village municipal lots
- On peak and near-peak days
- In winter and summer

But, we don’t need to build more parking.

Availability: Shift Parking

Shift:

- Longer-term parking from Village to day lots
- All-day parking from day lots to Creekside, Base 2
- More parking to private lots



Availability: Shift Parking

Techniques to shift parking:

- Reduce time
- Increase parking prices
- Price all day lots
- Raise monthly parking pass price
- Free transit
- Better identify private lots
- Employee parking
- Parking app

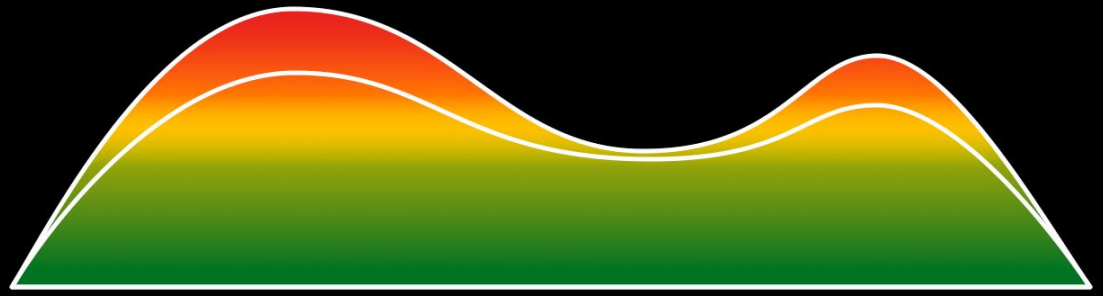
Availability: Manage Demand

Enforcement:

- Patrols
- Technology
- Fines

Demand management:

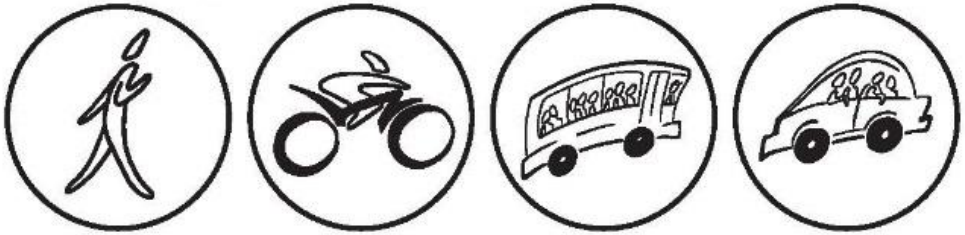
- Transit
- Carpools
- Walking, cycling



2016 Summer Pilot Project

Know and Then Go

On busy weekends consider:



Summer Saturdays (July 30 to September 3) on the **Whistler Transit System**

EXTENDED TO 8PM

- **FREE** on all routes **until 8 p.m.**
- **Extra buses**: between **7 a.m. and 8 p.m.** from Cheakamus to Emerald **15 minute service** schedule at **bctransit.com/whistler**

supported by:

Whistler Transit safely home

WHISTLER BLACKCOMB

BCTransit

WHISTLER

Walk. Cycle. Bus. Pool

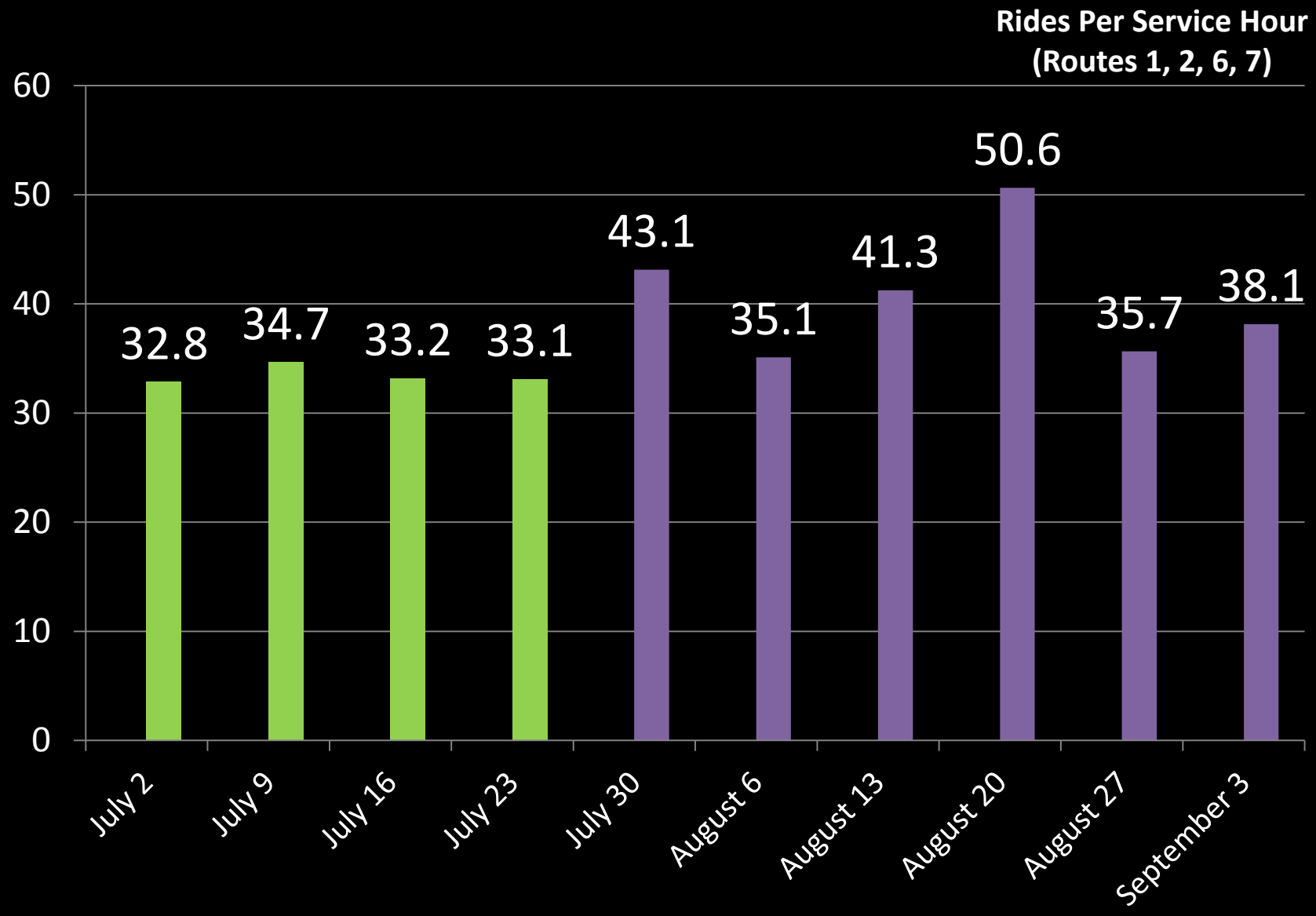
Before and After Ridership

- 1,600 – Average NEW rides per Saturday
- 52% increase

Number of Passengers by route & total

Route	1	2	6	7	Total
Before the Pilot Project	2,385	480	92	112	**3,069**
During the Pilot Project	3,654	671	156	196	**4,677**
% Increase	53%	40%	70%	75%	**52%**

Before and After Ridership



Post Project Findings

- over 200 survey responses
- Most who did take transit on the free Saturdays:
  - ✓ for social/recreational/shopping then work trips
  - ✓ 80% Long-term Residents that own a vehicle
  - ✓ didn't want the hassle of finding parking
- Popular requests
  - ✓ Saturdays and Sundays
  - ✓ Longer hours (beyond 8pm)
  - ✓ Better communication

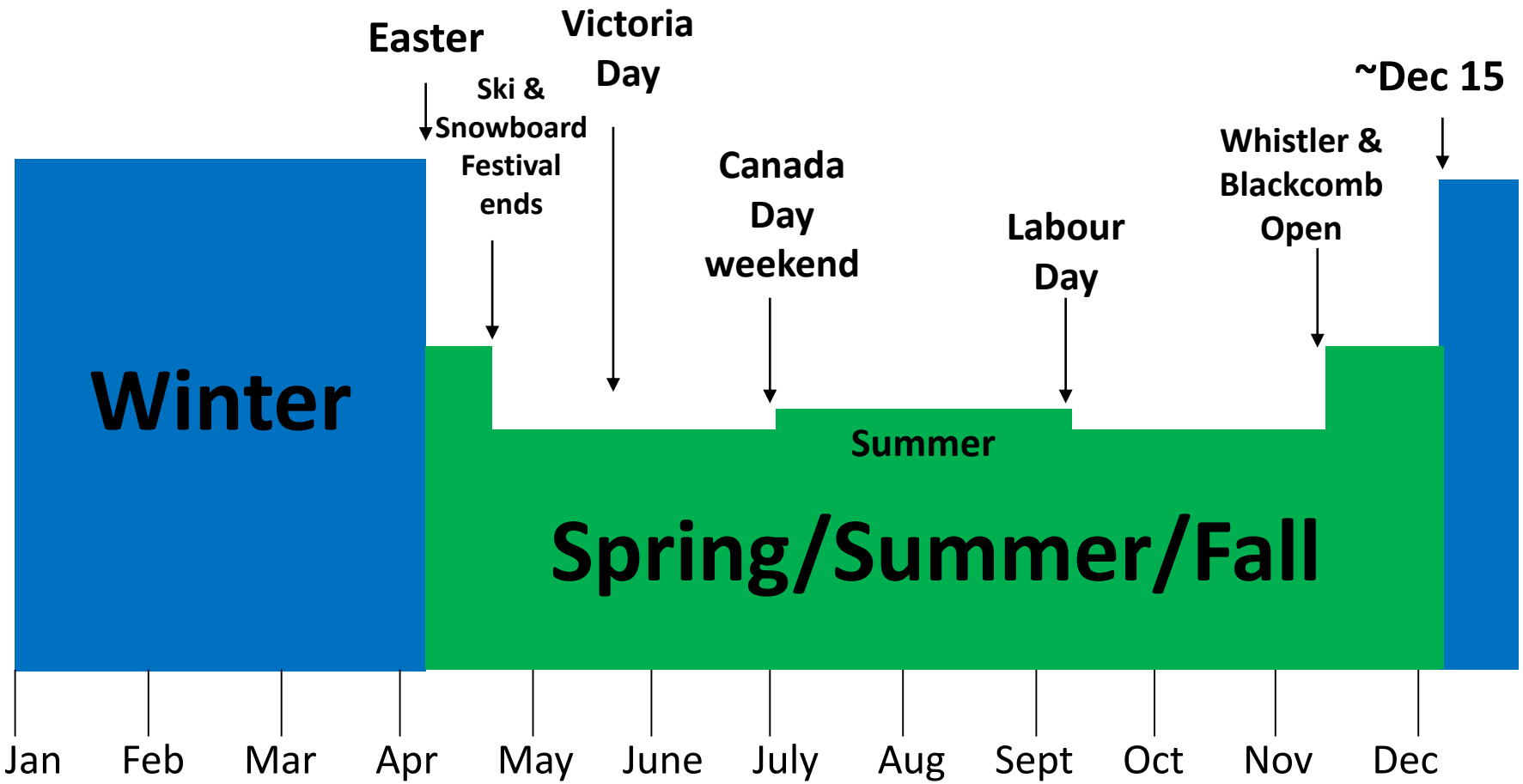
Transit Update

Presented by:

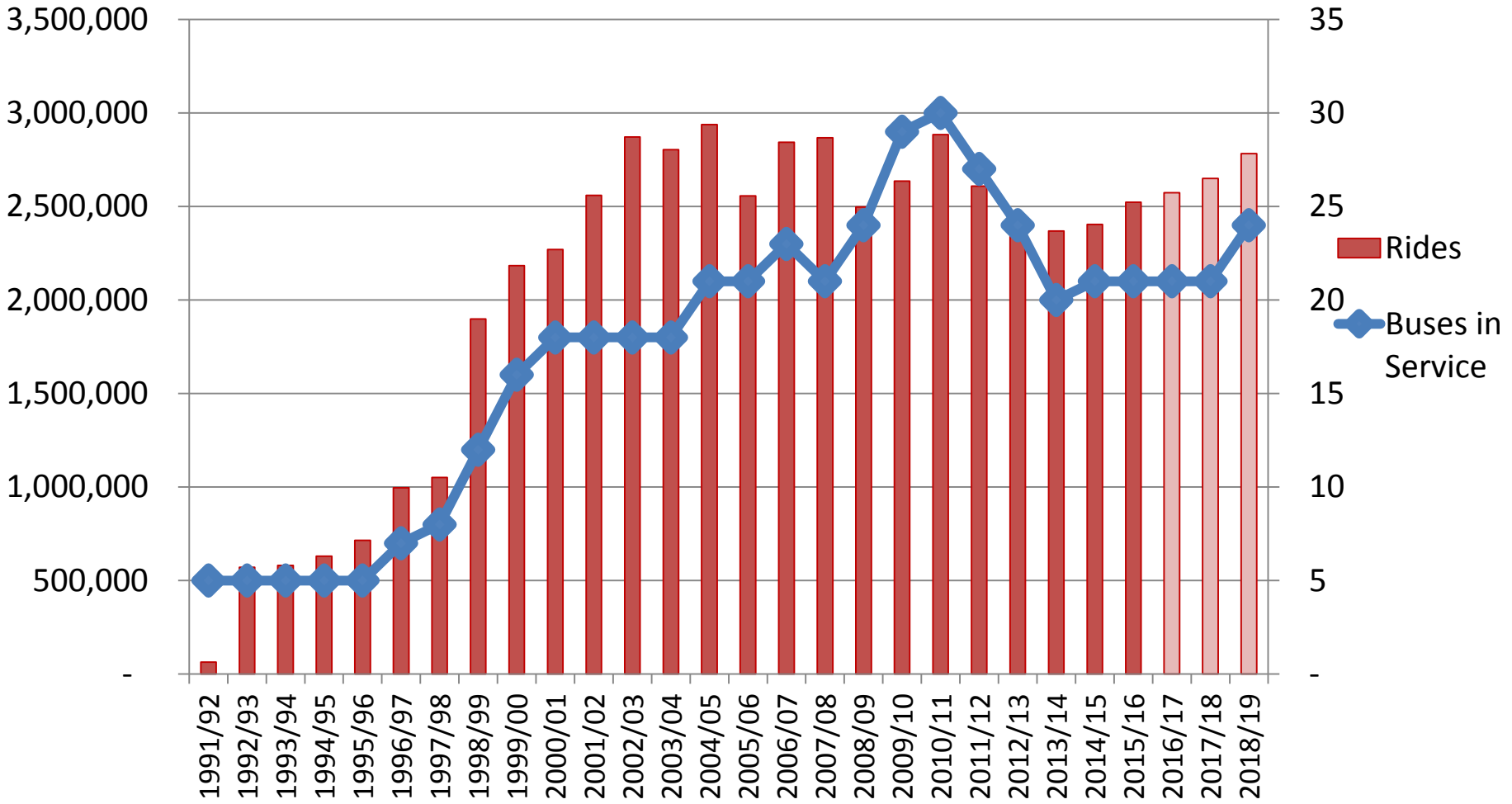
Matthew Boyd, BC Transit
Senior Planner – Regional Work Lead

Whistler Transit System Service

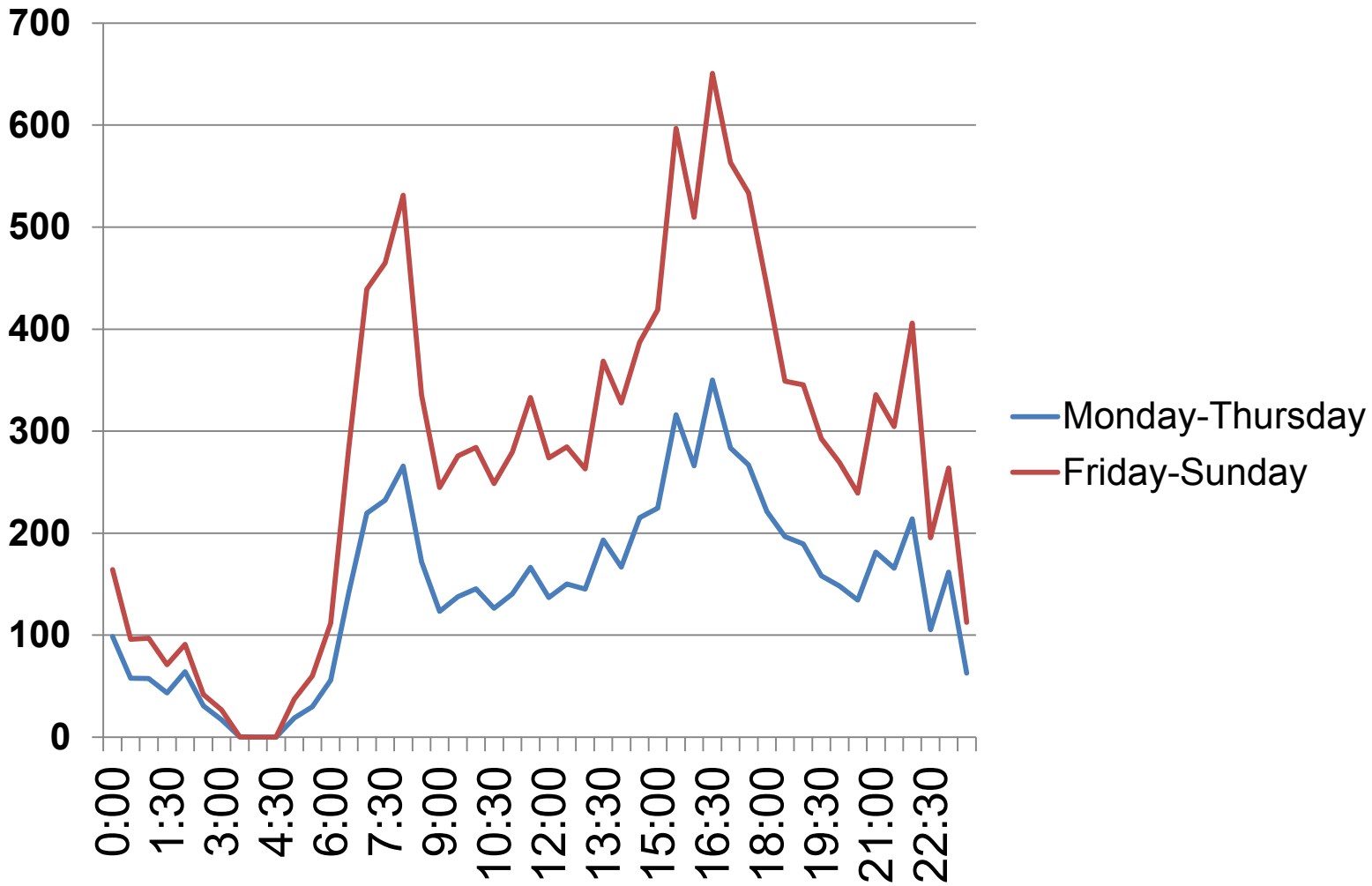
with additional buses for
Late Winter, Summer, and Early Winter



Whistler Transit System Rides

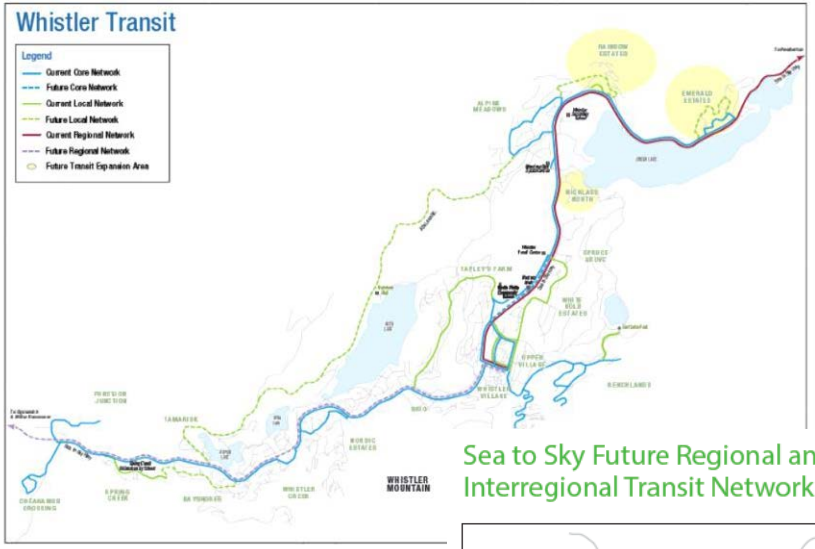


Whistler Transit Daily Rider Profile

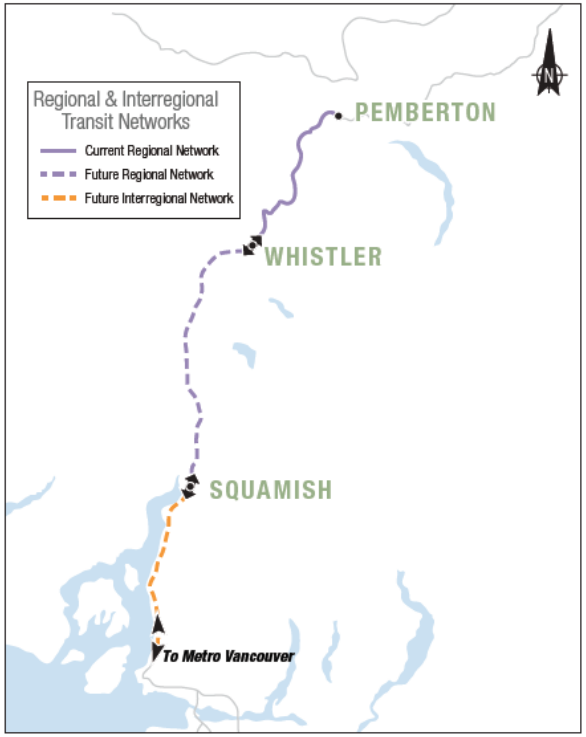


Sea to Sky Transit Future Plan

Whistler Future Local Transit Network Map



Sea to Sky Future Regional and Interregional Transit Network Map



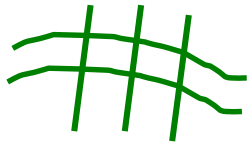
Transit Future Plan

SEA TO SKY | 2015

BCTransit

What is a Transit Future Plan?

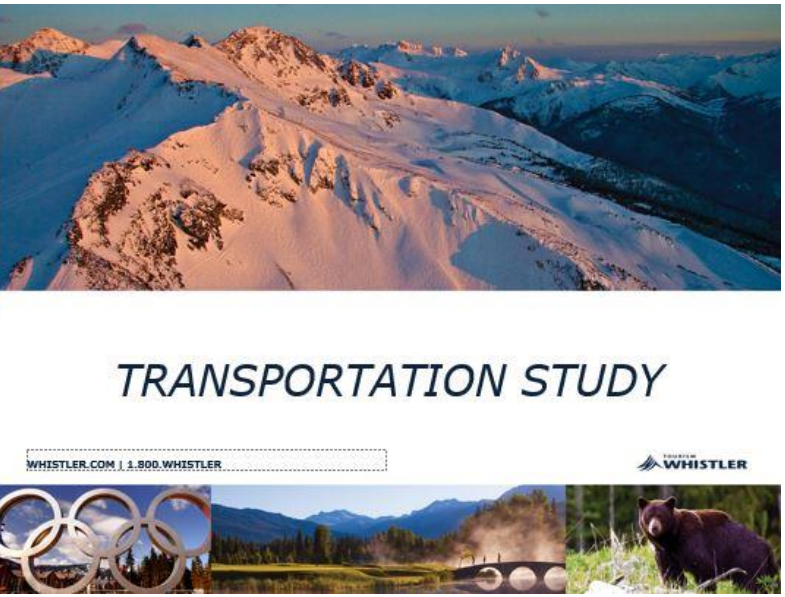
- Guides and prioritizes future investment in the transit system
- Sets ridership targets
- Identifies key transit corridors and the supporting local transit network
- Identifies the fleet, service hours and infrastructure needed to support the transit network



Regional Transit and Regional Coaches

Transit Future Plan

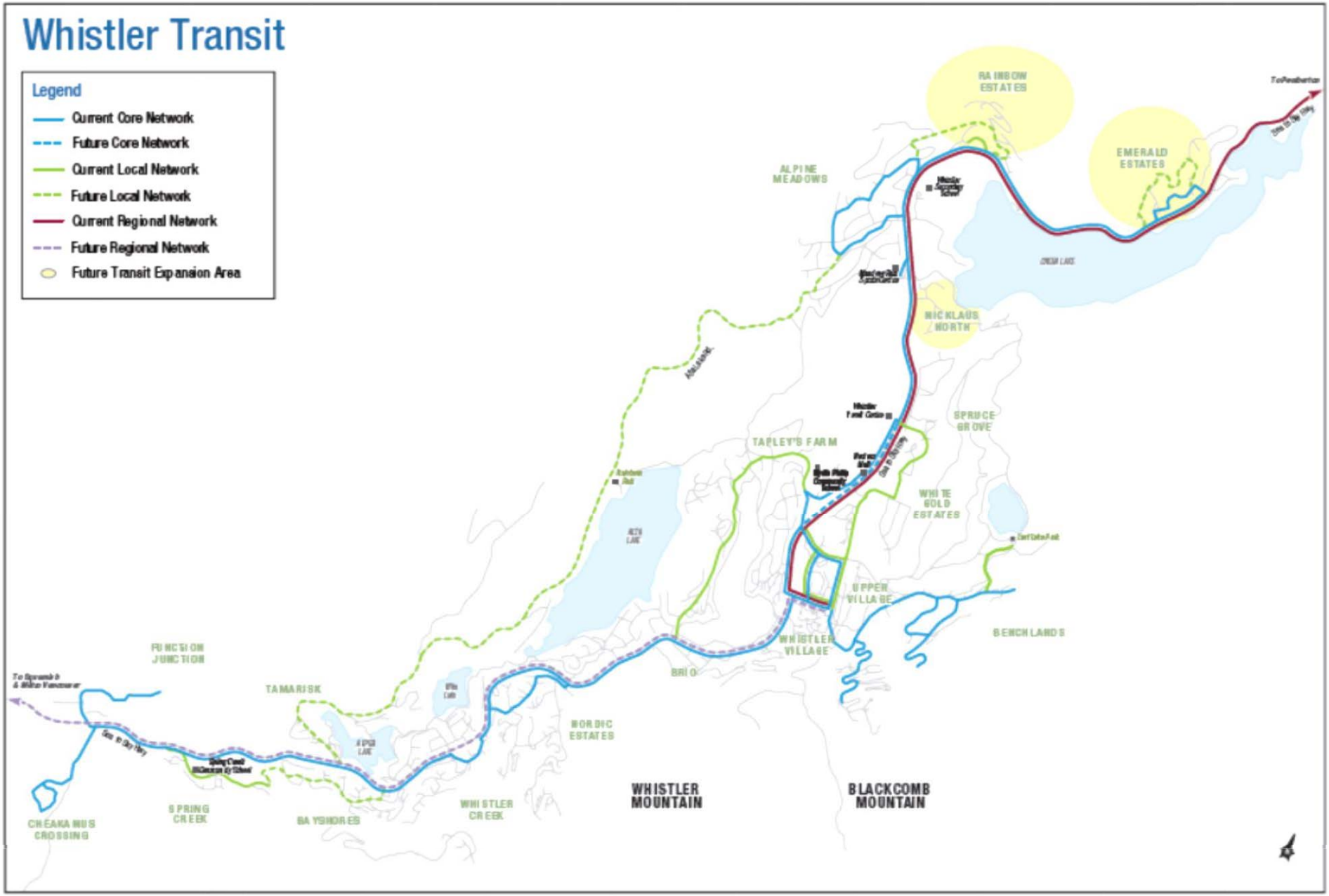
- ✓ Public Transit
- ✓ Whistler Transit System
- ✓ Sea to Sky Regional Transit



Connections to Vancouver YVR & downtown

- ✓ Private Transit
- ✓ From a guest perspective

Whistler Future Local Transit Network Map



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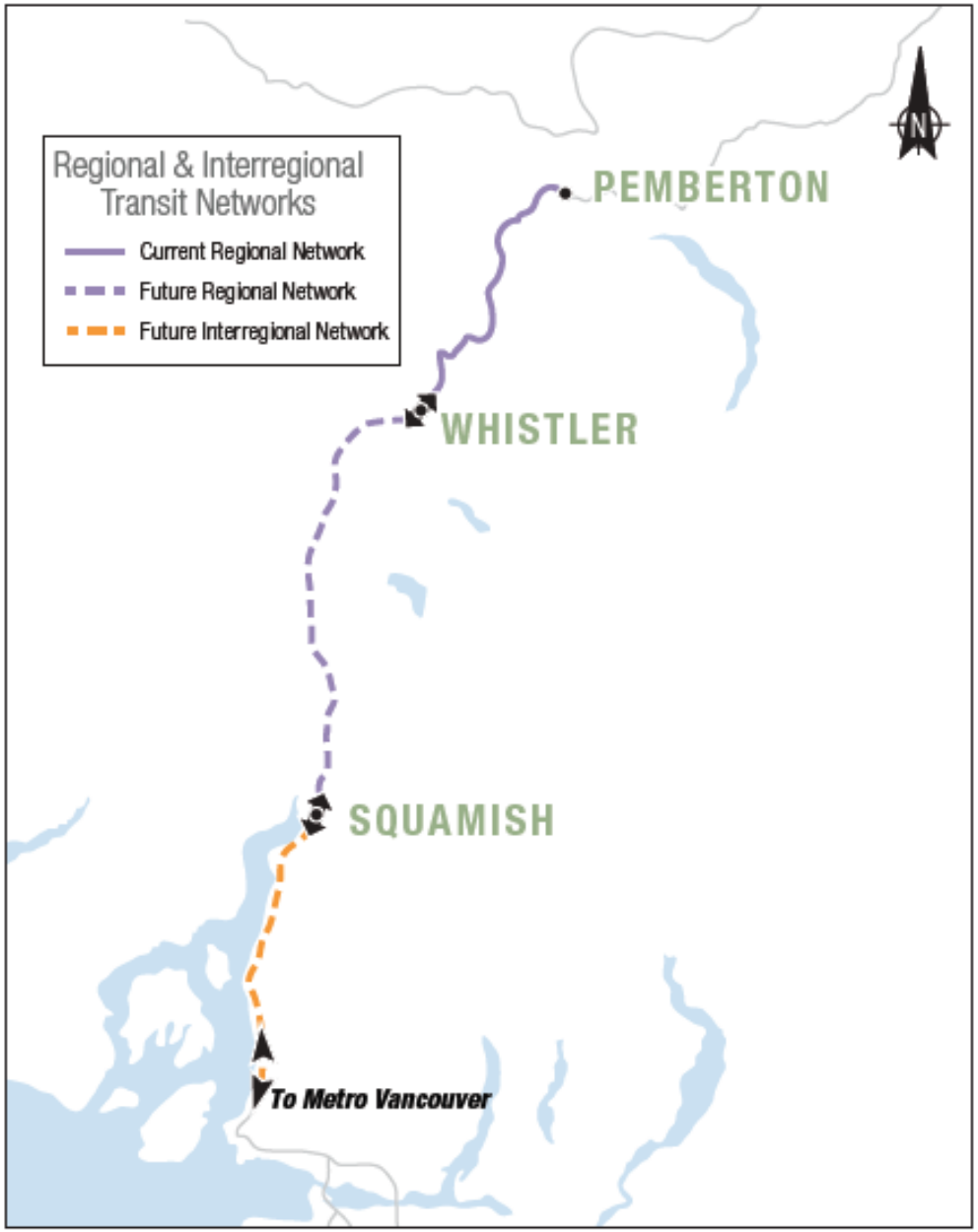


Sea to Sky Three-Year Work Plan

2016/17:

- Initiate the Sea to Sky Transit Corridor Study and Governance Analysis
- Initiate and complete the review of the Route 1 Valley Connector and free Shuttles; and incorporate any TAG work
- Develop business case for future expansions in Whistler

2017/18:

- Review the fare structure for all of the Sea to Sky transit systems, in collaboration with any new or expanded regional and interregional service

2018/19:

- Conduct feasibility assessment around the introduction of Custom Transit in Whistler

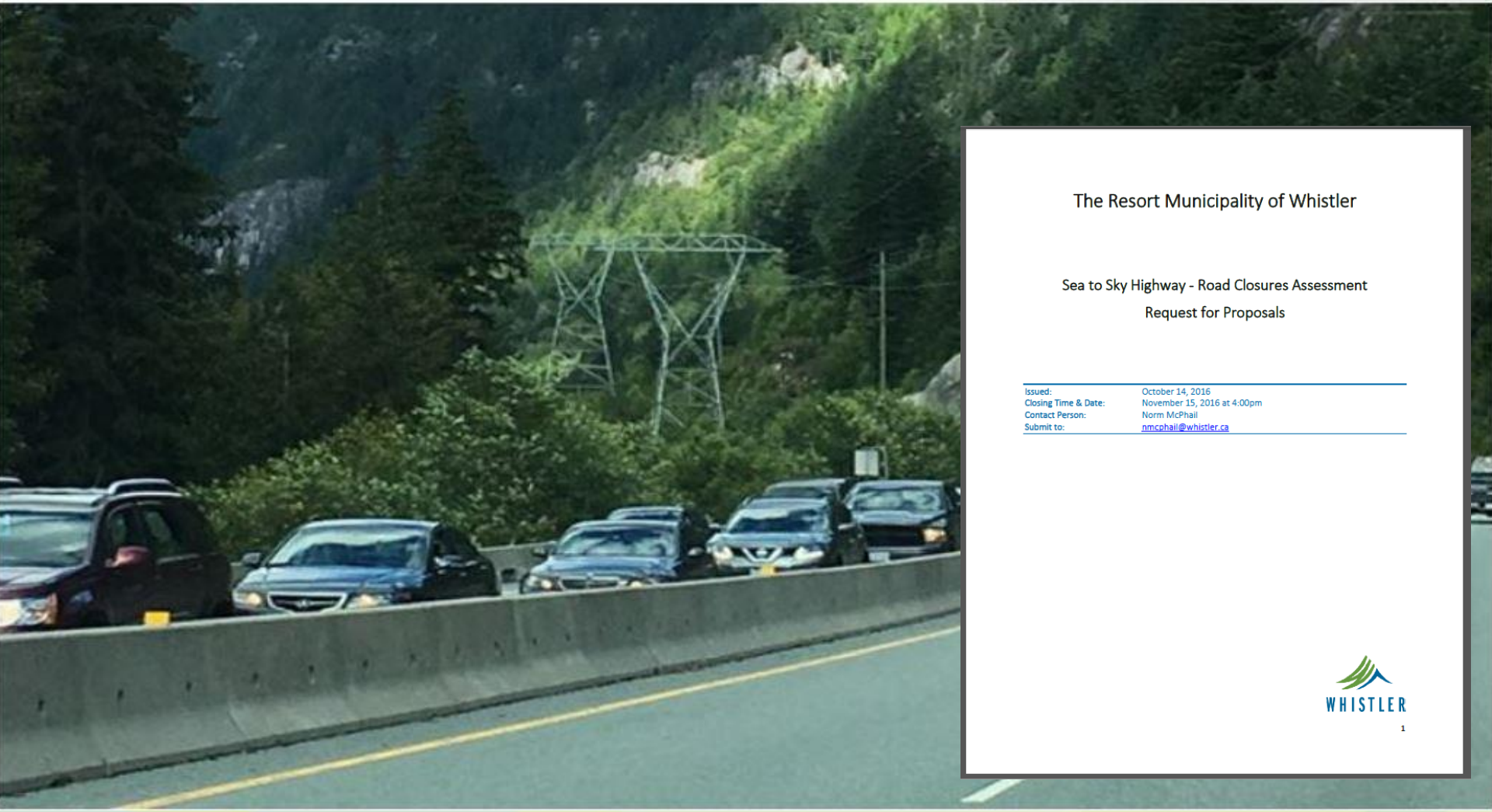
Final Thoughts

1. Transit Service is an Ambassador for Whistler improving the visitor experience.
2. There's no such things as "Free".
3. Public transit is one of the key tools to improving an area's mobility.

James Hallisey, RMOW

General Manager, Infrastructure Services

Highway 99 Incident Investigation Study



The Resort Municipality of Whistler

Sea to Sky Highway - Road Closures Assessment

Request for Proposals

Issued:	October 14, 2016
Closing Time & Date:	November 15, 2016 at 4:00pm
Contact Person:	Norm McPhail
Submit to:	nmcphail@whistler.ca

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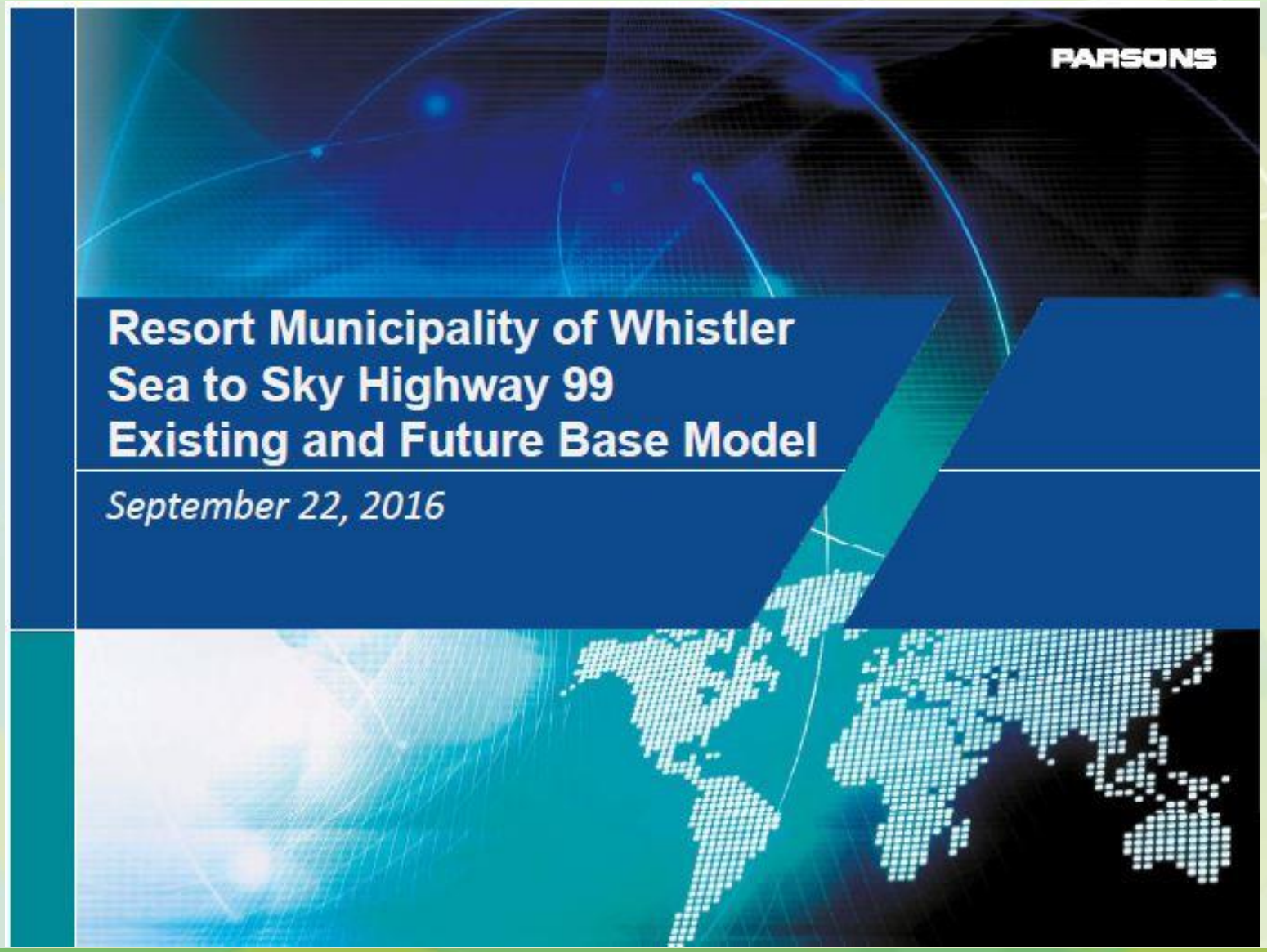
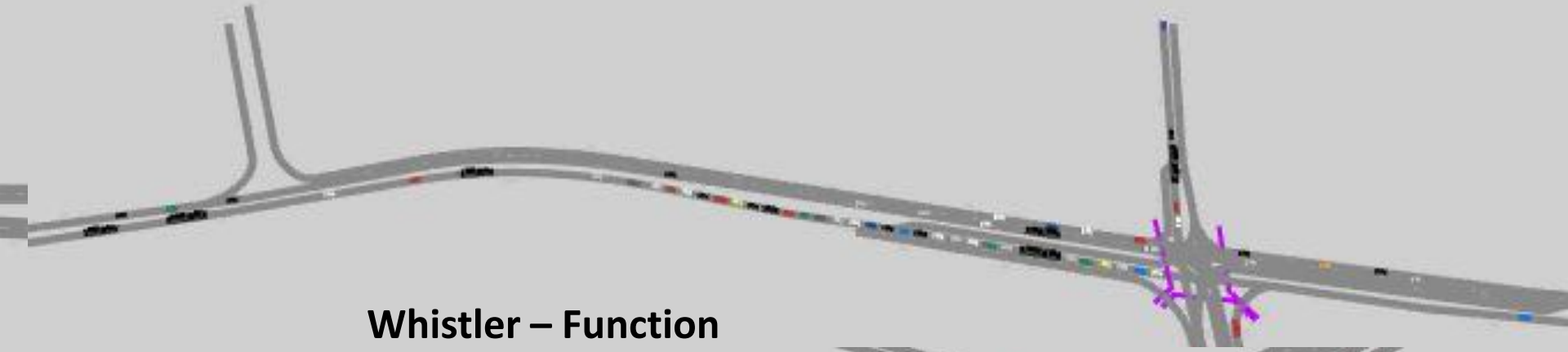
1

Highway 99 Traffic Modelling

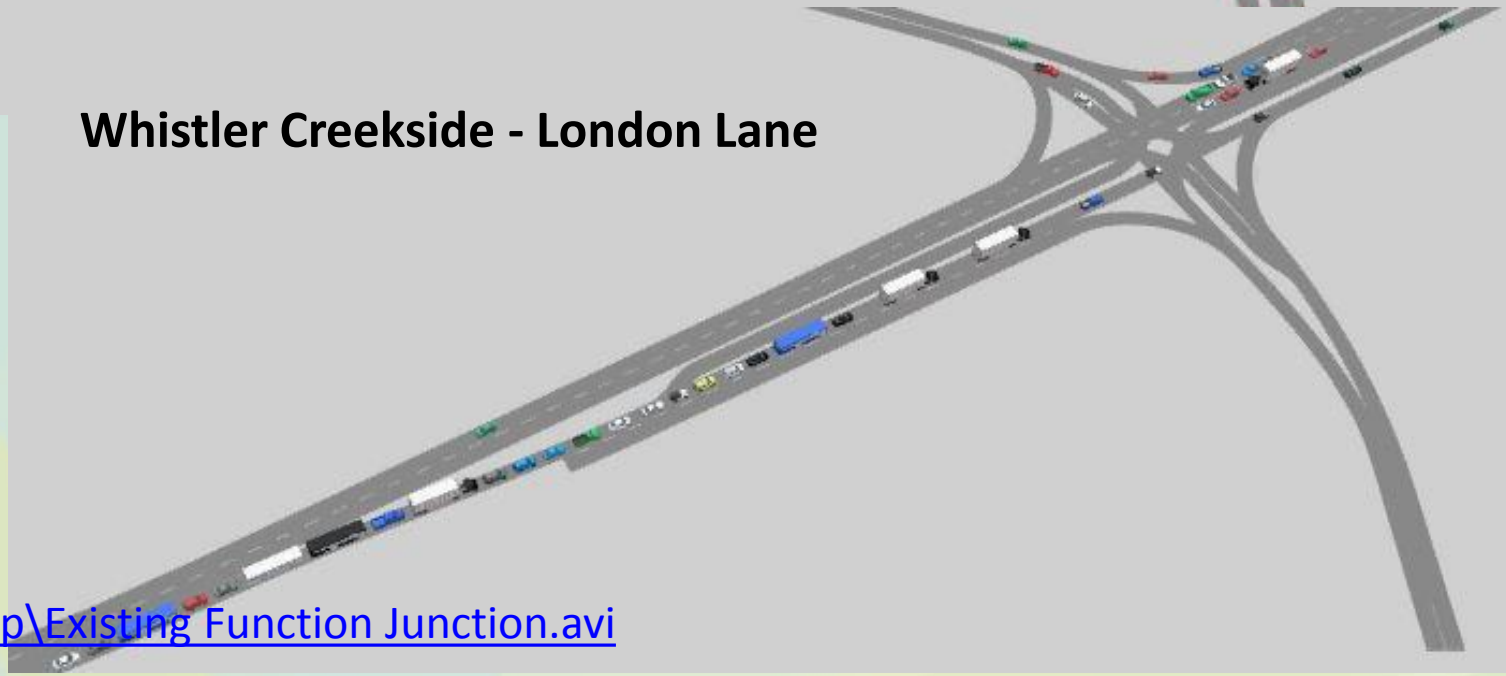


Squamish – Cleveland Avenue



Whistler – Function

Whistler Creekside - London Lane



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Summary

- Wrap up from Mike Furey, RMOW CAO

Discussion Tables – Your Turn!

What you'll be doing

1. Support for the 2017 actions
2. How to improve them
3. What might be missing

How you'll be doing it

- Choose your top 2 topics
- 25 minutes per table discussion

- Table hosts will guide you
- Note takers will capture your input
- Ground rules…

Ground Rules

- **Contribute your ideas!**
- **Identify solutions**, rather than dwelling on the problems
  - If you need to rant, visit the 'scrawl wall' at the back
- **Listen** to understand; challenge ideas, not each other
- **Be brief** and stay on topic – give others a chance
  - We only have 25 minutes per round

Discussion Table Topics

1. Transit Improvements
2. Highway 99 Efficiencies
3. Peak Day Operations Plan
4. Better Parking Management
5. Preferred Transportation Options

6. Other / Medium & Long-term Actions

Choose your top 2
Which 2 tables will you go to?

Table Discussion – Round 1

What you're doing…

1. What is your level of support for each action?
2. If low support,
    1. What's not supported about the action?
    2. How could it be made more acceptable/effective?
3. What might be missing from the 2017 actions to make the strategy/topic more effective?

Please go to your next table!

5 minutes to find your next table

1. Transit improvements
2. Highway 99
3. Peak Days
4. Better Parking Management
5. Alternative Transportation Modes

6. Other / Medium & Long-term Actions

Table Discussion – Round 2

What you're doing…

1. What is your level of support for each action?
2. If low support,
    1. What's not supported about the action?
    2. How could it be made more acceptable/effective?
3. What might be missing from the 2017 actions to make the strategy/topic more effective?

Closing Comments