

Transportation Advisory Group Update – 2016

December 6, 2016

RESORT MUNICIPALITY OF WHISTLER

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Transportation Advisory Group

VOTING

- Mayor of Whistler
- Two Councilors
- RMOW Chief Administrative Officer
- One representative Whistler-Blackcomb
- One representative Tourism Whistler
- One representative Whistler Chamber of Commerce
- Four Citizens-at-Large

NON-VOTING (staff technical expertise)

- One representative BC Transit
- One representative from Ministry of Transportation & Infrastructure
- General Manager of Infrastructure Services
- General Manager of Resort Experience
- TDM Coordinator

TAG – A Process, Not an Event

- Forecasts
- Congestion
- Travel Delays
- Lost Opportunity
- Dissatisfaction
- Actual vs Perceived Problems
- Intersection versus lane capacity
- Local trips versus day trippers
- Historical information
- Identify major data gaps
- New Data Acquisition
- Traffic characteristics and volumes
- Forecasts
- Occupancy
- Demand Management
- Infrastructure
- Partnerships
- Community Planning Policy
- Parking Policy

Symptoms

Problem
Identification /
Screening

Information
Assessment

Data
Gathering

Study and
Options
Development

* We Are Here

Low Hanging Fruit

Options
Selection

Final Report and
Recommendations

Design
Build
Execute

Follow Up
Monitoring

- Environmental, Social, Economic Analysis of Options
- Compatibility with Whistler
- TAG Cycle is complete
- Final Reporting, outreach and adoption

TAG Recommendation

- Host Community Transportation Forum
- TAG Recommendation:
 - ✓ TAG recommends that Council hold a Community Forum focused on Transportation in January 2017.
- Purpose of Forum:
 - ✓ Inform the community of the highlights of what TAG has learned
 - ✓ Show the community the proposed TAG 2017 Actions and get their feed back and input

Major Topics reviewed by TAG

- Revised Whistler's Transportation Vision & Goals
- Transportation Engineering 101
 - Road capacity, congestion, delay
- Highway 99 traffic
 - Winter & Summer Locally Generated Traffic
- 2016 Parking Study Highlights

Major Topics reviewed by TAG ... cont.

- Public Transit & Private Highway Coach systems
 - BC Transit 101
 - S2S Transit Future Plan
 - Local Transit Expansion
 - Sea to Sky Regional Transit Study
 - Whistler to Vancouver & YVR buses
- Summer Saturdays Pilot Project Results
- Highway 99 Incident Investigation Study
- Highway 99 Traffic Model

Transportation Engineering 101

- What is the **Capacity** of a Road?
- What is **Congestion**? **Delay**?
- How can we reduce **Delay**?
- How can we **reduce** and **mitigate** congestion?

Capacity is determined by intersections

Traffic lane:

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

Level of service

A	0–10 sec
B	10–20 sec

Laning:

- Additional through lanes
- Turn lanes
- Queue jumpers

Signals:

- Phases
- Timing
- Pedestrians



B

Caution:

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



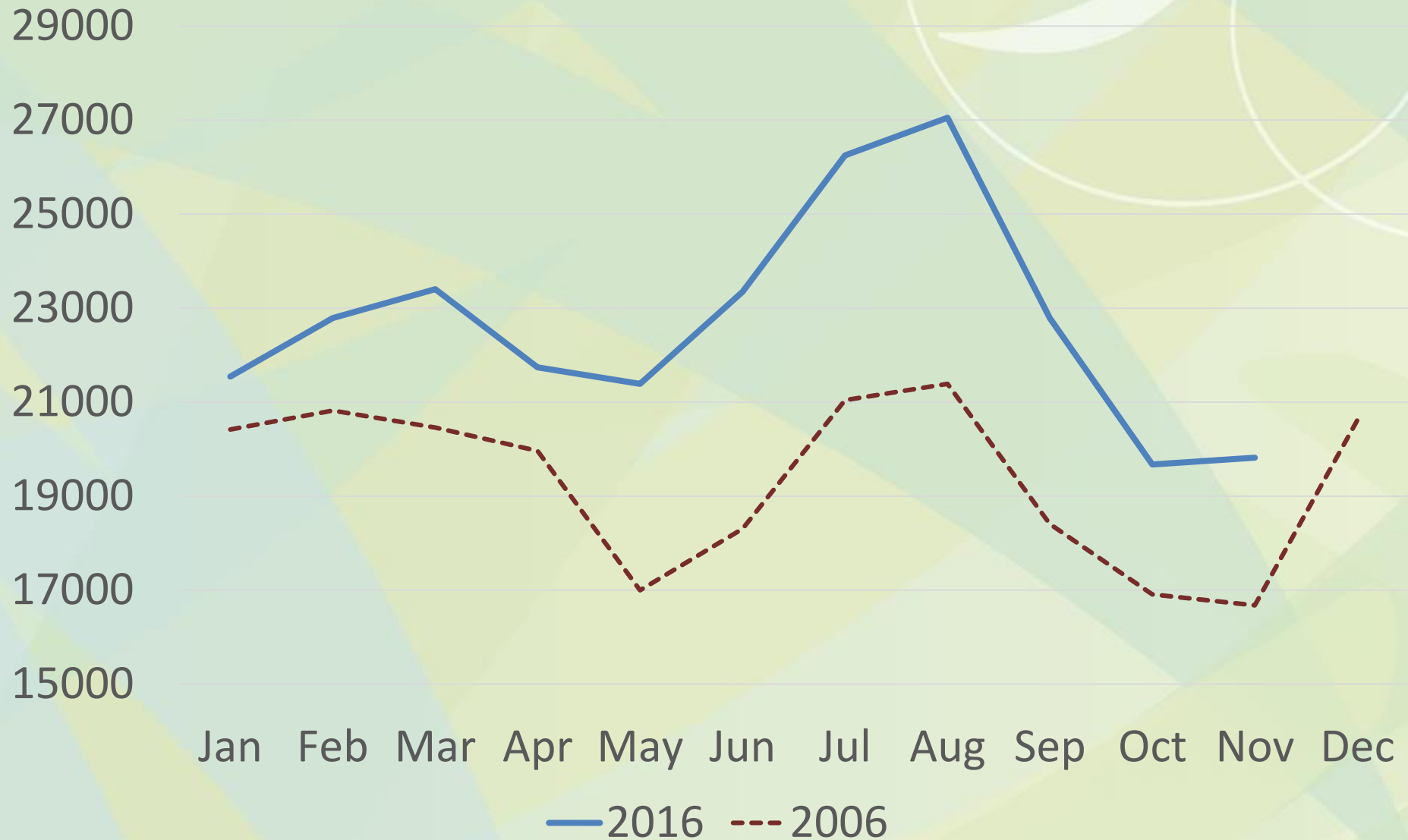
Travel demand management – shift demand to other times, other modes

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



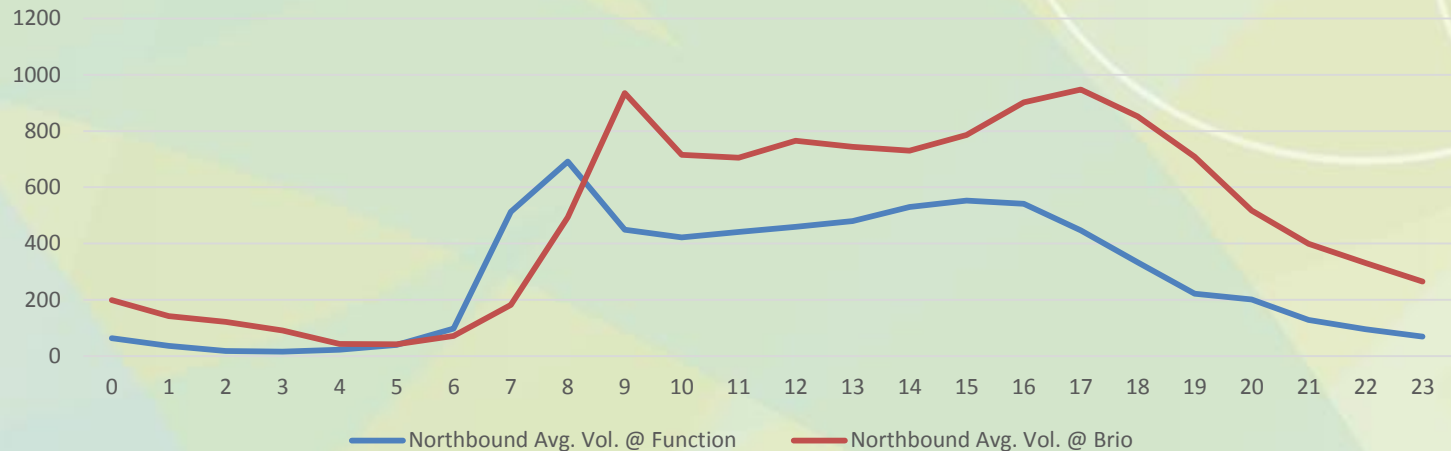
Monthly Average Daily Traffic (ADT) Comparison

(Hwy 99 in Whistler at Brio)

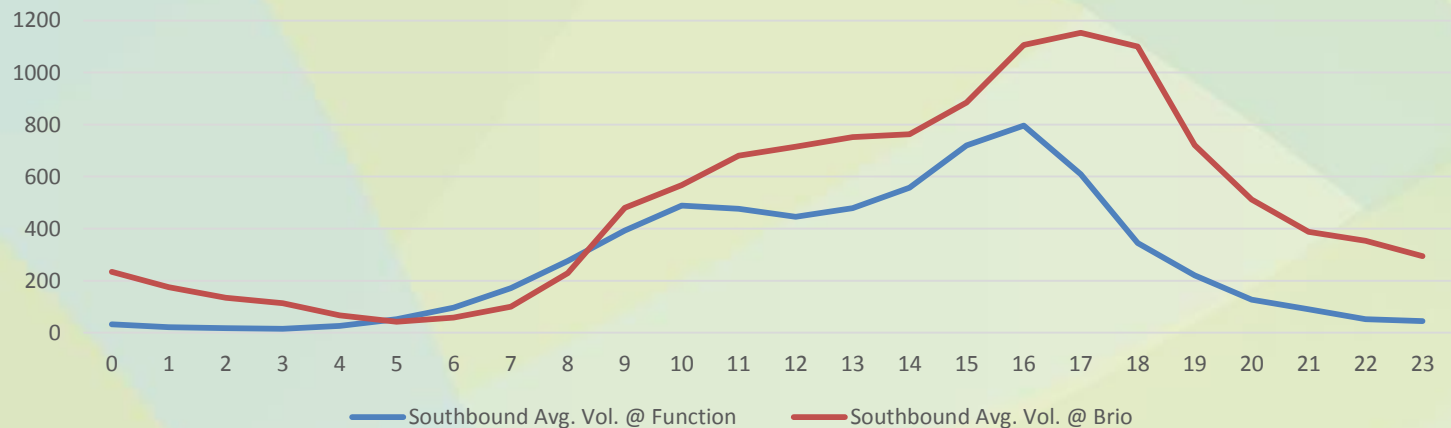


Local vs. Regional Winter Traffic 2016

Average of February Busiest Days
Northbound @ Brio Vs. Function Junction

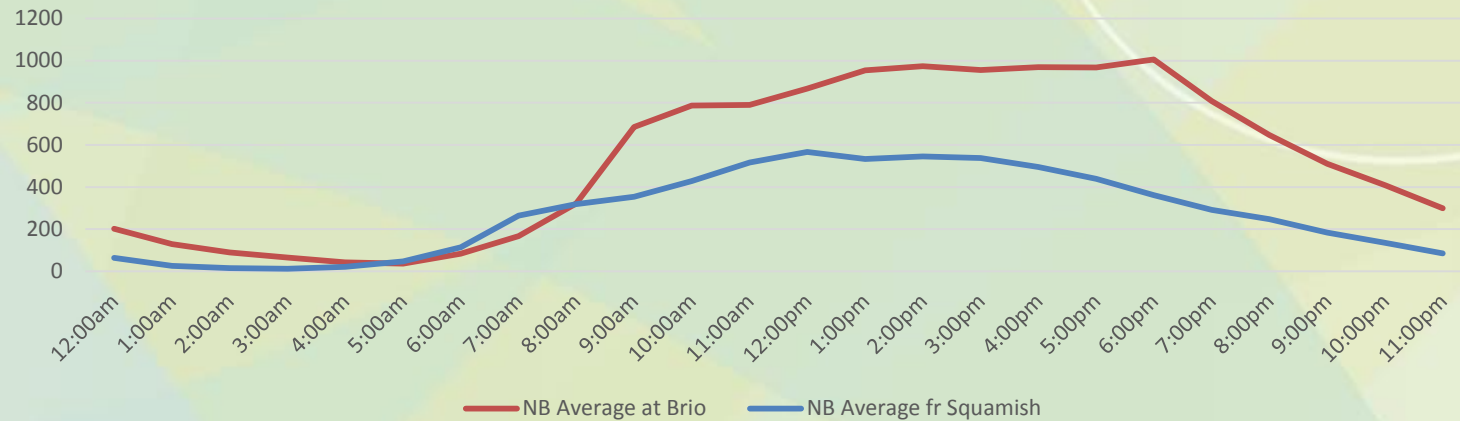


Average of February Busiest Days
Southbound @ Brio Vs. Function Junction

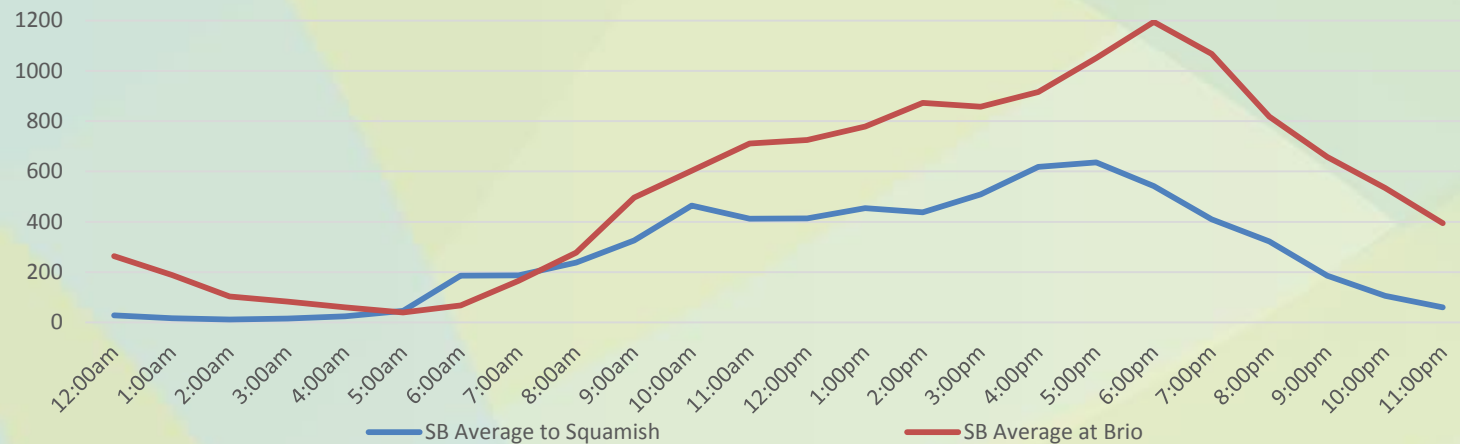


Local vs. Regional Summer Traffic 2016

Average of July 2016 Northbound
@ Brio Vs. Function Junction



Average of July 2016 Southbound
@ Brio Vs. Function Junction



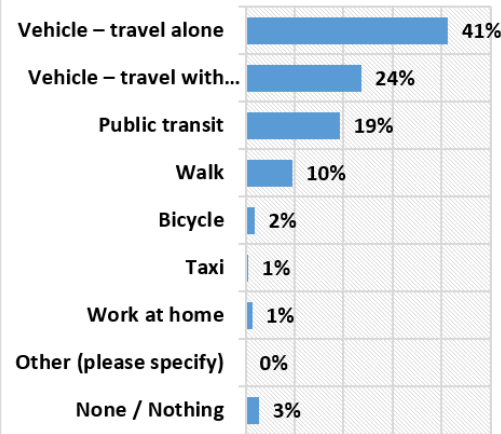
Important information?

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

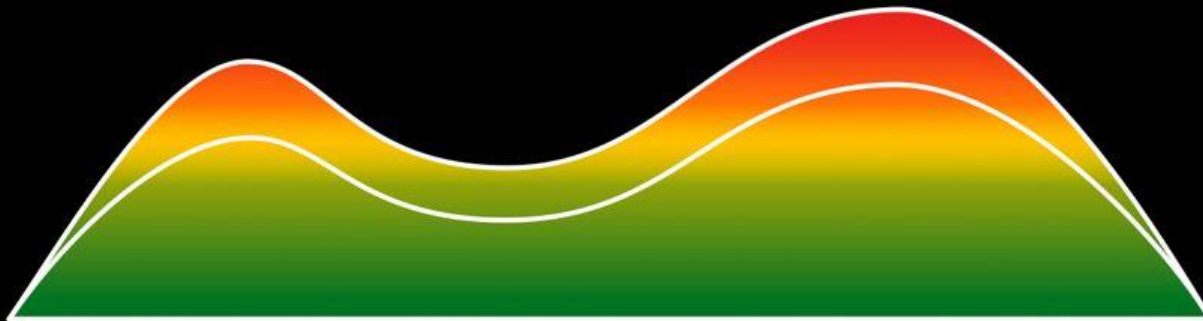
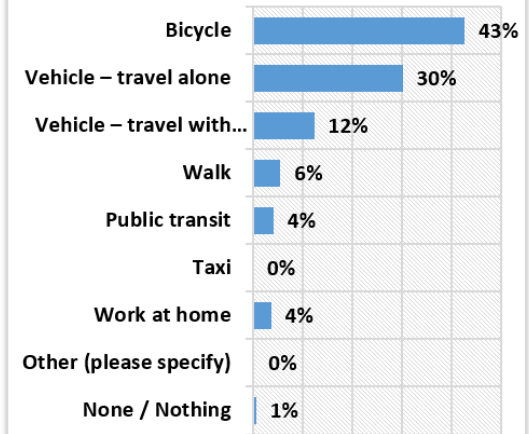
Travel demand management
other times, other modes

Manage local trips – reduce
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Travelling to Work - Winter



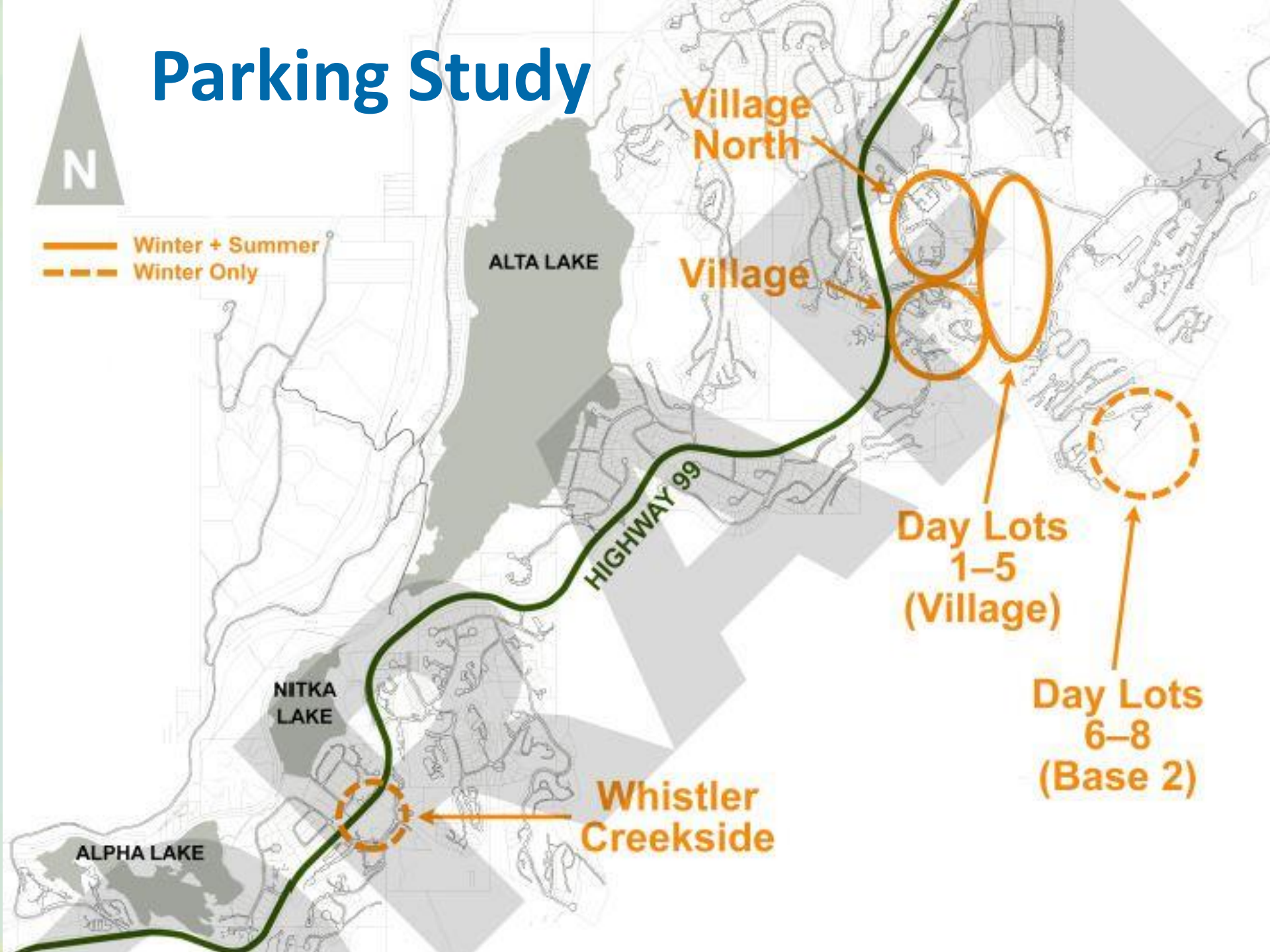
Travelling to Work - Summer



Parking Study



— Winter + Summer
- - - Winter Only



2016 Parking Study Highlights

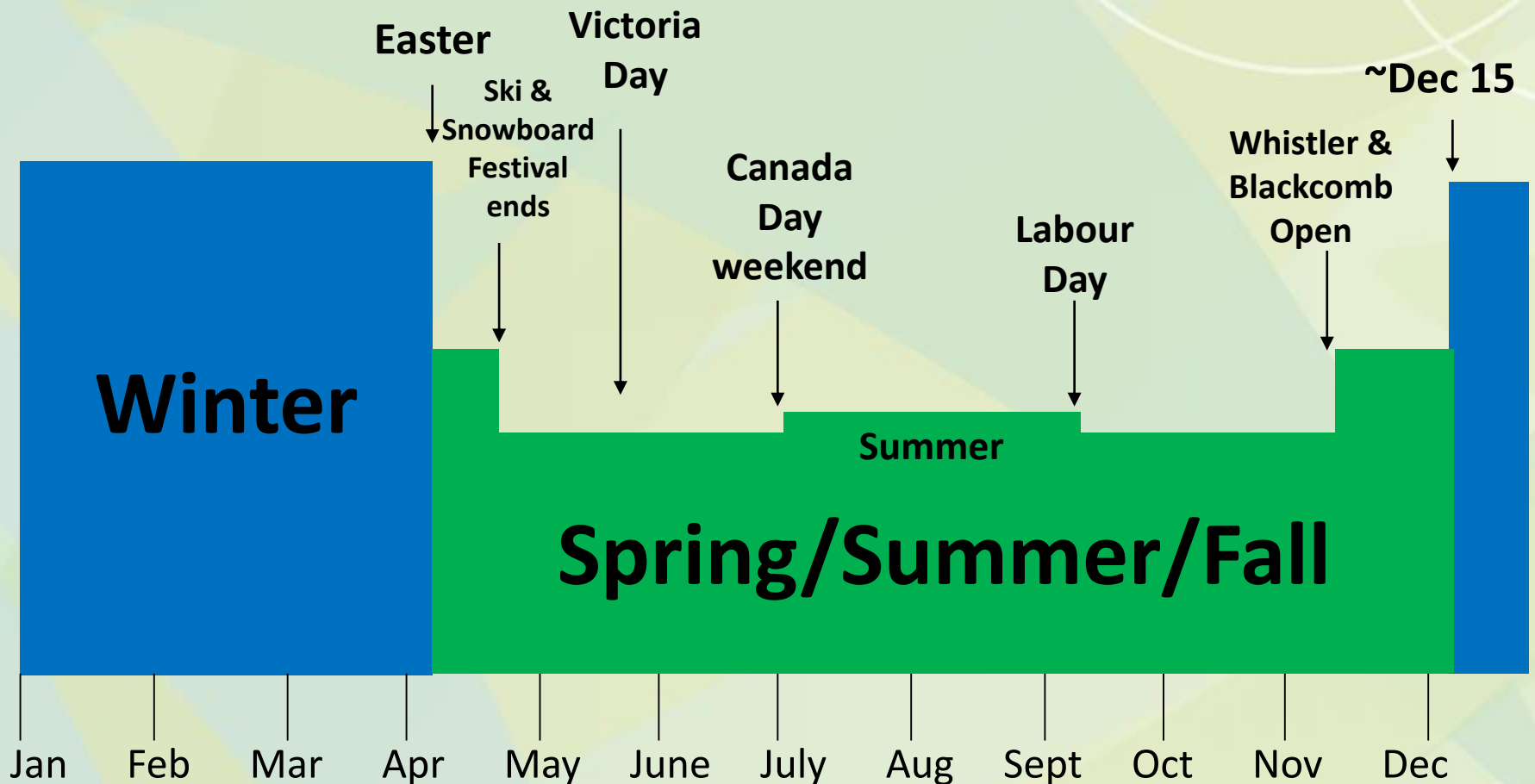
Primary objective in managing parking:

- Good Visitor/customer experience
- Minimize Congestion, frustration
- Goal: Village: **15% availability** = 85% occupancy
Day Lots: **10% availability** = 90% occupancy

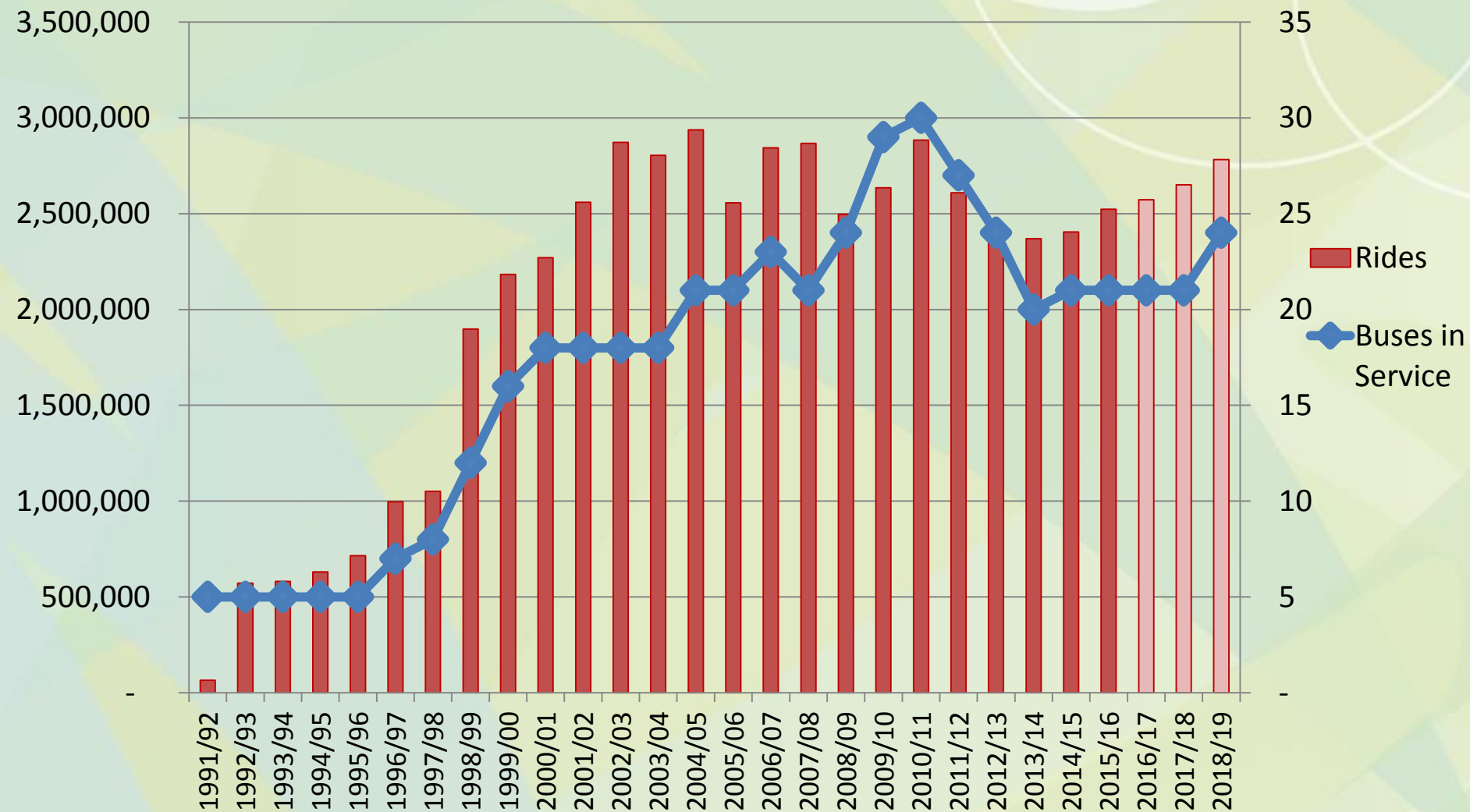


Whistler Transit System 101

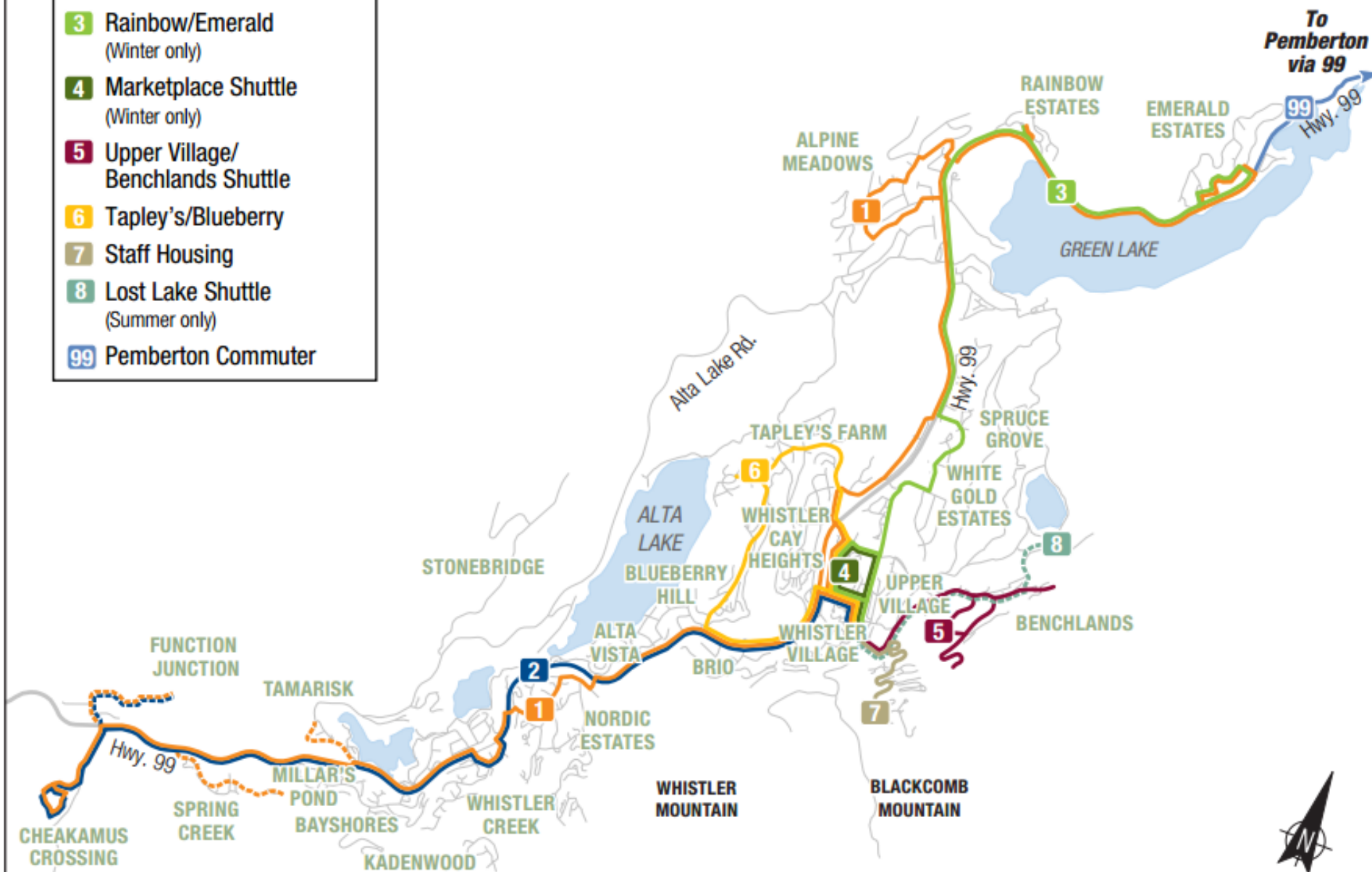
with additional buses for
Late Winter, Summer, and Early Winter



Whistler Transit System Rides



- 1** Valley Connector
- 2** Whistler Creek/Cheakamus
- 3** Rainbow/Emerald
(Winter only)
- 4** Marketplace Shuttle
(Winter only)
- 5** Upper Village/
Benchlands Shuttle
- 6** Tapley's/Blueberry
- 7** Staff Housing
- 8** Lost Lake Shuttle
(Summer only)
- 99** Pemberton Commuter

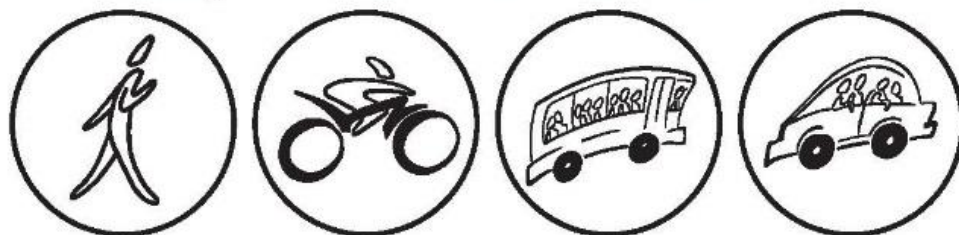


2016 Pilot Project

- Who?
- What?
- When?
- Where?
- Why?
- Funding
- Tracking

Know and Then Go

On busy weekends consider:



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

- **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

Whistler
Transit



WHISTLER BLACKCOMB



supported by:

Walk. Cycle. Bus. Pool

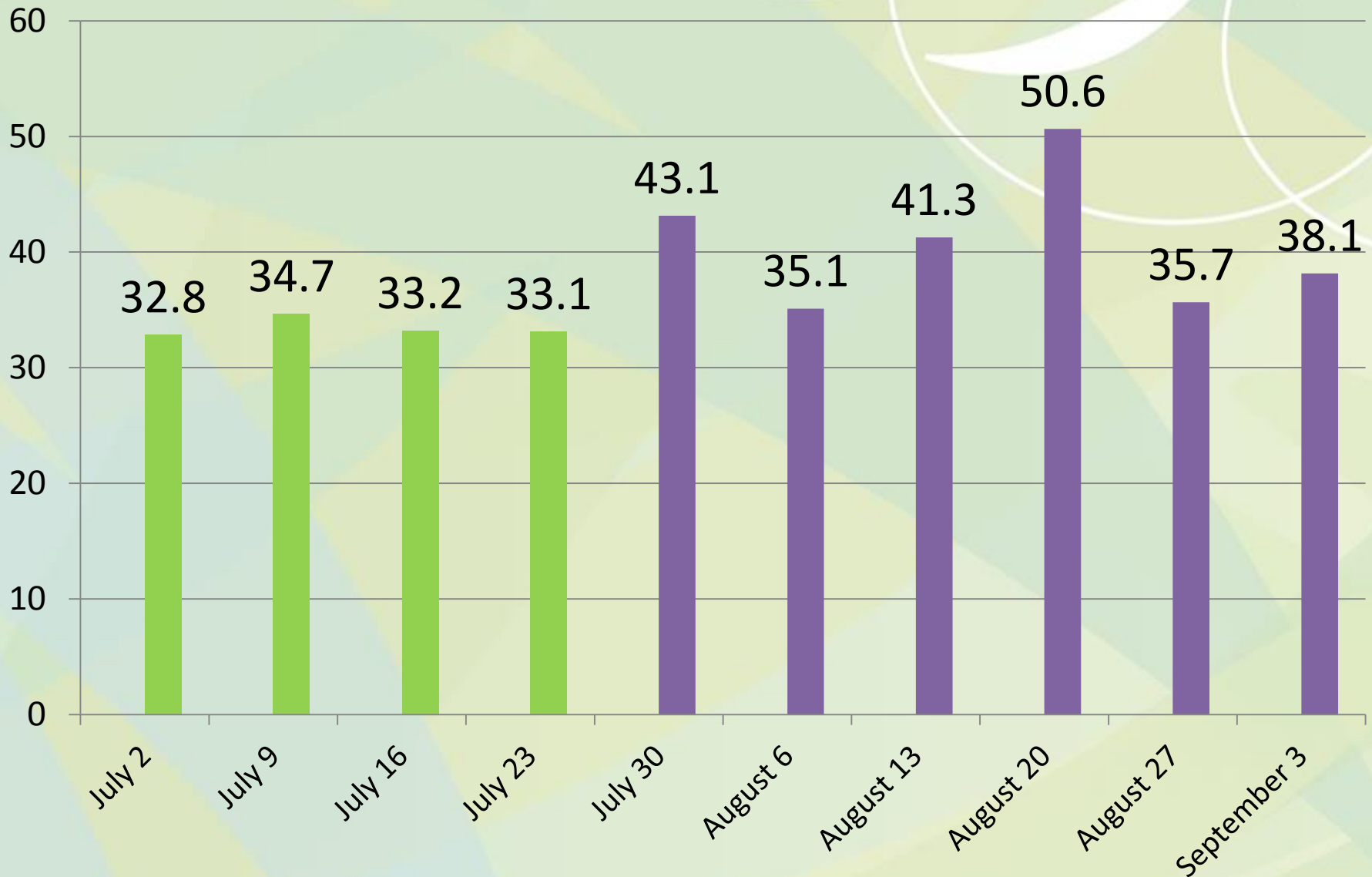
Summary: Transit Riders Routes 1, 2, 6, 7

- 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%

Saturday Rides Per Service Hour (Routes 1, 2, 6, 7)



Post Project Survey Monkey findings

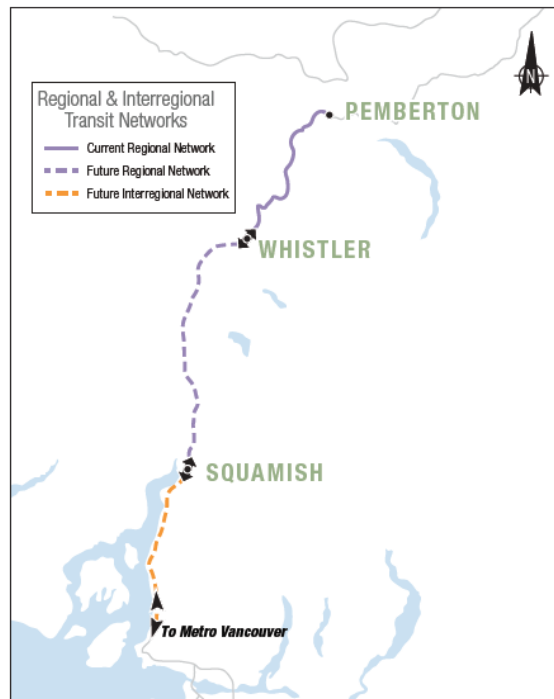
- > 200 responses
- Most knew about the Project before it started
- Most took it for social/recreational/shopping then work trips
- >80% Long-term Residents that own a vehicle
- Most who did take transit took it because they didn't want the hassle of finding parking
- Lots of comments / requests
 - ✓ For 2017 expand:
 - Saturday and Sunday
 - Longer hours
 - ✓ Better communication about what is offered

Regional Coaches and Regional Transit

Connections to Vancouver YVR & downtown

- ✓ From a guest perspective

Sea to Sky Future Regional and
Interregional Transit Network Map



TRANSPORTATION STUDY

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WHISTLER



Transit Future Plan

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

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



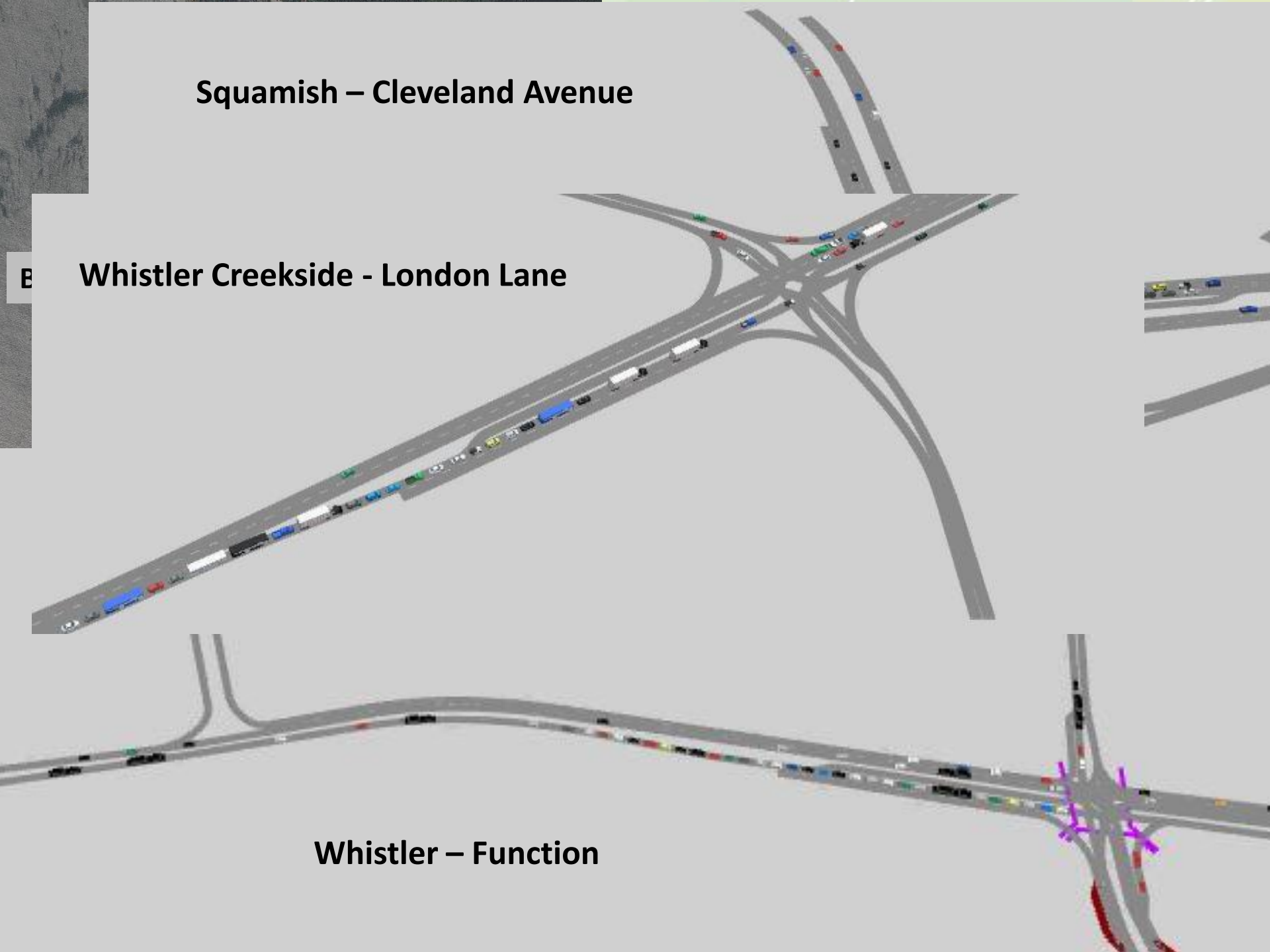
Resort Municipality of Whistler Sea to Sky Highway 99 Existing and Future Base Model

September 22, 2016

Squamish – Cleveland Avenue

Whistler Creekside - London Lane

Whistler – Function



TAG – Options Development

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- TAG Cycle is complete
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Winter 2016 / 2017 Action Items

1. Highway 99 Efficiencies
2. Transit Improvements
3. Peak Day Operations Plan
4. Better Parking Management
5. Communication – Know & Then Go

2017 Action Categories

- Summer Peak day/Weekend Operations Plan
- Whistler Transit improvements (service, funding, fares)
- Highway 99
 - Improve accident investigation times
 - Intersection performance optimization
- Complete Gateway Loop Project
- Better parking information and management
- Communication – Know & Then Go

Medium and Long-Term Actions

- Many actions proposed by TAG
- Will be refined, developed, and prioritized over next several months
- Will be included in the final TAG report

Other Transportation Work

Ongoing Transportation Actions (in addition to TAG)

- ✓ MOTI
- ✓ BC Transit
- ✓ RMOW
- ✓ Whistler Blackcomb
- ✓ Tourism Whistler & Chamber of Commerce

Resolution

- **That** Council direct the General Manager of Infrastructure Services to organize a Community Forum focused on Transportation in partnership with the Transportation Advisory Group for early 2017.

Questions?

NEWS



Traffic congestion marks another successful Canada Day

Six thousand people attended July 1 VSO concert, RMOW estimates

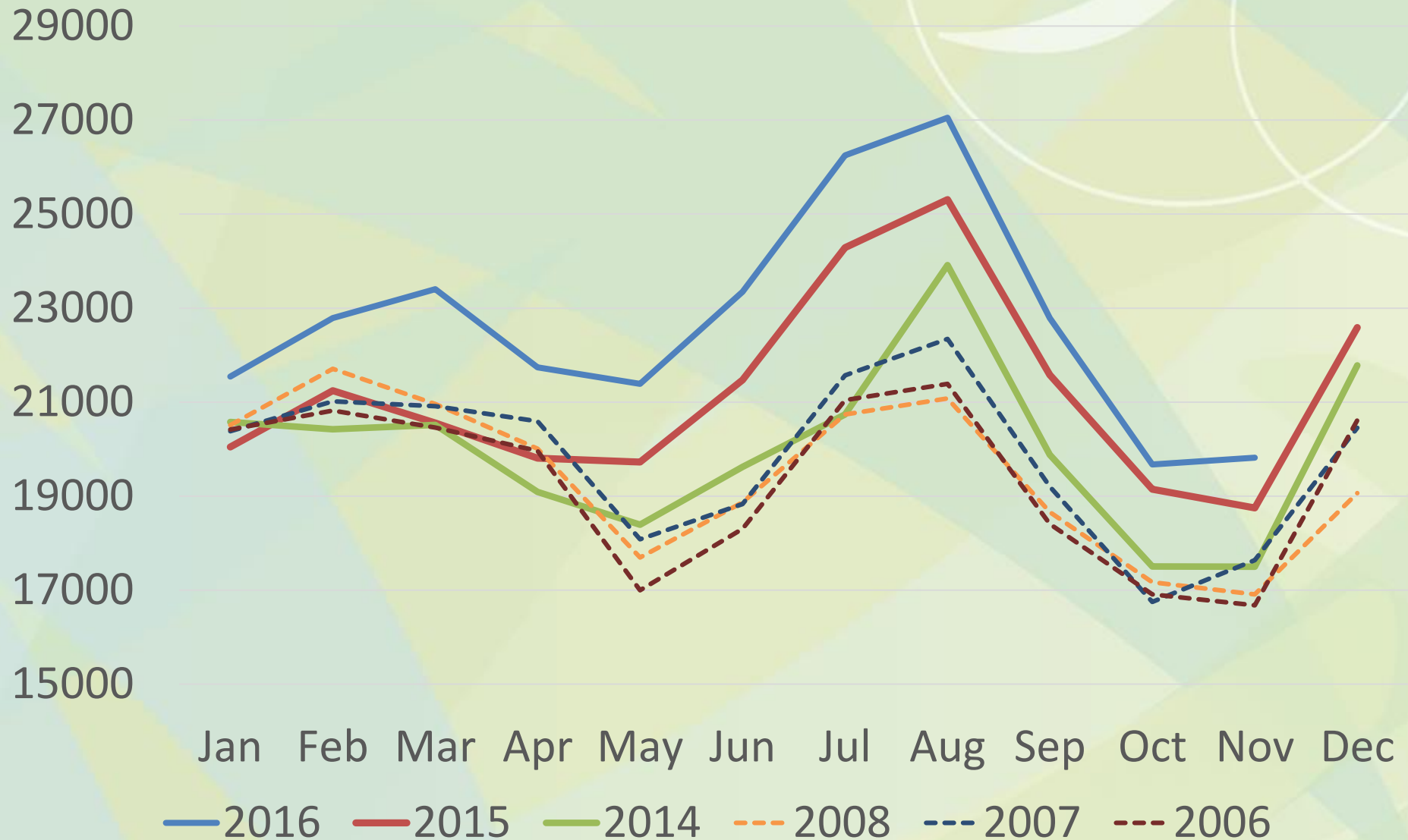




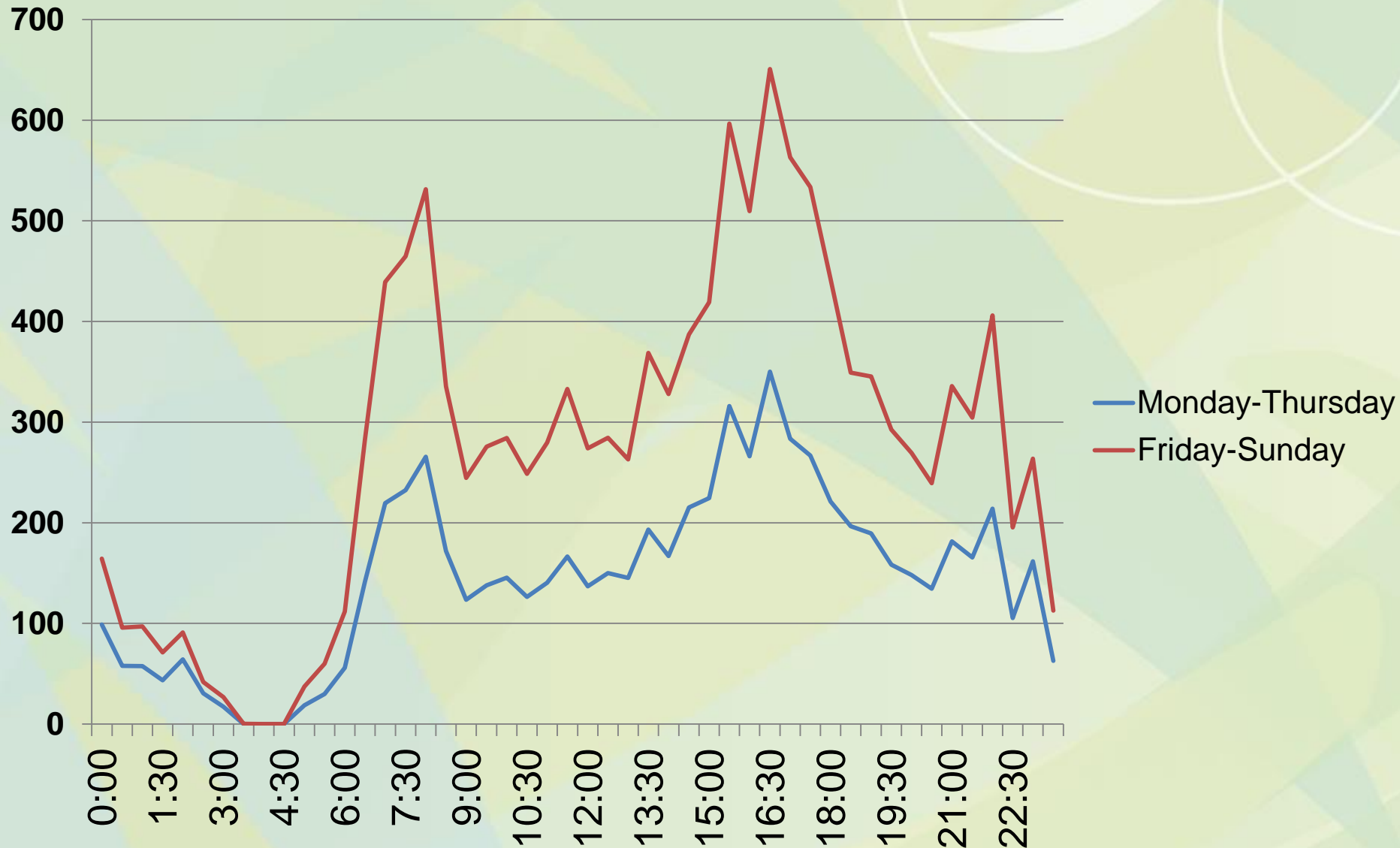
The following slides are spare slides that may be used

Monthly Average Daily Traffic (ADT) Comparison

(Hwy 99 in Whistler at Brio)



Whistler Transit Winter Daily Rider Profile



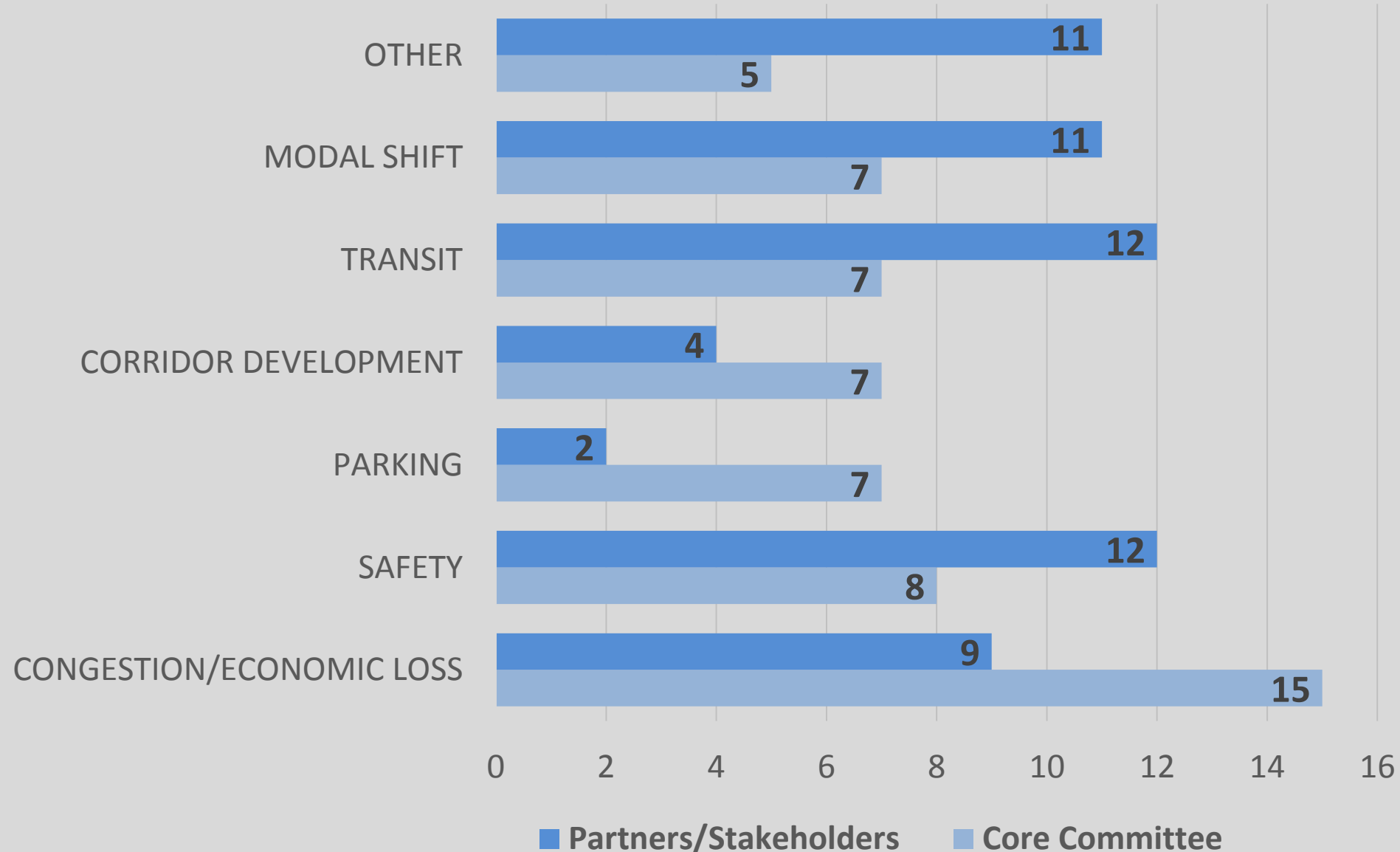
Categories of Comments

- Bus - Regional and Interregional Service
- Bus - Local Whistler Transit System
 - ✓ Routes
 - ✓ Fares
 - ✓ Frequency
 - ✓ Fleet
 - ✓ Amenities/Infrastructure changes to make transit more usable
- Parking
- Cycling & Walking
- Highway Congestion ideas

Categories of Comments Cont.

- Promotions-Events-Festivals (Pilot Projects)
- Communication
- Reducing GHG related to vehicles
 - ✓ Idling
 - ✓ Electric vehicles
- Other options
 - ✓ Hitchhiking/Ridesharing
 - ✓ Carsharing
 - ✓ Rail
- Safety
- Tourism Economy – related to Transportation

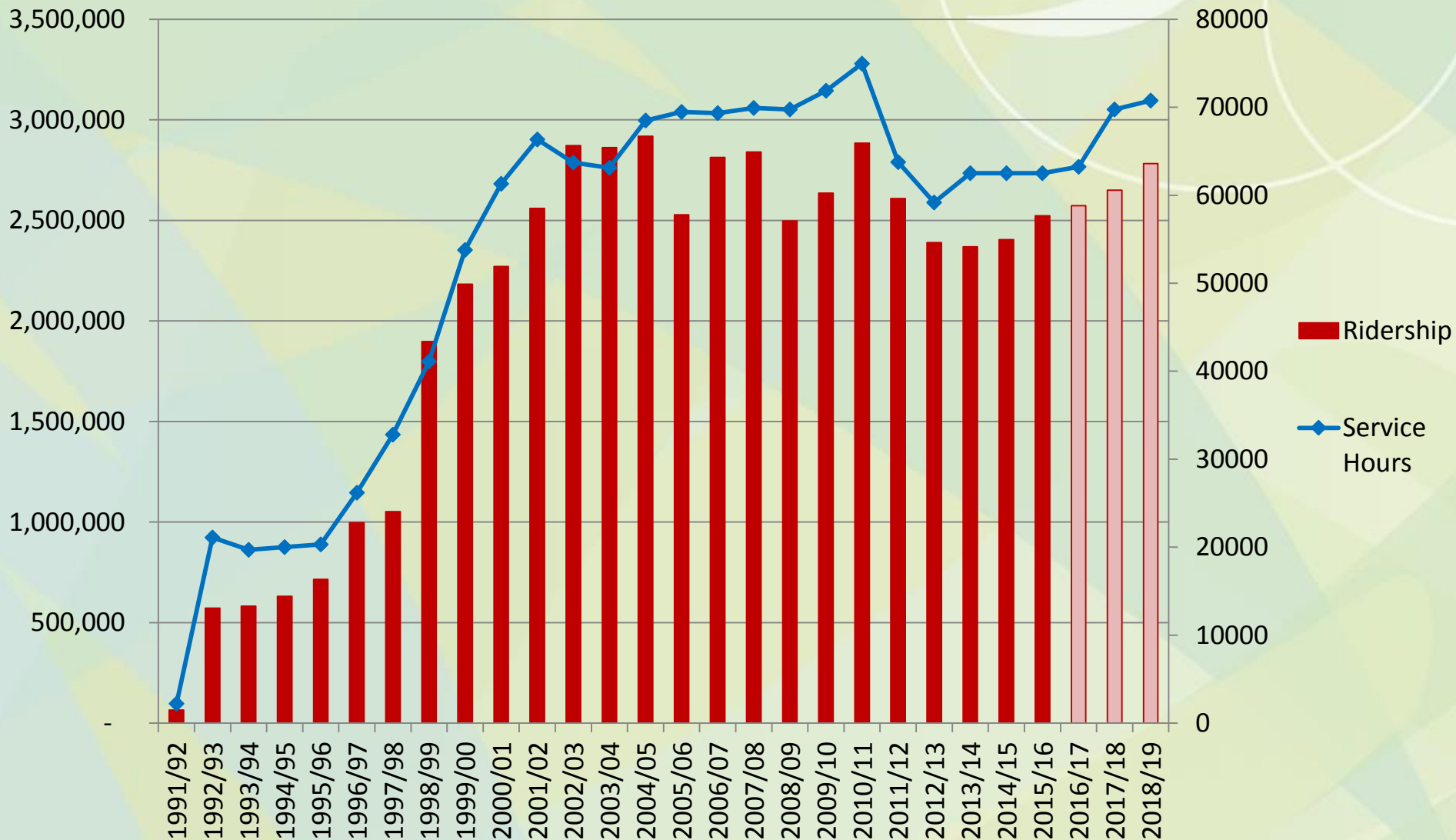
TAG Members & Partners/Stakeholders



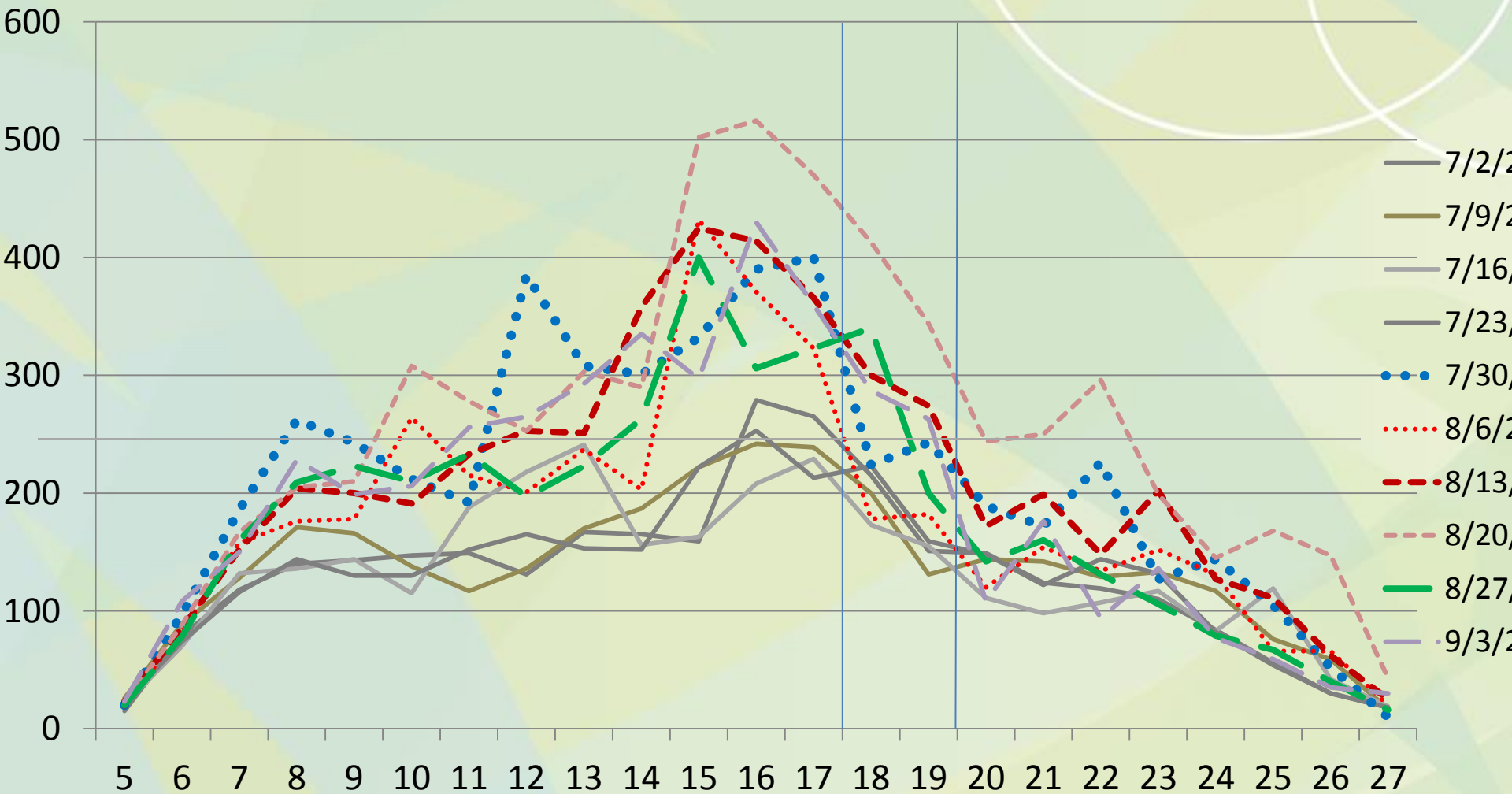
Sea to Sky Transit Corridor Study Area



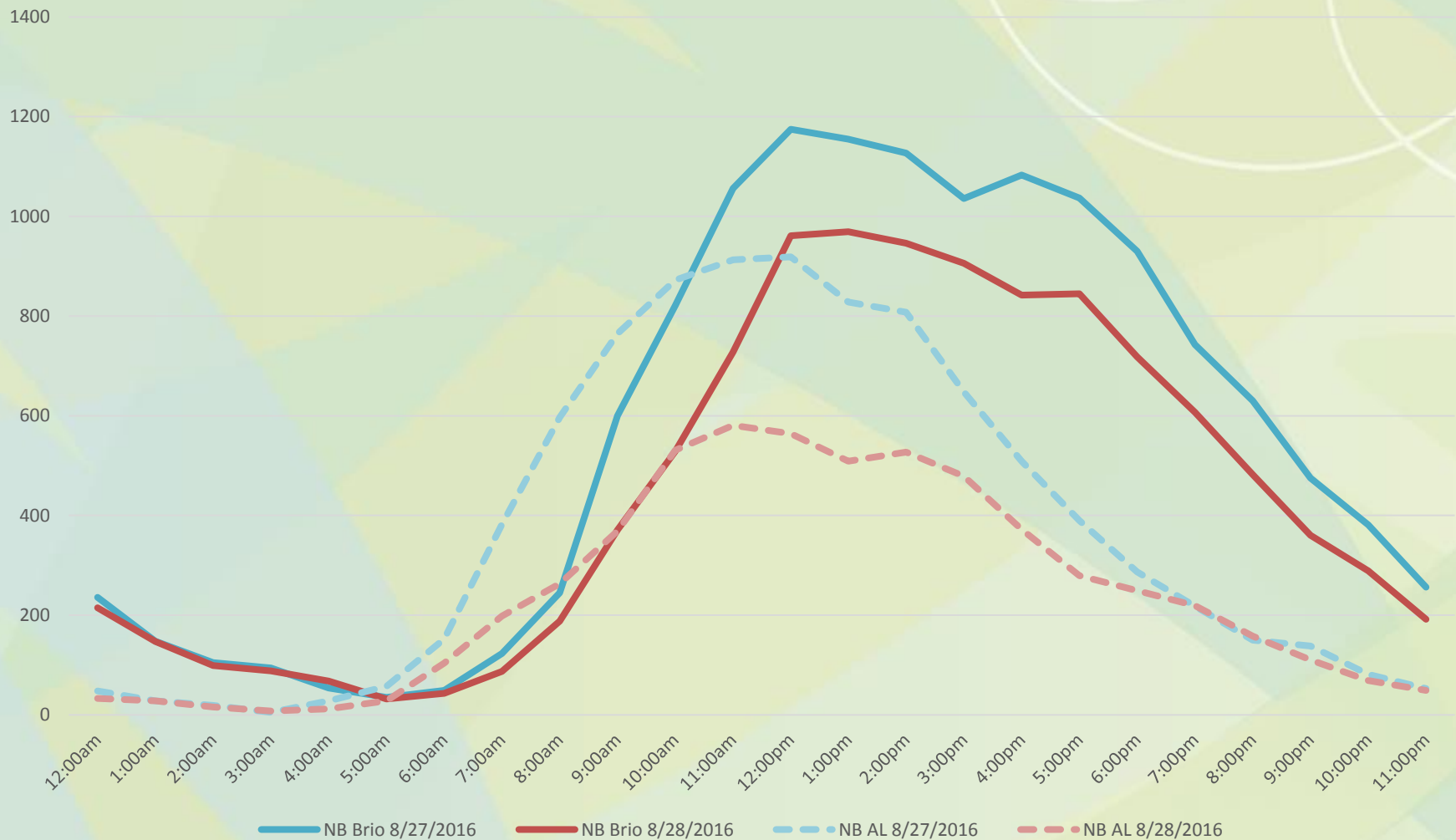
Whistler Transit System Service Hours:



m
, 6, 7)
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Northbound Traffic Volumes July 27 & 28, 2016: Brio (RMOW) vs. Alice Lake (MoTI)



Southbound Traffic Volumes July 27 & 28, 2016: Brio (RMOW) vs. Alice Lake (MoTI)

