

GAP ANALYSIS SUMMARY REPORT

August 2018



GAP ANALYSIS SUMMARY

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- 2. The Scope
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- 5. Recommendations for Further Research

Purpose of Gap Analysis

The Gap Analysis and eventual conceptual masterplan is guided by the overall guiding principle for the project which is;

Enhancing Milford Sound, its corridor, and Fiordland National Park as key New Zealand visitor 'icons' providing a 'world class' visitor experience that is accessible, upholds the conservation values, reflects the unique nature of the place, and adds value to Southland and New Zealand Inc.

The purpose of the Milford Opportunities Gap Analysis was to understand what is known about Milford Sound/ Piopiotahi, confirm key assumptions/ research that can be taken forward into the conceptual masterplan process and identify and demonstrate where current gaps in knowledge are that require further research to inform the conceptual masterplan for Milford Sound/Piopiotahi.

A full report is available, providing the relevant research that underpins the conceptual masterplan work going forward.

The Gap Analysis Scope

Study Area:

The study area defined for Milford Opportunities and therefore the Gap Analysis research is shown below.



The Topics of Interest:

The Gap Analysis involved the collation of a range of information based on the topics identified below:

The Place:

- The natural environment
- The built environment
- Cultural and historic features.
- Natural hazards
- How the place impacts and interacts with the wider region

The Customer:

- Understanding the customers
- Future demand
- Views on the wider region opportunities
- Understanding the economic cost/ potential

Legislation, Policy, Planning:

- Legislative framework
- Proposed developments
- Previous master planning/ concept plans

Best Practice:

- Managing visitor demand and accessibility
- Examining visit value
- Visitor demand and biodiversity impacts research
- Masterplans

Key Information Summaries

Research projects for specific consideration through this Gap Analysis phase were identified by the Governance Group at the outset of the Milford Opportunities project getting underway. A summary of the findings from these projects is provided below.

VISITOR INFORMATION DATA AND STATISTICS

Overarching statement

Research projects for specific consideration through the Gap Analysis phase were identified by the Governance Group at the commencement of the Milford Opportunities project. The following is a summary of findings under six topics:

- Visitor Information data and statistics
- · Queenstown Visitor Market Influencers
- · Conservation Values (Milford and the corridor)
- · Stocktake of organisations associated with Milford now what they do and what they provide
- · Understanding the current visitor experience and expectations
- Future visitor numbers prediction modelling for 5, 10 and 20 years

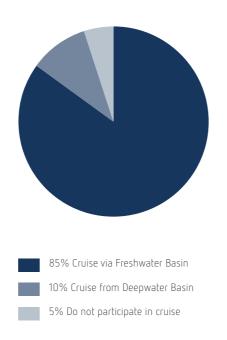
Gross visitor numbers to Milford

1.2 mil

Gross visitor numbers

(Highest recorded peak day 22.02.2018 - Chinese New Year)

Milford Visitors who took a cruise



Cruise liners made 96 visits 2017/2018

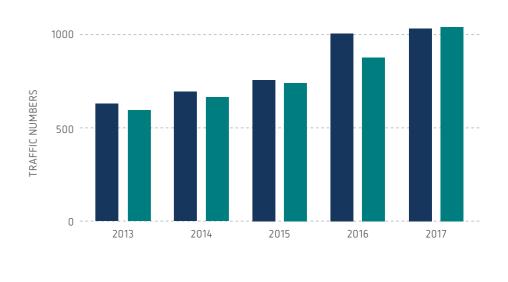
255,065

Cruise liner passengers (Most stay on board)

946,787

Visitors took a cruise on Milford via

Average annual daily traffic numbers



Vehicle numbers

Homer Tunnel

Retford Stream (near Te Anau)

2586

Largest daily vehicle number at Homer Tunnel 22nd Feb (Chinese New Year)

< 10%

Volume of heavy vehicles on Milford Road

Parking and occupancy

35%

Vehicles arrive between 10am and 1pm

- Average stay is 3 hours
- Early arrivals still occupy carpark when late arrivals arrive
- · Parking demand has exceeded capacity of available parking on 20 - 30 days on last three seasons
- Average car number from TDG report is 4.4



^{*} Key source: NZTA Corridor Management Plan (Jan 2018) (Milford Sound Tourism Transport Infrastructure Review Traffic Management Strategy May 2017)

^{*} Key source: Crowe Horwath for MSTL

VISITOR INFORMATION DATA AND STATISTICS

Milford Airport

2421

Landings - movements to and from aerodrome February 2018

681

Overflights (no landing) February 2018

Queenstown Airport

2,054,515

Passenger movements for 2017/18 (Queenstown airport)

5.1mil

Queenstown airport has the potential for 5.1 million passenger movements per annum with new terminal option by 2030

Accommodation

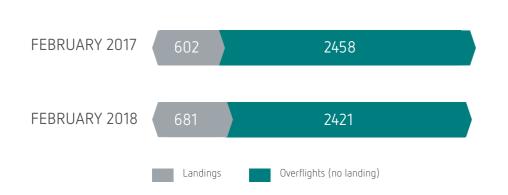
2,781,329

Queenstowns annual accommodation capacity Bed nights, April 2018

829,082

Fiordland annual accommodation capacity

Movements to and from Milford aerodrome



Arriving from Queenstown / Te Anau

40-50%

20%

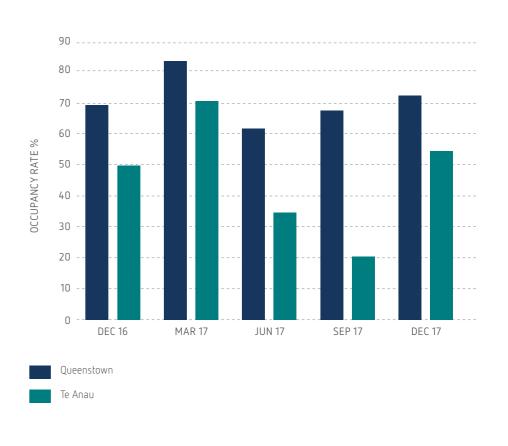
19%

International visitors to Queenstown

Of domestic visitors to Queenstown go to Piopiotahi/Milford

International visitors to Southland visit Milford

Accommodation Occupancy



^{*} Key source: Transport Infrastructure Review May 2017 TDG for Milford Sound Tourism



FUTURE VISITOR NUMBERS PREDICTION MODELLING - 5,10,20 YEARS

2018 New Zealand Tourism forecast

- · Most forecasted growth is from holiday makers /those visiting friends/relatives
- · Percentage movement in visitor numbers to Milford Sound has varied widely annually

4.5%

Expected growth rate per annum for visitor arrivals to NZ

5.1 mil

Projected visitors to New Zealand in 2024 from 3.7mil in 2017

\$14.8bil Expected International spend in 2024 (Up 40% from 2017)

Australia is New Zealand's largest visitor market

Australian market will continue to be healthy and set to grow by 23% by 2025



Visitor numbers to Milford Sound

· Percentage movement in visitor numbers to Milford Sound has varied widely annually with as much as:

28%

Increase in visitor numbers to Milford in 2017

-11%

Decrease in visitor numbers to Milford in 2012

4% p.a

Median annual growth since 1992

Tourism forecasts predict that China will become NZ's largest market in terms of expenditure at the end of the forecast period



Visitor growth predictions

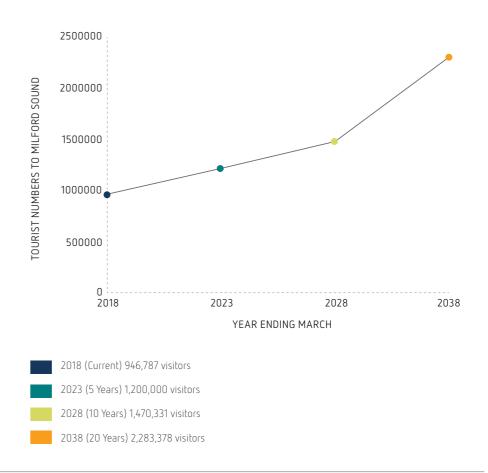
- · Crowe Harwarth Visitor Trends, Dec 2016 provides a formula for estimating current numbers of visitors to Milford Sound and applies growth rates of 4% or 10% p.a
- · Growth predictions for 2017/2018 have exceeded forecast

1.2 mil 2mil

Projected visitors to Milford in 2023 From 0.95 million to March 2018

Visitors to Milford Sound by 2035

Growth predictions



QUEENSTOWN VISITOR MARKET INFLUENCERS

International, national media messages

- · Piopiotahi/Milford Sound has always historically been sold as a 'Queenstown Regional Visitor Experience'
- Sold as a 'one day' experience from Queenstown 2
- · Its embedded its the message sold to the world
- · Social media (facebook and TripAdvisor) all have a role to play
- · Sold in this way by the whole tourism ecosystem:

Enticing people to experience Piopiotahi/Milford Sound in a day, whether by coach or flying



Local media

- · Cut price operators cheap trips to Piopiotahi
- · Accommodation providers, Isite and Tourism Agencies all promoting Piopiotahi (can influence un-educated travellers)
- Social media (facebook and trip advisor)

Signage/local advertising

· Driving the price to the bottom



How to travel to Piopiotahi/Milford Sound

- · Flights into Queenstown frequent, cheaper than other options
- Car rental from Queenstown more of them and cheaper? better advertised?
- · Organised transport coach etc

Travel Trade Collective

Southern Lakes New Zealand is a travel trade collective, promoting Wanaka, Queenstown and Fiordland to the world, as a package.



one region three destinations





¹ Personal Communication: Graeme Budd, Destination Queenstown (June 2018) 2 Anecdotal feedback provided during project engagement (March 2018)

QUEENSTOWN VISITOR MARKET INFLUENCERS

Most common travel package to Piopiotahi/ Milford once in Queenstown?

3 nights

Common length of stay Meaning limited time - cutting experience short

- · Accommodation pre booked in Queenstown
- · Queenstown accommodation is expensive so if pre-booked, its unlikely they will re-book elsewhere on arrival

Milford experience

- One day package available (coach boat coach) and the boat schedule caters for this
- · Free independent traveller
- Campervan
- · Coach fly coach

Piopiotahi/Milford Sound

Other Queenstown attractions after visiting

- There are other options
- The operators make it easy and attractive to sell more options in addition to the Piopiotahi/Milford Sound experience.....so they do

Trend is changing...

· Anecdotally people are now staying in Wanaka and Te Anau. Te Anau is booked out in peak season

Undersold experience

\$115

Kiwi Experience: Milford Explorer from Queenstown One Stop Adventures

"Journey to New Zealand's "eighth wonder of the world" Milford Sound, with an amazing scenic drive & unforgettable 2 hour cruise"



Cruise schedule for peak operating days in February

10:30 - 1:30pm Daily peak cruise time

Number of day cruise operators (Not including stops by large cruise ships and overnight cruises)

Time slot	Number of cruises departing		
7 - 8:59 am	3		
9 - 9:59 am	5		
10 - 10:59 am	6		
11 - 11:59 am	6		
12 - 12:59 pm	6		
13 - 13:59 pm	11		
14 - 14:59 pm	4		
15 - 15:59 pm	5		
16 - 16:59 pm	6 (3 are overnight)		
17 - 17:59 pm	2		

https://www.onestopadventures.com.au/tour/kiwi-experience-milford-explorer/

*Key source: Milford Opportunities



CONSERVATION VALUES: PIOPIOTAHI-MILFORD AND CORRIDOR

Terrestrial Environment - Northern Fiordland Protection site

Piopiotahi/Milford Sound consists of a large terrestrial and marine environment providing habitat to some of the rarest floral, faunal, marine and invertebrate species of national and international significance. Among the rare species, some of which are endemic to this area are Bottle Nose Dolphin, Tawaki / Fiordland Crested Penguin, and Boulder Butterfly.

The habitats for rare species extend beyond the Piopiotahi / Milford Sound area, into the corridor and wider Fiordland / Regional setting.

Several organisations are driving the protection and management of the conservation values of this area including;

- Department of Conservation
- Fiordland Marine Guardians
- · Fiordland Conservation Trust
- · Other locally supported projects and organisations

As the master plan process develops and site specific solutions/concepts are established further focussed research to understand consequences to conservation values will need to be undertaken.

Piopiotahi-Milford forms part of Te Wahi Pounamu World Heritage Area

Significant landscape values of this unique landscape contribute to its world ranking:

Biophysical (biotic and abiotic)

Associative (culture and meaning) and

Sensory (visual etc)







STOCKTAKE OF ORGANISATIONS ASSOCIATED WITH MILFORD NOW

What they do and what they provide

Kaitiakitanga			Regulatory Functions Regulatory Authorities			
Te Rūnanga o Ngāi Tahu						
Aparima Oraka Runanga	Te Ao Marama Inc	Makaawhio Runanga	Department of Conservation	Southland District Council	NZTA	Environment Southland
National Governance			Local Governance		·	·
New Zealand Government		Local Government				
MBIE	NZTA	Ministry of Transport	Environment Southland		Otago Regional Council	
Department of Conservation	Ministry for the Environment		SDC, ICC, GDC, Venture Southland		QLDC, CODC, CDC, DCC	
Conservation	nservation		Provision of infrastructure			
Conservation		Infrastructure				
NZ Conservation Board	Southland Conservation Board	Fiordland Marine Guardians	Milford Sound Tourism Milford Sound Infrastructure NZTA Ministry of Transport			
Recreation		•	Tourism Marketing / Governance 1			
Recreational Users		Tourism				
Day Visitors	Hikers	Great Walk Walkers	Venture Southland Destination Fiordland			
Recreational Fishers	Recreational Boaters	Recreational Kayakers	Destination Queenstown MBIE Local, Regional, National and International Visitors			
Users of other Fiords (access)	Campers	Hunting / Diving				
Community Interests		Business Interests				
Community		Industry 2				
Residents of Milford	Residents of Fiordland	Te Anau Community Board	Fiordland Fishermen's Association	Fiordland Lobster Company Ltd	Real Journeys	Cruise Milford
Manapouri Community Development Agency	Fiordland Trails Trust	Milford Community Trust	Skyline Enterprises	Southern Discoveries	Mitre Peak Cruises	Queenstown Milford User Group
Te Anau & Manapouri Community	Southland Community	New Zealanders	Ultimate Hikes	Rosco's' Kayaks	Distinction Hotels	Tour Guides
Nth Southland Townships	Queenstown Community	International Community	FIT Vehicle Suppliers	Heli & Plane Operators	Bus Companies	Accommodation Providers

¹ Includes Natural Hazard Management

²This represents a 'snapshot' of industry and is not intended to be a comprehensive list.

UNDERSTANDING CURRENT VISITOR EXPERIENCES AND EXPECTATIONS

Milford visitor expectations and experience

- From market research undertaken by Tourism New Zealand, The #1 factor influencing consideration of NZ as a visitor destination is; 'Spectacular Landscapes/Natural Scenery'
- From the information available, overall visitor perceptions to Piopiotahi/Milford Sound remain positive

Piopiotahi has a major role to play given that the following comes up when you Google 'top things to do in New Zealand:

Things to do in New Zealand



Mitre Peak, waterfalls, seals & penguins



Mountain, glacier, lake, hiking, and

Aoraki / Mount



Fiordland National Park Milford Sound, Mitre Peak & Mirror Lakes



Tongariro National Park Tongariro Alpine

Customer experience

- · Sourced from TripAdvisor, Facebook and Google
- By aggregating over 5000 online reviews for Milford Sound over the last 5 years, it is possible to detect trends and themes in customer perception.
- Because there is more to be learnt from negative feedback, themes from the findings have been presented in the table

Issue	Approximate percentage of 'negative' responses	Possible solutions	
Generally underwhelmed by scenery	~20%	Provide other attractions nearby that cater to a wide variety of tastes	
Limited parking space around attractions (Mirror Lakes, The Chasm)	~17%	Allow more parking space near attractions if possible, encourage park 'n' ride	
Long drive from Queenstown to Milford Sound (8-10 hours on bus)	~12%	Remind tourists of the unusual driving experience beforehand Improve traffic flow if possible	
Road safety	~6%	Remind tourists of driving safety when they pick up rental cars	
Milford Sound Visitor Centre car park too far from cruise terminal	~5%	Expand existing car park Build car park closer to cruise terminal if possible	
Homer Tunnel - darkness of tunnel, one-lane; long waiting time to get in (Less negative reviews recently compared to previous years)	~3%	Improve traffic management if possible Make visitors aware of the potential waiting time at traffic light Advise visitors to leave enough travel time.	
Bad service by members of staff	~1%	Improve service quality Provide better visitor experience	
Other/no comment	~36%	N/A	

^{*} Key source: TripAdvisor, Facebook and Google

UNDERSTANDING CURRENT VISITOR EXPERIENCES AND EXPECTATIONS

Otago University study -'The Milford Sound Experience'

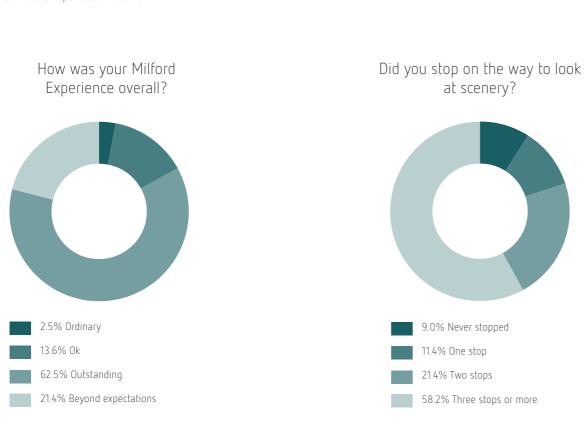
· 'The Milford Sound Experience' undertook a one-off survey of 365 people, from 22 nationalities between the ages of 18 - 90 which was completed at the end of March 2017 (5% margin of error). Some useful results were observed through this study.

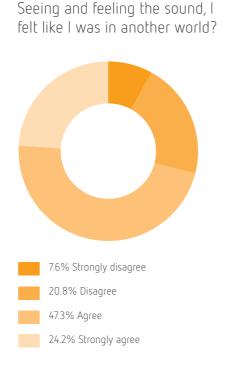
The key findings were:

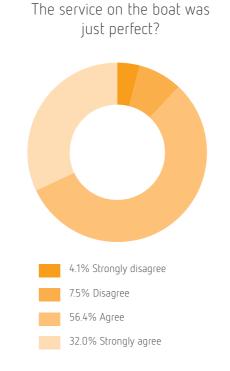
- · Number of visitors or aircraft noise did not affect their satisfaction substantively
- Car drivers and passengers most likely to agree with crowding as an issue (along Milford Road)
- Most visitors stopped twice on road journey
- Ongoing monitoring is needed

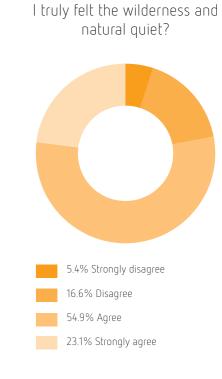
Results of relevant questions

Otago University Study 'the Milford Experience' March 2017

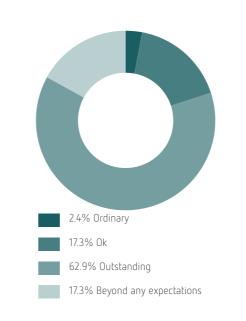


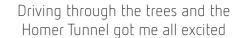


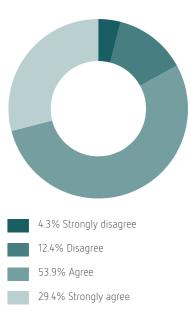














SURVEY RESULTS

Milford opportunities project online survey

The public were invited to take part in an online survey to gather a range of information about stakeholders in the Milford area, the issues they believe are important and any sources of information they would recommend so as to inform the master plan and ongoing research.

- 121 participants
- Demographics :
 - » Predominantly locals 64.2%
 - » Regional residents 23.3%
- Main interest group
 - » Tourism managers/operators 37.2%
 - » Residents 34.5%

Sample commentary

"Milford is fast becoming a circus with business clambering to get on the gravy train. The natural environment needs to be protected and numbers managed"

> "As Milford is renown for the great 'Milford Track', people are often disappointed that there are no free accessible 2-3 hours tracks on this side of the tunnel"

"Too many individual cars"

"Lack of infrastructure to manage tourist numbers particularly on the road but also in terms of information"

"If there is not 100% buy-in and collaboration between affected parties nothing will work. Engagement must happen across all levels"

"Don't forget the locals – the fishing industry and recreational users should have space and be accounted for to"

"Lack of infrastructure to manage tourist numbers particularly on the road but also in terms of information"

Top 3 concerns

- Tourist numbers
- The road and associated facilities
- 3. Development of Milford

Further to this commonly cited issues were: inadequate infrastructure capacity, poor driving behaviour and better visitor information required.

How Milford could be managed sustainably into the future

Common themes:

'Park and Ride' most frequently mentioned Increase infrastructure capacity eg more carparks Charge for access to cover costs

Specific issues raised a number of times

Common themes:

· Lack of toilets or shelter at Milford airport, no community or recreation centre for residents.

Key Reference Documents to Inform the Masterplan Development:

Key Reference Documents to Inform the Masterplan Development Are:

- Transport Infrastructure Review: Traffic Management
 Strategy by TDG (2017)
- Milford Sound Risk from Landslide-generated
 Tsunami, GNS Science (2015)
- Milford Sound Passenger Terminal, Warren & Mahoney
 (2017)
- Tourism in Queenstown and Milford Sound: Trends and Patterns, C.Goble & Dr C. Orchiston (2016)
- Conserving Fiordland's biodiversity 1987-2015 The
 Challenges, the achievements, the knowledge,
 K-A.Edge & R.Reid

- The Ngāi Tahu Claims Settlement Act 1998
- Corridor Management Plan: Frankton to Milford Sound
 2018-2028, NZTA
- Features of Interest Te Anau to Milford, NZTA (2014)
- Beneath the Reflections User Guide, Fiordland Marine Guardians (2017)
- Milford Opportunities Project Memo, MBIE (2017)
- Visitor Trend Analysis Strategic Plan 2016-2026, Crowe
 Horwath (2016)
- The Milford Sound Experience visitor survey, University of Otago (2017

Recommendations for Further Research:

Further Research Recommendations

- 1. **Infrastructure** Understanding the collective package of infrastructure in Piopiotahi Milford Sound and the Milford Corridor (including Te Anau). What is the capacity of this infrastructure and the constraints? What opportunities exist for new infrastructure or changes to existing infrastructure provision? What impacts might arise from extracting non-essential infrastructure out of Piopiotahi or through relocation to new sites? Where does infrastructure provide cost effective and efficient opportunities for new development?
- 2. Land Analysis Design-led work is required to map important landscapes that might be affected by development, identify places where development or visitor facilities (large or small) might be suitable, including infrastructure impacts. Identification of hazards and risks that impact investment.
- 3. **Cultural Values** While we have a base level of knowledge of the cultural values associated with Milford Sound and the Corridor, we require greater resources to fully understand and embed the aspirations of iwi into the conceptual masterplanning.
- 4. **Legislation** Undertake an assessment of Legislative change options to enable the Milford Opportunities project to realise the vision. This could consider options such as a Piopiotahi visitor levy, international visitor levy, district by district taxes etc. There is also a knowledge gap in terms of lower level legislation, how it regulates land use and development in the project area, could inform the master planning exercise and potential for enabling or restrictive plan changes at this level i.e. FNPMP / District Plan.
- 5. **Hazard Analysis** Undertake assessment of hazard risks (natural and human) for the specific purpose of informing the conceptual masterplan. This will include climate change, natural hazards, resilience, human related hazards including oil spill potential, vehicle crashes, sinking vessels etc. This is fundamental to informing the conceptual masterplan development. There are many significant natural hazard risks i.e. avalanche and human related i.e. Homer Tunnel in localised areas.

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- 6. Economic Analysis (scope currently under development) Currently there is little known about what visitors to Milford Sound spend; in Milford Sound itself, along the corridor, in the Wider Southland Region. Work is required to better understand what economic value visitors bring to the local and wider area. And whether this is offsetting the costs associated with providing a safe, attractive place for people to visit.
- 7. **Customer Journey Mapping and Typologies** Undertake a Customer Journey Mapping and Typology development exercise to better understand the key values, and points of significance for visitors coming into the project area. Customer Journey Mapping is possible for a range of the Customer types including tourists, recreational users and residents for example.
- 8. **Visitor Monitoring Programme** A multi-agency visitor monitoring programme will be designed utilising existing data sources and proposing new data sources. A quantitative survey will be designed utilising the existing University of Otago survey. The programme delivery will be costed and based on an initial five-year term. The programme implementation will require the acquisition of hardware, software and other resources for delivery and will result in a Milford Visitor Annual Report. It is recommended that the implementation be funded for an initial five-year term.
- 9. **Understanding the Operator** Currently there is very little information available about the tourism operator market for Milford Sound and the wider region, beyond what is anecdotally available (acknowledging that information may be commercially sensitive). There is a desire to better understand the market structure and characteristics of operators. What dictates supply and demand? How does the market know when it is saturated? What are the current trends telling us?
- 10. **Conservation Values** While there is a significant amount of research available regarding conservation values, further research will be required once the broad conceptual masterplan has been formed, to better understand the potential consequences of the proposed approach.

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