

OTAGO MUSEUM

Annual Report 2017 – 2018



OTAGO*museum*

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Foreword

Chair, Otago Museum Trust Board



It is my pleasure as Chair to reflect on a busy and successful year for Otago Museum. This report attempts to capture our year and share the many successes delivered, ponder the challenges we face and set out the future projects our people have been working on.

As a team, we continue to take great satisfaction in the progress the Museum is making. As always, this success is based on the hard work and enthusiasm of our people.

Some of our achievements have been clearly visible to our community. The opening of the Tūhura Otago Community Trust Science Centre, or the success of exhibitions such as *Life Before Dinosaurs: Permian Monsters* and *Things Change: Martin Phillipps and the Chills*, as well as the continued growth of the Otago Wildlife Photography Competition are examples.

Just as pleasing is the success of projects slightly behind the scenes. The continued development of the infrastructure of the Museum, the ongoing and developing relationships with funders which allow our outreach programs to be so successful, as well as the continued investment in our collections fall into this category.

Our investment in Collection staff is showing results as we continue to lift our performance in this area.

The Board and Museum team are embarking on a refresh of our strategic plan which involves listening to our communities and focusing on where to next. This will also involve the development of a new master plan. This is a significant piece of work and will run alongside another busy period as we celebrate 150 years of the Museum.

Like all institutions we continue to operate in a challenging financial environment. I would like to highlight the work of our Commercial team who have again been very successful this year.

We greatly appreciate the support of our contributing local authorities, Central Otago District Council, Clutha District Council, Waitaki District Council and the Dunedin City Council. The support of our commercial partners is both vital and much appreciated and we look

forward to working with you in the future. We are planning to operate in a similar environment for the foreseeable future and are focusing on strategies to produce positive outcomes within our resource constraints.

I would like to reflect my thanks for the work of Dr Ian Griffin, the management team and all staff at Otago Museum. The commitment and dedication shown to the institution is significant and most appreciated.

My appreciation also goes to my fellow Board members. The Board has worked well during the year and addressed some major decisions in a professional manner. I appreciate the energy and commitment they bring to Otago Museum. I would like to highlight Julie Pearse, a long-serving board member, who stepped down this year and publicly thank her for her outstanding contribution.

We are looking forward to a very positive future for Otago Museum.

A handwritten signature in blue ink, appearing to read 'Graham Crombie'. The signature is stylized and written on a light-colored background.

Graham Crombie
Chair
Otago Museum Trust Board

Year in Review Director, Otago Museum



It has been an extraordinary 12 months for the Otago Museum. With more than 350000 visitors and a satisfaction rate of 95% (as measured by Dunedin City Council's Residents' Opinion Survey), the Museum continues to be Dunedin's most popular cultural institution.

In the run-up to the Museum's sesquicentenary, our growing Collections team continues to perform outstanding work. In particular, mention should be made of the Taoka Digitisation Project which has digitised and catalogued more than 18000 items since April 2016.

In a year of many notable highlights, perhaps the most memorable was the opening of the Tūhura Otago Community Trust Science Centre on 15 December 2017. Featuring dozens of state-of-the-art interactives, the centre has proved tremendously popular, garnering excellent reviews and winning a national award.

While generating significant supplementary income for the Museum, it is important to remember that Tūhura is a major educational asset for our region which will, we hope, inspire the many thousands of young people who visit each year to take an interest in STEM subjects.

The new science centre was improved significantly through strong support from the community. Throughout the four-year planning period we benefitted hugely from collaborations with scientists, designers, community leaders and many local companies. I'd like to take this opportunity to thank everyone who contributed to this important project.

Outreach is becoming an ever more important component of the Museum's work and during the period covered by this report, staff gave lectures, presentations, demonstrations or advice across the whole of Aotearoa. While the main focus of our outreach efforts has rightly been Otago, our staff have ventured as far as Papua New Guinea to provide support to important research programmes.

A personal highlight of the year was taking part in the Extreme Science outreach expedition to the Chatham Islands in July 2017. Over the course of a week, team members visited all three schools on the islands (including Pitt Island which had to

be reached via an epic boat journey), gave talks in the local pub and marae, and enjoyed phenomenal views of the night sky from a viewing spot adjacent to Te Whanga Lagoon.

Despite the achievements of the past year, the Otago Museum continues to face many significant challenges. For the past half-decade, public funding of the institution has remained relatively static and has not kept pace with increasing costs. While the Commercial team continues to work hard to grow income – the Museum covers almost 50% of its operational costs through commercial and grant income – we are approaching the limits of what is possible. Major upgrades to all of the Museum galleries will be required over the next decade, as well as significant investment in our ageing facilities. Next year, the Executive team at the Museum will be working with the Board to develop a long-term master plan for funding the considerable cost of these works.

I'd like to record my appreciation to the members of the Museum Trust Board and our Māori Advisory Committee. Their wise counsel is crucial to the success of the Museum. I'd particularly like to thank Board Chair Graham Crombie and Māori Advisory Committee Chair Matapura Ellison for their support for the Museum.

Finally I must acknowledge the hard work and dedication of the Museum staff. All have helped make 2017/18 a very fruitful year for our institution. There's never been a better time to visit. I hope to see you at the Museum soon.

Ian Griffin
Director
Otago Museum

2017 – 2018

Key highlights and achievements



1.

Tūhura Otago Community Trust Science Centre opened to the public in December. The centre was the joint winner of the Exhibition Excellence – Taonga Māori award at the Museum Aotearoa Service IQ Awards.



2.

Science outreach programmes were delivered to over 21000 people across Otago and beyond.



4.

Taoka Digitisation Project completed the digitisation of more than 18000 items since April 2016.



3.

A new facial approximation of the Egyptian mummy was installed in the People of the World gallery.



5.

NASA astronaut Colonel Michael Hopkins dropped by to talk about his experiences aboard the International Space Station.



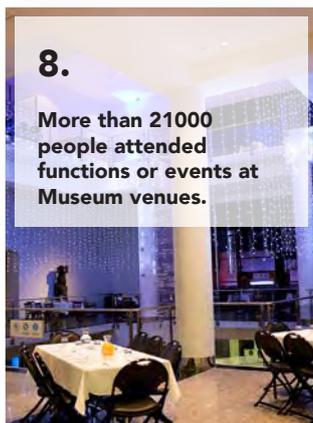
6.

Life Before Dinosaurs: Permian Monsters exhibition sold more than 25000 tickets.



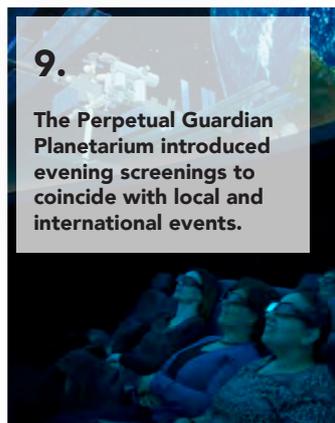
7.

Lab in a Box pulled in the crowds outside Parliament.



8.

More than 21000 people attended functions or events at Museum venues.



9.

The Perpetual Guardian Planetarium introduced evening screenings to coincide with local and international events.



10.

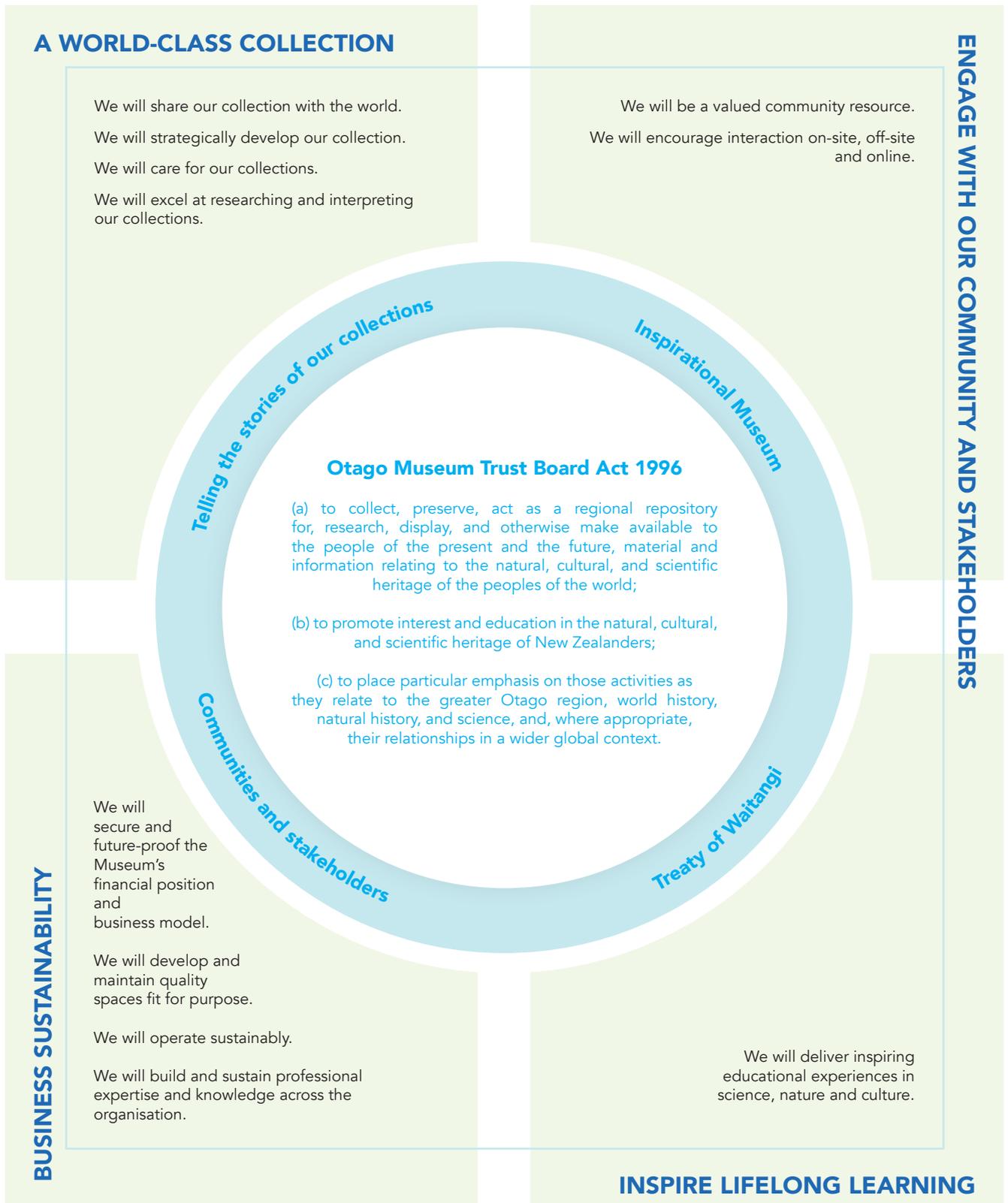
Otago Wildlife Photography Competition 2018 attracted record entries.

Otago Museum Vision:

To inspire wonder and curiosity about nature, culture and science in all people

Otago Museum Mission:

To inspire and enrich our communities and enhance understanding of the world through our collection, our people and the stories we share.



Otago Museum Trust Board

Appointed by

Chair: Graham Crombie
BCom, MDEnt, FCA (CPP), CF Inst D

Dunedin City Council

Deputy Chair: Professor David Hutchinson
BSc (Hons), PhD, PGDipArts (distinction),
MInstD, FNZIP, CPhys, FInstP, MRSNZ

University of Otago

Professor John Broughton
CNZM, ED, JP (Ret.), BSc, BDS, PhD,
PGDipComDent, DipGrad

Mana whenua

Dr David Ciccoricco
BSc, BA (Hons), PhD

Otago Institute for the Arts & Sciences (The Royal Society of New Zealand)

Professor Peter Dearden
BSc (Hons) (First class), PhD

University of Otago

Councillor Gaynor Finch
NZ Vet Nurse, Hearings Commissioner

Regional Funding Authorities (Clutha District Council)

Julie Pearse
BA

Association of Friends of the Otago Museum

Councillor Chris Staynes
BSc, CM InstD

Dunedin City Council

Councillor Kate Wilson
BA, LLB

Dunedin City Council

Ex Officio

Treasurer: Mike Horne (Deloitte)
Otago Museum Director: Dr Ian Griffin
Secretary: Jane Gregory

Audit Finance & Risk Management Committee

Kate Wilson (Chair)
Gaynor Finch
David Hutchinson
Julie Pearse
Chris Staynes
Graham Crombie (ex officio Chair)

Staffing Committee

Trust Board Chair Graham Crombie (Chair)
Trust Board Deputy Chair David Hutchinson
AFRM Committee Chair Kate Wilson

Executive Committee

Convened as and when required

Māori Advisory Committee

The Māori Advisory Committee's role is to facilitate an effective, positive relationship between mana whenua, Otago Museum and Papatipu Rūnaka of Te Tai o Araiteuru.

Chair: Matapura Ellison
Professor John Broughton
Jane Graveson
Koa Whitau-Kean
Marshall Hoffman
Pat Hoffman
Paulette Tamati-Elliffe
Winnie Matahaere

Rūnaka

Puketeraki
Puketeraki
Moeraki
Moeraki
Hokonui
Hokonui
Ōtākou
Ōtākou

Honorary Curators

Dr Melville Carr, MSc, PhD, DIC, FNZIC
Brian Connor, OStJ
Dr Rosi Crane, BSc, MSc, PhD
Professor Robert Hannah, BA (Hons), MPhil, FSA, FRSNZ
Anthony Harris, MSc (Hons) (First class)
Dr Jane Malthus, BHSc, MSc, PhD
Dr Bronwen Presswell, BSc, MSc, PhD
Dr Anthony Reay, PhD
Dr Catherine Smith, BAppSci, BA (Hons), PhD
Prof Glenn Summerhayes
Joel A Vanderburg

Specialist area

Philately
Medals
Science history
Classics
Entomology
European dress and textiles
Parasitology
Geology
Conservation
Melanesia
Africa

Association of Friends of the Otago Museum

This year has been a busy one for the Friends with numerous well attended events held. In October 2017 we arranged for a showing of *Flying Monsters* for our members at the planetarium, followed by our annual Christmas party in November.

In May we held a free evening at the Tūhura Otago Community Trust Science Centre. The Friends of the Otago Museum actively supported the development of the centre and were privileged to sponsor the interactive known as Flight Zone – He Wāhi Rere.

The Oral History Project is continuing as part of the Friends contribution to the celebrations for the Otago Museum's 150th anniversary in 2018. Professor Gordon Parsonson was our pilot project and all interviews with the Professor have now been completed. We held a handover of Professor Parsonson's interview material with the Hocken Library on 23 November, which was attended by Professor Parsonson and his family. We have now engaged our oral historian Helen Frizzell to begin interviews with Marjorie and Garry Blackman, who both share a wealth of knowledge about the Museum and the Friends.

Our membership at the end of 2017 – 2018 was 112 in total, including 28 households and 84 individuals. We are currently working to improve our membership numbers and are identifying events that would appeal to a broader range of the community.

Dr Anne Ford

President of the Council of the Association of Friends of the Otago Museum

Council of the Association of Friends of the Otago Museum

Patron: Margery Blackman

President: Anne Ford

Vice-President: Julie Pearse

Treasurer: Brigid Casey

Doug Holborow
Jenny Child
Sue Ballantyne
Sara Barham
Diana Sparks



Excavation underway at Papanui Inlet.

A world-class collection

Beach birth of a leopard seal pup

The birth and death of a leopard seal pup at St Kilda Beach in September provided Museum staff and external researchers with a rare opportunity to learn more about the early life stages of this species.

Leopard seals usually give birth on the inaccessible pack ice of Antarctica, and the last recorded case of one born on mainland New Zealand was in 1977.

After being abandoned by its mother, the pup was euthanised by the Department of Conservation. Members of the Natural Science team worked with DOC, local iwi, conservation groups and other researchers, including NIWA scientist Dr Krista Hupman, to arrange MRI and CT scanning, which showed that the pup's lungs were full of fluid,

affecting its ability to breathe.

The pup has now been taxidermied and will go on display at Otago Museum later in the year.

Conservation team cultivating connections and skills

Conservation Manager Nyssa Mildwaters visited Samoa and Papua New Guinea in December where she met with employees from the National Museum of Samoa, and the National Museum and Art Gallery of Papua New Guinea, as well as government and ministerial staff, helping to build valuable connections in countries where some of the Museum's collections originate.

Earlier in the year, Conservator Lisa Yeats attended a textiles conservation workshop in Beijing, one of only 24 people in the world selected to take part.

The workshop was organised by the International Institute for Conservation of Historic and Artistic Works.

Papanui excavations

In January, Otago Museum Curator, Māori Rachel Wesley and archaeologist Shar Briden led a team from the Museum, Te Rūnaka ō Ōtākou, the University of Otago, and the wider community in excavating a small area of the Papanui Inlet.

Archaeological monitoring over the past 10 years has unearthed a wide range of treasures from this area, including the partial hull of a waka. One of the prime objectives of the week-long excursion was to excavate material which could be dated, in order to learn more about the early history and settlement of the area.

Nicole Sanders from Zaibatsu Hair Art applies the finishing touches to the new facial reproduction of the mummy.



Facial reconstruction reveals mummy's appearance

Otago Museum's resident Egyptian mummy received a facial reconstruction at the end of 2017, giving visitors a better idea of what she looked like before her death.

Using scientific, artistic and historical research carried out by the University of Otago's Anatomy department and Faculty of Dentistry, forensic facial approximation researcher Dr Louisa Baillie was able to rebuild the mummified face with more accuracy than the previous reconstruction, which was undertaken in 2008.

CT scans and X-rays enabled Dr Baillie to create a 3D polyurethane copy of her skull. Markers were placed on the replica to guide soft tissue depth, and clay was sculpted to make the facial muscle and fat appropriate for her height, age, and state of health. The reconstructed face was covered in a silicone skin, and the colours of her skin, hair and eyes were chosen to reflect her Caucasoid, possibly Greek, ancestry.

The facial reconstruction is now on display next to the mummy in the People of the World gallery.

New species of fly found at Aramoana

Spending time on the mudflats around Aramoana over the summer led to a unique find for Associate Professor Steve Kerr, a neurotoxicologist at the University of Otago.

Kerr discovered a new species of the long-legged fly, now named *Scorpiurus aramoana*, and the species holotype – the single specimen that acts as the identifier for the entire species – is now held in the Otago Museum collection. In his spare time, Kerr volunteers at Otago Museum and can often be found identifying and cataloguing the Museum's entomology collection.



Visitors get their first glimpse of the interactives at the opening of the Tūhura Otago Community Trust Science Centre.

Engage with our community and stakeholders

Tūhura Otago Community Trust Science Centre

After four years of planning and five months of construction, Tūhura Otago Community Trust Science Centre opened to the public on Friday 15 December 2017.

The \$2.5 million redevelopment of the former Discovery World Tropical Forest was supported with \$500 000 in funding from the Otago Community Trust.

It is now home to more than 45 hands-on science interactives and a refreshed Tropical Forest butterfly house.

Unique to the centre is the Kāi Tahu cosmogenic whakapapa, or creation story, which provides a framework, based on both science and mātauraka Māori, by which to interpret the interactives and explain the natural world from two

different knowledge bases. Interactives wowing visitors include a Mood Ball which explores colour psychology, a Virtual Body table which allows users to investigate three real-life cases and how each cause of death has affected the body, and a 7.5 metre-high spiral slide inspired by the DNA double helix.

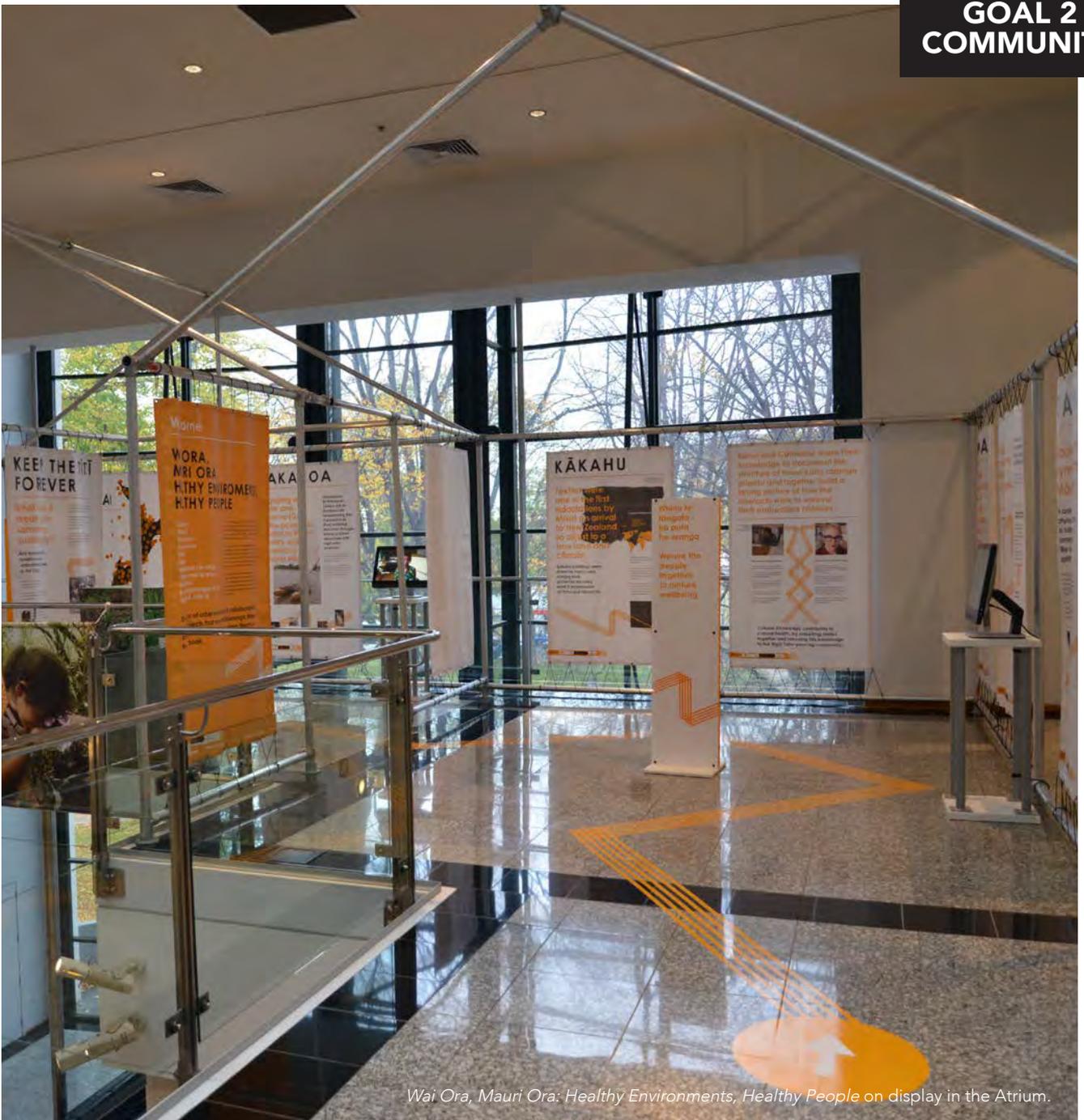
The refurbished Tropical Forest butterfly environment houses more than 1000 exotic butterflies, as well as tarantulas, terrapins, birds and Goliath stick insects, which can grow up to 25 cm in length.

Feedback has been overwhelmingly positive and the centre was announced the joint winner of the Exhibition Excellence – Taonga Māori award at the Museum Aotearoa Service IQ Awards in May.

Life Before Dinosaurs: Permian Monsters

This international touring exhibition, produced by Gondwana Studios, brought the past back to life with fossilised skeletons and life-size animatronic models of the animals that ruled the world millions of years before the age of dinosaurs, in a time known as the Permian.

A blend of art and science enabled visitors to view reconstructed models of these strange creatures and dig for fossils in interactive pits. It was a huge hit with visitors, with more than 25000 tickets sold.



Wai Ora, Mauri Ora: Healthy Environments, Healthy People on display in the Atrium.

Creative collaboration

Art and Genetics was held in July in conjunction with the Genetics Society of AustralAsia conference. Artists from the Dunedin School of Art worked with University of Otago scientists to develop visual material relating to concepts of genetics.

Twenty-six Myanmar artists reflected on their country's economic, social and political situation in *Burma Express*, which was displayed in the H D Skinner Annex in support of the New Zealand Asian Studies Society 22nd Biennial International Conference 2017.

Wai Ora, Mauri Ora: Healthy Environments, Healthy People was developed by the University of Otago's Centre for Science Communication, Te Koronga – Indigenous Science, and Otago Museum, and presented research projects which incorporated mātauraka Māori and Pākehā knowledge.

Things Change: Martin Phillipps and The Chills

When lead singer and songwriter of The Chills, Martin Phillipps received a dire medical prognosis in 2017, it led to a desire to preserve the legacy of both

himself and his band.

Things Change: Martin Phillipps and The Chills was the result. Featuring more than 400 items from Phillipps' personal collection, the exhibition opened in the H D Skinner Annex on 22 June.

A collaboration between Otago Museum, Museograph, and a group of Communication Design students from Otago Polytechnic, both the exhibition and the process of its creation has been captured by Notable Pictures as part of a theatrical documentary expected to premiere internationally early in 2019.



Kākāriki karaka by Craig McKenzie

Otago Wildlife Photography Competition 2018

The 2018 competition attracted a record 2332 photographic and 53 video entries, and resulted in the first ever tie for the People's Choice award.

Sponsored by Canon, Jonathan's Photo Warehouse and the Otago Daily Times, the prizewinners and

a selection of the best photos and videos were showcased in the *2018 Otago Wildlife Photography Exhibition*, which opened in March. A selection of 2017 winners and entries was installed at the Cromwell Museum.

To complement the competition,

Canon experts from around New Zealand led a talk entitled *Photography 101*. This was followed by *The Art of Invertebrate Macrophotography* hosted by Bryce McQuillan, a self-taught specialist in wildlife and macrophotography.



Category winners	Name	Title of photograph
2018 Photographer of the Year	Craig McKenzie	Kākāriki karaka
Jury Prize	Timothy Tay	Milky Way explorer x Bear Rock
The People's Choice Award (tie)	Carolena Booth	Skateboarder Basil
	Jemma Bezuidenhout	Flying pup
Animal: 15 years and over	Craig McKenzie	Kākāriki karaka
Animal: 14 years and under	Megan Hunt	Family of ducks
Human Impact on the Environment: All ages	Paul Sorrell	Juvenile keas tussling over cigarette
Pet: 14 years and under	Jack Aubin	Charlie in the backyard
Night Skies	Brad Phipps	Into the fire
Plant: 15 years and over	Nicola Baines	Fading beauty
Plant: 14 years and under	Frankie McAuliffe	Colour explosion
Video	Pat Wongpan	Morning routine
Highly commended		
Animal: 15 years and over	Anne Marie Basquin	Deep swimmers
	Mark Kitchingman	Hector's dolphin encounter
Animal: 14 years and under	Jack Aubin	Dam dragonfly
	Jemma Bezuidenhout	Beautiful boy
Human Impact on the Environment: All ages	Caitlan Smart	Chimps in the city
	David Steer	Long Gully wind farm
Pet: 14 years and under	Jemma Bezuidenhout	Flying pup
	Miles Ghiggioli	You are kidding
Night Skies	John Moran	St Clair aurora
	Nathan Williams	Interstellar mail
Night Skies: Special Acknowledgement	Dave Curtis	Vela supernova
Plant: 15 years and over	Henry Eden-Mann	Highlight of the bush
	Sally Gable	Rhubarb leaf
Plant: 14 years and under	Elizabeth Dearden	Rosey spirals
	Amelia Phipps-Green	The ancient forest
Video	Liam Connolly	Winter feast
Video: Special Acknowledgement	Paul Hannah	Plastic not so fantastic

GOAL 3 INSPIRE LIFE- LONG LEARNING



Students from Te One School in the Chatham Islands build and test-fly rockets.

Inspire lifelong learning

Extreme Science: Taking Science to the Chathams

Stargazing, blowing things up, and exploring the mysterious world of quantum physics were just some of the activities on the agenda during a week-long expedition to the Chatham Islands.

In collaboration with the Dodd-Walls Centre, and with support from the Ministry of Business, Innovation and Employment's Unlocking Curious Minds fund, the Otago Museum travelled to this remote archipelago to get local children and their families excited about science.

The team visited all three schools on the islands, ran professional development workshops with teachers, and conducted a variety of activities and experiments. To encourage future explorations, every school child received a DIY science kit, and the community was gifted a telescope and seismometer.

The project was the joint winner of the 2018 Museum Aotearoa Service IQ Award for Most Innovative Public Programme.

A night at the Museum

The Education team relaunched its popular Museum sleepovers in February. Overnight stays now incorporate hands-on time in

the Tūhura Otago Community Trust Science Centre, with students bedding down for the night amongst the interactives. The redeveloped programme also offers options for senior students, which are based around creative writing and science communication.

Feedback from schools has been overwhelmingly positive, with teachers and students alike loving the new science focus of the sleepovers, as well as the sense of adventure and mystery that accompanies an after-dark exploration of the Museum.



NASA astronaut Colonel Michael Hopkins talks about his experiences aboard the International Space Station.

Always something new to discover at the Perpetual Guardian Planetarium

From 220 million years ago to vivid projections of the future, the planetarium gave visitors a glimpse into some very different worlds throughout the year.

Films on show included *Humpback Whales*, *Flying Monsters*, and *Alien World: The Case for Life*, which was developed in-house. Other screenings were timed to coincide with local and international events, including *Alien* for Halloween, *Hidden Figures* to celebrate International Women's Day on 8 March, the first three Indiana Jones movies during New Zealand Archaeology Week, and *Great White Shark* as part of the Wild Dunedin Festival.

To support Techweek'18, *Behind the Scenes at the Planetarium* provided a peek at the inner workings of the planetarium and revealed some of the experimental technology the team are currently working on.

Programmes promote the Museum to new audiences

An exciting line-up of talks, workshops, gallery trails, craft activities, demonstrations and field days bolstered the Museum's appeal to different audiences. Chocolate-themed events and shows were on the agenda during the Dunedin Cadbury Chocolate Carnival 2017, including a Giant Jaffa Rolling Ball Sculpture and Sense-ational Chocolate Science Show.

During the Dunedin Heritage Festival in October, Museum guides took visitors on tours of the Maritime gallery, while aspiring archaeologists experienced a mock excavation during New Zealand Archaeology Week.

Specialist speakers introduced the community to topics as diverse as Antarctica, solar tsunamis, the field of cryptology, and electric vehicles. The Museum also supported external speaking events such as the University of Otago's monthly Thirst for Knowledge series.

Monthly Live @ OM gigs filled the Atrium with blues, folk, jazz, orchestral and choral renditions. Murder Mystery @ OM provided a thrilling, after-dark Museum experience and featured a live murder mystery by improv-comedy troupe Improsaurus, guided torchlight tours of the galleries, and hair-raising science experiments.

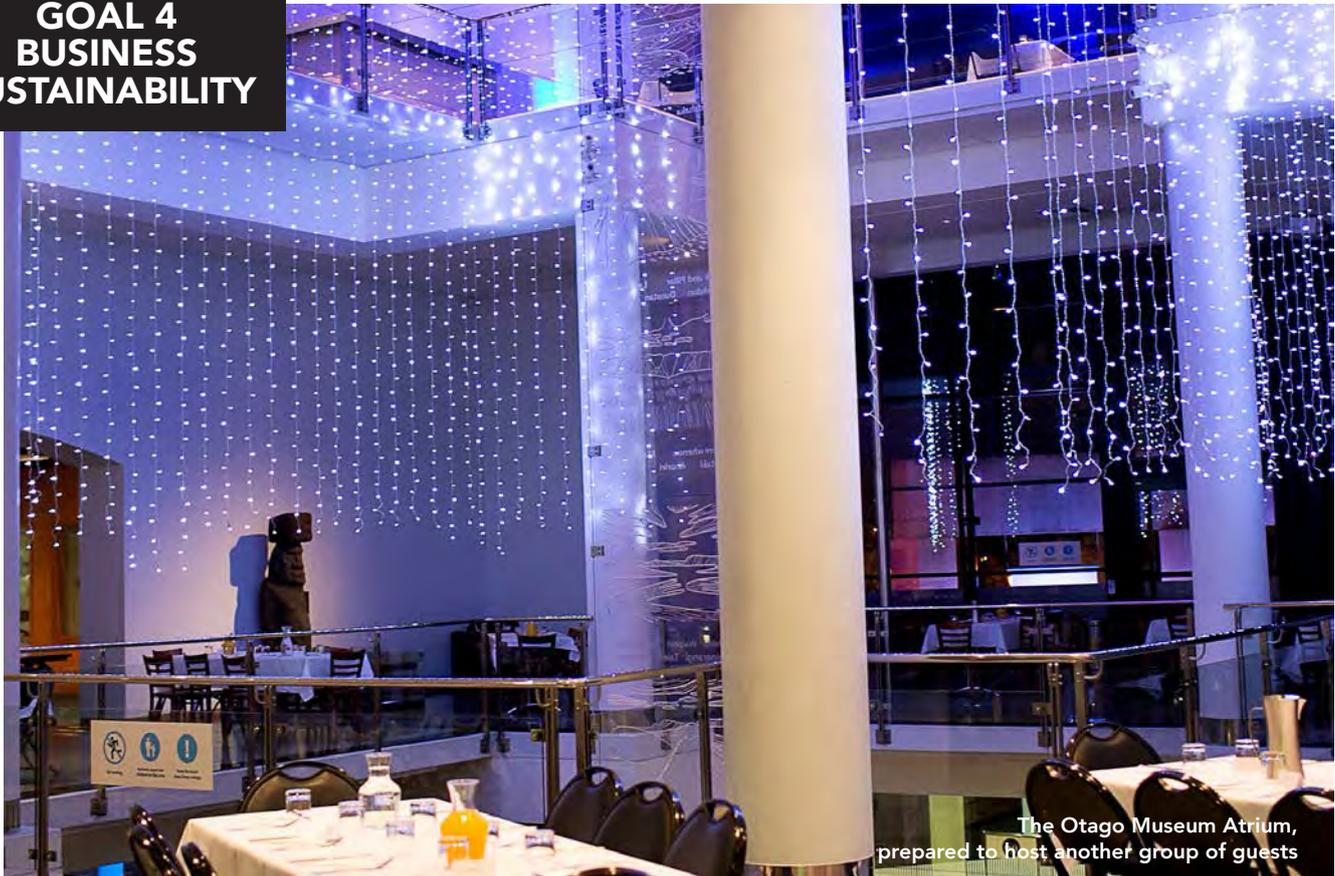
Lab in a Box at Parliament

At the end of February, Lab in a Box took up perhaps its most prominent parking spot yet - right outside the Beehive.

The portable research lab inside a 20-foot shipping container hosted two days of sessions and shows, and was visited by the Minister for Research, Science and Innovation, Megan Woods, and the Minister for Education, Chris Hipkins.

The event was held in conjunction with the Dodd-Walls Centre, the MacDiarmid Institute and Genomics Aotearoa, with sessions run by Otago Museum science communicators.

GOAL 4 BUSINESS SUSTAINABILITY



Business sustainability

Everyone matters

The ethos of the Venues team is “customer service – everyone matters”. Venue hire, a more commercial aspect of the Museum’s remit, is about supporting the core functions of the institution – the revenue generated supports the development and continuity of programmes, education, collections, and research. Ensuring relationships with key clients, such as the University of Otago, are based on professionalism and reliability translates to regular repeat and increased business, underpinning the unit’s ongoing sustainability.

The Venues team hosted a Chamber of Commerce Business After Five event in August 2017, which was one of the largest in recent times and garnered considerable positive feedback from attendees. These networking events invite business and professional people to view the Museum in a different context, and the August event has opened

the door for a range of new relationships and connections. The opening of Tūhura Otago Community Trust Science Centre is providing ongoing financial benefit to the Museum, with a high level of interest in the space for larger group bookings. Another highlight is the stability of the Venues team, with just three new recruitments to support a well-established and professional team.

Safety improvements in the Atrium

The Museum upgraded the balustrades in the Atrium to provide a safer environment for visitors. The balustrades now sit on the floor inside a frame and are higher, which removes the possibility of small items falling or rolling underneath, or being dropped over the top. Made of hardened, laminated glass to reduce the chance of shattering, the height of the balustrades has increased from 830 mm to 1330 mm.

Tūhura pulls in the crowds

Since opening in December, the Tūhura Otago Community Trust Science Centre has welcomed more than 50 000 visitors, increasing income during this period by 56%.

To sustain Tūhura’s appeal and attract new audiences, various programmes have been devised and continued. These have included a daily First Flight butterfly release delivered by science communicators, evening film screenings in the planetarium to coincide with global themes and events, and regular sold-out Yoga with the Butterflies classes, run in collaboration with Hot Yoga Dunedin.

The introduction of an annual pass, which offers locals the opportunity to visit Tūhura as frequently as they desire has proved popular, with more than 1000 passes sold in the first three months.



Te Kore/The Void, one of the many interactives inside Tūhura Otago Community Trust Science Centre

The art of relationships

As well as ratepayer contributions, Otago Museum relies on external sources of funding to maintain and develop its collection, deliver science engagement experiences, and remain a sustainable business. In today's funding climate it is crucial that approaches to funders are made with an eye to adding value and building long-term relationships, rather than purely seeking money.

The opening of the Tūhura Otago Community Trust Science Centre reflects such a win-win relationship. The support of the Otago Community Trust has enabled the Museum to develop Tūhura to its maximum potential, while around 100000

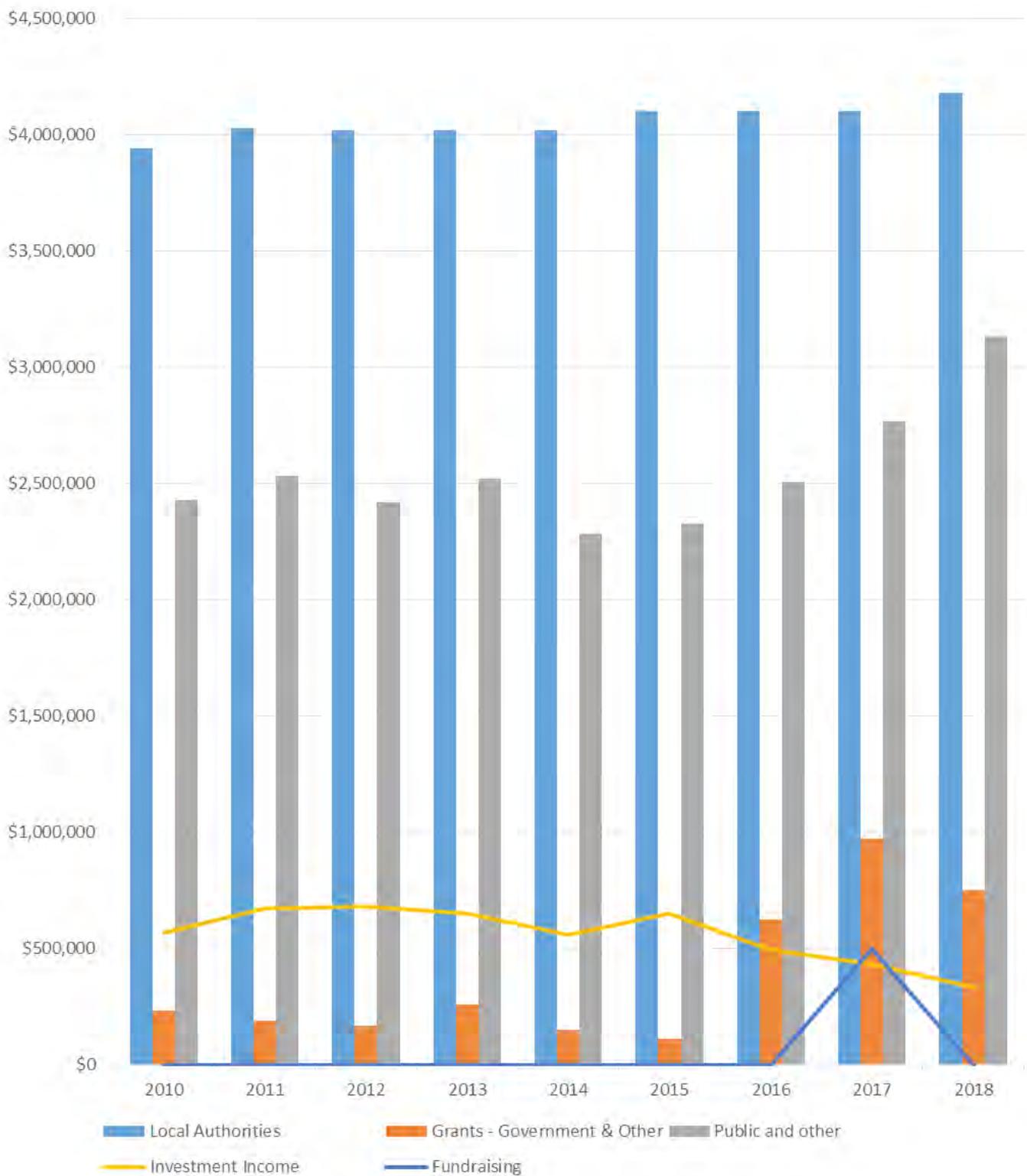
visitors each year will witness Otago Community Trust's support for such positive regional attractions. This model builds on the successful naming sponsorship of the Perpetual Guardian Planetarium and funding contributions for specific interactives within Tūhura, such as support from the Lions Foundation for the DNA slide, and the Marjorie Barclay Trust for the Virtual Body Table.

Developing long-term relationships with relevant institutions and organisations has also enabled the Museum to extend its reach to communities across Otago and beyond. By working closely with a range of departments within the University

of Otago; organisations such as the Dodd-Walls Centre, the MacDiarmid Institute, the Catalyst Trust and Antarctica NZ; and agencies such as the Otago Regional Council and the Ministry for Business, Innovation and Employment, the Museum has been able to support and deliver science engagement experiences across New Zealand.

As well as these larger-scale, strategic relationships, Museum staff nurture connections with local contractors and suppliers, media, clients, education and business groups, and other associations on a daily basis. These relationships contribute to the ongoing operation and success of the Museum.

Otago Museum Income 2010 – 2018



Income	2010	2011	2012	2013	2014	2015	2016	2017	2018
Local Authorities	\$3,942,706	\$4,027,532	\$4,021,668	\$4,021,668	\$4,021,668	\$4,102,101	\$4,102,101	\$4,102,101	\$4,180,512
Grants – Government & Other	\$235,095	\$187,986	\$169,186	\$259,143	\$150,353	\$111,982	\$625,435	\$970,458	\$749,875
Public and other	\$2,427,995	\$2,535,432	\$2,421,979	\$2,518,822	\$2,284,236	\$2,329,057	\$2,506,596	\$2,769,172	\$3,131,544
Investment Income	\$566,991	\$671,674	\$682,581	\$649,591	\$560,702	\$651,144	\$492,417	\$433,928	\$333,208
Fundraising								\$500,000	

Otago Museum Staff List 2017 – 2018

Executive

Ian Griffin, BSc (Hons), PhD

Jane Gregory, BAppMgt

Director

Executive Assistant

Collections, Research and Education

Robert Morris, BA (Hons), MSocSci

Kathleen Adams

Kerrie Barrett

Anusha Beer, MSc, PGDip Science

Natasha Bonham-Carter, BSc, MSc

Emma Burns, BSc

Mikayla Cameron

Ella Cooper

Jennifer Copedo, BA (Hons)

Bridget Dawson

Charlotte Donald

Kane Fleury, BSc, MSc

Cara Gilmore

Fiona Glasgow, MIS, BA (Hons)

Emily Gray, BSc, PGDipSc, MSc

Anne Harlow, BA, DipGrad, MAMusStud

Paola Healey

Yasmin Holden, BSc (Hons 1st Class)

Samantha Kingsbury, BBiomedSc

Aleisha Lord

Emma Lunniss

Lucy McGrannachan

Amelia McKenzie

Caitlyn McMillan

Jamie Metzger, BA (Hons), MAppSc, PGDipMusStud

Nyssa Mildwaters, BSc (Hons), MA, MSc, ACR

Christiana Moeroa

Cody Phillips, BSc, PGDip

Sofian Scott

Kate Timms-Dean, BA, PGDip Arts, GCTLT, PhD

Jamie Wasilchenko

Rachel Wesley, BA, PGDip Arts (Distinction)

Moira White, MA

Annie Withington

Lisa Yeats, BA, MA

Director, Collections, Research and Education

Sleepover Presenter

Sleepover Presenter

Assistant Curator, Natural Science

Collections Officer

Curator, Natural Science

Sleepover Presenter

Sleepover Presenter

Assistant Collection Manager, Humanities

Sleepover Presenter

Sleepover Presenter

Assistant Collection Manager, Natural Science

Sleepover Presenter

Project Coordinator – Taoka Online Project

Education Officer

Collection Manager, Humanities

Sleepover Presenter

Collection Officer - Natural Science

Sleepover Presenter and Communicator

Sleepover Presenter

Sleepover Presenter and Communicator

Sleepover Presenter

Sleepover Presenter

Sleepover Presenter

Assistant Curator, Humanities

Conservation Manager

Sleepover Presenter

Collection Manager, Natural Science

Sleepover Presenter

Education Manager

Project Officer – Taoka Online Project

Curator, Māori

Curator, Humanities

Sleepover Presenter

Conservator

Finance, Facilities, Front of House and Commercial

Murray Bayly, BCom, CA

Sherry Abd El Malik

Sophie Adams, BSc

Oliver Aylen, BSc

Paula Barragan-Ramano

Brenda Barron

Alice Barrow

Madeleine Bartle

Sarah Benwell

Commercial Director

Venue Host

Communicator

Communicator

Shop Assistant

Building Services Officer

Café Host

Café Host

Accounts and Administration Assistant

Otago Museum Staff List 2017 – 2018

Georgia Best	Venues
Vicki Bielski, BA	Museum Guide
Harry Bleasdale	Assistant Cook
Lana Bolton-Marston, BA, PGDip Eng, DipGrad ArtHis	Front of House Officer
Callum Booth	Café Cook
Lyndsay Boyd, BA	Café Host
Jacqueline Bragg	Café Host
Eleanor Briggs	Communicator
Julia Brillinger	Café Host
Jenna Brown	Café Host
Sophie Bryant	Conference and Events Supervisor
Jason Bucklar	Café Manager
Marinus Burzelman	Café Manager
Angela Caballero Alfonso, PhD, PDR	Communicator
Jessica Cartmel	Venue Host
Lucy Chandler	Venue Host
Emily Chatfield, BA, PgDipArts (Distinction)	Front of House Officer
Eliza Ching	Communicator
Merryn Chynoweth, BA (Hons) Anth	Museum Guide
Octavia Cook, BDes	Communicator
Natalia Costa Lopes	Communicator
Lisa Cronin	Kitchen Assistant
Conway Dean	Facilities Officer
Margot Deveraux, PGDip CaPSc, DipMusPrac	Project Manager, Health and Safety Advisor
Lucy Dickie, BSc	Communicator
Kayla Dwyer	Café Host
Madeline Dykes	Conference and Events Supervisor
Kate Edwards	Café Host
Stephanie Easson	Venue Host
Benjamin Farry	Kitchen Assistant
George Fitzgerald, BA	Communicator
Teresa Fogarty, BA, DipCom, PGDip HR Management	HR and Customer Services Manager
Amanda George, BA (Hons), PhD	Museum Guide
Garry Gibson	Production and Projects Officer
Vanessa Graham	Venue Manager
Pearl Gray	Communicator
Sarah Harkness, National Cert Vet Nursing	Shop Assistant
Zachary Hewlitt	Kitchen Assistant
Steven Hird, NVQ Museum Studies	Front of House Officer
Arthur Hon	Kitchen Assistant, Cook
David Johnston	Facilities Assistant
Stephanie Kaan, BCom, CA	Accountant
Alex Keen, Cert Tourism	Café Host
Nichola Keen	Café Host
Alana Kelly, BA (Hons) Arch	Venue Host and Café Host
Te Rina Keogh	Communicator
Geoffrey Kern, BA, GradDip	Assistant Café Cook
William Kilgour-Hand	Café Host
Jeremy Kirkwood	Kitchen Assistant
Holly Kumbaroff	Café Host
Fa'ao'osala Lale	Venue Host

Otago Museum Staff List 2017 – 2018

Ashleigh Lamb, Dip Tourism, Cert Hospo	Café Supervisor
On Lau	Shop Assistant and Communicator
Kira Lazaro Morato, BSsBiology, MSc Microbiology	Shop Assistant
Emma Loader	Café Host
Bronwyn Lewis, BCapSc, Dip Grad	Shop Assistant
Samanta Luzzi King, BA	Shop Manager
Joanne Marnane	Communicator
Emma McCoy, BA	Communicator
Ross McKenzie	Museum Guide
Chris McLay	Assistant Manager
Joshua Meikle	Communicator
Lora Michaelian, BA, MA Philosophy	Café Host
Emma Morris	Museum Guide
Matthew Newton	Facilities Officer
Rodrigo Olin-German, BA, BCom, Cert Hospo	Café Supervisor
Alysha Painter	Science Communicator
Lucy Peebles, BSc	Venue Host
Emma Perry	Café Host
Richard Powell, BDes	Production Services Officer
Rachel Qi Wang, BCom	Administration Intern
Asha Read	Café Host
Imogen Ramsay-Te Haurora, Dip Hospitality Management	Venue Officer
Bronwyn Robson	Café Cook
Teina Ruri, BA, Dip Social Services	Guide
Kendra Ryan	Café Host
Kimberly Simpson	Front of House Coordinator
Trubie-Dylan Smith	FOH Manager
Sam Spector	Facilities Officer
Andrew Spiegel	Café Cook Supervisor
Christine Starr	Café Host
Ashley Stewart	Museum Guide
Michael Stott	Café Host
Chloe Stroud	Venue Host
Luke Swann	Conference and Events Supervisor
Erinei Tauai	Communicator
Ben Taylor	Venue Host
Brian Templeton	Café Host
Claire Thorrold	Café Host
Philippa Todd	Venue Host
Lisa van Halderen, BSc, PGDip Wildlife Management, Cert Hosp	Communicator
Kerry Varcoe	Café Manager
Elizabeth Vitali, BA, PGDip	Communicator
Nadine Ward	Venues
Marilyn Washington	Gardener
Aliza Waterhouse	Venue Host
Alice Waterman, LLB, BSc	Museum Guide
Richard Wilson, DipEngDes	Facilities Manager
Sofia Yanez-Flores	Shop Assistant

Marketing and Development

Otago Museum Staff List 2017 – 2018

Caroline Cook, BCom
Shanaya Allan, BDes Communication
Victoria Bithell, BA
Emma Brooks, BA
Andrew Charlton, BSc
Jordan Dickson, BA (Hons)
Louis Graham, BCGD
Sarah Macklin, BCom (Hons 1st Class)
Susan Maxwell, DipILS, DipProofEditPub
Max Mollison, Bdes (Hons)
Hannah Molloy
Charlotte Neilson
Craig Scott, BDes Communication
Annah Taggart, BDes Communication

Director, Marketing and Development
Design Services Officer, Exhibitions
Marketing Assistant
Content and Communications Assistant
Developer, Systems and Interactive Media
Marketing Assistant
Marketing Assistant
Marketing Manager
Content and Communications Assistant
Design Services Officer
Marketing Manager
Marketing Manager
Head of Design
Design Services Assistant

Programmes and Science Engagement

Craig Grant, BSc (Hons), PhD
Isobel Andrewartha, BA (Hons)
Samantha Botting, BSc, MSc
Chloe Brown, MPcs
Suzanne Caulton, Cert Art & Des, Dip Craft Des
Claire Concannon, BSc, PhD
Rachel Cooper, BEd
Amadeo Enriquez Ballesterero, BSc, PGDipTchg
Gabrielle Golding, PGDip SciCom
Catriona Gower, BSc, MPhil, PGCert, DipBusiness Management
Eden Gray, BSc, MSc
Oana Jones, BIT, GradDip
Loren Mathewson, BSc, MSc
Anthony Stumbo, BSc, MSc, PhD, PhD Zoology
Neil Vallely, BA, MA, PhD
Nathalie Wierdak Carlesso, BA, PGrad
Nicholas Yeats, BSc (Hons)

Director, Programmes and Science Engagement
Science Communicator, Operations
Science Centre Manager
Science Communicator
Programmes and Events Officer
Science Communicator
Programmes and Events Manager
Science Presentation Coordinator
Science Communicator
Science Communicator
Living Environments Communicator
Full Dome Producer
Science Communicator
Science Communicator
Science Communicator – Special Projects
Science Engagement Coordinator
Science Communicator

Appendix 1 - Otago Museum Statement of Service Performance 2017 – 2018

Strategic Objectives	Status 2017/2018 (2016/2017)	Commentary
GOAL 1: A WORLD-CLASS COLLECTION		
1.1 We will share our collection with the world		
<p>Review, assess and/or digitise 10 000 collection items with a focus on the Māori and invertebrate collections, and increase number of items accessible online by 5000.</p>	<p>Achieved</p> <p>146 635 assessed items (70 987)</p>	<p>Curatorial, collection and conservation staff have assessed 146 635 items in 2017 – 2018 (67 329 Natural Science, 79 306 Humanities), of which 2614 are newly generated records and 144 021 have been updated or amended.</p> <p>Assessment refers to examining the item and assessing it against international Museum standards. This may include confirming that it is adequately documented, safely housed and its conservation status is appropriate to revising information about the item, digitising it to agreed Museum standards and/or fully treating it by the Conservation team. Agreed standards are fully articulated in the Museum's Collection Policy 2015 – 2020. Key standards of note include SPECTRUM and CIDOC.</p> <p>Of the items that have been assessed, 70 763 have been from targeted collections:</p> <ul style="list-style-type: none"> • Māori collection 38 566 records. • Invertebrate collection 32 197 records.
<p>NZ Lotteries grant-funded Taoka Digitisation Project underway with collections conservation, documentation and digitisation ongoing.</p>	<p>Achieved</p> <p>Inventoried: 14 097</p> <p>Described: 8062</p> <p>Photographed: 6643</p>	<p>The Taoka Digitisation Project reached a milestone with the digitisation of approximately 18 647 items since the beginning of the project in April 2016.</p>
<p>Roll out Digital Asset Management System (DAMS) for target divisions.</p>	<p>Achieved</p>	<p>There are now 152 745 images of 58 724 collection objects on Piction, and 14 individual staff user profiles for the Collections team. Next year the system will be extended to Marketing and Design use, and will also link to the Museum website.</p>
<p>Facilitate loans of collection items to and from the Museum.</p>	<p>Achieved</p> <p>5 loans to other institutions (8)</p> <p>2 to individual researchers</p>	<p>OBJ180002. Loan of an Athenian black figure hydria (E48.66) to the Teece Museum of Classical Antiquities in Christchurch.</p> <p>OBJ170056. Loan of a scale model of the twin screw motor vessel <i>Port Chalmers</i> (X2008.49) to the Port Chalmers Museum.</p> <p>OBJ170043. Loan of pottery sherds (E68.40 and E68.42) and electrolyte replicas (E75.7 and E75.11) of material from Mycenae.</p> <p>OBJ170062. Loan of boxes of midden – charcoal and bird bone – from the Chatham Islands, to Associate Professor Ian Barber for research.</p> <p>OBJ180017. Loan to PhD researcher Matt Swieton of a core from Trotter's excavation of Nenthorn for research.</p> <p>OBJ160064. Loan of a life preserver (X2008.127) and model of Maheno (X2008.23) to Toitū Otago Settlers Museum for an exhibition.</p>
<p>Yellow-eyed Penguin Trust research project identified and underway.</p>	<p>Achieved</p>	<p>A comprehensive review, "The Pathway Ahead for Hoiho Te Ara Whakamua. Impacts on Hoiho: Literature Review and Recommendations", was completed by Trudi Webster, Conservation Science Advisor at the Yellow-eyed Penguin Trust. It addresses marine and terrestrial impacts, and provides management and research recommendations to support the development of a hoiho threat management and recovery plan.</p> <p>Liaison continues with the fishing industry, fishers and government departments to address the direct and indirect effects of fishing. Work with rehabilitation groups and vets continues to tackle threats from avian diphtheria, malaria and unexplained mortalities.</p> <p>Media coverage: Webster, Trudi, "Making a Difference". <i>Otago Daily Times</i> 9 September 2017. Webster, Trudi, "Rare Birds on Promotion Duty at Airport". <i>Otago Daily Times</i> 26 September 2017. Webster, Trudi, "Kiwi, Penguins and Insects Facing Desiccation in Summer Weather". <i>Morning Report</i>, Radio New Zealand 5 December 2017.</p>

<p>Publish 20 publications based on the collections, from internal and external researchers, and via publicly-accessible media.</p>	<p>Achieved</p> <p>29 publications (37)</p>	<p>Webster, Trudi, "Smalls Beach Clean-up". <i>Otago Daily Times</i> 16 April 2018.</p> <p>Webster, Trudi, "Avian Malaria Increases Penguin Deaths". <i>Otago Daily Times</i> 21 April 2018.</p> <p>Webster, Trudi, "Plan Needed to Halt Deaths of Penguins". <i>Otago Daily Times</i> 8 May 2018.</p> <p>Posted on the Otago Museum Blog:</p> <p>Q and A with Trudi Webster, Saving Yellow-eyed Penguins, 28 August 2017.</p> <p>Presentations:</p> <p>Webster, T and Tidey, E (2018). Characterisation of benthic foraging habitat for hoiho. Birds New Zealand Conference, Waitangi.</p> <p>Webster, T (2018). Yellow-eyed Penguin Trust and working with industry. 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A Comparison of Visual and Acoustic Autonomous Monitoring Methods for Investigating Temporal Variation in Occurrence of Southern Right Whales". <i>Marine Biology</i> 165(1): 12.</p> <p>Donnelly, D M, Ensor, P, Gill, P, Clarke, R H, Evans, K, Double, M C, Webster, T, Rayment, W and Schmitt, N T (2018). "New Diagnostic Descriptions and Distribution Information for Shepherd's Beaked Whale (<i>Tasmacetus shepherdi</i>) off Southern Australia and New Zealand". <i>Marine Mammal Science</i> 34(3): 829-840.</p> <p>Barton, M, Malthus, J, Cadogan, A, Broughton, E (2017). "Anything Could Happen - A Prime Minister's Scholarship Asia Fashion Study Tour". <i>Scope Art and Design</i> 15, 13-23.</p> <p>Dennison, J and Summerhayes, G R (2018). (eds) "New Guinea Translation of M. Krieger 1898 Neu-Guinea". <i>University of Otago Working Papers in Anthropology</i> No.4.</p> <p>Gaffney, D, Summerhayes, G R, Mennis, M, Beni, T, Cook, A, Field, J, Jacobsen, G, Allen, F, Buckley, H and Mandui, H (2017). "Archaeological Investigations into the Origins of Bel Trading Groups Around the Madang Coast, Northeast New Guinea". <i>The Journal of Island and Coastal Archaeology</i> DOI: 10.1080/15564894.2017.1315349.</p> <p>Hannah, R (2017). <i>The Intellectual Background of the Antikythera Mechanism</i>. In <i>The Construction of Time in Antiquity: Ritual, Art, and Identity</i>. J Ben-Dov and L Doering, (eds) Cambridge, Cambridge University Press 83-96.</p> <p>Hannah, R, Allen, M, et al (2016 – 2018). "Book Review. The Inscriptions of the Antikythera Mechanism". (Turnhout 2016) <i>Aestimatio</i> 13: 1-9.</p> <p>Johns, Dilys, Briden, Shar, Wesley, Rachel and Irwin, Geoffrey (2017). "Understanding Aotearoa's Past Through the Recovery and Conservation of a 15th-century Canoe and its Fibrework from Papanui Inlet, Otago Peninsula" [online]. <i>Journal of the Polynesian Society</i> Vol. 126, No. 4: 469-494.</p> <p>Josué M Polanco-Martínez, Ángela M Caballero-Alfonso, Unai Ganzedo, José J Castro-Hernández. "A Reconstructed Database of Historic Bluefin Tuna Captures in the Gibraltar Strait and Western Mediterranean". <i>Data in Brief</i> Vol 16, February 2018, pp. 206-210.</p> <p>Malthus, J, Fay, C, Galloway, M, Brasell-Jones, M, Barton, M, O'Brien, G, McCaw, C (2017). Art Educated Design Educators. Chapter 12 in P Stupples and J Venis (eds) "<i>Art and Design</i>": <i>History, Theory, Practice</i>. Cambridge Scholars, 193-206. ISBN (10): 1-5275-0307-0.</p> <p>Malthus, J, Barton, M, Cadogan, A, Deaker, A. "Anything Could, and Did, Happen on an Otago Polytechnic Design Trip to China". <i>Context: Dress, Fashion, Textiles</i> 35, Summer 2017/18, 28-36.</p>
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Burns, Emma, Otago Museum's Sunfish – The Largest Known Specimen of the New Hoodwinker Sunfish, Mola Tecta, 28 July 2017.

Burns, Emma, In the Belly of a Trout, 28 September 2017.

Fleury, Kane, Ahi Pepe Goes to Whanganui, 8 March 2018.

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Webster, Trudi, Q and A with Trudi Webster, Saving Yellow-eyed Penguins, 28 August 2017.

Wesley, Rachel, January Papanui Excavations, 27 March 2018.

White, Moira, Friend of a Friend, 28 July 2017.

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White, Moira, National Volunteer Week @ OM, 18 June 2018.

Rare Striped Dolphin Stranding Death on Warrington Beach, 26 September 2017.

Leopard Seal Pup's Lungs were Failing, CT Scan Shows, 29 September 2017.

Egyptian Mummy Press Release, 11 October 2017.

Facial Reconstruction of an Egyptian Mummy, 13 October 2017.

Leopard Seal Pup to be Added to Otago Museum Collection, 22 January 2018.

Other publications:

"Rare Discovery: New Long-legged Fly Found at Aramoana". Media release published in the *Otago Daily Times*, *stuff*, the *Southland Times*, Radio New Zealand, *1 News Now* and *Europe News*, June 2018.

Greenstone TV. Artefact documentary series aired on Māori TV. Curator, Māori Rachel Wesley and Honorary Curator, Conservation Dr Catherine Smith discuss the Puketoi Station kete with Dame Professor Anne Salmond.

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"Rare Striped Dolphin Stranding on Otago Beach". Media release in the *Otago Daily Times*, *stuff*, *1 News Now*, September 2017.

		<p>“Leopard Seal Pup to be Added to Otago Museum Collection”. Media release in the <i>Otago Daily Times</i>, <i>stuff</i>, 22 January 2018.</p> <p>“Leopard Seal Pup’s Lungs were Failing, CT Scan Shows”. 29 September 2017.</p> <p>Webster, Trudi, “Making a Difference”. <i>Otago Daily Times</i> 9 September 2017.</p> <p>Webster, Trudi, “Rare Birds on Promotion Duty at Airport”. <i>Otago Daily Times</i> 26 September 2017</p> <p>Webster, Trudi, “Kiwi, Penguins and Insects Facing Desiccation in Summer Weather”. <i>Morning Report</i>, Radio New Zealand 5 December 2017.</p> <p>Webster, Trudi, “Smalls Beach Clean-up”. <i>Otago Daily Times</i> 16 April 2018.</p> <p>Webster, Trudi, “Avian Malaria Increases Penguin Deaths”. <i>Otago Daily Times</i> 21 April 2018.</p> <p>Webster, Trudi, “Plan Needed to Halt Deaths of Penguins”. <i>Otago Daily Times</i> 8 May 2018.</p>
<p>Encourage the publication of collection-related content by external researchers.</p>	<p>Achieved</p> <p>14 publications by externals (12)</p>	<p>Yadav, A K, Tobias, Z J and Schmidt-Rhaesa, A (2018). “<i>Gordionus maori</i> (Nematomorpha: Gordiida), a New Species of Horsehair Worm from New Zealand”. <i>New Zealand Journal of Zoology</i> 45(1), 29-42.</p> <p>Lehnert, K, Randhawa, H, and Poulin, R (2017). Metazoan Parasites from Odontocetes off New Zealand: New Records. Parasitology research 116(10), 2861-2868.</p> <p>Presswell, B, Garcia-Varela, M and Smales, L R (2017). “Morphological and Molecular Characterization of Two New Species of <i>Andracantha</i> (Acanthocephala: Polymorphidae) from New Zealand Shags (Phalacrocoracidae) and Penguins (Spheniscidae) with a Key to the Species”. <i>Journal of Helminthology</i> 1-12.</p> <p>Rayment, W, Webster, T, Brough, T, Jowett, T and Dawson, S (2018). “Seen or Heard? A Comparison of Visual and Acoustic Autonomous Monitoring Methods for Investigating Temporal Variation in Occurrence of Southern Right Whales”. <i>Marine Biology</i> 165(1), 12.</p> <p>Bickel, D J and Kerr, D S (2018). “<i>Scorpiurus aramoana</i> (Diptera: Dolichopodidae), a New Species from New Zealand”. <i>Zootaxa</i> 4422(1), 78-84.</p> <p>Beer, A (2018). Ecology or Phylogeny: Which Determines the Parasitic Assemblages in Rajiformes (Skates)? (MSc dissertation, University of Otago).</p> <p>Rawlence, N J, Kardamaki, A, Easton, L J, Tennyson, A J, Scofield, R P and Waters, J M (2017). Ancient DNA and Morphometric Analysis Reveal Extinction and Replacement of New Zealand’s Unique Black Swans. <i>Proc. R. Soc. B</i>, 284(1859), 20170876.</p> <p>Webster, T (2018). “The Pathway Ahead for Hoiho Te Ara Whakamua. Impacts on Hoiho: Literature Review and Recommendations”. Yellow-eyed Penguin Trust, Dunedin, New Zealand.</p> <p>Jennings, C, Weisler, M and Walter, R (2018). “Colyers Island: Polynesia’s Southernmost Adze Manufacturing Complex”. <i>Archaeology in Oceania</i> 53(2): 116 – 127.</p> <p>Irwin, G, Johns, D, Flay, R G J, Munaro, F, Sung, Y and Mackrell, T (2017). “A Review of Archaeological Māori Canoes (Waka) Reveals Changes in Sailing Technology and Maritime Communications in Aotearoa/New Zealand AD 1300 – 1800”. <i>Journal of Pacific Archaeology</i> 8(2): 31 – 43.</p> <p>Brown, H and Norton, T (eds) (2017). <i>Tāngata Ngāi Tahu</i>. Wellington: Bridget Williams Books.</p> <p>West, J (2018). <i>The Face of Nature: An Environmental History of Otago Peninsula</i>. Dunedin: Otago University Press.</p> <p>Bundrick, Sheramy (2018). “Reading Rhapsodes on Athenian Vases”. pp. 76-97 in Ready, Jonathan Ready and Christos Tsagalis (eds), <i>Homer in Performance: Rhapsodes, Narrators, and Characters</i>. University of Texas Press.</p> <p>Clifford, A (2017). <i>New Zealand Trading Banks and Early Paper Currency</i>. New Zealand Banknote Guild, Auckland.</p>
<p>Facilitate and encourage research access and respond to public enquiries.</p>	<p>Achieved</p> <p>86 access requests received (101)</p> <p>75 completed (90)</p> <p>Humanities/Taoka Māori 68 received</p> <p>59 completed</p> <p>4 ongoing</p>	<p>Loan of three slides with diatoms from Middlemarch in the Sidney Rawson collection. Collected by Morris Watt to Victoria University and University of Otago researchers for research on speciation and identification of fossil plants.</p> <p>Loan of various fish species to Otago University researchers for dietary analysis.</p> <p>Loan of moa and kiwi skeletal material for morphometric measurements by the University of Otago and Montana State University researchers studying pelvic morphology of these birds.</p> <p>Loan of the remains of an Oligocene fossil penguin for morphometric examination by a University of Otago researcher.</p> <p>Loan of skeletal material of kākāpō, weka and Finsch’s duck for morphological examination to University of Otago researchers as reference material for identifying Te Papa’s specimen.</p> <p>Loan of various vertebrate and invertebrate species to an Otago Polytechnic artist for his artwork on conservation and preservation of our environment.</p> <p>Leopard seal sighting and collection data provided to NIWA scientists for a publication on reported leopard seal sightings.</p> <p>Images of various species from the collection provided to Wikimedia.</p>

	<p>Natural Science 18 received 16 completed 2 ongoing</p> <p>Humanities/Taoka Māori 117 public enquiries 41 IRFs</p> <p>Conservation 32 public enquires</p>	<p>Image of hoodwinker sunfish cast provided for publication in the children's book <i>The New Zoo: Meet the World's Newly Discovered Animals</i>. Image of hoodwinker sunfish provided to <i>New Zealand Geographic</i>. Sampling of scoria blocks from Tahiti and Kings Rock. Examination of Japanese armour elements and mokume-gane metalwork for jewellery making inspiration. Access to taoka from the New South Wales area as preparation for a public artwork installation. The loan of contextualised material from Mycenae for a fixed-term exhibition. Research into and documentation of Rapanui taoka received through exchange with the Bernice P Bishop Museum. Access to taoka from Arnhem Land by a visiting Arnhem Land artist. Examination of material donated by the Schoon family. Research into historic exchanges between OM and MAA. Group tour of C&T storage for a group of Home Science alumni. Images and measurements of the James Short telescope, for a model maker. Examination of the medals awarded to Captain James Dooley by a descendant. The loan of a scale model of the <i>Port Chalmers</i>. Examination of Niuean taoka by a PhD student at the University of Waikato. Examination of oceanic material received from the Royal Scottish Museum. 1920s to 1930s underwear for textiles inspiration by a Design student. Chinese shoes for bound feet, as part of the research for a symposium presentation. To see gifts to the Otago Museum from the Rapa Nui Repatriation Program Ka Haka Hoki Mai Te Mana Tupuna. Storage visit by the University of Otago CLTE 304 - dress as material culture class. 1852 to 1909 New Zealand military uniforms and accoutrements as part of research for a book. Examination of women's pre-1914 sportswear as part of research for a book on women's clothing. Photograph of an R N Field ceramic vase. Photographs of stone fishhooks from Rapanui. Photograph of the Kodak camera owned by Sir Edmund Hillary. Photographs of a bowl and stones from Makira. Photographs of Egyptian papyrus. Photograph of a Solomon Islands fishing kite. Photographs of a Greek krater. Photographs of an Athenian black-figure lekythos.</p>
<p>Deliver 20 presentations in-house and externally.</p>	<p>Achieved 23 presentations (38)</p>	<p>Burns, Emma, What's in a name? A dangerous, sordid and sexy natural history of how living things get named, U3A Alexandra, 9 March 2018. Burns, Emma, Victorian taxidermy – the Museum's living dead, Senior-Link, South Dunedin, 11 June 2018. Crane, Rosi, Skeletons in the attic, Staff Families Association, 3 August 2017 and the University Club, 4 August 2017 (2). Crane, Rosi, I am very badly in want of a book – building a 19th century museum library, University of Otago Centre for the Book Symposium: Books and Users, 28 November 2017. Crane, Rosi, Steamship natural history, Bon voyage? 250 years exploring the natural world, Liverpool, UK, 15 June 2018. Malthus, Jane, What were you wearing when the Queen visited in 1953? Victoria League, 6 February 2018. Malthus, Jane, The Queen's visit, 1953 – 54, Yvette Williams Retirement Village, 14 March 2018. Malthus, Jane, Amber Bridgman: bringing the past to the present, Zonta Club of Metropolitan Dunedin, 5 June, NCW, 6 June, Toitū Otago Settlers Museum, 28 June 2018. (3) Morris, Robert, The 21st century curator (panel chair), 2018 Museums Aotearoa conference, 23 May 2018. Phillips, Cody, Virtual tour of natural science galleries at Otago Museum, Senior-Link, South Dunedin, 29 June 2018. Wesley, Rachel, He wānanga – a conversation about repatriation in Aotearoa New Zealand (panel member), 2018 Museums Aotearoa conference, 23 May 2018. White, Moira, <i>SY Aurora</i> and the Otago Museum, U3A Alexandra, 2 March 2018. White, Moira, A sheltered nook of the main hall, University of Otago Centre for the Book Symposium: Books and Users, 28 November 2017.</p>

<p>Collections team contributes to the delivery of projects, exhibitions and programmes to engage our core audiences.</p>	<p>Achieved</p>	<p>White, Moira, Observations from underground to outer-space in the late 19th century, AHA2018 conference. Webster, Trudi, Science and the Yellow-eyed Penguin Trust, Yellow-eyed Penguin Symposium, Dunedin. Webster, Trudi (plus Tidey, E and Barber, M), Yellow-eyed penguin habitat mapping trial, New Zealand Coastal Society Conference, Tauranga, November 2017. Webster, Trudi, Increased prevalence of avian malaria in hoiho, 2018 Oamaru Penguin Symposium, 4 May 2018. Webster, Trudi, Yellow-eyed Penguin Trust and working with industry, New Zealand Federation of Commercial Fishermen Inc conference, Nelson, 31 May 2018. Webster, Trudi and Tidey, E, Characterisation of benthic foraging habitat for hoiho, Birds New Zealand Conference, Waitangi, 2 to 4 June 2018. Wesley, Rachel and Botting, Sam. Creating Tūhura. Public Communication of Science Technology Conference, Dunedin, 6 April 2018.</p> <p>Projects Papanui Inlet excavations, est. 1868, Rapa Nui Repatriation Program, Tūhura Treaty training for PS&E, waiata with staff, Taoka Digitisation Project, Tāngata Whenua gallery redevelopment, Pasifika 2017, facial reconstruction of the mummy, changeovers to <i>Surviving Chunuk Bair</i>.</p> <p>Exhibitions <i>Wai Ora Mauri Ora</i>, est. 1868, <i>Things Change: Martin Phillipps and The Chills</i>.</p> <p>Programmes Archaeology Week 2018, Te Wiki o Te Reo Maori 2017.</p> <p>Highlights Collection staff have been working on the 150th anniversary exhibition, est. 1868, which will display several hundred objects encompassing various areas of the Museum collection.</p> <p>The Collections team has been preparing items for loan to Dunedin artist David Elliot for an upcoming exhibition.</p> <p>With the Department of Conservation, Ngāi Tahu, and various conservation groups and researchers, the Natural Science team has been conducting research and investigating the cause of death of the leopard seal born at St Kilda, named Kana, as well as in organising and participating in necropsy, taxidermy and the acquisition of the remains of Kana.</p> <p>The Natural Science and Education teams were awarded PSP Funding Peripatus Schools Project – “if you build it will peripatus come?”</p> <p>Otago Museum continues to collaborate on the Ahi Pepe MothNet project, providing data, conducting tours for school groups, and publishing articles in popular media.</p> <p>The Collections team has been preparing for the Society for the Preservation of Natural History Collections (SPNHC) and Taxonomic Databases Working Group (TDWG) conference hosted by the Museum from 25 August to 1 September.</p> <p>More than 900 specimens donated to the Museum by Honorary Curator Tony Harris have been catalogued.</p>
<p>1.2 We will strategically develop our collections</p> <p>Develop our collections, in-line with our Collection Strategy.</p>	<p>Achieved</p> <p>70 new acquisitions (62)</p>	<p>62 Humanities items 8 Natural Science items 0 Māori items</p> <p>Humanities acquisitions include: Maud Short's 1894 sewing sampler (G2017.19).</p>

		<p>Set of hand sewn baby clothes made in 1928 (G2017.22 a-p). Group of nine British Red Cross medals (F2017.36). Tanya Carlson wedding outfit with Lindsay Kennett hats (G2017.20-1). Mid 20th century ski pants, jacket, hat, gloves and goggles (G2017.26-30). 1950s Adam Smith trousers and skirt; plus two shirts and two belts with which the skirt was worn (G2017.23-5; 31-3). Photograph of G2016.2 being worn. Chinese clothing - one jacket and two pairs of shoes (D2017.26-8). Ten West African textiles acquired by donor in West Africa in the 1970s (D2018.5-14). Mid 20th century silver fox fur cape made by Dunedin furrier (G2017.34). 1950s Catalina label bathing suit (G2017.35). Short-sleeved silk christening gown with scalloped hem and band of coloured smocking (G2017.38). One Federal Pacific Hotels mending booklet; one packet of "Economy Transfers" (G2017.36-7). Six hats, owned and worn by Maude Bradley. Handmade personal copy of "Otago Museum Parade of Fashion" (G2017.9). 1967 "Beau Catcher" minidress in psychedelic patterned fabric; 1970s dark green "County" leather jacket (G2018.7-8). One kete, three maro, two lengths of cord and a piece of barkcloth (D2018.15-21). A carved piece of wood, piece of obsidian, piece of coral and worked stone with bag from the Rapa Nui Repatriation Program Ka Haka Hoki Mai Te Mana Tupuna (D2018.52-56). Machine-made lace souvenir of the 1925 – 1926 New Zealand and South Seas Exhibition, Dunedin. Nagajyuban (under-kimono) with shiyyuhatte design. Three Benhar figurines. (Attrib.) Benhar bowl (D2018.57).</p> <p>Natural Science acquisitions include: New species of fly named after Aramoana, where they were found. Mouth cast of the leopard seal pup born at St Kilda Beach created by University of Otago researchers. This can be used in the oral study of leopard seals and is a record of the rare birth of this pup on mainland New Zealand. 55 specimens from the phylum Acanthocephala, obtained from spotted and Stewart Island shags, including paratypes. Mount of endangered kākāpō bird.</p>
<p>1.3 We will care for our collections</p> <p>Assess, and when necessary, treat items in tandem with priority collections surveys, development projects, exhibitions and programmes.</p>	<p>Achieved</p> <p>100 675 assessments and/or treatments (69 743)</p>	<p>100 675 assessments and/or treatments were carried out on collection items by Conservation staff. These were made up of 52 605 assessments and 48 070 treatments.</p>
<p>Maintain and develop preventive conservation programmes that apply to all collections.</p>	<p>Achieved</p>	<p>The team has been primarily focused on integrated Pest Management with emphasis on the natural science dry store, as well as staff training and housekeeping activities. New compactor shelving has been installed in the European furniture store to replace the old and unstable wooden shelving. The albatross located above the escalators at Dunedin Airport was temporarily removed and cleaned for the first time in several years. The team has undertaken an assessment of the archaeological metals collection with a view to altering and improving storage. A project has also been undertaken to document and monitor collection items on open display within the Museum more efficiently. Work is ongoing around the education collections to ensure appropriate cataloguing, numbering and storage going forward.</p>

<p>1.4 We will excel at researching and interpreting our collections.</p>	<p>Achieved</p>	<p>Otago Museum has appointed a new Honorary Curator, Dr Bronwen Presswell, who is a parasitologist associated with the Evolutionary and Ecological Parasitology lab at the University of Otago. Dr Presswell has been cataloguing parasite specimens for over nine years, conducting genetic and taxonomic identifications, and sorting specimens to send to the Museum following publication in scientific journals.</p> <p>More than 900 specimens donated by Honorary Curator Anthony Harris have been catalogued.</p> <p>The Natural Science team consists of four Honorary Curators who are regularly engaged in science communication, publications, and research into the Otago Museum collection.</p> <p>Natural Science Honorary Curator Peter Schweigman retired in January this year due to family commitments. He has been working on the bird egg collection for the past three years.</p> <p>Jane Malthus delivered talks on aspects of dress design and history to Zonta Metropolitan, NCW, Yvette Williams Retirement Village and the Victoria League.</p> <p>The Natural Science team has been supporting the work of volunteer Steve Kerr, who has been cataloguing the entomology collection for the past year. Kerr published a paper about a new species of fly he discovered at Aramoana which received widespread publicity in the media.</p> <p>Intern Jerusha Bennett has been working with Honorary Curator Bronwen Presswell to curate and sort the parasitology collection she is donating to the Museum.</p> <p>Nora Schlenker has been working on archiving newspaper articles dating back to 1919 that record the history of the Otago Museum. Articles from 1919 to 1968 have been photographed, and those from 1919 to 1968 transcribed.</p> <p>18 volunteers contributed to the Taoka Digitisation Project, helping to reach the goal of digitising 20 000 Māori taoka.</p> <p>Four university interns contributed to the work of the Humanities team, including two from Scandinavia.</p>
<p>GOAL 2: ENGAGE WITH OUR COMMUNITY AND STAKEHOLDERS</p>		
<p>2.1 We will be a valued community resource.</p>	<p>Achieved</p> <p>353 422 visitors to Museum (353 439)</p> <p>The camera door counter has trouble counting small children and has been calibrated to undercount as a preference to overcounting.</p>	<p>Despite the four-month closure of Discovery World Tropical Forest, the <i>Permian Monsters</i> exhibition and the new Tūhura Otago Community Trust Science Centre has assisted with maintaining visitor numbers.</p>
<p>Offer free admission to the Museum.</p>	<p>Achieved</p> <p>Free entry to Museum</p>	<p>Free exhibitions <i>Art + Genetics</i> displayed in the H D Skinner Annex from 4 July to 16 July. <i>Burma Express</i> displayed in the H D Skinner Annex from 24 November to 12 December.</p>

	<p>4 free exhibitions (3)</p> <p>23 100 people participated in public engagement programmes and events (18 300)</p>	<p>20 676 people visited the <i>2018 Otago Wildlife Photography Exhibition</i>, which opened on 24 March. <i>Things Change: Martin Phillipps and The Chills</i> opened in the H D Skinner Annex on 22 June.</p> <p>Displays of note</p> <p>Capture Science Photography Competition displayed on Atrium Level 1 in July.</p> <p>Creative Pasifika on Atrium 1 in September.</p> <p><i>Wai Ora Mauri Ora: Healthy People, Healthy Environments</i> on Atrium 2 from 16 February to 29 April.</p> <p>The Museum provided 93 public engagement opportunities in the form of programmes and events that engaged 19 900 visitors. 76 of these were free. In addition, the Museum developed and delivered three in-house science programmes – Pop-up Science x 2 and A Monstrous Time! Life and Death in the Permian science show – that were free of charge and reached 3200 visitors during school holidays.</p>
<p>Measure value delivered to our core audience through the DCC Satisfaction Survey.</p>	<p>Achieved</p>	<p>The DCC Residents' Opinion Survey 2017/18 recorded 95% overall satisfaction with the Otago Museum*. Since 2012, the Museum has scored between 95% and 96% in this survey, which measures residents' satisfaction for services and facilities provided by, or funded by the Dunedin City Council, including museums and galleries. Carried out annually and independently of the Museum, the margin of error is +/- 2%.</p> <p>*DCC, personal communication. The 2017/18 results have not yet been released to the public.</p>
<p>Undertake targeted audience research to enable us to quantify and qualify the behaviours and composition of our audiences.</p>	<p>Achieved</p>	<p>Ongoing visitor research implemented online via SurveyMonkey.</p> <p>Visitor comment cards enable Museum visitors to leave comments and opinions. Comments are tracked by Marketing and, where necessary, passed to relevant departments.</p> <p>A mystery visitor survey of science programmes during the July 2017 school holiday showed that 86% of visitors were "extremely satisfied" with the overall experience. 100% of respondents would recommend the programme to friends, and return themselves.</p>
<p>Deliver targeted programmes and services to Dunedin City Council and Waitaki, Clutha, and Central Otago District Councils.</p>	<p>Achieved</p> <p>Science Engagement: see commentary.</p> <p>Conservation: see commentary.</p> <p>Exhibitions: 3.</p>	<p>Science Engagement</p> <p>An extensive programme of science outreach was delivered to more than twenty communities across Otago, reaching more than 21 814 residents. This included utilising the Lab in a Box mobile outreach platform, together with science outreach at A and P Shows, festivals and other community events, and visits to individual schools. By local authority district, these engaged the following number of people:</p> <p>Dunedin City Council Lab in a Box: 345. Festivals, events and school-based outreach: 15 700. Total: 16 045.</p> <p>Waitaki District Lab in a Box: 131. Festivals, events and school-based outreach: 1824. Total: 1955.</p> <p>Clutha District Lab in a Box: 57. Festivals, events and school-based outreach: 707. Total: 764.</p> <p>Central Otago District Lab in a Box: 2530. Festivals, events and school-based outreach: 520. Total: 3050.</p> <p>Conservation</p> <p>The team delivered six Science Kids laboratory sessions as part of the larger Science Kids programme, hosted three snack sessions in support of the University's Hands-On at Otago programme, and provided conservation and pit digging activities during New Zealand Archaeology Week. (Details of regional museum support listed below.)</p>

		<p>Exhibitions The <i>2017 Otago Wildlife Photography Exhibition</i> was installed at Cromwell Museum. The Design team supplied vinyl graphics to Central Stories Museum and Art Gallery, and designed and provided Owaka Museum with an interpretation panel.</p>
<p>Complete and launch Discovery World Stage 2.</p>	<p>Achieved</p>	<p>The Tūhura Otago Community Trust Science Centre officially opened on 15 December. The \$2.5m investment has proved extremely popular with excellent feedback, and visitor numbers exceeding that achieved by its predecessor, Discovery World Tropical Forest.</p>
<p>Deliver conservation and professional services to five regional museums and other collections.</p>	<p>Achieved 200 hours offered to six regional museums or historic collections</p>	<p>A workshop on caring for taoka was run at the Ōtākou Marae Museum, with a second workshop on the care of textiles, paper and photographs run at the Marae for an important family reunion.</p> <p>Remedial work carried out on items belonging to Cromwell Museum, South Otago Museum, North Otago Museum, and Olveston Historic Home.</p> <p>Two days at the North Otago Museum assessing the museum's military medal and weaponry as part of preparations for future museum displays, plus a training day on basic surface cleaning of museum objects for staff.</p> <p>In addition to the agreed annual hours, the team ran a training day on object handling and object storage for staff, volunteers and trustees at Invercargill Public Art Gallery.</p> <p>The Conservation Manager met with staff from the University's anatomy and pathology collections and Heritage New Zealand's Otago/Southern regional archaeologist Matt Schmidt to discuss the possibilities of working more closely together, either through the sharing of skills and knowledge, or the provision of direct conservation services.</p> <p>The Conservation Manager was involved in the lifting and conservation of material excavated from cemeteries in Lawrence with Professor Hallie Buckley and Peter Petchey.</p> <p>Two training days were delivered to Clyde Museums around assessing the significance of collections.</p> <p>The team hosted two staff from Southland Museum and Art Gallery as part of a skills sharing visit around museum storage and movement.</p> <p>The Conservation Manager attended meetings with the new chair of the South Otago Museum, the Central Otago Heritage Trust, and staff from the Central Otago District Council and the Central Lakes Trust in regard to various aspects of heritage planning and support around the district.</p> <p>The Conservation Manager spent two weeks in Samoa and Papua New Guinea as part of a fully funded Ministry of Foreign Affairs and Trade/New Zealand Institute for Pacific Research grant. Time was spent with staff from the National Museum of Samoa and the National Museum and Art Gallery of Papua New Guinea, as well as with government and ministerial staff, with the aim of building connections and networks.</p>
<p>Share our plans and results with our staff, stakeholders, partners and communities.</p>	<p>Achieved</p>	<p>Staff were kept informed through regular staff briefings and intranet posts. The Museum's plans, programmes, events, exhibitions and results were shared with stakeholders and the public through email newsletters, blog posts, social media posts and media releases. Strategic planning and reporting was published online and in hard copy through two-monthly Board Reports, the Otago Museum Annual Plan 2017 – 2018 and the Otago Museum Annual Report 2016 – 2017.</p>
<p>2.2</p>	<p>We will encourage interaction on-site, off-site and online:</p>	

<p>Open one premier exhibition relating to our collections and/or community.</p>	<p>Achieved 5 exhibitions opened (3)</p>	<p>Art + Genetics displayed in the H D Skinner Annex from 4 July to 16 July. Life Before Dinosaurs: Permian Monsters ran from 26 August to 25 February with 25 341 tickets sold. Burma Express displayed in the H D Skinner Annex from 24 November to 12 December. 2018 Otago Wildlife Photography Exhibition opened 24 March. Things Change: Martin Phillipps and The Chills opened in the H D Skinner Annex on 22 June.</p>
<p>Engage in new collaborations and foster ongoing partnerships across Otago and New Zealand.</p>	<p>Achieved</p>	<p>Collections, Research and Education A new facial approximation of the Egyptian mummy was installed at the end of the year. Dr Louisa Baillie undertook the physical work in a collaborative project with the Anatomy Department at the University of Otago. This involved re-examining the CT scans taken in 2000, creating a new model of the mummy's skull, sculpting clay to appropriately represent her facial muscle and fat, and then adding a silicon skin. The size and shape of her nose, lips, eyes and ears were determined using current, internationally tested guidelines. The colours of her skin, hair and eyes were also altered. The resulting approximation is on display in the People of the World gallery. Dr Siân Halcrow, John Dennison, Andrew McNaughton and Steve Swindells kindly contributed their expertise and assistance. Zaibatsu Hair Art styled the wig that was donated by Freedom Hair.</p> <p>Design The Design team collaborated with Otago Polytechnic School of Design Year 3 Communication Design students for their Interaction Design paper over six weeks. Students presented design solutions for topics such as social media engagement, wayfinding, tours, a mobile museum and engaging experiences. The team also collaborated with six Year 3 Design students for multimedia installations in <i>Things Change: Martin Phillipps and The Chills</i>. The exhibition <i>Wai Ora, Mauri Ora: Healthy People, Healthy Environments</i> was developed in collaboration with the University of Otago's Centre for Science Communication and Te Koronga - Indigenous Science.</p> <p>Science Engagement The team established and built on a large array of partnerships with organisations from across New Zealand to deliver local, regional and national programmes of science outreach. Partnerships included:</p> <p><i>Far from Frozen</i> showcase:</p> <ul style="list-style-type: none"> • Antarctica New Zealand • New Zealand Antarctic Research Institute • Antarctic International Centre • University of Otago <p>Lab in a Box outreach:</p> <ul style="list-style-type: none"> • University of Otago, Physiology Department • University of Otago, Physics Department • Genetics Otago • University of Otago, Microbiology Department • Victoria University of Wellington <p>Other outreach partners:</p> <ul style="list-style-type: none"> • Dodd-Walls Centre for Photonics and Quantum Technologies (DWC) outreach • MacDiarmid Institute • University of Auckland • Dunedin Astronomical Society • Dunedin Electric Vehicle Owners Group; Dunedin early childhood education centres; Centre for Space Science Technology <p>Participatory Science Platform (PSP) community research engagement programme:</p>

- University of Otago
- Otago Polytechnic
- New Zealand International Science Festival
- Ngāi Tahu
- Catalyst Trust
- Touchstone Trust
- Naseby Vision
- The Valley Project
- Rural Education Activities Programme

Public Programmes

The Otago Museum is a key stakeholder and collaborator with the Wild Dunedin Festival, which continues to grow each year. Contributions to the 2018 festival covered a wide range of age groups and interests including Makerspace activities, public talks, a live broadcast of Radio New Zealand's *Critter of the Week*, podcasts, a nature photography workshop, and the hosting of the 7x7 festival launch featuring Jesse Mulligan.

The team has continued to collaborate on events and strengthen relationships with the Royal Society Te Apārangi, the Otago Institute, Canon, local photographers and wildlife experts, the New Zealand Archaeological Association, Hot Yoga Dunedin, the Neurological Foundation of New Zealand, Brain Health Research Centre, Arts Access Aotearoa and the DCC events team.

The team has also fostered a new relationship with master weaver Emma Keshu and the Dunedin Multicultural Weavers Association, which links to the Pacific Cultures gallery and has enabled visitors to learn the art of weaving at their own pace. A new collaboration with the Dunedin Writers and Readers Festival has brought a new visitor base to the Museum and contributed a number of sold-out events.

Continue to develop online audience engagement through website, blog and social media activity.

Achieved

Museum website activity	1 July 2017 – 30 June 2018	1 July 2016 – 30 June 2017	% change
Sessions	154 024	143 055	7.67%
Users	102 818	95 955	7.15%
New users	100 169	95 191	5.23%
Number of sessions per user	1.5	1.49	0.48%
Bounce rate	50.07%	51.51%	-2.80%
Avg session durations	0.02.01	0.02.11	-7.88%
Page views	502 872	447 954	12.26%
Pages per session	3.26	3.13	4.27%

		<table border="1"> <tr> <td>Facebook</td> <td>At 30 June 2018</td> <td>At 30 June 2017</td> </tr> <tr> <td>Followers</td> <td>6678</td> <td>4957</td> </tr> <tr> <td>Page likes</td> <td>6708</td> <td>5084</td> </tr> </table>	Facebook	At 30 June 2018	At 30 June 2017	Followers	6678	4957	Page likes	6708	5084
Facebook	At 30 June 2018	At 30 June 2017									
Followers	6678	4957									
Page likes	6708	5084									
	<p>Post Reach The number of people who had any posts from your Page enter their screen.</p> 	<p>55 articles were posted on the Museum Blog. These promoted events and programmes, provided insight into objects held in the Museum collection, introduced readers to members of staff and explored the science behind some of Tūhura's new interactives.</p>									
<p>GOAL 3: INSPIRE LIFELONG LEARNING</p>											
<p>1. We will deliver inspiring educational experiences in science, nature and culture:</p> <p>Deliver effective curriculum-linked education programmes to at least 5000 students, leveraging LEOTC and the Perpetual Guardian Reach for the Stars educational fund.</p>	<p>Achieved</p> <p>9754 LEOTC with 1624 accompanying adults</p> <p>1891 Non-LEOTC with accompanying adults</p> <p>13 100 attending all education programmes</p>	<p>Education programmes were delivered to over 9754 students and 1624 adults this year through the Ministry of Education LEOTC programme.</p> <p>Under the Museum's education programme 13 100 students and accompanying adults participated in programmes including LEOTC, non-LEOTC, preschool, sleepovers, tertiary, and external family science and technology events. Adult participation was calculated on the required ratio asked by Otago Museum of visiting groups. Adults are included in the figures as these programmes are valuable in providing shared learning experiences for caregivers and educators as well as the participating children.</p> <p>The programmes offered include Ministry of Education-funded LEOTC, and non-LEOTC experiences, including the Reach for the Stars programme funded by Perpetual Guardian, which allowed free access into specially produced curriculum-based planetarium shows:</p> <ul style="list-style-type: none"> • 68 learning programmes offered to teachers in the Otago/Southern region through the Education team's website. • Three sleepover options offered. 									

<p>Develop and deliver science engagement opportunities to visitors, communities across Otago and nationally, both directly and in partnership with other organisations.</p>	<p>Achieved</p>	<ul style="list-style-type: none"> • Three online video resources offered. <p>Educational programmes and learning experiences are also offered at schools, for pre-schools and online.</p> <p>An extensive programme of science engagement was delivered in over twenty communities across Otago to more than 21 814 residents. This included utilising the Lab in a Box mobile outreach platform, together with science outreach at A and P Shows, festivals and other community events, as well as visits to individual schools. Feedback, demand for return visits, and evaluative surveys attest to positive reception and impact.</p> <p>Through its partnership with the Dodd-Walls Centre, the Science Engagement team delivered a series of science shows in Wellington, the Wairarapa, Auckland and the Chatham Islands.</p> <p>The Museum, in association with Antarctica New Zealand, the University of Otago and the New Zealand Antarctic Research Institute (and with support from the Ministry of Business, Innovation and Employment's (MBIE) Unlocking Curious Minds fund), developed and delivered <i>Far From Frozen – Antarctica and Us</i>. The showcase was hosted in three venues in Canterbury, where it engaged more than 20 000 visitors in collaboration with Canterbury Museum and the International Antarctica Centre.</p> <p>The Museum also continued to lead the Otago Participatory Science Platform (PSP). The PSP brings scientists and community groups together to undertake collaborative research projects that have both scientific and community value outcomes. Otago Museum manages the PSP via Otago Science Into Action (OSIA). OSIA is a collaborative partnership with the Otago Polytechnic, University of Otago, Kāi Tahu, and the New Zealand International Science Festival, and is funded through MBIE. The platform engages with students, kura, schools, Māori collectives and organisations, businesses and community-based organisations. Over a dozen new community-led research projects were supported through PSP investment over the 2017 – 2018 year.</p> <p>Perpetual Guardian Reach for the Stars programmes supported low decile and rural students and communities in curriculum-based planetarium shows.</p>
<p>Deliver inspiring community programmes to engage more audiences in lifelong learning experiences of science, nature and culture.</p>	<p>Achieved</p>	<p>Community programmes encompassed live performances, expert talks, gallery trails, craft and creative activities, specialised themed tours, family fun days, demonstrations, workshops and field trips. 93 individual programmes were delivered to over 19 900 visitors.</p> <p>Collections, Research and Education</p> <p>CR+E staff delivered two of the four talks given by the Otago Museum at USA Alexandra in March 2018.</p> <p>Science Engagement</p> <p>More than 36 000 visitors were engaged in a range of in-house science programming (paid and unpaid) which catered for all age ranges. Programmes included First Flight butterfly releases, which were delivered to 11 944 people; Meet our Forest Giants - Goliath Stick Insects; A Monstrous Time! Life and Death in the Permian science show; Pop-up Science; Explorations; Terrapins' Tucker Time; and Equinox Stargazing.</p> <p>A range of evening shows in the Perpetual Guardian Planetarium were initiated that catered to new audiences and included showcasing science themed shows such as <i>The Theory of Everything</i>, <i>Alien</i>, the Indiana Jones trilogy, <i>Behind the Scenes at the Planetarium</i> and Yuri's Night. The Museum also showed its support for International Women's Day with an evening screening of the film <i>Hidden Figures</i>.</p>
<p>GOAL 4: BUSINESS SUSTAINABILITY</p>		
<p>4.1</p>	<p>We will secure and future-proof the Museum's financial position and business model:</p>	

<p>55 000 paid admissions to the Tropical Forest (9 months' operation due to redevelopment).</p>	<p>Achieved</p> <p>63 975 paid admissions</p>	<p>63 975 visitors as well as the sale of annual passes that could be used multiple times.</p>
<p>25 000 paid admissions to Perpetual Guardian Planetarium.</p>	<p>Not Achieved</p>	<p>21 278 visitors experienced the Perpetual Guardian Planetarium including:</p> <ul style="list-style-type: none"> • 17 356 to regular public shows • 3382 to education programmes • 540 to Venues-hosted functions <p>The opening of the Tūhura Otago Community Trust Science Centre has affected the numbers of visitors to the planetarium, along with the blockbusting <i>Life Before Dinosaurs: Permian Monsters</i> exhibition.</p>
<p>Develop and maintain key business partnerships.</p>	<p>Achieved</p>	<p>Contracted commitments include:</p> <ul style="list-style-type: none"> • Genetics Otago MBIE • The Dodd-Walls Centre • MBIE • MBIE Unlocking Curious Minds for Science Outreach (science playground) • MBIE Unlocking Curious Minds for Extreme Science – Taking Science to the Chathams <p>Lab in a Box – Science Communications Science communications delivery contract Participatory Science Platform contact delivered delivered delivered delivered delivered</p>
<p>Develop and promote the Museum as a conference and events centre.</p>	<p>Achieved</p>	<p>Marketing was carried out through Google AdWords, Facebook, the <i>Otago Daily Times</i> and attendance at the MEETINGS trade show in May 2018.</p> <p>Highlights:</p> <ul style="list-style-type: none"> • The opening of the Tūhura Otago Community Trust Science Centre has provided an exciting new space for functions and events. • 21 211 guests attended functions or events at Museum venues. • 252 external bookings (some were multi-day bookings). • Conferences hosted include the Australian Planetarium Society Conference and the New Zealand Institute of Physics Conference 2017.
<p>Be open and accessible in financial reporting to all stakeholders.</p>	<p>Achieved</p> <p>Audited financial accounts made public through the audited Annual Report on Otago Museum website.</p>	<p>The Museum followed the processes outlined in the Otago Museum Trust Board Act 1996 for consultation on Annual Plan and Annual Report. The Annual Plan and Annual Report are available online and also in print on request. The financial position of the Museum is reported through the Otago Museum Trust Board on a two-monthly basis. The Museum Director reports directly to contributing local bodies.</p>
<p>Optimise current commercial opportunities to sustain and grow financial contribution of Museum operations.</p>	<p>Achieved</p>	<p>The new pricing model for the Tūhura Otago Community Trust Science Centre has proved successful with income over the operating period increasing by 56%. The introduction of an annual pass has provided a new income stream for the Museum while ensuring that our regular customers benefit from annual membership pricing.</p>

4.2	We will develop and maintain quality spaces fit for purpose:	Achieved	The first stage of improvements was completed in time for the launch of the new Tūhura Otago Community Trust Science Centre with a completely refreshed visitor experience. A new roof is planned in 2019.
Complete upgrade of Tropical Forest.	Achieved	The first stage of improvements was completed in time for the launch of the new Tūhura Otago Community Trust Science Centre with a completely refreshed visitor experience. A new roof is planned in 2019.	
Continue environmental and controlled natural light penetration assessment and improvements in galleries.	Not Achieved	No work undertaken this year.	
Undertake earthquake mitigation measures in Collection stores.	Achieved	New metal compactor shelving was installed in the European furniture store to replace unsuitable wooden racking. Lockable doors and compactor shelving locks were purchased for Collections to improve earthquake integrity in several other stores. These upgrades form part of the first year of a five-year plan to improve collection stores.	
Undertake health and safety improvements to Atrium Level One.	Achieved	Balustrades are complete for Atrium 1 and 2. The new balustrades comply with the current building code.	
Upgrade fire protection in galleries as required.	Achieved	This is progressing as part of a five-year programme.	
4.3	We will operate sustainably:		
Reduce greenhouse gas footprint – 2% reduction.	Not Achieved	The hot summer resulted in additional energy being used to help dehumidify and cool the Museum. The opening of the Tūhura Otago Community Trust Science Centre added extra demand, as most of the interactives require power. As part of CEMARS, measures taken to reduce the greenhouse gas footprint include replacing the gas boiler (the new model is 16% more efficient), and installing LED fluorescent lights in all office spaces, the basement, the Friends' Room, and workshop.	
Retain Carbon certification and comply with international best practice.	Achieved	We still hold our CEMARS certification (Certified Emissions Measurement And Reduction Scheme), having accurately measured and reported our greenhouse gas emissions in accordance with international standards to calculate our overall carbon footprint.	
75% of vehicle fleet able to operate at zero emissions.	Not Achieved	40% of vehicles can operate at zero emission.	
Invest in double glazing of the Museum.	Not Achieved	None installed in last 12 months	
Upgrade lighting to LED – 3%.	Achieved	In the past 12 months there has been LED improvement of +/- 5%. LED lighting has been installed in office spaces, the basement, the Friends' Room, and the workshop.	
4.4	We will build and sustain professional expertise and knowledge across the organisation:		
Improve permanent staff retention by 5%.	Not achieved. Retention rate is 79.5% (83.2%)	Retention of permanent staff improved by 1.3% from the previous year. However, it improved 6.4% from the 2016 – 2017 projected retention rate.	

<p>Develop staff through professional mentoring and training.</p>	<p>Achieved 142 development opportunities were taken up (264)</p>	<p>Staff attended a wide range of conferences and professional training opportunities including the National Digital Forum, Citizen Science Symposium, Museums Aotearoa conference, Curating Contemporary Māori Art symposium and Māori Graphic Design workshop.</p>
<p>Maintain ACC Tertiary Status health and safety accreditation.</p>	<p>N/A</p>	<p>The ACC (wsmg) audit no longer exists</p>

Appendix 2

OTAGO MUSEUM TRUST BOARD

**Annual Report for the Financial Year
Ended 30 June 2018**

OTAGO MUSEUM TRUST BOARD
FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018

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**OTAGO MUSEUM TRUST BOARD
STATEMENT OF RESPONSIBILITY
For the Financial year ended 30 June 2018**

We are responsible for the preparation of the Otago Museum Trust Board's financial statements and statement of performance, and for the judgements made in them.

We have the responsibility for establishing and maintaining a system of internal controls designed to provide reasonable assurance as to the integrity and reliability of financial reporting.

In our opinion, these financial statements and statement of performance fairly reflect the financial position and operations of the Otago Museum Trust Board for the year ended 30 June 2018.

On behalf of the Otago Museum Trust Board



Chairperson



Board Member

6/11/2018

Date

**OTAGO MUSEUM TRUST BOARD
STATEMENT OF FINANCIAL PERFORMANCE
For the Financial year ended 30 June 2018**

	Notes	2018 \$	Budget \$	2017 \$
Grants-Government & Other		749,875	832,474	970,458
Local Authorities		4,180,512	4,184,143	4,102,101
Public		3,131,184	2,940,266	2,768,812
Fundraising		-	800,000	500,000
Legacies & Bequests		360	360	360
Investment Revenue		140,674	-	132,857
- Dividends				
- Interest		192,534	469,016	264,320
Realised Net Gains on Sale of Financial Instruments	15(a)	-	-	36,751
Total Revenue	2	8,395,139	9,226,259	8,775,659
Expenditure				
Employee Benefits Expense	3(a)	(4,789,867)	(4,800,332)	(4,511,668)
Depreciation & Amortisation Expense		(1,429,449)	(959,889)	(1,343,592)
Other Expenses	3(b)	(3,374,028)	(4,004,466)	(3,388,330)
Realised Net Loss on Sale of Financial Instruments	15(a)	(25,894)	-	-
Valuation Loss on Derivatives	15(a)	-	-	(14,900)
Total Operating Expenditure		(9,619,238)	(9,764,687)	(9,258,490)
Surplus/(Loss) for the year		\$ (1,224,100)	\$ (538,428)	\$ (482,831)

The accompanying notes form an intergrated part of these financial statements.

**OTAGO MUSEUM TRUST BOARD
STATEMENT OF COMPREHENSIVE REVENUE & EXPENSES
For the Financial year ended 30 June 2018**

	Notes	2018 \$	2017 \$
Other Comprehensive Revenue & Expense			
Available-for-sale financial assets valuation gain/(loss)	15(a)	658,688	378,538
Total Other Comprehensive Revenue & Expenses (Net of Tax)		658,688	378,538
Surplus/(Loss) for the year		(1,224,100)	(482,831)
Total Comprehensive Revenue & Expense for the Year		\$ (565,412)	\$ (104,293)

The above statement of financial performance & statement of comprehensive revenue & expenses should be read in conjunction with the accompanying notes.

**OTAGO MUSEUM TRUST BOARD
STATEMENT OF FINANCIAL POSITION
As at 30 June 2018**

	Notes	2018 \$	Budget \$	2017 \$
Cash & Cash Equivalents	20(a)	1,467,515	321,042	903,346
Trade & Other Receivables	7	369,876	198,672	266,154
Inventories	8	219,372	175,482	239,200
Other Financial Assets	9	2,840,602	1,521,330	6,072,932
Other Current Assets	10	42,676	-	34,617
Total Current Assets		4,940,040	2,216,527	7,516,249
Non-Current Assets				
Other Financial Assets	9	5,651,551	4,177,134	5,459,279
Property, Plant & Equipment	11	16,881,887	20,006,338	15,233,850
Intangible Assets	12	11,137	-	22,273
Total Non-Current Assets		22,544,575	24,183,472	20,715,402
Total Assets		27,484,615	26,399,999	28,231,651
Current Liabilities				
Trade & Other Payables	13	1,006,309	732,150	1,169,429
Employee Entitlements	14	320,324	-	338,828
Total Current Liabilities		1,326,633	732,150	1,508,257
Total Liabilities		1,326,633	732,150	1,508,257
Net Assets		26,157,983	25,667,849	26,723,394
Equity				
Reserves	15	12,380,064	10,952,658	13,685,805
Accumulated Surplus/Deficit	16	13,777,919	14,715,191	13,037,589
		26,157,983	25,667,849	26,723,394

The above statement of financial performance & statement of comprehensive revenue & expenses should be read in conjunction with the accompanying notes.

**OTAGO MUSEUM TRUST BOARD
STATEMENT OF CHANGES IN EQUITY
For the Financial year ended 30 June 2018**

	2018 \$	Budget \$	2017 \$
Equity at Beginning of Year	26,723,394	26,206,286	26,827,687
Total Comprehensive Revenue & Expenses	(565,412)	(538,437)	(104,293)
Equity at End of Year	\$ 26,157,983	\$ 25,667,849	\$ 26,723,394

The above statement of financial performance & statement of comprehensive revenue & expenses should be read in conjunction with the accompanying notes.

OTAGO MUSEUM TRUST BOARD
CASH FLOW STATEMENT
For the Financial year ended 30 June 2018

	Notes	2018 \$	Budget \$	2017 \$
Cash Flows to/from Operating Activities				
Government, Local Authorities & the Public		8,210,425	8,744,381	8,260,420
Dividends		140,674	-	132,857
Interest Received		148,849	469,016	266,949
Payments to Employees		(4,808,371)	(4,800,332)	(4,529,153)
Payments to Suppliers		(3,859,223)	(3,945,129)	(3,273,684)
Net Cash Inflow/(Outflow) from Operating Activities		<u>(167,646)</u>	<u>467,936</u>	<u>857,389</u>
Cash Flows to/from Investing Activities				
Proceeds from Maturity & Sale of other Financial Assets		4,030,535	3,500,000	1,029,912
Proceeds from Sale of Property, Plant & Equipment		-	-	-
Purchase of Property, Plant & Equipment		(2,966,931)	(3,968,597)	(1,026,016)
Purchase of Other Financial Assets		(331,789)	-	(477,667)
Net Cash Inflow/(Outflow) from Investing Activities		<u>731,815</u>	<u>(468,597)</u>	<u>(473,771)</u>
Net Increase/(Decrease) in Cash & Cash Equivalents		564,169	(661)	383,618
Cash & Cash Equivalents at the Beginning of the Financial Year		903,346	321,702	519,724
Cash & Cash Equivalents at the End of the Financial Year	20(a)	<u>\$ 1,467,515</u>	<u>\$ 321,042</u>	<u>\$ 903,346</u>

Cash flows from financing activities have not been separately identified in the Statement of Cash Flows as there are no transactions that are considered to be classified as financing activities.

The above statement of financial performance & statement of comprehensive revenue & expenses should be read in conjunction with the accompanying notes.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

1 STATEMENT OF ACCOUNTING POLICIES

Reporting Entity

The Otago Museum Trust Board (“the Museum”) is a special-purpose local authority constituted under the Otago Museum Trust Board Act, 1996.

The Otago Museum Trust Board administers the Otago Museum which is a non-profit making permanent institution, founded by the people of Otago for the service and development of their community with a particular responsibility for the natural and scientific heritage of the Otago region. The Museum has designated itself as a public benefit entity (PBE) for reporting purposes.

Statement of Compliance

These financial statements have been prepared in accordance with NZ GAAP. They comply with Tier 2 PBE (RDR) accounting standards on the basis the Museum is not considered publically accountable or large with expenditure under \$30 million per annum. All available disclosure concessions have been applied.

Basis of Preparation

The preparation of financial statements in conformity with Tier 2 PBE accounting standards requires management to make judgements, estimates and assumptions that affect the application of policies and reported amounts of assets and liabilities, revenue and expenses. The estimates and associated assumptions are based on historical experience and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis of making the judgements about carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an on going basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised if the revision affects only that period or in the period of the revision and in future periods if the revision affects both current and future periods.

The financial statements have been prepared on the basis of historical cost, except for heritage assets and the revaluation of certain financial instruments. Cost is based on the fair values of the consideration given in exchange for assets. Heritage assets are valued as per Note 1, Property Plant and Equipment, Heritage Assets.

Accounting policies are selected and applied in a manner which ensures that the resulting financial information satisfies the concepts of relevance and reliability, thereby ensuring that the substance of the underlying transactions or other events is reported.

The financial statements have been prepared on a going concern basis, and the accounting policies set out below have been applied consistently to all periods presented in these financial statements.

New Zealand dollars are the Museum’s functional and presentation currency.

The following accounting policies which materially affect the measurement of results and financial position have been applied:

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

SIGNIFICANT ACCOUNTING POLICIES

Revenue Recognition

Revenue is measured at the fair value of the consideration received or receivable and represents amounts receivable for goods and services provided in the normal course of business, net of discounts and GST.

Local Authority Levy Revenue

Local Authority Levy revenue is recognised when it is levied.

Other Revenue

Revenue from services rendered is recognised when it is probable that the economic benefits associated with the transaction will flow to the entity. The stage of completion at balance date is assessed based on the value of services performed to date as a percentage of the total services to be performed.

Grants are recognised as revenue when they become receivable unless there is an obligation in substance to return the funds if conditions of the grant are not met. If there is such an obligation, the grants are initially recorded as grants received in advance and recognised as revenue when conditions of the grant are satisfied.

Where a physical asset is gifted to or acquired by the Museum for nil consideration or at a subsidised cost, the asset is recognised at fair value and the difference between the consideration provided and fair value of the asset is recognised as revenue. The fair value of donated goods is determined as follows:

Some services within the Museum are performed by volunteers. These volunteer services are not recognised as revenue or expenditure by the Museum.

Dividends are recognised when the entitlement to the dividends is established.

Interest revenue is recognised on an accrual basis.

Leasing

Finance Leases

Leases which effectively transfer to the lessee substantially all the risks and rewards incidental to ownership of the leased item are classified as finance leases, whether or not title is eventually transferred.

At the commencement of the lease term, finance leases where the Museum is the lessee are recognised as assets and liabilities in the statement of financial position at the lower of the fair value of the leased item or the present value of the minimum lease payments.

The finance charge is charged to the surplus or deficit over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the liability.

The amount recognised as an asset is depreciated over its useful life. If there is no reasonable certainty as to whether the Museum will obtain ownership at the end of the lease term, the asset is fully depreciated over the shorter of the lease terms and its useful life.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Operating Leases

Leases where the lessor effectively retains substantially all the risks and rewards incidental to ownership of the leased item are classified as operating leases.

Payments made under these leases are recognised as expenses on a straight-line basis over the lease term.

Lease incentives received are recognised in the surplus or deficit as a reduction of rental expense spread on a straight-line basis over the lease term.

Taxation

The Museum is exempt from income tax in accordance with Section CW39 of the Income Tax Act 2007. Accordingly, no provision has been made for income tax.

Goods and Services Tax

Revenues, expenses, assets and liabilities are recognised net of the amount of goods and services tax (GST), except for receivables and payables which are recognised inclusive of GST. Where GST is not recoverable as an input tax, it is recognised as part of the related asset or expense.

The net amount of GST recoverable from, or payable to, the IRD is included as part of receivables or payables in the statement of financial position.

The net GST paid to, or received from, the IRD, including the GST relating to investing and financing activities, is classified as a net operating cash flow in the statement of cash flows.

Commitments and contingencies are disclosed exclusive of GST.

Cash and Cash Equivalents

Cash and cash equivalents includes cash on hand, deposits held at call with banks, and other short-term highly liquid investments with original maturities of three months or less.

Financial Instruments

Financial assets and financial liabilities are recognised in the Museum's Statement of Financial Position when the Museum becomes a party to contractual provisions of the instrument. The Museum is party to financial instruments as part of its normal operations. These financial instruments include cash and cash equivalents (including bank overdraft), trade and other receivables, other financial assets, trade and other payables and borrowings. The relevant accounting policies are stated under separate headings.

Investments are recognised and derecognised on trade date where purchase or sale of an investment is under a contract whose terms require delivery of the investment within the timeframe established by the market concerned, and are initially measured at fair value, net of transaction costs, except for those financial assets classified as fair value through profit or loss which are initially valued at fair value.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

(i) Financial Assets

Financial Assets are classified into the following specified categories: 'available-for-sale', and 'loans and receivables'. The classification depends on the nature and purpose of the financial assets and is determined at the time of initial recognition.

The effective interest method, referred to below, is a method of calculating the amortised cost of a financial asset and of allocating interest revenue over the relevant period. The effective interest rate is the interest rate that exactly discounts estimated future cash receipts through the expected life of the financial asset, or, where appropriate, a shorter period.

Available-for-Sale Financial Assets

Equity securities held by the Museum are classified as being available-for-sale due to the fact that they are all tradable on public markets and are stated at fair value. Fair value is determined in the manner described later in this note. Gains and losses arising from changes in fair value are recognised directly in the available-for-sale revaluation reserve, with the exception of impairment losses which are recognised directly in the Statement of Financial Performance. Where the investment is disposed of or is determined to be impaired, the cumulative gain or loss previously recognised in the available-for-sale revaluation reserve is included in the Statement of Financial Performance for the period.

Dividends on available-for-sale equity instruments are recognised in the Statement of Financial Performance when the Museum's right to receive payments is established.

Fair Value Estimation

The fair value of financial instruments traded in active markets is based on quoted market prices at the balance date. The quoted market price used for financial assets held by the Museum is the current bid price.

The fair value of financial instruments that are not traded in an active market is determined using valuation techniques. The Museum uses a variety of methods and makes assumptions that are based on market conditions existing at each balance date. Quoted market prices or dealer quotes for similar instruments are used for long-term investment and debt instruments held.

Foreign Currency

Foreign currency transactions (including those for which forward exchange contracts are held) are translated into NZ dollars, being the functional currency, using the spot exchange rates at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the Museum's surplus or deficit.

Derivative Financial Instruments

Derivative financial instruments are used to manage exposure to foreign exchange risk arising from the Museum's operational activities. The Museum does not hold or issue derivative financial instruments for trading purposes. The Museum has not adopted hedge accounting.

Derivatives are initially recognised at fair value on the date the derivative contract is entered into and are subsequently re-measured at their fair value at each balance date with the resulting gain or loss recognised in the statement of comprehensive revenue & expense.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

The full fair value of the forward foreign exchange derivative is classified as current if the contract is due for settlement within 12 months of balance date. Otherwise, foreign exchange derivatives are classified as non-current.

Loans and Receivables

Trade receivables, loans and other receivables that have fixed or determinable payments that are not quoted in an active market are classified as 'loans and receivables'. Loans and receivables are measured at amortised cost using the effective interest method less impairment. Interest is recognised by applying the effective interest rate.

Trade and other receivables are recognised initially at fair value and subsequently measured at amortised cost using the effective interest method, less any provision for impairment. An allowance for doubtful debts is established when there is objective evidence that the Museum will not be able to collect all amounts due according to the original terms of the receivables. The amount of the allowance is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the effective interest rate. The amount of the allowance is expensed in the Statement of Financial Performance.

Impairment of Financial Assets

Financial assets, other than those at fair value through profit or loss, are assessed for indicators of impairment at each Statement of Financial Position date. Financial assets are impaired where there is objective evidence that as a result of one or more events that occurred after the initial recognition of the financial asset the estimated future cash flows of the investment have been impacted. For financial assets carried at amortised cost, the amount of the impairment is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the original effective interest rate.

The carrying amount of the financial asset is reduced by the impairment loss directly for all financial assets with the exception of trade receivables where the carrying amount is reduced through the use of an allowance account. When a trade receivable is uncollectable, it is written off against the allowance account. Subsequent recoveries of amounts previously written off are credited against the allowance account. Changes in the carrying amount of the allowance account are recognised in the Statement of Financial Performance.

With the exception of available-for-sale equity instruments, if, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognised, the previously recognised impairment loss is reversed through the Statement of Financial Performance to the extent the carrying amount of the investment at the date of impairment is reversed does not exceed what the amortised cost would have been had the impairment not been recognised.

(ii) Financial Liabilities

Trade and Other Payables

Trade payables and other accounts payable are recognised when the Museum becomes obliged to make future payments resulting from the purchase of goods and services.

Trade and other payables are initially recognised at fair value and are subsequently measured at amortised cost, using the effective interest method.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Inventories

Inventories are valued at the lower of cost and net realisable value. Cost is determined on a weighted average basis with an appropriate allowance for obsolescence and deterioration.

Inventories acquired through non-exchange transactions are measured at fair value at the date of acquisition.

Property, Plant and Equipment

The Museum has the following classes of property, plant and equipment:

Operational Assets and Heritage Assets

Operational Assets

Operational assets include land, buildings, plant and equipment, motor vehicles, office furniture and equipment.

Cost/Valuation

Property, plant and equipment is recorded at cost less accumulated depreciation.

Additions

The cost of an item of property, plant and equipment is recognised as an asset only when it is probable that future economic benefits or service potential associated with the item will flow to the Museum and the cost of the item can be measured reliably.

Work in progress is recognised at cost less impairment and is not depreciated.

Cost includes expenditure that is directly attributable to the acquisition of the assets. In most instances, an item of property, plant and equipment is recognised at cost. Where an asset is acquired through a non-exchange transaction, or for a nominal cost, it is recognised at fair value at the date of acquisition.

Depreciation

Depreciation is calculated as detailed below:

Expenditure incurred to maintain these assets at full operating capability is charged to the Statement of Financial Performance in the year incurred.

Operational Assets	Rate
Land	Nil
Buildings	3% S.L. - 50% D.V.
Café Equipment	10% - 50% D.V.
Computer Equipment	12% - 67% D.V.
Emergency Response Team Equipment	18% D.V.
Exhibits	Nil - 40% D.V.
Furniture, Fittings & Equipment	8% - 67% D.V.
Golden Kiwi Lottery Fund Equipment	10% D.V.
Motor Vehicles	26% - 30% D.V.

The estimated useful lives, residual values and depreciation method are reviewed at the end of each annual reporting period.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Disposal

An item of property, plant and equipment is derecognised upon disposal or recognised as impaired when no future economic benefits are expected to arise from the continued use of the asset.

Any gain or loss arising on de-recognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in the Statement of Financial Performance in the period the asset is derecognised.

Heritage Assets

The Otago Museum Trust Board owns an extensive collection of material and information relating to the natural, cultural and scientific heritage of the peoples of the world.

Heritage assets are valued at cost or fair value at the date of acquisition and are not depreciated.

All assets acquired prior to 30 June 2001 are recognised at cost at the date of acquisition. As a large number of the Heritage assets are donated or subsidised generally such cost will be nil unless they have been acquired as a result of a purchase by the Museum.

For 2016, 2017 and 2018, a fair value for donated assets received has not been determined as it was considered not possible or practical to value them.

All assets acquired from 1 July 2001 are recognised at fair value at the date of acquisition for donated or subsidised assets where it is possible, practical and meaningful to arrive at such fair value or at cost where the assets have been acquired as a result of a purchase by the Museum. The difference between fair value and cost is recognised in the Statement of Financial Performance.

The bulk of the Museum's collection is represented by unrealisable or irreplaceable items and it is impracticable and cost prohibitive to value them on a "Market Based" or "Depreciated Replacement Cost" basis. As a consequence the Museum's collection is undervalued in these financial statements.

The result of this accounting policy means that the vast majority of the Museum's collection, having been obtained prior to 30 June 2001, is effectively valued for accounting purposes at nil, or at historical cost for those few items purchased.

The primary function and purpose of the Otago Museum is the preservation and display of the extensive collection of heritage assets. These are the tasks that make up the bulk of the Otago Museum's activities.

This means that much of the collection is valued at nil, or very old historical cost for those few items purchased. The Board is confident, however, that if the collection was to be sold, its market value would be very substantial.

The fact that most of the collection has a nil, or low, value for accounting purposes in no way reduces the true value of the collection or the care that is exercised in its conservation and exhibition.

Impairment of Non-Financial Assets

At each reporting date, the Museum reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). Where the asset does not generate cash flows that are independent from other assets, the Museum estimates the recoverable amount of the cash-generating unit to which the asset belongs.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Recoverable amount is the higher of fair value less costs to sell and value in use. Value in use is depreciated replacement cost for an asset where the future economic benefits or service potential of the asset is not primarily dependent on the asset's ability to generate net cash inflows and where the entity would, if deprived of the asset, replace its remaining future economic benefits or service potential. In assessing value in use for cash-generating assets, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted.

If the recoverable amount of an asset (or cash-generating unit) is estimated to be less than its carrying amount, the carrying amount of the asset (cash-generating unit) is reduced to its recoverable amount. An impairment loss is recognised as an expense immediately, unless the relevant asset is carried at fair value, in which case the impairment loss is treated as a revaluation decrease.

Where an impairment loss subsequently reverses, the carrying amount of the asset (cash-generating unit) is increased to the revised estimate of its recoverable amount, but only to the extent that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognised for the asset (cash-generating unit) in prior years. A reversal of an impairment loss is recognised in the Statement of Financial Performance immediately, unless the relevant asset is carried at fair value, in which case the reversal of the impairment loss is treated as a revaluation increase.

Superannuation Schemes

Defined Contribution Schemes

Obligations for contributions to defined contribution superannuation schemes are recognised as an expense in the Statement of Financial Performance as incurred.

Provisions

Provisions are recognised when the Museum has a present obligation, the future sacrifice of economic benefits is probable, and the amount of the provision can be measured reliably.

The amount recognised as a provision is the best estimate of the consideration required to settle the present obligation at reporting date, taking into account the risks and uncertainties surrounding the obligation. Where a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of those cash flows.

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, the receivable is recognised as an asset if it is virtually certain that recovery will be received and the amount of the receivable can be measured reliably.

Employee Entitlements

Provision is made for benefits accruing to employees in respect of wages and salaries, and annual leave when it is probable that settlement will be required and they are capable of being measured reliably.

Employee benefits that are due to be settled within 12 months after balance date are measured based on the accrued entitlements at current rates of pay.

A liability and an expense are recognised for bonuses where there is a contractual obligation or where there is a past practice that has created a constructive obligation and a reliable estimate of the obligation can be made.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Provisions made in respect of employee benefits which are not expected to be settled within 12 months are measured at the present value of the estimated future cash outflows to be made by the Museum in respect of services provided by employees up to reporting date.

Statement of Cash Flows

Operating activities include cash received from all revenue sources of the Museum and record the cash payments made for the supply of goods and services.

Investing activities are those activities relating to the acquisition and disposal of non-current assets.

Financing activities comprise the change in equity and debt structure of the Museum.

Equity

Equity is the community's interest in the Museum and is measured as total assets less total liabilities. Equity is disaggregated and classified into Museum Capital and a number of reserves.

The components of equity are:

- Museum Capital Account
- Accumulated Surplus/(Deficit)
- Available-for-Sale Revaluation Reserve
- Equalisation Fund
- Redevelopment Fund
- Special & Trust Funds

Reserves

Reserves are a component of equity generally representing a particular use to which various parts of equity have been assigned. Reserves may be legally restricted or established by the Museum.

Restricted reserves are subject to specific conditions. Expenditure or transfers from these reserves may be made only for certain specified purposes.

Museum reserves are reserves established by Museum decision. The Museum may alter them without reference to any third party. Expenditure or transfers to and from these reserves is based on established Museum policy.

The Museum's objectives, policies and processes for managing capital are described in Note 21.

Budget Figures

The budget figures are those approved by the Museum at the beginning of the year in the Annual Plan. The budget figures have been prepared in accordance with NZ GAAP, using accounting policies that are consistent with those adopted by the Museum for the preparation of the financial statements.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS
For the Financial year ended 30 June 2018**

STATEMENT OF ACCOUNTING POLICIES (Cont.)

Critical Accounting Estimates and Assumptions

In preparing these financial statements, the Museum has made estimates and assumptions concerning the future. These estimates and assumptions may differ from the subsequent actual results. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations or future events that are believed to be reasonable under the circumstances. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

Key Sources of Estimation Uncertainty

Judgements made by management in the application of Tier 2 PBE accounting standards that have significant effects on the financial statements and estimates with a significant risk of material adjustments in the next year are disclosed, where applicable, in the relevant notes to the financial statements.

Key Sources of Estimation Uncertainty include:

- Estimating the remaining useful life of various items of property, plant and equipment. If the useful life does not reflect the actual consumption of benefits of the asset, the Museum could be over or under estimating the depreciation charge recognised as an expense in the Statement of Financial Performance.
- Determining whether the conditions of a grant has been satisfied, to determine whether the grant should be recognised as revenue in the Statement of Financial Performance. This judgement will be based on the facts and circumstances that are evident for each contract.

Estimates and judgements are continually evaluated and are based on historical experience and other functions, including expectations of future events that are believed to be measurable under the circumstances.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

2. REVENUE

For financial reporting purposes, revenue received from local authorities in regards to payments under the Otago Museum Trust Board Act 1996 is considered non-exchange revenue. These amount to \$4,180,512 in 2018 (2017: \$4,102,101). Legacies & Bequests, Interest & Dividends, as well as Grants – Government & Other are also considered non-exchange revenue.

Included within Public revenue are the following non-exchange transactions:

	2018 \$	2017 \$
Donations	28,230	13,308
Sponsorships	50,000	87,000
	<u>\$ 78,230</u>	<u>\$ 100,308</u>

3. EXPENDITURE

	2018 \$	2017 \$
(a) Employee Benefits Expense		
Salaries & Wages	4,664,786	4,398,289
Defined Contribution Plans	125,081	113,379
	<u>\$ 4,789,867</u>	<u>\$ 4,511,668</u>

(b) Other Expenses

Computer Costs	62,340	41,849
Maintenance	261,708	286,429
Other Expenses	3,049,981	3,060,052
	<u>\$ 3,374,028</u>	<u>\$ 3,388,330</u>

4. REMUNERATION

The following table shows the number of employees that are paid more than \$100,000 gross per year.

	2018	2017
Remuneration Band	Number of Employees	Number of Employees
\$300,000 - \$309,999	1	1
\$130,000 - \$139,999	3	4
\$120,000 - \$129,999	1	-

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

5. KEY MANAGEMENT PERSONNEL COMPENSATION

Key management personnel include Trust Board Members, the Chief Executive and other members of the Museum Management Team. With the exception of the Chairperson of the Board who receives a small honorarium, other Trust Board members do not receive any remuneration.

	2018	2017
	\$	\$
Short-Term Employee Benefits	908,333	945,774
Other Benefits	-	-
	<u>\$ 908,333</u>	<u>\$ 945,774</u>

The full-time equivalent of key management personnel receiving remuneration is detailed below:

Trust Board Members	0.04	0.04
Museum Management Team	7	6
	<u>7.04</u>	<u>6.04</u>

6. REMUNERATION OF AUDITORS

	2018	2017
	\$	\$
Audit Fees for Financial Statement Audit	<u>29,916</u>	<u>29,552</u>

The auditor of Otago Museum Trust Board is Audit New Zealand on behalf of the Auditor-General.

7. TRADE & OTHER RECEIVABLES

Trade Receivables	<u>152,431</u>	<u>176,285</u>
	152,431	176,285
Sundry Receivables & Accruals	53,923	66,943
Estimated Doubtful Debts	-	-
Goods & Services Tax (GST) Receivable	<u>163,521</u>	<u>22,926</u>
	<u>\$ 369,876</u>	<u>\$ 266,154</u>

The following are recognised as non-exchange transactions:

	2018	2017
	\$	\$
Accrued Interest	22,881	66,560
GST Receivable	<u>163,521</u>	<u>22,926</u>
	<u>\$ 186,402</u>	<u>\$ 89,486</u>

All other trade & other receivables are considered as exchange transactions.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

7. TRADE & OTHER RECEIVABLES cont.

Trade Receivables

	2018	2017
	\$	\$
Ageing of past due but not impaired:		
0- 30 days	123,285	127,160
31 - 60 days	20,091	9,797
61- 90 days	2,331	-
90 days+	6,724	39,328
	<u>\$ 152,431</u>	<u>\$ 176,285</u>

The Museum holds no collateral as security or other credit enhancements over receivables that are either past due or impaired.

8. INVENTORIES

	2018	2017
	\$	\$
Shop Stock	208,511	221,532
Café Stock	6,300	13,048
Venue Stock	4,561	4,620
	<u>\$ 219,372</u>	<u>\$ 239,200</u>

The carrying amount of inventories pledged as security for liabilities is \$Nil (2017: \$Nil).

9. OTHER FINANCIAL ASSETS

Available-for-Sale at Fair Value:

Current

Deposits	2,522,149	5,797,967
Fixed Rate Bonds	318,453	274,965
	<u>2,840,602</u>	<u>6,072,932</u>

Non-Current

Equity Securities- Company Shares	5,229,851	4,639,932
Fixed Rate Bonds	421,700	819,347
	<u>5,651,551</u>	<u>5,459,279</u>

Disclosed in the financial statements as:

Current	2,840,602	6,072,932
Non-current	5,651,551	5,459,279
	<u>\$ 8,492,153</u>	<u>\$ 11,532,211</u>

There are no impairment provisions for other financial assets.

Equity securities and fixed rate bonds are held in the name of Otago Museum Trust Board. Equity investments are measured at fair value with fair value determined by reference to published bid price quotations in an active market.

All banking activities relating to these Other Financial Assets are conducted by the Otago Museum Trust Board through its bank account.

10. OTHER CURRENT ASSETS

	2018	2017
	\$	\$
Prepayments	<u>\$ 42,676</u>	<u>\$ 34,617</u>

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018**

11. PROPERTY, PLANT AND EQUIPMENT

	Cost/ Valuation 1 July 2017	Additions	Disposals	Cost/ Valuation 30 June 2018	Accumulated Depreciation & Impairment Changes 1 July 2017	Depreciation Expense	Accumulated Depreciation Reversed on Disposal	Accumulated Depreciation & Impairment Changes 30 June 2018	Carrying Amount 30 June 2018
At Cost									
Land	979,952			979,952	-			-	979,952
Buildings	11,140,426	1,576,890	17,687	12,699,629	(4,219,361)	(496,566)	(3,231)	(4,712,696)	7,986,933
- Discovery World	2,256,032			2,256,032	(1,442,629)	(60,000)		(1,502,629)	753,403
Redevelopment - Phase 1									
Building	3,000,616			3,000,616	(1,726,302)	(90,018)		(1,816,320)	1,184,296
Fitout exhibitions	245,813			245,813	(230,636)	(2,732)		(233,368)	12,445
Mechanical services	362,465			362,465	(281,800)	(7,663)		(289,463)	73,002
Electrical	509,315			509,315	(395,968)	(10,768)		(406,736)	102,579
Redevelopment - Phase 2									
Building	5,409,584			5,409,584	(2,579,981)	(162,288)		(2,742,269)	2,667,315
Fitout exhibitions	2,906,971			2,906,971	(2,705,818)	(36,208)		(2,742,026)	164,945
Mechanical services	1,970,917			1,970,917	(1,479,324)	(46,701)		(1,526,025)	444,892
Electrical	451,183			451,183	(338,647)	(10,691)		(349,338)	101,845
Computer Equipment	1,335,455	160,454	117,509	1,378,400	(997,263)	(165,293)	(114,515)	(1,048,041)	330,359
Emergency Response Equipment	7,152			7,152	(7,038)	(21)		(7,059)	93
Exhibits	609,737	1,077,304		1,687,041	-	(199,896)		(199,896)	1,487,145
Furniture & Fittings	1,345,533	165,121	66,130	1,444,524	(951,203)	(79,500)	(63,980)	(966,723)	477,801
Golden Kiwi Lottery Fund	17,837			17,837	(17,622)	(21)		(17,643)	194
Motor Vehicles	117,768	45,423		163,191	(66,684)	(25,963)		(92,647)	70,544
Café Equipment	32,966	41,157		74,123	(25,596)	(4,384)		(29,980)	44,143
	32,699,722	3,066,350	201,326	35,564,746	(17,465,872)	(1,398,713)	(181,726)	(18,682,859)	16,881,887

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018**

11. PROPERTY, PLANT AND EQUIPMENT

	Cost/ Valuation 1 July 2016	Additions	Disposals	Cost/ Valuation 30 June 2017	Accumulated Depreciation & Impairment Changes 1 July 2016	Depreciation Expense	Accumulated Depreciation Reversed on Disposal	Accumulated Depreciation & Impairment Changes 30 June 2017	Carrying Amount 30 June 2017
Museum Operational Assets At Cost									
Land	979,952			979,952	-	-	-	-	979,952
Buildings	10,449,840	690,586		11,140,426	(3,789,852)	(429,509)	(4,219,361)	(4,219,361)	6,921,065
- Discovery World	2,256,032			2,256,032	(1,382,629)	(60,000)	(1,442,629)	(1,442,629)	813,403
Redevelopment - Phase 1									
Building	3,000,616			3,000,616	(1,636,284)	(90,018)	(1,726,302)	(1,726,302)	1,274,314
Fitout exhibitions	245,813			245,813	(227,305)	(3,331)	(230,636)	(230,636)	15,177
Mechanical services	362,465			362,465	(273,332)	(8,468)	(281,800)	(281,800)	80,665
Electrical	509,315			509,315	(384,070)	(11,898)	(395,968)	(395,968)	113,347
Redevelopment - Phase 2									
Building	5,409,584			5,409,584	(2,417,693)	(162,288)	(2,579,981)	(2,579,981)	2,829,603
Fitout exhibitions	2,906,971			2,906,971	(2,661,662)	(44,156)	(2,705,818)	(2,705,818)	201,153
Mechanical services	1,970,917			1,970,917	(1,427,720)	(51,604)	(1,479,324)	(1,479,324)	491,593
Electrical	451,183			451,183	(326,834)	(11,813)	(338,647)	(338,647)	112,536
Computer Equipment	1,136,775	198,680		1,335,455	(634,148)	(363,115)	(997,263)	(997,263)	338,192
Emergency Response Equipment	7,152			7,152	(7,012)	(26)	(7,038)	(7,038)	114
Exhibits	537,159	72,578		609,737	-	-	-	-	609,737
Furniture & Fittings	1,238,198	107,335		1,345,533	(884,080)	(67,123)	(951,203)	(951,203)	394,330
Golden Kiwi Lottery Fund	17,837			17,837	(17,598)	(24)	(17,622)	(17,622)	215
Motor Vehicles	123,855	33,913	40,000	117,768	(87,799)	(18,104)	(39,219)	(66,684)	51,084
Café Equipment	32,966			32,966	(23,561)	(2,035)	(25,596)	(25,596)	7,370
	31,636,630	1,103,092	40,000	32,699,722	(16,181,579)	(1,323,512)	(39,219)	(17,465,872)	15,233,850

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

	2018 \$	2017 \$
12. Intangible Assets		
<u>Website Design</u>		
Opening Balance	22,273	44,546
Additions	-	-
Less Amortisation	11,137	22,273
Closing Balance	<u>\$ 11,137</u>	<u>\$ 22,273</u>

Website design costs are capitalised and amortised at 50%DV.

13. TRADE & OTHER PAYABLES

Trade Payables (i)	560,210	514,212
Other Accrued Charges (ii)	446,099	655,217
	<u>\$ 1,006,309</u>	<u>\$ 1,169,429</u>

(i) The average credit period on purchases is 30 days.

(ii) The Museum holds unspent grant funding received, included in cash & cash equivalents, of \$404,665 (2017: \$627,611) that is subject to conditions. The restrictions generally specify how the grant is required to be spent providing specified deliverables of the grant arrangement, including repayment of unspent funding. This grant funding is considered a non-exchange transaction.

	2018 \$	2017 \$
14. EMPLOYEE ENTITLEMENTS		
Accrued Salary & Wages	61,728	93,436
Annual Leave	258,595	245,392
	<u>\$ 320,324</u>	<u>\$ 338,828</u>

15. RESERVES

Available-for-Sale Revaluation Reserve (a)	1,778,001	1,119,313
Equalisation Fund (b)	320,295	310,921
Restricted Reserves (c) (Trust Funds)	5,926,728	5,799,117
Museum Reserves (d) (Special Funds)	4,332,159	6,389,889
Unallocated Accrued Interest	22,881	66,565
	<u>\$ 12,380,064</u>	<u>\$ 13,685,805</u>

(a) Available-for-Sale Revaluation Reserve

Balance at Beginning of Year	1,119,313	755,676
Realised gains/losses on disposal of shares	(25,894)	36,751
Forward contract realised losses	-	(14,900)
Adjusting for market value movements	658,688	378,538
Valuation Gain/(Loss) Recognised	<u>632,794</u>	<u>400,389</u>
(Gain)/Loss transferred to Revenue Statement on Sale of Financial Assets	25,894	(36,752)
Balance at End of Year	<u>\$ 1,778,001</u>	<u>\$ 1,119,313</u>

The available-for-sale revaluation reserve represents gains (net) on revaluation of financial assets held.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

15. RESERVES cont.

	2018	2017
	\$	\$
(b) Equalisation Fund		
Balance at Beginning of Year	310,921	301,779
Interest Transfer	9,374	9,142
Balance at End of Year	<u>\$ 320,295</u>	<u>\$ 310,921</u>

A fund established to enable the board to handle expenditure on major maintenance projects which occur irregularly.

Notes

(c) Restricted Reserves (Trust Funds)	15(e)		
Balance at Beginning of Year		5,799,117	5,598,569
Transfer from/(to) Retained Earnings		127,611	200,548
Balance at End of Year		<u>\$ 5,926,728</u>	<u>\$ 5,799,117</u>

Restricted reserves include:

- trust and bequest funds that have been provided to the Museum for specific purposes

	Notes	2018	2017
		\$	\$
(d) Museum Reserves (Special Funds)	15(f)		
Balance at Beginning of Year		6,389,889	6,379,805
Transfer from/(to) Retained Earnings		(2,057,730)	10,084
Balance at End of Year		<u>\$ 4,332,159</u>	<u>\$ 6,389,889</u>

Museum Reserves are made available for specific events or purposes, based on established Museum policy.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

15 (e) Restricted Reserves (Trust Funds)

<u>TRUST FUND</u>	<u>BALANCE</u> <u>01/07/2017</u>	<u>ADD REVENUE &</u> <u>TRANSFERS</u>	<u>DEDUCT</u> <u>EXPENDITURE &</u> <u>TRANSFERS</u>	<u>BALANCE</u> <u>30/06/2018</u> <u>TOTAL</u>	<u>CAPITAL</u>	<u>REVENUE</u>	
Elizabeth Alexander	171,620	Gain on Sale of Shares Investment Revenue	(766) 5,174	176,028	87,506	88,522	
Beth & Mark Anderson	102,422	Gain on Sale of Shares Investment Revenue	(457) 3,087	105,052	74,643	30,409	
Avice Bowbyes - Costumes	213,898	Gain on Sale of Shares Investment Revenue	(955) 6,449	219,392	68,503	150,889	
Colquhoun	541,481	Gain on Sale of Shares Investment Revenue	(2,418) 16,327	555,390	173,674	381,716	
De Beer Publications & Research	1,264,231	Gain on Sale of Shares Investment Revenue	(5,645) 38,118	1,296,704	372,636	924,068	
Fairweather	356,871	Gain on Sale of Shares Investment Revenue	(1,593) 10,760	366,038	141,756	224,282	
Fairweather - Collections	600,009	Gain on Sale of Shares Investment Revenue	(2,679) 18,090	20,500 594,920	199,792	395,128	
Gollan	229,342	Gain on Sale of Shares Investment Revenue	(1,024) 6,916	250 234,984	42,364	192,620	
Brenda Joyce Harding	118,216	Gain on Sale of Shares Investment Revenue	(528) 3,564	121,252	40,480	80,772	
Lyders	205,897	Gain on Sale of Shares Investment Revenue	(919) 6,209	211,187	39,853	171,334	
Cowie Nichols	24,821	Gain on Sale of Shares Investment Revenue	(111) 749	25,459	2,606	22,853	
Cyril Nichols	1,106,111	Gain on Sale of Shares Investment Revenue	(4,940) 33,351	1,134,522	222,859	911,663	
Peter Snow MAC Fund	1,261	Gain on Sale of Shares Investment Revenue	(6) 38	1,293	-	1,293	
Willi Fels	862,937	Gain on Sale of Shares Investment Revenue	(3,853) 26,018	595 884,507	254,775	629,732	
TOTAL RESTRICTED RESERVES	\$ 5,799,117		\$ 148,956	\$ 21,345	\$ 5,926,728	\$ 1,721,447	\$ 4,205,281

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018**

15 (f) Museum Reserves (Special Funds)

<u>Special Fund</u>	<u>BALANCE</u> <u>01/07/2017</u>	<u>ADD REVENUE &</u> <u>TRANSFERS</u>	<u>DEDUCT</u> <u>EXPENDITURE &</u> <u>TRANSFERS</u>	<u>BALANCE</u> <u>30/06/2018</u> <u>TOTAL</u>	<u>CAPITAL</u>	<u>REVENUE</u>	
Allocation for Special Purposes	76,540	Est. E O Naylor	360	76,900	-	76,900	
Barclay	72,066		Transfer to Development Fund	25,009	47,057	-	47,057
Conservation Materials	145,076			145,076	-	145,076	
Development	1,162,851	Transfers from Special Funds	969,155	Capital Expenditure	2,152,006	-	-
		Grants & Donations	120,000	Transfer to Income & Expenditure	100,000		
Emergency Response	47,924			47,924	-	47,924	
Freda Stucky	271,180			271,180		271,180	
Loss of Heart Compensation	2,349,471			2,349,471	1,106,913	1,242,558	
Māori Ethnology	105,996			105,996	-	105,996	
Purchase of Collections	81,524		Capital Expenditure	2,004	79,520	-	79,520
Retirement Leave	228,586			228,586	-	228,586	
Scientific Publications	75,055			75,055	-	75,055	
Special Exhibitions & Programmes	820,557		Transfer to Development Fund	472,073	348,484	-	348,484
Study & Training	112,081			112,081	-	112,081	
Project & Development Fund	840,982	Transfer Income & Expenditure	89,000	Transfer to Development Fund	472,073	-	444,829
				Capital Expenditure	13,080		
TOTAL MUSEUM RESERVES	\$ 6,389,889		\$ 1,178,515	\$ 3,236,245	\$ 4,332,159	\$ 1,106,913	\$ 3,225,246

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

	2018	2017
	\$	\$
16. CAPITAL		
Accumulated Surplus/(Deficit)		
Balance at Beginning of Year	13,037,589	13,727,918
Plus Exhibits & Equipment Purchased from: Restricted & Museum Reserves	2,188,434	703,347
Net surplus/(Deficit)	(1,224,100)	(482,831)
Transfers from/(to) Reserves:		
Restricted & Museum Reserves	11,000	(99,999)
Equalisation Fund	(9,374)	(9,141)
Restricted Reserves (Special Funds)	(120,360)	(610,946)
Restricted Reserves (Trust Funds)	(148,956)	(203,030)
Available for Sale Revaluation Reserve	-	14,900
Unallocated Accrued Interest	43,685	(2,629)
Balance at End of Year	<u>\$ 13,777,919</u>	<u>\$ 13,037,589</u>

17. COMMITMENTS FOR EXPENDITURE

(a) Capital & Other Expenditure Commitments

Capital commitments at 30 June 2018 were \$42,248 (30 June 2017: \$602,175). These affect the following asset classes:

· Buildings	\$42,248
-------------	----------

During the 2018 year, the Otago Museum commenced work in redesigning the Café/Hutton Theatre area, as well as updating the Atrium Balustrades for Health & Safety purposes. As at 30 June 2018 there were contractual commitments of \$42,248 in relation to these two projects.

At 30 June, 2018, the Otago Museum had been awarded total grant funding from the Ministry of Business, Innovation and Employment (MBIE) of \$1,646,430 (2017 : \$868,430). To date costs of \$1,077,778 (2017 : \$585,107) had been paid out to funding recipients, with \$342,668 of these costs paid during the 2018 year. There are funds of \$354,000 (2017 : \$31,400) still to be received from MBIE. As at balance date, there were funds of \$214,652 (2017 : \$251,923) to be paid out during 2019. There is also a further \$190,014 (2017 : \$375,690) of committed grant expenditure that has been awarded to recipients but not yet paid out. The majority of this funding is ear-marked for the Digitisation Project.

The Otago Museum Trust Board entered into a 33-year lease with the Dunedin City Council on 19 October 2010 for the H D Skinner Annex building located on the Museum Reserve. The initial yearly rental was set at \$12,000 plus GST and is subject to yearly rental reviews.

18. CONTINGENT LIABILITIES & CONTINGENT ASSETS

	2018	2017
	\$	\$
Contingent Liabilities		
ATA Carnet	-	19,930

A Customs document to facilitate the temporary duty free admission of goods into the Republic of China. This ceased during the 2018 financial year.

During the Café/Hutton Theatre improvements project, asbestos was discovered within the building. There is a contingent liability at 30 June, 2018 to remedy this.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018**

18. CONTINGENT LIABILITIES & CONTINGENT ASSETS cont.

Contingent Assets

There were no contingent assets at 30 June, 2018 (2017: Nil).

19. RELATED PARTY DISCLOSURES

Contributing Local Authorities

Under the Otago Museum Trust Board Act, 1996 contributing authorities are required to provide certain levels of funding to the Otago Museum.

Transactions with Related Parties

During the year the following receipts (payments) were received from (made to) contributing authorities and other related customers/suppliers. These were conducted on normal commercial terms, with the exception of rent charged for the H D Skinner Annex Building. The annual rental is \$12,000 paid to the Dunedin City Council.

		2018	2017
		\$	\$
Central Otago District Council	Levy Received	26,273	25,758
Clutha District Council	Levy Received	181,570	181,570
Dunedin City Council	Levy Received	3,920,123	3,843,258
Waitaki District Council	Levy Received	52,546	51,516
Dunedin City Council	Other	3,535	-
NZ Genomics	Other	-	2,129
Otago University	Other	-	307,097
		<u>\$ 4,184,047</u>	<u>\$ 4,411,327</u>
Dunedin City Council	Rates & Rent Paid	(99,240)	(85,603)
Dunedin City Council	Other	(22,520)	(4,606)
Central Otago District Council	Other	(790)	(375)
Otago University	Other	(38,861)	(55,019)
Orokonui Ecosanctury Limited	Other	(244)	(734)
		<u>\$ (161,655)</u>	<u>\$ (146,337)</u>

The Otago Museum also received a rates grant from the Dunedin City Council totalling \$6,000 (2017: \$6,000) as well as \$75,000 contribution towards the Discovery World upgrade (2017: Discovery World upgrade \$75,000) .

During the year the following receipts (payments) were received from (made to) Board members and associated personnel. These were conducted on normal commercial terms:

	2018	2017
	\$	\$
Innovatio Limited	(15,000)	(15,000)
	<u>\$ (15,000)</u>	<u>\$ (15,000)</u>

The payments to Innovatio Limited are for remuneration for the Chair of the Board. All transactions were completed on normal commercial terms.

**OTAGO MUSEUM TRUST BOARD
 NOTES TO THE FINANCIAL STATEMENTS (Cont.)
 For the Financial year ended 30 June 2018**

20. NOTES TO THE CASH FLOW STATEMENT

(a) Reconciliation of Cash & Cash Equivalents

For the purposes of the Cash Flow Statement, cash and cash equivalents includes cash on hand, deposits held on call with banks and other short-term highly liquid investments with original maturities of three months or less. Cash and cash equivalents at the end of the financial year as shown in the Cash Flow Statement is reconciled to the related items in the Statement of Financial Position as follows:

	2018	2017
	\$	\$
Cash & Cash Equivalents	1,467,515	903,346
	<u>\$ 1,467,515</u>	<u>\$ 903,346</u>

21. FINANCIAL INSTRUMENTS

(a) Capital Risk Management

The Otago Museum Trust Board Act 1996 (the Act) requires the Museum to manage and account for its revenue, expenses, assets, liabilities, investments and financial dealings generally and in accordance with the relevant financial management principles of the Local Government Act 2002 and Generally Accepted Accounting Practice. Museum Capital is largely managed as a by-product of managing revenues, expenses, assets, liabilities, investments and general financial dealings.

The Museum has the following reserves:

- Restricted Reserves (Trust Funds); and
- Museum Reserves (Special Funds).

Interest and realised gains or losses on the sale of shares are recognised through the Statement of Financial Performance. They accordingly form part of the surplus or deficit transferred to Museum Capital. Investment revenue is then allocated to the Reserves on a pro-rata basis. Subsequent use of these funds may be restricted by Trust Deed or established policy.

(b) Significant Accounting Policies

Details of the significant accounting policies and methods adopted, including the criteria for recognition, and the basis of measurement applied in respect of each class of financial asset, financial liability and equity instrument are disclosed in Note 1 to the financial statements.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

21. FINANCIAL INSTRUMENTS cont.

(c) Categories of Financial Instruments

	2018	2017
	\$	\$
Financial Assets		
Cash & Cash Equivalents	1,467,515	903,346
Trade & Other Receivables	369,876	266,154
Other Financial Assets:		
· Loans & Receivables	-	-
· Available-for-Sale Financial Assets	5,970,004	5,734,244
· Held to Maturity	2,522,149	5,797,967
Financial Liabilities		
Trade & Other Payables	1,006,309	1,169,429

(d) Financial Risk Management Objectives

The Museum has a series of policies to manage the risks associated with financial instruments. The Museum is risk averse and seeks to minimise exposure from its treasury activities. The Museum has established Museum approved Financial Management and Investment policies. These provide a framework for the management of financial resources in an efficient and effective way.

The Museum does not enter into or trade financial instruments, including derivative financial instruments, for speculative purposes.

(e) Market Risk

Interest Rate Risk

Interest rate risk is the risk that the value of a financial instrument will fluctuate due to changes in market interest rates. The Museum's exposure to interest rate risk is limited to its bank deposits and some long-term investments (bonds) which are held at fixed interest rates. Investments and bank deposits held at variable interest rates also expose the Museum to interest rate risk.

To help minimise interest rate risk, bank deposits are invested with a spread of maturity dates over a range of financial institutions to limit exposure to short-term interest rate movements.

At 30 June 2018, if the 90-day bank bill rate had been 5% (2017: 5%) higher or lower, with all other variables held constant, the surplus/deficit for the year would have been \$6,503 (2017: \$9,965) lower/higher. This movement is attributable to interest on call accounts.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

21. FINANCIAL INSTRUMENTS cont.

Price Risk

Price risk is the risk that the value of a financial instrument will fluctuate as a result of changes in market prices. The Museum's equity investments are exposed to price risk because they are listed investments. The Museum's equity investments are principally held for strategic purposes as opposed to generating a financial return.

The equity investments are publically traded. Holding everything equal, if the share price at 30 June 2018 has fluctuated by plus or minus 5% (2017: 5%), the effect would have been to increase/decrease other comprehensive revenue and expense by \$261,493 (2017: \$231,996).

Currency Risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate due to changes in foreign exchange rates.

The Museum holds some equity investments in Australia, the United Kingdom and the United States markets. These holdings are primarily managed by Craigs Investment Partners on the Museum's behalf. The Museum also makes purchases of goods and services overseas that require it to enter into transactions denominated in foreign currencies. As a result of these activities, exposure to currency risk arises.

This year, the Museum has entered into foreign exchange forward contracts due to the large amounts of capital expenditure expected to be spent over the next 12-24 months, to help to manage the foreign currency risk exposure. Historically, these instruments have not been utilised.

At 30 June 2018, if the NZ dollar had weakened/strengthened by 5% (2017: 5%) against the US dollar with all other variables held constant, the comprehensive income & expenses for the year would have been \$69,895 (2017: \$54,270) lower if the NZ dollar had weakened and \$77,253 (2017: \$59,983) higher if the NZ dollar had strengthened. This movement is attributable to foreign exchange gains/losses on translation of US dollar denominated forward contract, bank balances and equity investments.

If the NZ dollar had weakened/strengthened by 5% (2017: 5%) against the UK pound with all other variables held constant, the comprehensive income & expenses for the year would have been \$40,360 (2017: \$37,308) lower if the NZ dollar had weakened and \$44,609 (2017: \$41,233) higher if the NZ dollar had strengthened. This movement is attributable to foreign exchange gains/losses on translation of UK pound denominated bank balances and equity investments.

If the NZ dollar had weakened/strengthened by 5% (2017: 5%) against the AUD dollar with all other variables held constant, the comprehensive income & expenses for the year would have been \$65,828 (2017: \$62,453) lower if the NZ dollar had weakened and \$72,757 (2017: \$69,026) higher if the NZ dollar had strengthened. This movement is attributable to foreign exchange gains/losses on translation of AUD dollar denominated bank balances and equity investments.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

21. FINANCIAL INSTRUMENTS cont.

(f) Credit Risk

Credit risk refers to the risk that a third party will default on its contractual obligations resulting in financial loss to the Museum.

The Museum has no significant concentrations of credit risk arising from trade receivables. Due to the timing of when the annual levies are received from the contributing local authorities, the Museum invests surplus cash with registered banks.

In the normal course of business, the Museum is exposed to credit risk from cash and term deposits with banks, trade receivables, and derivative financial instruments. For each of these, the carrying amount of financial assets recorded in the financial statements, net of any allowance for losses, represents the Museum's maximum exposure to credit risk without taking account of the value of any collateral obtained.

The Museum limits the amount of credit exposure to any one financial institution for term deposits and funds held on call to no more than 60% of total funds held (excluding fixed term bonds). The Museum invests funds and enters into derivative financial instruments only with registered banks that have a Standard and Poor's credit rating of at least A for short-term and long-term investments. Funds are currently held with Southland Building Society which does not have a rating with Standard and Poor's. However, the amount invested is limited to \$250,000. In addition the Museum has \$100,000 invested in Summerset retail bonds and this investment is also not rated. The Museum has experienced no defaults of interest or principal payments on any term deposits.

The Museum holds on collateral or other credit enhancements for financial instruments that give rise to credit risk.

(g) Liquidity Risk Management

Liquidity risk is the risk that the Museum will encounter difficulty in raising liquid funds to meet commitments as they fall due. Prudent liquidity risk management implies maintaining sufficient cash.

The Museum manages liquidity risk by maintaining adequate funds on deposit, reserves, and banking facilities by continuously monitoring forecast and actual cash flows, and matching the maturity profiles of financial assets and liabilities.

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

21. FINANCIAL INSTRUMENTS cont.

(h) Maturity Profile of Financial Instruments

The following tables detail the Museum's exposure to interest rate risk on financial instruments:

	Weighted Average Effective Interest Rate	Variable Interest Rate	Fixed Maturity Dates						Non Interest Bearing	
			Less than 1 year	1 - 2 Years	2 - 3 Years	3 - 4 Years	4 - 5 Years	5+ Years		
2018	%	\$	\$	\$	\$	\$	\$	\$	\$	
Financial assets:										
Cash & cash equivalents	0.86	1,467,695								1,467,695
Trade & other receivables									369,876	369,876
Other financial assets										
Current										
- Short term deposits	3.29	2,522,149								2,522,149
Non current										
- Equity securities - NZ									1,587,620	1,587,620
- Equity securities - Aust									1,382,391	1,382,391
- Equity securities - UK									811,280	811,280
- Equity securities - USA									1,448,575	1,448,575
- Fixed rate bonds	5.72		318,453	274,691	-	42,178	-	104,831		740,153
Financial liabilities:										
Trade & other payables									1,006,309	1,006,309

	Weighted Average Effective Interest Rate	Variable Interest Rate	Fixed Maturity Dates						Non Interest Bearing	
			Less than 1 year	1 - 2 Years	2 - 3 Years	3 - 4 Years	4 - 5 Years	5+ Years		
2017	%	\$	\$	\$	\$	\$	\$	\$	\$	
Financial assets:										
Cash & cash equivalents	0.18	903,346								903,346
Trade & other receivables									266,154	266,154
Other financial assets										
Current										
- Short term deposits	3.4		5,797,967							5,797,967
Non current										
- Equity securities - NZ									1,431,552	1,431,552
- Equity securities - Aust									1,311,507	1,311,507
- Equity securities - UK									765,911	765,911
- Equity securities - USA									1,130,962	1,130,962
- Fixed rate bonds	5.12		274,965	275,074	223,171	-	100,000	221,102		1,094,312
Financial liabilities:										
Trade & other payables									535,099	535,099

OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018

21. FINANCIAL INSTRUMENTS cont.

(i) Fair Value of Financial Instruments

The fair values of financial assets and financial liabilities are determined as follows:

· The fair value of financial assets and financial liabilities with standard terms and conditions and traded on active liquid markets are determined with reference to quoted market prices.

The Museum considers that the carrying amount of financial assets and financial liabilities recorded at amortised cost in the financial statements approximates their fair values.

(j) Credit Quality of Financial Instruments

The credit quality of financial assets that are neither past due nor impaired can be assessed by reference to Standard and Poor's credit ratings (if available) or to historical information about counterparty default rates.

	2018 \$	2017 \$
Counterparties with Credit Ratings		
<u>Cash and Term Deposits</u>		
AA-	2,627,882	6,504,329
A	751,371	-
BBB	518,083	-
	<u>3,897,336</u>	<u>6,504,329</u>
<u>Fixed Term Interest & Other Interest Bearing</u>		
AA-	359,740	545,120
A+	-	75,550
A	77,720	176,553
BBB+	102,747	92,669
BBB	42,178	-
BB+	-	104,420
Total Fixed Term Interest & Other Interest Bearing	<u>582,385</u>	<u>994,312</u>
Counterparties without Credit Ratings		
<u>Cash at Bank & Cash Equivalents</u>		
Existing counterparty with no defaults in the past	55,509	33,401
Total Cash at Bank & Cash Equivalents	<u>55,509</u>	<u>33,401</u>
<u>Fixed Term Interest & Other Interest Bearing</u>		
Existing counterparty with no defaults in the past	183,936	263,737
Total Fixed Term Interest & Other Interest Bearing	<u>183,936</u>	<u>263,737</u>
<u>Equity Investments</u>		
Existing counterparty with no defaults in the past	5,229,851	4,639,932
Total Equity Investments	<u>5,229,851</u>	<u>4,639,932</u>
<u>Trade & Other Receivables</u>		
Existing counterparty with no defaults in the past	369,876	158,643
Total Trade & Other Receivables	<u>369,876</u>	<u>158,643</u>

22. SUBSEQUENT EVENTS

There are no significant events subsequent to balance date.

**OTAGO MUSEUM TRUST BOARD
NOTES TO THE FINANCIAL STATEMENTS (Cont.)
For the Financial year ended 30 June 2018**

23. ANNUAL REPORT

The Otago Museum Trust Board Act (1996) requires adoption of the audited Annual Report by 30 November.

**OTAGO MUSEUM TRUST BOARD
SUPPLEMENTARY INFORMATION
For the Financial Year Ended 30 June 2018**

COMPARISON OF OPERATIONAL REVENUE & EXPENDITURE TO THE ANNUAL PLAN

	Core Operating		Business Units		Special & Trust Funds		Total	
	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget
Revenue								
Executive	7,500	-	-	-	-	-	7,500	-
Collections, Experience & Development	336,653	165,284	-	-	-	-	336,653	165,284
Finance & Commercial	294	800	1,839,460	1,955,844	-	-	1,839,754	1,956,644
Assets & Technology	677	1,020	-	-	-	-	677	1,020
Visitor Interaction & Programmes	168,232	233,592	-	-	-	-	168,232	233,592
Science Engagement	496,555	509,000	871,833	771,100	-	-	1,368,388	1,280,100
Special & Trust Funds	-	-	-	-	260,899	1,279,376	260,899	1,279,376
CLA Contribution & Other Revenue	4,480,971	4,310,243	-	-	-	-	4,480,971	4,310,243
Total Revenue	5,490,882	5,219,939	2,711,293	2,726,944	260,899	1,279,376	8,463,074	9,226,259
Wages & Salaries								
Executive	(400,457)	(402,730)	-	-	-	-	(400,457)	(402,730)
Collections, Experience & Development	(1,498,498)	(1,577,642)	-	-	-	-	(1,498,498)	(1,577,642)
Finance & Commercial	(273,676)	(283,344)	(840,245)	(888,077)	-	-	(1,113,921)	(1,171,421)
Assets & Technology	(292,199)	(273,634)	-	-	-	-	(292,199)	(273,634)
Visitor Interaction & Programmes	(602,988)	(635,123)	-	-	-	-	(602,988)	(635,123)
Science Engagement	(600,753)	(414,475)	(311,864)	(325,307)	-	-	(912,617)	(739,782)
Special & Trust Funds	-	-	-	-	-	-	-	-
Total Wages & Salaries	(3,668,571)	(3,586,948)	(1,152,109)	(1,213,384)	-	-	(4,820,680)	(4,800,332)
Direct Costs								
Executive	(220,834)	(321,010)	-	-	-	-	(220,834)	(321,010)
Collections, Experience & Development	(525,395)	(545,919)	-	-	-	-	(525,395)	(545,919)
Finance & Commercial	(13,100)	(28,335)	(811,815)	(830,503)	-	-	(824,915)	(858,838)
Assets & Technology	(608,873)	(701,032)	-	-	-	-	(608,873)	(701,032)
Visitor Interaction & Programmes	(38,947)	(98,242)	-	-	-	-	(38,947)	(98,242)
Science Engagement	(213,827)	(200,500)	(255,057)	(263,790)	-	-	(468,884)	(464,290)
Special & Trust Funds	-	-	-	-	(25,894)	(19,000)	(25,894)	(19,000)
Total Direct Costs	(1,620,976)	(1,895,038)	(1,066,872)	(1,094,293)	(25,894)	(19,000)	(2,713,742)	(3,008,331)
Depreciation	(1,429,449)	(959,899)	-	-	-	-	(1,429,449)	(959,899)
Indirect costs	(723,303)	(896,135)	-	-	-	-	(723,303)	(896,135)
Net Contribution	(1,951,417)	(2,118,081)	492,312	419,267	235,005	1,260,376	(1,224,100)	(438,438)

**OTAGO MUSEUM TRUST BOARD
SUPPLEMENTARY INFORMATION
For the Financial year ended 30 June 2018**

FIXED ASSETS & EXHIBITS ACQUIRED DURING THE YEAR

Account	Reserves	Accumulated Surplus/Deficit
FINANCE & COMMERCIAL		
Equipment & Furniture		22,483
Redevelopment		701
COLLECTIONS, EXPERIENCE & DEVELOPMENT		
Equipment & Furniture		2,054
Redevelopment		39,169
ASSETS & TECHNOLOGY		
Equipment & Furniture		267,065
Redevelopment		33,300
SCIENCE & ENGAGEMENT		
Equipment & Furniture		35,583
Redevelopment		37,459
BALANCE SHEET		
Buildings - Museum		373,810
Café Equipment		24,367
Motor Vehicles		41,923
MUSEUM RESERVES		
Conservation Materials		
Development Fund	2,152,005	
Purchase of Collections	2,004	
Project and Development Fund	13,080	
GOLLAN		
Purchase of Ceramics	250	
FAIRWEATHER COLLECTIONS TRUST FUND		
Natural History	20,500	
WILLI FELS		
Purchase of Textiles	595	
TOTAL ACQUISITIONS FOR YEAR	\$ 2,188,434	\$ 877,916

Independent Auditor's Report

To the readers of Otago Museum Trust Board's financial statements and statement of service performance for the year ended 30 June 2018

The Auditor-General is the auditor of Otago Museum Trust Board (the Museum). The Auditor-General has appointed me, Julian Tan, using the staff and resources of Audit New Zealand, to carry out the audit of the financial statements and the statement of service performance of the Museum on his behalf.

We have audited:

- the financial statements of the Museum on pages 45 to 76, that comprise the statement of financial position as at 30 June 2018, the statement of financial performance, statement of comprehensive revenue and expenses, statement of changes in equity and cash flow statement for the year ended on that date and the notes to the financial statements that include accounting policies and other explanatory information; and
- the statement of service performance of the Museum on pages 23 to 40.

Qualified opinion

Qualified opinion on the financial statements because of non-recognition of certain heritage assets

In our opinion, except for the effect of the non-recognition of certain heritage assets, described in the *Basis for our qualified opinion* section of our report, the financial statements of the Museum on pages 45 to 76:

- present fairly, in all material respects:
 - its financial position as at 30 June 2018; and
 - its financial performance and cash flows for the year then ended; and
- comply with generally accepted accounting practice in New Zealand in accordance with the Public Benefit Entity Reporting Standards Reduced Disclosure Regime.

Unmodified opinion on the statement of service performance

In our opinion, the statement of service performance of the Museum on pages 23 to 40 presents fairly, in all material respects, the Museum's actual performance compared against the performance targets and other measures by which performance was judged in relation to the Museum's objectives for the year ended 30 June 2018.

Our audit was completed on 9 November 2018. This is the date at which our qualified opinion is expressed.

The basis for our qualified opinion is explained below. In addition, we outline the responsibilities of the Board and our responsibilities relating to the financial statements and the statement of service performance, we comment on other information, and we explain our independence.

Basis for our qualified opinion

As explained in the accounting policies on page 55, the Museum has not recognised certain heritage assets in the statement of financial position or donated asset revenue in the statement of financial performance. These are departures from Public Benefit Entity International Public Sector Accounting Standard 17: *Property, Plant and Equipment*, which generally requires assets to be recognised, and the fair value of donated assets to be included as revenue. There are no practical audit procedures that we have been able to apply, to quantify the effect of these departures from the accounting standards. It is our opinion that the heritage assets make up a significant proportion of the Museum's total assets. Our audit opinion for the year ended 30 June 2017 was modified for the same reason. As a result, the comparative information in the financial statements should be read in light of this fact.

We carried out our audit in accordance with the Auditor-General's Auditing Standards, which incorporate the Professional and Ethical Standards and the International Standards on Auditing (New Zealand) issued by the New Zealand Auditing and Assurance Standards Board. Our responsibilities under those standards are further described in the *Responsibilities of the auditor* section of our report.

We have fulfilled our responsibilities in accordance with the Auditor-General's Auditing Standards.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion.

Responsibilities of the Board for the financial statements and the statement of service performance

The Board is responsible on behalf of the Museum for preparing the financial statements that are fairly presented and that comply with generally accepted accounting practice in New Zealand. The Board also responsible for preparing the statement of service performance for the Museum.

The Board is responsible for such internal control as it determines is necessary to enable it to prepare financial statements and the statement of service performance that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements and the statement of service performance, the Board is responsible on behalf of the Museum for assessing the Museum's ability to continue as a going concern. The Board is also responsible for disclosing, as applicable, matters related to going concern and using the going concern basis of accounting, unless the Board intends to liquidate the Museum or to cease operations, or has no realistic alternative but to do so.

The Board's responsibilities arise from Otago Museum Trust Board Act 1996.

Responsibilities of the auditor for the audit of the financial statements and the statement of service performance

Our objectives are to obtain reasonable assurance about whether the financial statements and the statement of service performance, as a whole, are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion.

Reasonable assurance is a high level of assurance, but is not a guarantee that an audit carried out in accordance with the Auditor-General's Auditing Standards will always detect a material misstatement when it exists. Misstatements are differences or omissions of amounts and disclosures, and can arise from fraud or error. Misstatements are considered material if, individually or in the aggregate, they could reasonably be expected to influence the decisions of readers taken on the basis of these financial statements and the statement of service performance.

For the budget information reported in the financial statements and the statement of service performance, our procedures were limited to checking that the information agreed to the Museum's annual plan.

We did not evaluate the security and controls over the electronic publication of the financial statements and the statement of service performance.

As part of an audit in accordance with the Auditor-General's Auditing Standards, we exercise professional judgement and maintain professional scepticism throughout the audit. Also:

- We identify and assess the risks of material misstatement of the financial statements and the statement of service performance, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- We obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Museum's internal control.
- We evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the Board.
- We evaluate the appropriateness of the reported performance information within the Museum's framework for reporting its performance.
- We conclude on the appropriateness of the use of the going concern basis of accounting by the Board and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Museum's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements and the statement of service performance or, if such disclosures are inadequate,

to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Museum to cease to continue as a going concern.

- We evaluate the overall presentation, structure and content of the financial statements and the statement of service performance, including the disclosures, and whether the financial statements and the statement of service performance represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the Board regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Our responsibilities arise from the Public Audit Act 2001.

Other information

The Board is responsible for the other information. The other information comprises the information included on pages 2 to 22 and 77 and 78, but does not include the financial statements and the statement of service performance, and our auditor's report thereon.

Our opinion on the financial statements and the statement of service performance does not cover the other information and we do not express any form of audit opinion or assurance conclusion thereon.

In connection with our audit of the financial statements and the statement of service performance, our responsibility is to read the other information. In doing so, we consider whether the other information is materially inconsistent with the financial statements and the statement of service performance or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If, based on our work, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Independence

We are independent of the Museum in accordance with the independence requirements of the Auditor-General's Auditing Standards, which incorporate the independence requirements of Professional and Ethical Standard 1(Revised): *Code of Ethics for Assurance Practitioners* issued by the New Zealand Auditing and Assurance Standards Board.

Other than the audit, we have no relationship with, or interests in, the Museum.



Julian Tan
Audit New Zealand
On behalf of the Auditor-General
Dunedin, New Zealand



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