

# ANNUAL REPORT

2022



**STARDOME**

OBSERVATORY  
PLANETARIUM

3

FOREWORD

4

FRAMEWORK

5

BY THE NUMBERS

6



**GOAL ONE**

Be a trusted centre for sharing astronomy and mātauranga

11



**GOAL TWO**

Transform our visitor experience

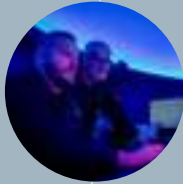
14



**GOAL THREE**

Ensure organisational sustainability

16



**GOAL FOUR**

Improve our environmental performance

18



**GOAL FIVE**

Become a bicultural organisation

20



**GOAL SIX**

Tell our story

22

GOALS AND METRICS

26

AUDITED FINANCIAL STATEMENTS

Despite another challenging year navigating the Covid-19 climate, Financial Year 2021/2022 came with two major highs for Stardome: it was the first year of implementation of A New Vision, our five-year strategic plan, and the year Matariki became a national holiday, the first grounded in the indigenous knowledge of Aotearoa.

We're proud of what we have achieved this year, particularly with a backdrop of Covid disruptions. And these disruptions were substantial, closing the facility for nearly a third of the year and forcing operation at half-capacity for another third. Notwithstanding this, for the days we were able to operate at full capacity we managed to achieve visitation comparable to our highest pre-Covid days. June 2022 in particular saw us manaaki more visitors than for any previous month on record. The strength of our kaimahi humbled us, and the Board and management would like to extend enormous thanks for the team's resilience, commitment and good humour throughout a challenging year.

The absolute highlight of the year was Matariki 2022. Our Matariki Lights at Stardome, in which the building was illuminated alongside a bespoke musical composition, ran for the week leading up the national holiday on 24 June. We received an overwhelming amount of local and national support and drew thousands of visitors to participate in an authentic expression of this special time of the year. It was a moving experience for our manuhiri, Board and kaimahi, and we were honoured to manaaki visitors into our whare in the spirit of Matariki.

In many ways, this event was a manifestation of the aspirations articulated in A New Vision, our 2022–2026 strategic plan – a vision that will ensure Stardome is

a place of trust and integrity for celestial stories, astronomy, mātauranga Māori and cosmological science; one that honours and shares the first stories told about the skies over Tāmaki Makaurau and Aotearoa; that upholds the mana of Maungakiekie; is environmentally and financially sustainable; and inspires and excites the minds of our tamariki and rangatahi.

We are proud to present our annual report here, organised according to our six strategic goals, to demonstrate how we have progressed each throughout this year.

Ngā mihi maioha,

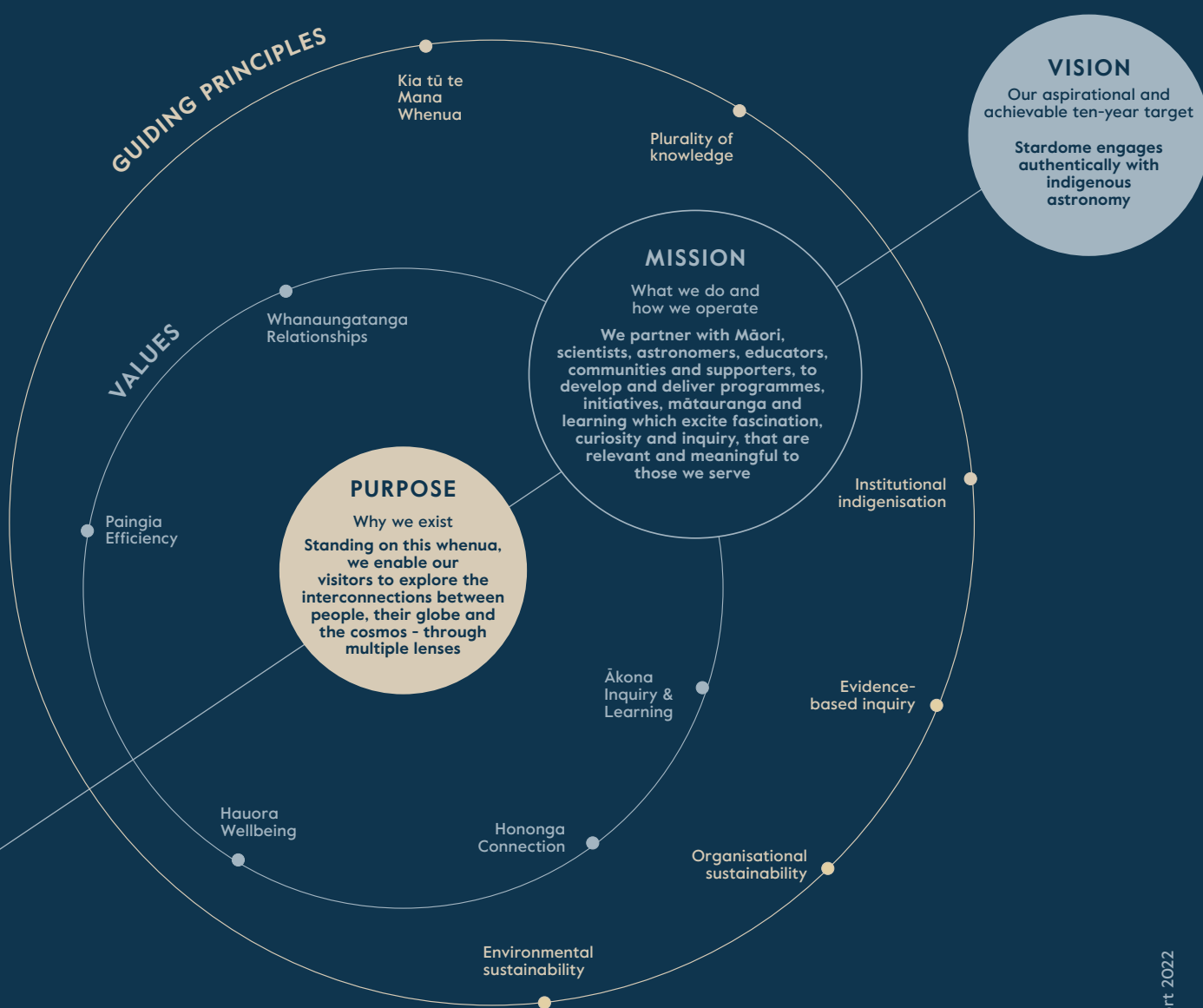


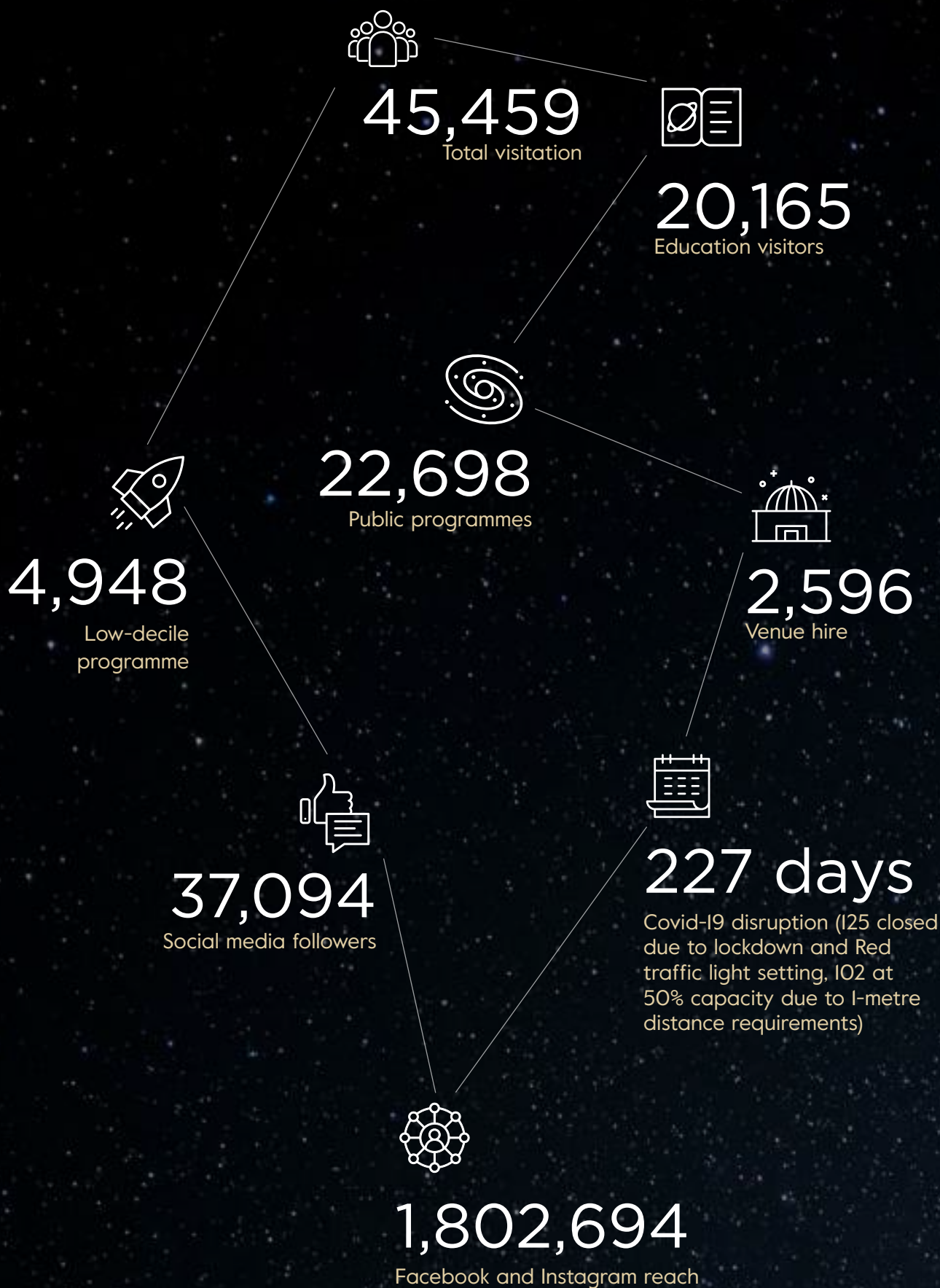
Richard Sorrenson  
**Chairperson**




Victoria Travers  
**Chief Executive**

The Strategic Plan sets a course for transformation over the next five years. This framework articulates not just what we will do, but the kaupapa that underpins our mahi.







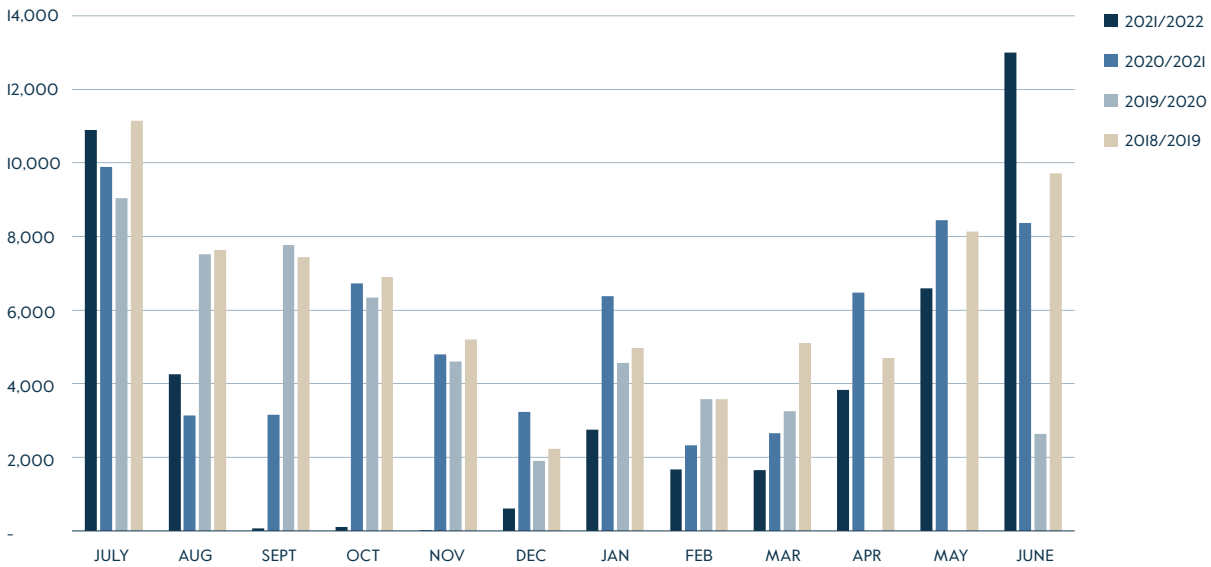
# Be a trusted centre for sharing astronomy and mātauranga.

We are committed to being a place of trust and integrity for celestial stories, astronomy, mātauranga Māori, pūtaiao and cosmological science.

GOAL ONE

The impact of Covid-19 is evident in visitation results this financial year. In mid-August 2021, when Auckland went into lockdown, until early April 2022, when restrictions were eased and we were able to return to full capacity, our visitation was profoundly impacted.

**YTD VISITATION PER MONTH**



Given this context, during June 2022, when the first national Matariki holiday fell, we were delighted to manaaki nearly 13,000 manuiri to Stardome – our highest visitation of any month on record.

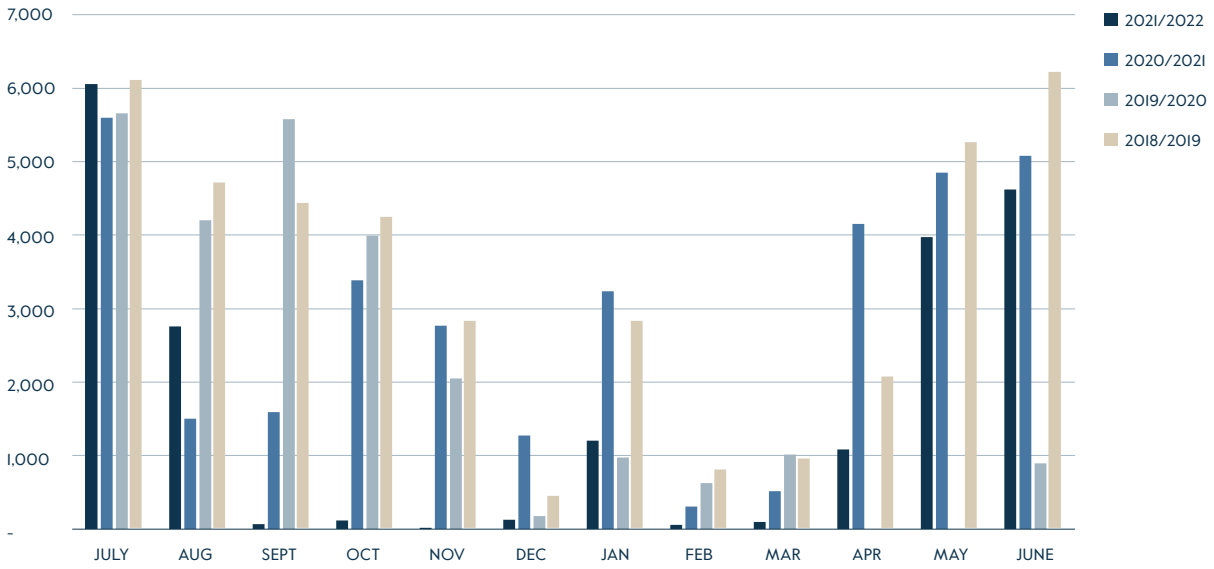
Evenings and weekends and venue hire proved the most agile areas of visitation and bounced back relatively quickly. Visitors in both these areas were hungry for authentic Matariki experiences, embracing the recognition of this important time of the year. Venue hire, in particular, was at a rate not experienced previously.

For education, the recovery to pre-Covid-19 levels has been slower. This is understandable given that schools were negotiating many pressures, including catching up on missed learning and risks of taking ākongā on experiences outside the classroom, as well as managing vaccine passport requirements for field trips. These pressures combined with the longer

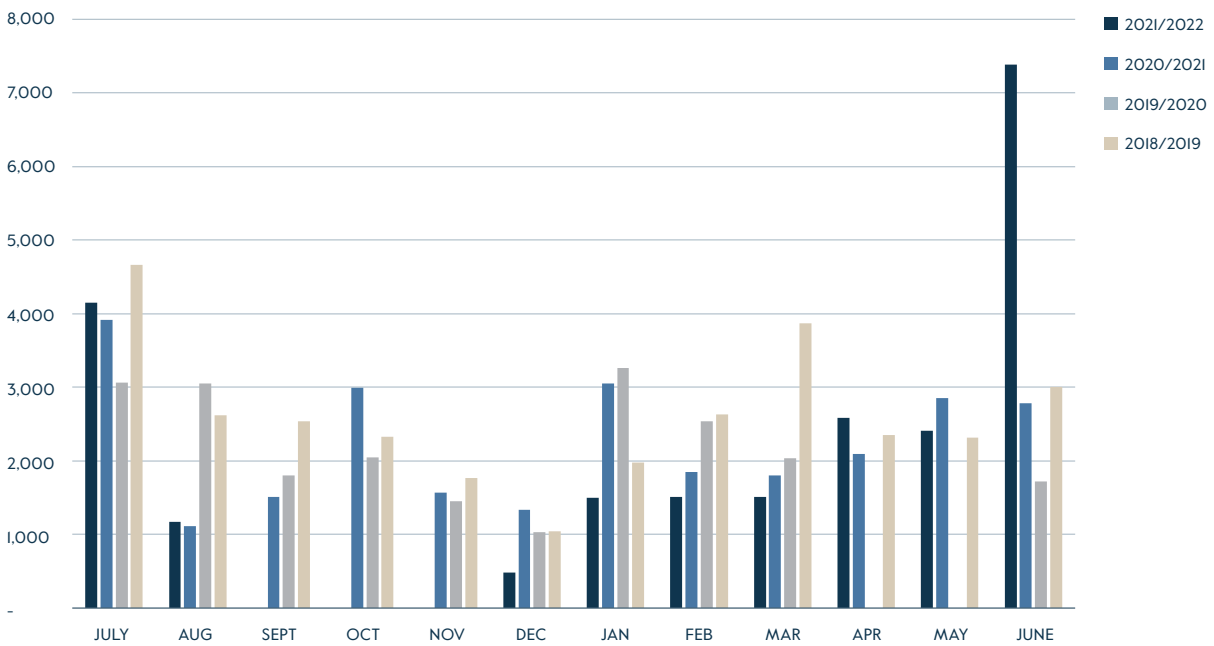
*“I ... congratulate you for the life changing experiences you are enabling children to have and planting the knowledge seed in their minds about something that is really ‘beyond the stars’. 11 out of 10. Thank you.”*

lead-in times for planning visits significantly impacted education visitation to Stardome this year. However, stronger education visitation through May and June as we headed into Matariki 2022 was encouraging as restrictions eased and schools gained confidence in returning to learning facilities across Tāmaki Makaurau.

TOTAL EDUCATION VISITATION PER MONTH

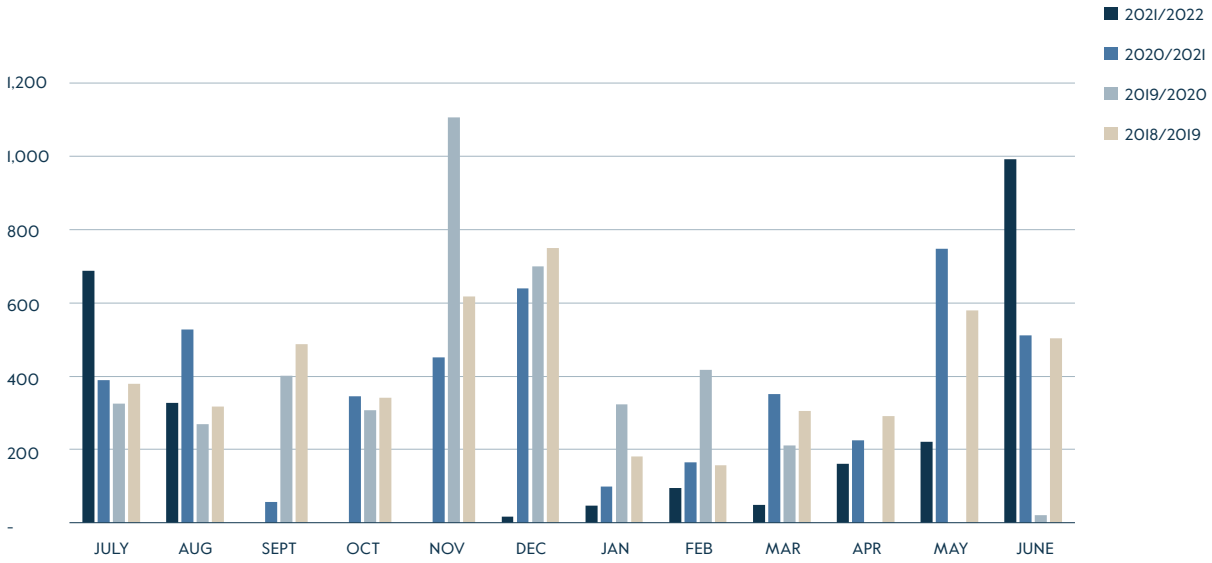


TOTAL VISITATION EVENINGS & WEEKENDS



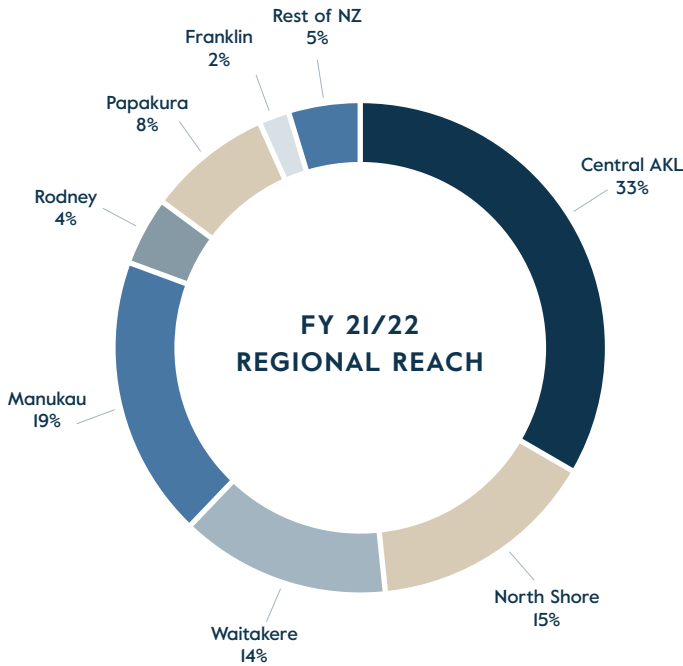


### TOTAL VISITATION VENUE HIRE



### LEARNING AT STARDOME

Visitation by ākonga from kōhanga reo, preschools, kura kaupapa and schools continues to form the backbone of our visitation. For many it is where the relationship with Stardome begins. Our education visitation reflects the diversity of Auckland, both geographically and demographically.



*“Thank you very much for such an engaging programme today. The kids had never experienced anything like this so it was great being able to provide them with these experiences.”*

## MATARIKI 2021 AND 2022

Because the Matariki season (May–July) straddles two financial years, the annual report reflects both Matariki 2021 and Matariki 2022, a historic year when we celebrated as a nation with the first national holiday grounded in the indigenous knowledge of Aotearoa.

Our Matariki offerings included the Matariki education programme (2021 and 2022); our ever-popular planetarium experience Ngā Whetū o Matariki (2021 and 2022); a livestream event with Professor Rangi Matamua (2021); Matariki Lights at Stardome (2022); and our inaugural Matariki free-of-charge open day on Friday, 24 June 2022, offering manuhiri a chance to learn about the Matariki cluster and this special time of year. It has been and continues to be a privilege to tautoko the growing knowledge and confidence of Aucklanders embracing Matariki and what it means.

## NGĀ TOHUNGA WHAKATERE – THE NAVIGATORS

During Matariki 2022, we were delighted to take custody of our newest planetarium film, Ngā Tohunga Whakaterere – The Navigators, at a special launch event on 30 June. Produced entirely within Aotearoa, the film tells the story of Māori, Pacific and later European navigation to Aotearoa New Zealand, and the vital role the stars, skies and seas provided to those skilled enough to read them. We were honoured to be joined by several master navigators and the filmmakers for the launch.

## THE PUBLIC PROGRAMME

Our rich and varied public programme this year celebrated all things space, including May the Fourth (Be With You), Yuri's Night, Hallowe'en, sci-fi movie nights, Valentine's evening, rocket launches and our school holiday programme.

*"I really liked the way that the lesson was targeted to our learning about the maramataka and the phases of the moon. Thank you."*



## RESEARCH ROUND-UP

Since 2004, Stardome's primary research has been in the new science of gravitational microlensing. It is supported by our professional collaborators at Ohio State University (USA) and Peking University (China).

All the stars in the galaxy are in motion. Microlensing occurs when the light from a very distant star is briefly magnified by the gravity of another star that happens to pass exactly in-between as seen from Earth. These very rare alignments might last from hours to months, and they never repeat. Crucially, these alignments can deliver some unique science outcomes, including the detection of any planets that may be orbiting the lensing star. In one such lensing event to which we contributed, the lensing object proved to be a black hole about five times the mass of our Sun. This was the very first detection of an "isolated" black hole, first predicted by Einstein in 1935.

While computer-controlled survey telescopes are now detecting thousands of these events each year, telescopes such as Stardome's provide the intensive observation during the few nights while the alignment is near perfect.

Over the last year, a number of technical issues with the research telescope were identified and resolved. It is now performing very well and is operated remotely, allowing it to be used on many more nights.

# Transform our visitor experience

Our audiences are at the heart of our mahi and during the next period of our development we will transform our visitor experience and continue to inspire and excite the minds of our tamariki, rangatahi and adults alike.



### MATARIKI LIGHTS AT STARDOME 2022

Matariki Lights was an incredible event for Stardome, with thousands of visitors attending to see our bespoke audio-visual experience take place from the front lawn. Developed in collaboration with local creatives and Prof. Rangi Matamua, the Matariki Lights experience was supported by a week of free public shows inside the planetarium. We welcomed hundreds of visitors every night into these free shows.

*This was our busiest week of the year without doubt, and it was fantastic to manaaki visitors into our whare in the spirit of Matariki.*



### ZEISS TELESCOPE EXPERIENCE

We were thrilled to have opened our Zeiss Telescope Experience this year as an entirely revamped public offering. Operating weekly on Friday and Saturday nights, these intimate public sessions inside the Zeiss telescope dome take visitors on an exploration of the night sky with their own personal astronomy guide.

### SCI-FI AT STARDOME

Taking advantage of our unique setting, Sci-Fi at Stardome welcomed visitors to watch some of the greatest movies set in space, including cult classics 2001: A Space Odyssey and Starship Troopers, set against the night sky inside the planetarium, including complimentary popcorn.

### FACILITY UPGRADE

Despite the challenges brought about by Covid-19, we were very pleased to complete the upgrade our bathroom facilities in September 2021. As well as a significant cosmetic upgrade, it was a chance to upgrade the plumbing, increase our capacity, and improve accessibility for all manuhiri.

### NEW WEBSITE

In November 2021, we refreshed our website, moving it to a platform that fully integrates with our new online retail store. The refreshed website has made it easy to see what's on 'at a glance', and lays out hours, location and other essential information in a more streamlined design with a smoother online visitor experience.



### THE PLANETARIUM

In May 2022, we completed an upgrade to Digistar, our sophisticated, state-of-the-art planetarium software. This involved a full server replacement and upgrade to the latest version of the software which powers our planetarium. Digistar operates in a similar way to Google Earth, but for the entire known universe, upgrading daily when new exoplanets, stars and planetary bodies are discovered. The new software is a noticeable improvement on Digistar 6, with sharper renderings and more agility in operating.

### GALLERY REFRESH

This year work began on a significant transformation to our gallery experience, due to open to the public in early 2023. The upgrade of our galleries will contribute significantly to the transformation of our visitor experience, weaving mātauranga and science side-by-side in a new exhibition.

# Ensure organisational sustainability

We will continue to plan, prioritise and deliver the best outcomes for Aucklanders and maximise the resources we have available.



**COVID-19**

FY21/22 was another eventful year of Covid disruptions. We had to navigate new ways of operating, including closures, reduced capacity, hybrid programming, hybrid working, vaccine passports for manuhiri, vaccine mandates for kaimahi, and planning within a context of uncertainty and risk.

This year has seen the largest disruptions brought about by the pandemic, the most significant being that we were able to operate at full capacity for only a third of the year.

As we have for the previous two years, we took a highly controlled approach to managing our expenditure in FY21/22, identifying areas of variable costs and structuring our expenditure in a way that reduced our risk and vulnerability to financial shocks.

Once again, our kaimahi rose to the challenge, and the Board and management thank them for their resilience and commitment through the ongoing pandemic and its impact.



**RETAIL**

This year we commissioned and began implementing a retail strategy to ensure our retail offering aligned with our 2022–2026 strategic plan. Initiatives launched this year have included re-merchandising our store; new products, including specially commissioned lines; and the launch of our online retail store in November 2021, in time for Christmas.

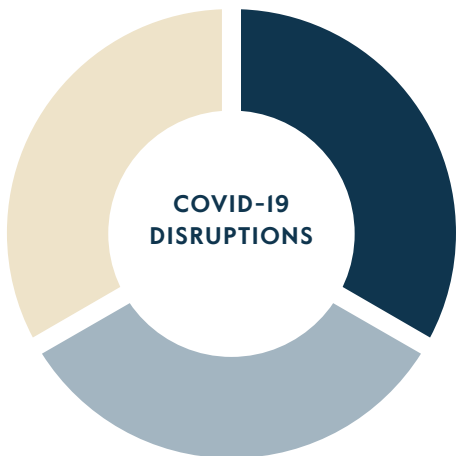
**ASSET MANAGEMENT**

A five-year capital works plan was prepared this year, informed by the asset management plan created in 2021. It lays out a proposed programme of capital projects for the next three years. This is now integrated into our annual budgeting cycles.

**OUR PEOPLE**

The resilience of Stardome kaimahi in the face of the challenges brought by Covid-19 humbled us this year. Our work is public-facing, so to be closed for almost a third of the year was challenging for our kaimahi. We are grateful to our people for their agility – rolling with changes to operating procedures and practices, sometimes on a weekly basis, and swiftly moving to online and at-home working on short notice. Like many workplaces across the motu, many of our team were impacted directly by Covid-19, through themselves and their loved ones contracting the virus.

- CLOSED TO THE PUBLIC
- 50% CAPACITY
- FULLY OPERATIONAL





# Improve our environmental performance

We have a responsibility to contribute to Auckland's goals for a sustainable environment for future generations through our operational practice and communication with our audiences.





## OUR ROAD TO CARBON NEUTRAL

This year we began the mahi to decarbonise Stardome. We have dedicated resources to investigating the most rigorous method of measuring our current carbon footprint and the changes we might make in our operations and procurement practices, so that by December 2022 we can map out a pathway to carbon neutrality.

## MĀRA KAI

In partnership with the Tūpuna Maunga Authority, a māra kai was installed at Stardome in 2021. It flourished over the spring and plantings included a range of vegetables, herbs and companion plants.

## SUSTAINABILITY TEAM

A sustainability and environment team was established in February, meeting monthly to progress initiatives that improve our environmental performance, particularly around waste reduction and decarbonising, but also learning from colleagues across the sector.

## WASTE MINIMISATION

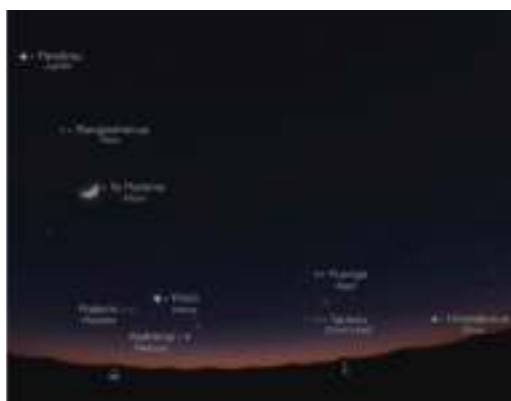
A number of initiatives were put in place this year to account for our waste and disposing of it using the principles of 'reduce, reuse, recycle', in that order of priority. Some of these initiatives include the installation of battery and soft plastic recycling receptacles, the recycling of approximately 5 kilograms of e-waste and 10 kilograms of scrap metal, the reuse of packaging materials, the installation of more efficient air conditioning units, the donation of surplus supplies to community groups, ongoing replacement of incandescent lights with LEDs, and the cessation of bottled water for sale.

In addition, our waste minimisation approach now considers end-of-life when we acquire goods and services so that we can reduce our waste from the outset of any procurement. This has led to new suppliers for many of our goods and services – ones who are committed to the same environmental goals as Stardome.



# Become a bicultural organisation

As part of our commitment to Te Tiriti o Waitangi and in our role as leaseholders to uphold the mana of Maungakiekie, bicultural practice will become integral to how we operate.



*“He pai ana korero. Ki uu tonu kite nga tikanga Māori, kia kore e rite ki nga korero tauwiwi.”*

### KAIMAHI DEVELOPMENT AND CAPABILITY

Our kaimahi continue to develop their capability and capacity in Te Ao Māori, including tikanga, te reo Māori and mātauranga. This has been evident throughout the Matariki season, with our staff embracing a deepening understanding of Māori astronomy and tikanga associated with it. We have worked and continue to work with kaumātua, tuākana and other Māori knowledge holders to develop tikanga appropriate for our kaupapa that upholds the mana of Maungakiekie.

A Kaimahi Māori rōpū (Māori staff group) was also established this year, to tautoko one another, contribute and advise. A waiata group was also created this year. Every Friday, waiata practice gets under way; most weeks it has almost 100% attendance of those on site.

### MĀTAURANGA MĀORI

Thanks to the tautoko of knowledge holders both within our own team and externally, our confidence and capability in mātauranga Māori has continued to grow. This was evident during our Matariki 2022 season, when there was a tremendous level of media coverage, both of our programme and with our staff providing expert commentary about other aspects of Māori astronomy. This will grow further over the coming years as our galleries are refreshed to elevate mātauranga alongside science.

*“Fantastic use of Māori language and stories to celebration Matariki. The children were able to use their prior knowledge as well as extend through their experience.”*

# Tell our story

Our story is rich, having been part of the fabric of Auckland since 1967. We will continue to champion the work we do and the experiences that we offer.



**BRAND**

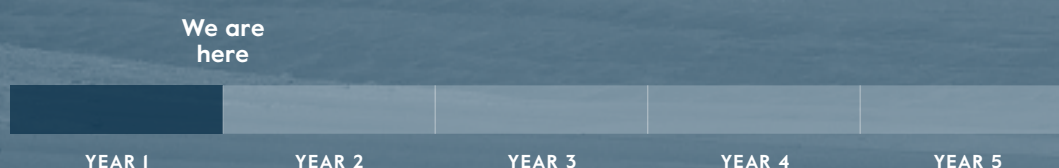
In the previous year, research was carried out to measure the health of our brand. This showed that the Stardome name holds high recognition and is regarded with a lot of affection. Google analysis over the year also supports this.

On the basis of this, we are taking the time to consider the scope of a rebrand for Stardome, to ensure that it builds on the current brand value, but also that it reflects the kaupapa articulated in A New Vision, our 2022–2026 strategic plan.

**COMMUNICATIONS STRATEGY**

In December 2021, a new communications strategy was developed, which entailed mapping out the upcoming calendar year and the opportunities on the five-year horizon with an external public relations company. The first project within this was Matariki 2022 and the results were tremendous, with Stardome’s Matariki Lights event receiving coverage across all major print and television outlets in New Zealand, as well as in the UK’s Guardian. The exposure was equivalent to \$400,000–500,000 of advertising.

As we reflect on what we have achieved in the first year of our five-year strategic plan, we are delighted with the progress we have made, particularly given the ongoing challenges of Covid-19. We are well on course to deliver on our five-year aspirations.











- ACHIEVED
- PROGRESSING
- NOT YET ACHIEVED - DELAYED DUE TO COVID-19

## Goal I: Be a trusted centre for sharing astronomy and mātauranga

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Continue to develop and deliver trusted astronomy programmes that are relevant for our audiences.	• Our visitation grows year-on-year to a total visitation of 95,000/annum by 2026.	
	• By 2022, 6,000 visitors/annum participate in Mātauranga Māori evening experiences.	
	• By 2023, education programmes are delivered to 45,000/annum from a representative geographic spread across Auckland.	
Contribute to research in astronomy and mātauranga Māori through making our facility available to researchers.	• A research programme operates out of Stardome that partners with research institutions and individuals in astronomy, mātauranga Māori and other related fields.	
	• By 2026, a succession plan is in place for the research programme.	
Develop and deliver new Māori astronomy programmes.	• By 2023, at least 30% of our yearly programme offering is Māori astronomy and related kaupapa.	
	• Partnership agreements for research and/or content co-development are in place with knowledge holders in the fields of Māori astronomy, traditional navigation, Maramataka and other relevant areas.	
	• Matariki programme attendances is at 80% capacity every year.	

## Goal 2: Transform our visitor experience

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Provide outstanding, accessible planetarium programming which is locally relevant for our visitors.	• By 2022, at least one new planetarium experience is developed per annum using local creatives.	
	• Our visitation grows year-on-year to a total visitation of 95,000/annum by 2026.	
	• 95% customer satisfaction rate.	
Refresh our education offering, ensuring we are a vital resource for teachers and learners, in line with current pedagogical practice and curriculum development.	• By 2023, education programmes are delivered to 45,000/annum from a representative geographic spread of locations across Auckland.	
	• 95% satisfaction rate from teachers.	
	• By 2023, new education programming is delivered that reflects current pedagogy and is considered an exemplar for education outside the classroom and in STEM.	
Ensure the gallery experience is vibrant and up-to-date, unique to our location and kaupapa.	• By January 2023, new galleries are installed and open to the public	
	• By the end of 2023, a feasibility study is undertaken for longer-term capital development of the site included partnership opportunities with mana whenua and other key stakeholders.	

*“We loved the Stardome experience.*

*The show was interactive, informative, and awe inspiring. The presentation was not robotic or overly rehearsed so it allowed for the audience to naturally engage and interact with the show. The presenter was clearly enthusiastic and passionate about the show and the subject matter which made the experience more meaningful.*

*Loved that they gave everyone rain checks for the telescope experience because it was still very light outside.*

*Highly recommended & magical!!!”*

### 3: Ensure organisational sustainability

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Maintain sound fiscal, operational, fiduciary and asset management practices.	• All statutory and reporting obligations are met in a timely manner.	✓
	• Appropriate policies and procedures are in place, and adhered to, for all fiscal, operational and fiduciary matters.	✓
	• By July 2021, an Asset Management Plan is developed and activated.	✓
Continuously develop kaimahi, board and volunteer capability to meet organisational requirements.	• By 2022, a staff professional development programme aligned to strategic objectives is developed and reviewed each year.	✓
	• By December 2021, a formal volunteer structure and programme is in place that provides meaningful work and contribution.	—
	• A purpose-built board is maintained, made up of members who have the skills, networks and capability to lead and oversee the successful operation of the organisation.	✓
Maximise self-generated income.	• By 2023, at least 50% of our income is self-generated.	↗
	• By 2026, sound retail management results in a year-on-year increase in ATV (average transaction value).	↗
	• By July 2023, a funding strategy is developed that aligns with our values and principles.	↗
Ensure Stardome is considered a great place to work.	• By July 2022, best-practice welfare policies and health and safety procedures are in place.	↗
	• Remuneration reflects parity with the sector.	✓
	• Turnover of staff is lower than the average for other similar organisations.	↗

### Goal 4: Improve our environmental performance

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Reduce the environmental impact of our operations.	• By 2022, environmental initiatives and targets are determined and achieved each year.	✓
	• By July 2022, all procurement includes consideration of environmental and social impact of product and services.	✓
Include environmental messaging in our programming and communication with the public wherever relevant.	• By December 2022, a new education programme is developed on the topic of climate change.	↗
	• By December 2022, a new planetarium experience is developed on the topic of climate change.	↗
	• By January 2023, new galleries will include messaging about climate and climate change as a planetary process.	↗
Create a carbon reduction roadmap to 2030.	• By January 2022, a roadmap to carbon neutrality is developed that determines achievable targets and initiatives.	✓
	• Goals for carbon reduction are set and achieved each year.	↗



## Goal 5: Become a bicultural organisation

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Develop and maintain meaningful relationship with Mana Whenua and Tangata Whenua.	• A strong relationship with the Tūpuna Maunga Authority is maintained, including contributing to the outcomes, obligations and aspirations for Maungakiekie.	✓
	• By 2022, kaumatua guidance is in place to advise on matters relevant to our operation.	✓
	• Partnership agreements for research and/or content co-development are in place with knowledge holders in the fields of Māori astronomy, traditional navigation, Maramataka and other relevant areas.	↗
Understand and uphold our Te Tiriti o Waitangi obligations.	• Biculturalism is entrenched through policies, procedures, tikanga and everyday practice.	↗
	• Staff maintain and develop their skills and competencies in tikanga, Te Tiriti, bicultural practice and Te Reo Māori.	↗
	• By 2023, a programme is in place to provide pathways for rangatahi interested in science, astronomy, and mātauranga.	↗
	• By January 2022 the tikanga specific to our location and kaupapa is understood and followed.	✓
Increase capability of our kaimahi, board, and volunteers' practice.	• By July 2023, we have sufficient qualified staff who can deliver programmes in Te Reo Māori.	↗
	• By July 2022, training and development needs of kaimahi are identified and an ongoing programme of professional development is put in place.	↗

## Goal 6: Tell our story

INITIATIVE	5YR SUCCESS MEASURES	PROGRESS 2022
Develop and maintain a brand which is future-fit and reflects our kaupapa.	• By 2022, a new brand is developed and launched.	↗
	• By 2026, brand awareness with Aucklanders increases 5% year-on-year.	↗
	• By December 2022, market research metrics consistently show a positive trend in brand equity (including loyalty, awareness, associations, perceived quality, conversion measures, ROI, and favourability measures).	↗
Develop an effective, brand-aligned communications strategy that clarifies audience, key messages, and customer platform preferences.	• By December 2021, brand health is measured and benchmarked, and year-on-year targets set.	—
	• By June 2022, a new communications strategy is developed, identifying year-on-year targets.	✓

# AUDITED FINANCIAL STATEMENTS

Directory	27
Statement of Comprehensive Revenue and Expense	28
Statement of Movements in Equity	29
Statement of Financial Position	30
Statement of Cash Flows	31
Notes to the Financial Statements	32
Audit Report	38



**STARDOME**  
OBSERVATORY  
PLANETARIUM

# Directory

## BOARD OF TRUSTEES

Dr Richard Sorrenson –  
Chairperson

Mr Michael Spraggon

Mr Mukseet Bashir

Dr Niven Brown

Ms Victoria Silwood

Mr Bill Thomas

Ms Cadence Kaumoana

Ms Catherine Foster

Ms Shannon Thomas

## NATURE OF BUSINESS

The principal activity of the organisation is research, education and entertainment services in the science of Astronomy from its premises located in One Tree Hill Domain, Auckland.

## REGISTERED OFFICE

670 Manukau Road  
Royal Oak, Auckland

# Statement of Comprehensive Revenue and Expense

For the year ended 30th June 2022

	Note	30 June 22	30 June 21
<b>REVENUE</b>			
<b>Revenue from non-exchange transactions</b>			
Covid-19 Subsidies Received		99,130	-
Government Grants		106,848	106,848
Operational Grants		1,531,766	1,536,451
Donations & Adopt a Star		25,039	37,450
<b>Total revenue from non-exchange transactions</b>		<b>1,762,783</b>	<b>1,680,749</b>
<b>Revenue from Exchange Transactions</b>			
Entrance Fees		321,542	501,964
Interest Received		1,867	3,606
Shop Income		80,935	120,455
Event Hire Income		40,516	77,940
Investment Income Received	9	3,744	-
Depreciation Recovered		4,076	-
Fair Value Adjustment on Endowment Investments	9	(21,114)	-
<b>Total revenue from exchange transactions</b>		<b>431,565</b>	<b>703,964</b>
<b>Total Revenue</b>		<b>2,194,348</b>	<b>2,384,713</b>
<b>LESS EXPENSES</b>			
Communication & Computer Expenses		89,588	85,368
Cost of Sales		59,311	71,342
Development Expenses		2,021	8,403
Financial Expenses		76,781	72,098
Interest		52,356	53,473
General Administration Expenses		49,014	54,272
Maintenance		153,946	175,943
Promotion		191,456	217,473
Shows/Displays		123,895	59,766
Wages & Salaries		1,035,653	1,051,397
Utilities, Rates and Insurance		55,628	52,278
Audit Fees		11,042	14,300
<b>Total Expenses</b>		<b>1,900,692</b>	<b>1,916,112</b>
<b>Operating Surplus for the year</b>		<b>293,656</b>	<b>468,601</b>
Special Purpose Capital Grants Received		243,998	21,002
<b>Less Other Expenses</b>			
Depreciation	7	215,394	263,099
Loss on disposal of PPE		194,730	-
<b>NET SURPLUS / (DEFICIT) FOR THE YEAR</b>		<b>127,530</b>	<b>226,504</b>
<b>Total Comprehensive Revenue and Expense for the year</b>		<b>127,530</b>	<b>226,504</b>

# Statement of Movements in Equity

For the year ended 30th June 2022

	30 June 22	30 June 21
<b>EQUITY AT START OF PERIOD</b>	1,555,132	1,328,628
<b>Total Comprehensive Revenue / (Expense) for the year</b>	<b>127,530</b>	<b>226,504</b>
<b>EQUITY AT END OF PERIOD</b>	<b>1,682,662</b>	<b>1,555,132</b>

# Statement of Financial Position

As at 30th June 2022

	Note	30 June 22	30 June 21
<b>EQUITY</b>			
Retained Earnings		1,682,662	1,555,132
<b>Total Equity</b>		<b>1,682,662</b>	<b>1,555,132</b>
Represented by:			
<b>CURRENT ASSETS</b>			
Cash and Cash Equivalents	5	1,185,318	844,675
Short Term Investments		-	395,116
GST Refund Due		610	1,381
Accounts Receivable & Prepayments		205,821	375,297
Inventories - Good held for re-sale	6	25,066	20,528
<b>Total Current Assets</b>		<b>1,416,814</b>	<b>1,636,996</b>
<b>NON CURRENT ASSETS</b>			
Property, Plant & Equipment	7	1,916,140	1,951,816
Endowment Investment Pool	9	378,886	-
<b>Total Non-Current Assets</b>		<b>2,295,026</b>	<b>1,951,816</b>
<b>TOTAL ASSETS</b>		<b>3,711,840</b>	<b>3,588,813</b>
<b>CURRENT LIABILITIES</b>			
Accounts Payable		112,660	73,675
Income in Advance		24,348	78,698
Accruals		168,220	123,358
Regional Facilities Auckland Loan	8	34,000	34,000
<b>Total Current Liabilities</b>		<b>339,228</b>	<b>309,731</b>
<b>NON CURRENT LIABILITIES</b>			
Regional Facilities Auckland Loan	8	1,689,950	1,723,950
<b>Total Non-Current Liabilities</b>		<b>1,689,950</b>	<b>1,723,950</b>
<b>TOTAL LIABILITIES</b>		<b>2,029,178</b>	<b>2,033,681</b>
<b>Net Assets</b>		<b>1,682,662</b>	<b>1,555,132</b>

Signed for and on behalf of the Board of Trustees who authorised these financial statements for issue on 20 September 2022.

Chairperson 

Trustee 

# Statement of Cash Flows

For the year ended 30th June 2022

	30 June 22	30 June 21
<b>CASHFLOWS FROM OPERATING ACTIVITIES</b>		
<b>Receipts</b>		
Receipts from Operating Grants	1,700,051	1,581,862
Receipts from Special Purpose Grants	83,998	21,002
Receipts from Donations	25,039	37,450
Receipts from Shop Sales	80,935	120,455
Receipts from Admissions	319,025	501,437
Receipts from Functions and Events	40,516	77,940
Receipts from Other transactions	7,820	-
Receipts from Government Grant	99,130	-
Interest Received	1,867	3,606
	<b>2,358,380</b>	<b>2,343,752</b>
<b>Payments</b>		
Payments to Suppliers	(732,320)	(738,474)
Payments to IRD - GST	771	6,779
Payments to Employees	(1,030,225)	(1,062,210)
	<b>(1,761,774)</b>	<b>(1,793,905)</b>
<b>Net Cash from operating activities</b>	<b>596,607</b>	<b>549,846</b>
<b>INVESTING ACTIVITIES</b>		
<b>Payments</b>		
Purchase of Property, Plant and Equipment	(164,724)	(64,299)
Short Term Investments	395,116	(2,947)
Endowment Investment Pool	(400,000)	-
<b>Net cash used in investing activities</b>	<b>(169,609)</b>	<b>(67,246)</b>
<b>FINANCING ACTIVITIES</b>		
<b>Payments</b>		
Interest Paid	(52,356)	(53,473)
Repayment of Borrowing	(34,000)	(46,500)
<b>Net cash used in financing activities</b>	<b>(86,356)</b>	<b>(99,973)</b>
Net cash increase (decrease) for the period	340,642	382,627
Cash at the beginning of the period	844,675	462,048
<b>Cash at end of period</b>	<b>1,185,318</b>	<b>844,675</b>

# Notes to Financial Statements

## I. REPORTING ENTITY

The reporting entity is Auckland Observatory and Planetarium Trust Board trading as Stardome. Auckland Observatory and Planetarium Trust Board is incorporated under the provisions of the Charitable Trusts Act 1957.

The financial statements are presented for the year ended 30 June 2022.

These financial statements and the accompanying notes summarise the financial results of activities carried out by the organisation.

These financial statements have been approved and were authorised by the board of Trustees on 20 September 2022.

## Basis of Preparation

### 2. STATEMENT OF COMPLIANCE

The financial statements have been prepared in accordance with Generally Accepted Accounting Practice in New Zealand ("NZ GAAP"). They comply with Public Benefit Entity International Public Sector Accounting Standards ("PBE IPSAS") and other applicable financial reporting standards as appropriate that have been authorised for use by the External Reporting Board for Not-For-Profit Entities. For the purposes of complying with NZ GAAP, the organisation is a public benefit not-for-profit entity and is eligible to apply Tier 2 Not-For-Profit PBE IPSAS on the basis that it does not have public accountability and is not defined as large.

The Board of Trustees has elected to report in accordance with Tier 2 Not-For-Profit PBE Accounting Standards and in doing so has taken advantage of all applicable Reduced Disclosure Regime ("RDR") disclosure concessions.

### 3. SUMMARY OF ACCOUNTING POLICIES

The significant accounting policies used in the preparation of these financial statements as set out below:

#### 3.1 Basis of measurement

These financial statements have been prepared on the basis of historical cost, as modified by fair value measurement of non-derivative financial instruments.

#### 3.2 Functionality and presentational currency

The financial statements are presented in New Zealand dollars (\$), which is the organisation's functional currency. All information has been presented in New Zealand Dollars.

#### 3.3 Foreign Currency Translation

Transactions in foreign currencies are initially accounted for at the ruling rate of exchange on the date of the transaction.

Trade creditors denominated in foreign currency are reported at the statement of financial position reporting date by applying the exchange rate on that date. Exchange differences arising from the settlement of creditors, or from the reporting of creditors at rates different from these at which they were initially recorded during the period, are recognised as income or expenses on the period in which they arise.

#### 3.4 Revenue

Revenue is recognised to the extent that it is probable that the economic benefit will flow to the organisation and the revenue can be reliably measured. The operations of the organisation are reliant on services provided by volunteers. Volunteer services are not recognised as revenue or expenditure. Revenue is measured at the fair value of the consideration received. This includes entrances fees and shop income. The following specific recognition criteria must be met before revenue is recognised.

##### Revenue from non-exchange transactions

###### Donations

Donations are recognised as revenue upon receipt and include donations from the general public for Stardome open days, and any donations from the general public.

###### Grant revenue

Grant revenue includes grants given by other charitable organisations, government agencies, philanthropic organisations and businesses. Grant revenue is recognised when any use or return conditions attached to the grant have been complied with. Where there are unfulfilled conditions attaching to the grant, the amount relating to the unfulfilled condition is recognised as a liability and released to revenue as the conditions are fulfilled.

##### Revenue from exchange transactions

###### Entrance Fees

Fees charged for show entry are recorded as revenue when the show takes place.

###### Shop income

Purchases of retail items are recorded as revenue at the time of purchase.

###### Event income

Fees charged for functions and events are recorded as revenue when the function or event takes place.

###### Interest income

Interest revenue is recognised as it accrues, using the effective interest method.



# Notes to Financial Statements

## 3.5 Financial instruments

Financial assets and financial liabilities are recognised when the organisation becomes a party to the contractual provisions of the financial instrument.

The organisation derecognises a financial asset or, where applicable, a part of a financial asset or part of a group of similar financial assets when the rights to receive cash flows from the asset have expired or are waived, or the organisation has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party and either:

- The organisation has transferred substantially all the risks and rewards of the asset, or
- The organisation has neither transferred nor retained substantially all the risks and rewards of the asset but has transferred control of the asset.

### Financial assets

Financial assets within the scope of PBE IPSAS 29 Financial Instruments: Recognition and Measurement are classified as financial assets at fair value through surplus or deficit, loans and receivables, held-to-maturity investments or available-for-sale financial assets. The classifications of the financial assets are determined at initial recognition.

The categorisation determines subsequent measurement and whether any resulting income and expense is recognised in surplus or deficit or in other comprehensive revenue and expenses. The organisation's financial assets classified as loans and receivables include: cash and cash equivalents, short term investments, receivables from non-exchange transactions, and receivables from exchange transactions.

All financial assets except for those at fair value through surplus or deficit are subject to review for impairment at least at each reporting date. Financial assets are impaired when there is any objective evidence that a financial asset or group of financial assets is impaired. Different criteria to determine impairment are applied for each category of financial assets which are described below.

### Financial assets at fair value through surplus or deficit

Financial assets at fair value through surplus or deficit include items that are either classified as held for trading or that meet certain conditions and are designated at fair value through surplus or deficit through initial recognition. The endowment investment pool financial asset is classified in this category.

### Receivables

Receivables are non-derivative financial assets with fixed or determinable payments that are quoted in an active market. After Initial recognition, these are measured at amortised cost using the effective interest method, less any allowance for impairment.

The organisation's cash and cash equivalents, receivables from exchange transactions and receivables from non-exchange transactions fall into this category of financial instruments.

### Impairment of financial assets

The organisation assesses at the reporting date whether there is objective evidence that a financial asset or group of financial assets is impaired. A financial asset or a group of financial assets is impaired and impairment losses are incurred and recorded in surplus or deficit if there is objective evidence of impairment as a result of one or more events that occurred after the initial recognition of the asset (a "loss event") and that loss event has an impact on the estimated future cash flows of the financial asset or the group of financial assets that can be reliably estimated.

### Financial Liabilities

The organisation's financial liabilities include trade and other creditors (excluding GST and PAYE), employee entitlements, loans and borrowings and deferred income (in respect to grants whose conditions are yet to be complied with).

All financial liabilities are initially recognised at fair value (plus transaction cost for financial liabilities not at fair value through surplus or deficit) and are measured subsequently at amortised cost using the effective interest method except for financial liabilities at fair value through surplus or deficit.

## 3.6 Cash and cash equivalents

Cash and cash equivalents include cash on hand, deposits held on call at banks and are short term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value.

## 3.7 Term investments

Short term investments comprise term deposits which have a term of greater than three months and less than one year.

## 3.8 Inventories

Inventories are stated at the lower of cost and net realisable value, with due allowance for any damaged and obsolete stock items.

Cost is calculated on an average basis and includes expenditure incurred in acquiring inventories and bringing them to a location and condition available for sale.

Net realisable value is the estimated selling price in the ordinary course of business.

# Notes to Financial Statements

## 3.9 Property, plant and equipment

Items of property, plant and equipment are measured at cost less accumulated depreciation and impairment losses. Cost includes expenditure that is directly attributable to the acquisition of the asset. Where an asset is acquired through a non-exchange transaction, its cost is measured at its fair value as at the date of acquisition.

### Additions and subsequent costs

Subsequent costs and the cost of replacing part of an item of property, plant and equipment is recognised as an asset if, and only if, it is probable that future economic benefits or service potential will flow to the organisation and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognised.

In most instances, an item of property, plant and equipment is recognised at its cost. Where an asset is acquired at no cost, or for a nominal cost, it is recognised at fair value at the acquisition date.

All repairs and maintenance expenditure are charged to surplus or deficit in the year in which the expense is incurred.

### Disposals

An item of property, plant and equipment is derecognised upon disposal or when no further future economic benefits or service potential are expected from its use or disposal.

When an item of property, plant or equipment is disposed of, the gain or loss recognised in the surplus or deficit is calculated as the difference between the net sale proceeds and the carrying amount of the asset.

Depreciation is charged on a straight-line basis over the useful life of the asset. Depreciation is charged at rates calculated to allocate the cost or valuation of the assets less any estimated residual value over its remaining useful life:

Buildings and Dome	2.0% - 13.5%
Fixed Astronomical Equipment	2.0% - 10.0%
Telescopes and Accessories	2.6% - 30.0%
Planetarium Equipment	10.0% - 25.0%
Furniture and Fittings	2.0% - 33.0%
Projection and Sound System	6.7% - 6.7%
Computers	9.0% - 30.0%
Displays and Exhibits	3.8% - 25.0%
Upgrade Project	10.0% - 33.3%

Depreciation methods, useful lives and residual values are reviewed at each reporting date and are adjusted if there is a change in the expected pattern of consumption of the future economic benefits or service potential embodied in the asset.

## 3.10 Leases

Payments on operating lease agreements, where the lessor retains substantially the risks and rewards of ownership of an asset, are recognised as an expense on a straight-line basis over the lease term.

## 3.11 Borrowing costs

All borrowing costs are expensed in the period they occur. Borrowing costs consist of interest and other costs that an entity incurs in connection with the borrowing of funds.

## 3.12 Employee benefits

These include wages, salaries, annual leave and sick leave.

Liabilities for wages and salaries, and accumulated annual leave are recognised in surplus or deficit during the period in which the employee provided the related services. Liabilities for the associated benefits are measured at the amounts expected to be paid when the liabilities are settled.

## 3.13 Income tax

Due to its charitable status, the organisation is exempt from income tax.

## 3.14 Goods and services tax (GST)

Revenues, expenses, and assets are recognised net of the amount of GST except for receivables and payables, which are stated with the amount of GST included.

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

Cash flows are included in the statement of cash flows on a net basis and the GST component of cash flows arising from investing and financing activities, which is recoverable from, or payable to, the Inland Revenue Department is classified as part of operating cash flows.

# Notes to Financial Statements

## 4. SIGNIFICANT ACCOUNTING JUDGEMENTS, ESTIMATES AND ASSUMPTIONS

The preparation of the organisation's financial statements requires management to make judgements, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the accompanying disclosures.

### Judgements

In the process of applying the organisation's accounting policies management has made the following judgements, which have the most significant effect on the amounts recognised in the financial statements.

### Useful lives and residual value

The useful lives and residual values of assets (as detailed in note 3.9) are assessed using the following indicators to determine potential future use and value from disposal:

- The condition of the asset
- The nature of the asset, its susceptibility and adaptability to changes in technology and processes
- The nature of the processes in which the asset is deployed
- Availability of funding to replace the asset
- Changes in the market in relation to the asset

## 5. CASH AND CASH EQUIVALENTS

Cash and cash equivalents include the following:

	2022 \$	2021 \$
<b>Cash at Bank</b>	1,185,318	844,675

## 6. INVENTORY

Inventory held for sale or provision of services at commercial terms:

	2022 \$	2021 \$
<b>Inventory Holding</b>	25,066	20,528

# Notes to Financial Statements

## 7. PROPERTY, PLANT AND EQUIPMENT

	Cost as at 30/06/21	Accum. Dep as at 30/06/21	NBV as at 30/06/21	Additions/ Disposals	Depreciation 2022	Cost as at 30/06/22	Accum. Dep as at 30/06/22	NBV as at 30/06/22
Building and Dome	2,081,479	945,356	1,136,125	143,656	64,157	2,225,136	1,009,513	1,215,624
Fixed Astronomical Equipment	232,339	119,093	113,247	-	9,603	232,339	128,696	103,643
Telescopes and Accessories	100,285	41,226	59,059	4,367	6,615	104,651	47,841	56,811
Planetarium Equipment	871,182	542,395	328,787	21,059	37,915	717,885	405,954	311,931
Furniture and Fillings	231,574	181,054	50,520	5,275	15,000	213,946	183,701	30,245
Projection Sound System	40,770	38,120	2,650	-	2,650	40,770	40,770	-
Computers	199,672	165,724	33,948	5,154	24,639	204,826	190,363	14,464
Displays and Exhibits	439,207	223,539	215,669	-	45,094	439,207	268,633	170,575
Upgrade Project	158,946	147,134	11,812	-	9,721	158,946	156,855	2,091
Work in Progress	-	-	-	10,756	-	10,756	-	10,756
<b>TOTALS</b>	<b>4,355,458</b>	<b>2,403,640</b>	<b>1,951,816</b>	<b>179,718</b>	<b>215,394</b>	<b>4,348,463</b>	<b>2,432,325</b>	<b>1,916,140</b>

## 8. LOANS

As part of the funding of Auckland Observatory and Planetarium redevelopment the Board obtained a loan of \$1,000,000 from Auckland City. An additional \$865,000 was provided by Auckland City in September 2008 to complete the upgrade.

As part of the restructure of the governance of the Auckland region the Auckland Council assigned these loans to Regional Facilities Auckland under the vesting order on 1 November 2010. In 2016 these loans were re-negotiated into a single loan with principal repayments of \$34,000 per annum from July 2020.

The interest rate on the loan at balance date is 3.0% and the final maturity date is 30 March 2073.

The fair value of this loan has not been disclosed as the Trustees consider that it is not practicable to estimate that value within an acceptable level of reliability within the restraints of timeliness and cost.

## 9. ENDOWMENT INVESTMENT POOL

In November 2021 the Trust Board moved to adopt a Statement of Investment Policy and Objectives (SIPO) which sets out the objectives and policies that govern investment decisions relating to gifts that the Board's Trustees have accepted, or decided to treat, as suitable to be invested in an Endowment Investment Pool.

The Trust Board moved to invest \$400,000 attributable to the long-held gift from the Edith Winstone Blackwell Trust. In February 2022 this investment was placed with Trust Investments Management Limited's ESG Balanced Fund.

A summary of Endowment Investment Pool activity is as follows:

	2022 \$	2021 \$
<b>Investment Placed</b>	<b>400,000</b>	-
Fair Value Adjustment	-21,114	-
<b>Closing balance</b>	<b>378,886</b>	-
		-
Distributions received	3,744	-

# Notes to Financial Statements

## 10. RELATED PARTY TRANSACTIONS

The key management personnel, as defined by PBE IPSAS 20 Related Party Disclosures, are the members of the governing body which is comprised of the Board of Trustees and the Chief Executive Officer, and senior Management.

No remuneration is paid to members of the Board of Trustees. The aggregate remuneration of key management personnel and the number of individuals, determined on a full-time equivalent basis, receiving remuneration is as follows:

	2022 \$	2021 \$
	377,031	296,884
Number of people (FTE)	3	2

## 11. LEASES/COMMITMENTS

As at reporting date, the Board of Trustees has entered into the following non-cancellable operating leases:

	2022 \$	2021 \$
Less than 1 Year	60,357	66,982
Number of people (FTE)	84,406	99,149

## 12. CAPITAL COMMITMENTS

At reporting date, the Trust Board has contractual commitments of \$134,009 (USD \$83,675) for the upgrade of the planetarium seating to be completed in the next financial year. The Trust Board has approved a gallery redevelopment project with a budgeted cost of \$600,000 to be completed in the first half of 2023. At reporting date no material contracts have been entered into in relation to the gallery project (2021 capital commitments: \$122,476).

## 13. CONTINGENT ASSETS AND LIABILITIES

There are no contingent assets or liabilities at reporting date. (2021: Nil)

## Independent Auditor's Report

# To the Trustees of Auckland Observatory and Planetarium Trust Board

### Opinion

We have audited the financial statements of Auckland Observatory and Planetarium Trust Board ("Trust"), which comprise:

- the statement of financial position as at 30 June 2022;
- the statement of comprehensive revenue and expense for the year then ended;
- the statement of movements in equity for the year then ended;
- the statement of cash flows for the year then ended; and
- the notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements on pages 28 to 37 present fairly, in all material respects, the financial position of Auckland Observatory and Planetarium Trust Board as at 30 June 2022, and its financial performance and its cash flows for the year then ended in accordance with Public Benefit Entity Standards Reduced Disclosure Regime issued by the New Zealand Accounting Standards Board.

### Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (New Zealand) (ISAs (NZ)). Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the financial statements* section of our report.

We are independent of the Trust in accordance with Professional and Ethical Standard 1 *International Code of Ethics for Assurance Practitioners (including International Independence Standards) (New Zealand)* issued by the New Zealand Auditing and Assurance Standards Board, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Other than in our capacity as auditor, the firm has no other relationship with, or interests in, Auckland Observatory and Planetarium Trust Board.

### Other information

The Trustees are responsible for the other information on pages 2 to 27 (but does not include the financial statements and our auditor's report thereon), which we obtained prior to the date of this auditor's report. Our opinion on the financial statements 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, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, 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.

### **Responsibilities of the Trustees for the financial statements**

The Trustees are responsible, on behalf of Auckland Observatory and Planetarium Trust Board, for the preparation and fair presentation of the financial statements in accordance with Public Benefit Entity Standards Reduced Disclosure Regime, and for such internal control as those charged with governance determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Trustees are responsible, on behalf of the Trust, for assessing the Trust's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the Trustees either intend to liquidate the Trust or to cease operations, or have no realistic alternative but to do so.

### **Auditor's responsibilities for the audit of the financial statements**

Our objectives are to obtain reasonable assurance about whether the financial statements 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 conducted in accordance with ISAs (NZ) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. A further description of the auditor's responsibilities for the audit of the financial statements is located at the XRB's website at:

<https://www.xrb.govt.nz/assurance-standards/auditors-responsibilities/audit-report-8/>

### **Who we report to**

This report is made solely to the Trustees, as a body. Our audit has been undertaken so that we might state to the Trustees those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than Auckland Observatory and Planetarium Trust Board and its Trustees as a body, for our work, for this report, or for the opinions we have formed.

A handwritten signature in blue ink that reads 'RSM'.

**RSM Hayes Audit**  
Auckland

23 September 2022

PHOTOGRAPHY: ©JOSH KIRKLEY



[STARDOME.ORG.NZ](http://STARDOME.ORG.NZ)



**STARDOME**  
OBSERVATORY  
PLANETARIUM