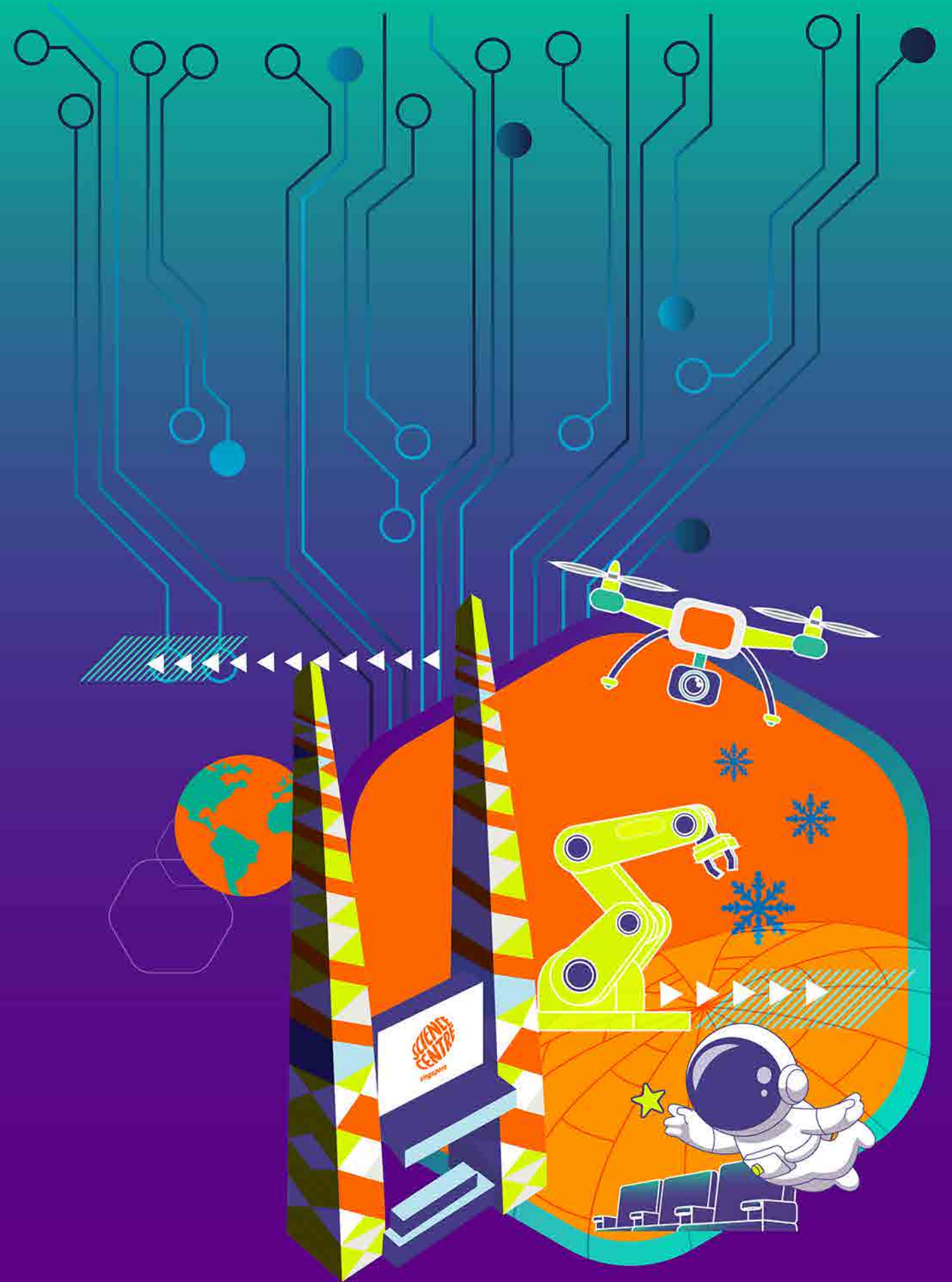


Science Centre Board's **Annual Report** 2023 - 2024





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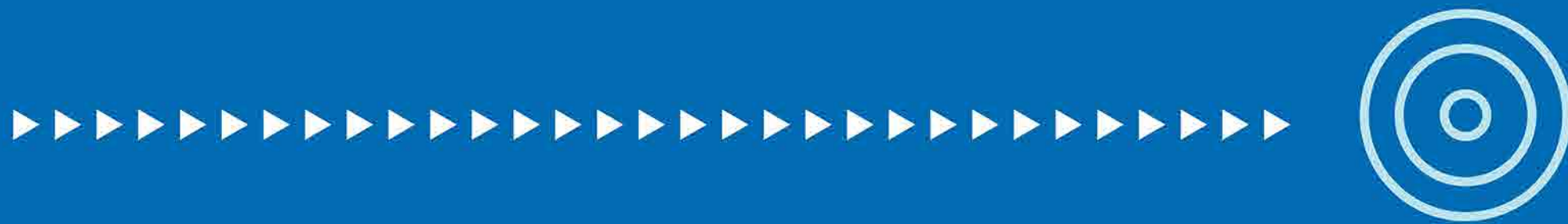
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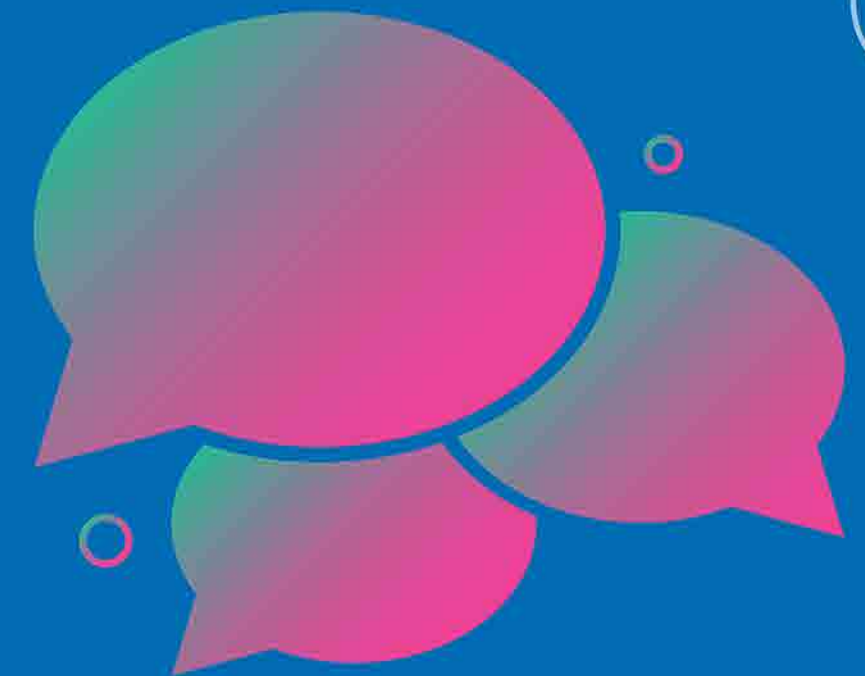
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Reflections



- Chairman's Message
- Chief Executive's Message



Chairman's Message



Ms Tan Yen Yen
Chairman,
Science Centre Board

Helping the community discover connections to STEM drives everything we do at the Science Centre Singapore (SCS), a goal I can confidently say we achieved in 2023.

We continued creating insightful and immersive exhibitions, compelling and educational programmes, to nurture the next generation of STEM innovators and thinkers.

As I look back on the year, I am proud to see that we have accomplished this ambition and will maintain this momentum as Singapore's premier science institution.

A new chapter

As Chairman of the Science Centre Board, I take my role seriously in supporting the work the Centre does in inspiring young minds, nurturing a love for STEM and learning, and encouraging children to be curious.

Championing holistic STEM education has been a key ambition of the Board and we have made tremendous progress over the years in raising awareness and sparking conversations about its importance through our programmes and partnerships.

From annual award-winning immersive community STEM events like *UNTAME* to KidsSTOP™ - Singapore's first children's Science Centre, it has been a privilege to be a part of this journey of creating memorable edutainment experiences.

The past 12 years have been wonderful, and it is time to pass the baton to Mr Peter Ho, Science Centre's new Chairman. A vocal and passionate STEM practitioner and advocate, Mr Ho's expertise and experience as Executive Chairman and Co-founder of high-tech engineering solution provider, HOPE Technik will serve SCS well in its mission of nurturing a passion for science among future generations.

As we turn the page and begin the next chapter, one thing that will never change is the Centre's commitment to creating more immersive and inclusive activities to inspire and educate young minds to be future-ready. One such example is *Going Viral*, a unique travelling exhibition that raises awareness around pandemic management and prepares our community for the next crisis. As stewards of SCS, it is our privilege to advocate for STEM literacy and groom a generation of well-rounded learners and sharp decision makers, and I am confident our new Chairman will continue to build on this mission.

Fortifying our green economy

Grooming the next generation also means giving them the right tools to safeguard the future of our planet. With climate change continuing to be a global challenge, the role of science and technology in building a sustainable future has never been more important. According to the World Meteorological Organisation, the past nine years have been the warmest on record, making it more imperative than ever to restore Earth's vitals.

Hence, we have placed sustainability at the heart of our work to educate our community on everyone's role in helping advance Singapore's national agenda on sustainable development, and a greener economy.

Our *Young Sustainability Champion* initiative, part of the *Young Scientist Badge Scheme (YSBS)*, aims to develop awareness among students on environmental issues and spark innovative solutions in line with the United Nations Sustainable Development Goals (UNSDGs). Over two weeks, our sustainability champions embarked on a mission to create products and/or solutions to tackle sustainability challenges that our world faces.

Studies have shown that climate change education can be an effective strategy and we hope such initiatives that empower self-directed learning will help youths understand the impact of their current actions on the planet tomorrow.

Sparking curiosity and innovation

Science and technology have helped shape Singapore in many ways, from healthcare to infrastructure, as well as the environment we live in. Securing our future means continuing to provide access to STEM education.

With scientific knowledge constantly evolving, SCS will continue to develop new ideas to keep pace with society's challenges, as well as advancements in science and technology. As construction of the new Centre begins, we are working hard to develop new programmes and exhibits that encourage more dialogue on real-world issues such as sustainability, and emerging technologies like generative artificial intelligence.

The new Centre is envisioned to be a one-stop destination that fosters innovation, encourages discussion, and drives discovery by bringing science to life, all while providing more inclusive, cutting-edge facilities for our guests to learn about the world around them.

As the region's leading institution promoting public STEM education and engagement, we take our responsibility as a symbol of science and humanity seriously and aim to continuously improve and evolve with the community. We could not have come this far without the unwavering support of our partners, sponsors and colleagues, and I have no doubt that in 2024 and beyond, SCS will continue to scale new heights for a brighter, more innovative future.

STEM is for everyone

However, our journey in leveraging STEM to navigate global challenges does not stop at education, and not just confined to the STEM domain. We go beyond that, actively involving our audiences from all walks of life. Founding father of the United States Benjamin Franklin once said, "Tell me, and I forget, teach me and I may remember, involve me and I learn." As an institution that inspires lifelong learning, we endeavour to ignite our audiences' curiosity through immersive and experiential STEM-based initiatives by proactively embracing and advocating the STEM+ mindset, reflected in the various product offerings themed around STEM + Art, STEM + Ethics, STEM + Culture, STEM + Nature, STEM + History and so on.

These include competitions to strengthen our students' skills for growing industries, such as the *Asia Drone Championship (ADC)*, signature programmes such as *DiscovHER*, which champions gender diversity and inclusivity in STEM, as well as *Escape @ Science Centre (E.S.C.)*, which gamifies learning for guests through STEM-themed puzzles, and physical challenges. New experiences like the *Korea Festival* also offered something for everyone to discover - guests could learn about Korean culture and enjoy a showcase of artistic works by acclaimed artist, James Jean in collaboration with pop icons BTS.

The next generation of STEM professionals holds our greatest potential for building a brighter, better future. Providing blended learning experiences that challenge preconceptions and broaden horizons is the way forward for modern education, and we hope these new exhibition formats and experiences will continue to make STEM learning even more accessible.

Looking into the Future

In 2023, we also unveiled our plans for the new Science Centre, which will continue our efforts to foster a love for science and discovery through rich programming and unique STEM experiences for all ages.

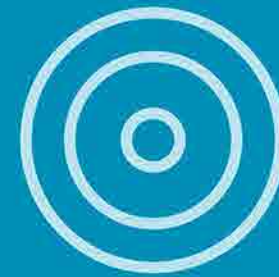
Research shows that learning literally begins at birth, which is why we have programmes and activities even for children less than two years old. Our new Centre will feature a larger KidsSTOP™ with more interactive exhibits to encourage young ones to explore and learn through play. For youths and adults, there will be more dialogues on real-world issues such as food security, climate change, and emerging technologies like generative AI.

To keep pace with advances in science and technology, we will continue to try new concepts to encourage learning, as well as support experimentation and entrepreneurship by providing spaces for innovation, such as the Eco-Lab, which enables students to conduct experiments in a garden setting. Do expect a more accessible Centre as we implement infrastructural and programmatic changes to build a more welcoming environment for all.

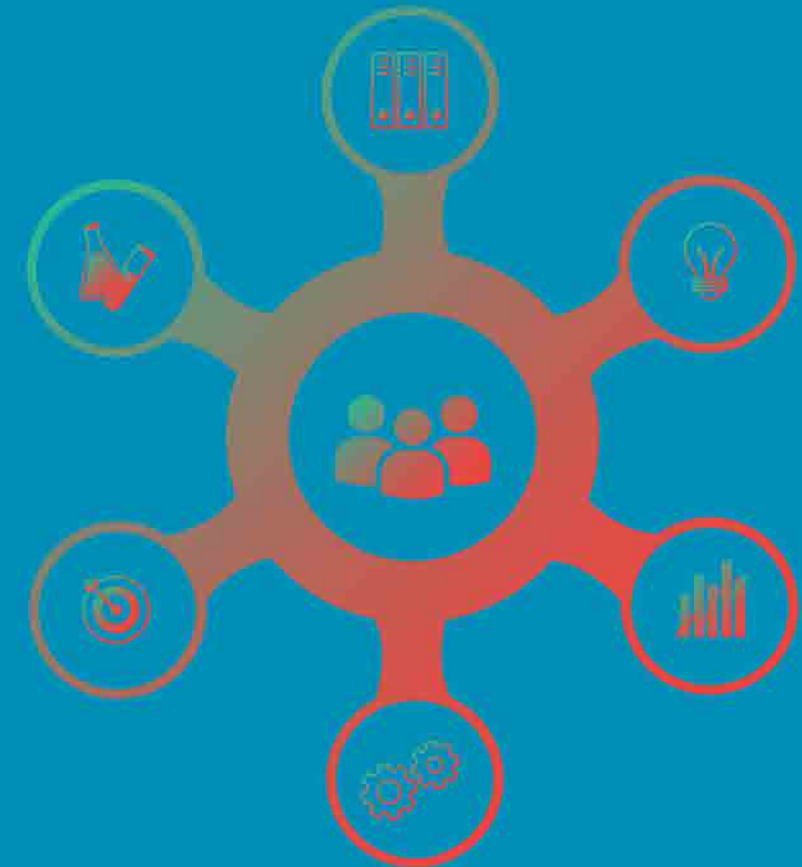
We couldn't have come this far without the constant support of our dedicated staff and invaluable partners. Thank you all for being here with us as we continue to lay the groundwork for our new Centre, and we look forward to another year of fostering innovation, sparking curiosity, and encouraging discovery.



Our Team



- Board Members
- Management Team



Board Members



Ms Tan Yen Yen
Chairman
(until Jan 2024)



Mr Peter Ho Yew Chi
Chairman
(from Feb 2024)



Mr Howie Lau How Sin



Mr John Cheng Chen Long



Mr Lim Boon Wee
Deputy Chairman



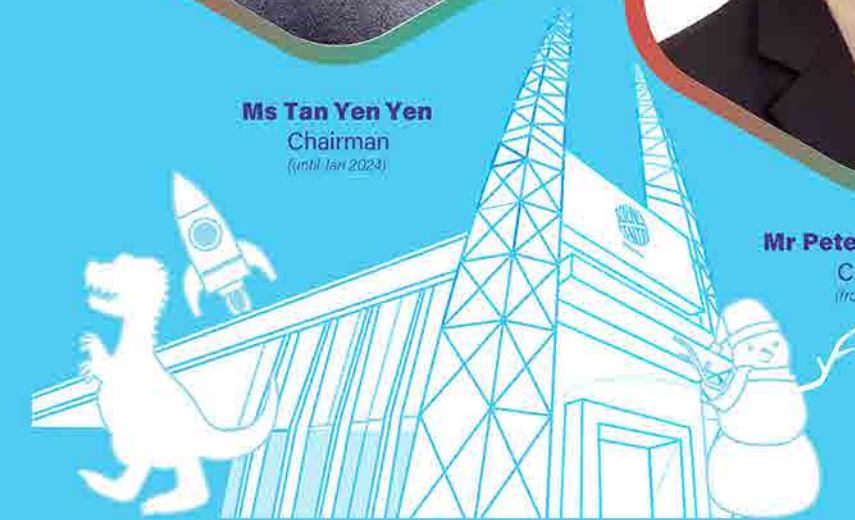
Ms Hwang Yu-Ning



Mr Hoe Wee Meng



Ms Juliana Kua Shu Tan





Professor Ng Huck Hui



Ms Nichol Ng Wee Teng



Mrs Nina Yang Chui Ching



Mr Oon Jin Teik



Professor Phoon Kok Kwang



Mr Richard Tan Chuan Lye



Mr Teo Kok Hong

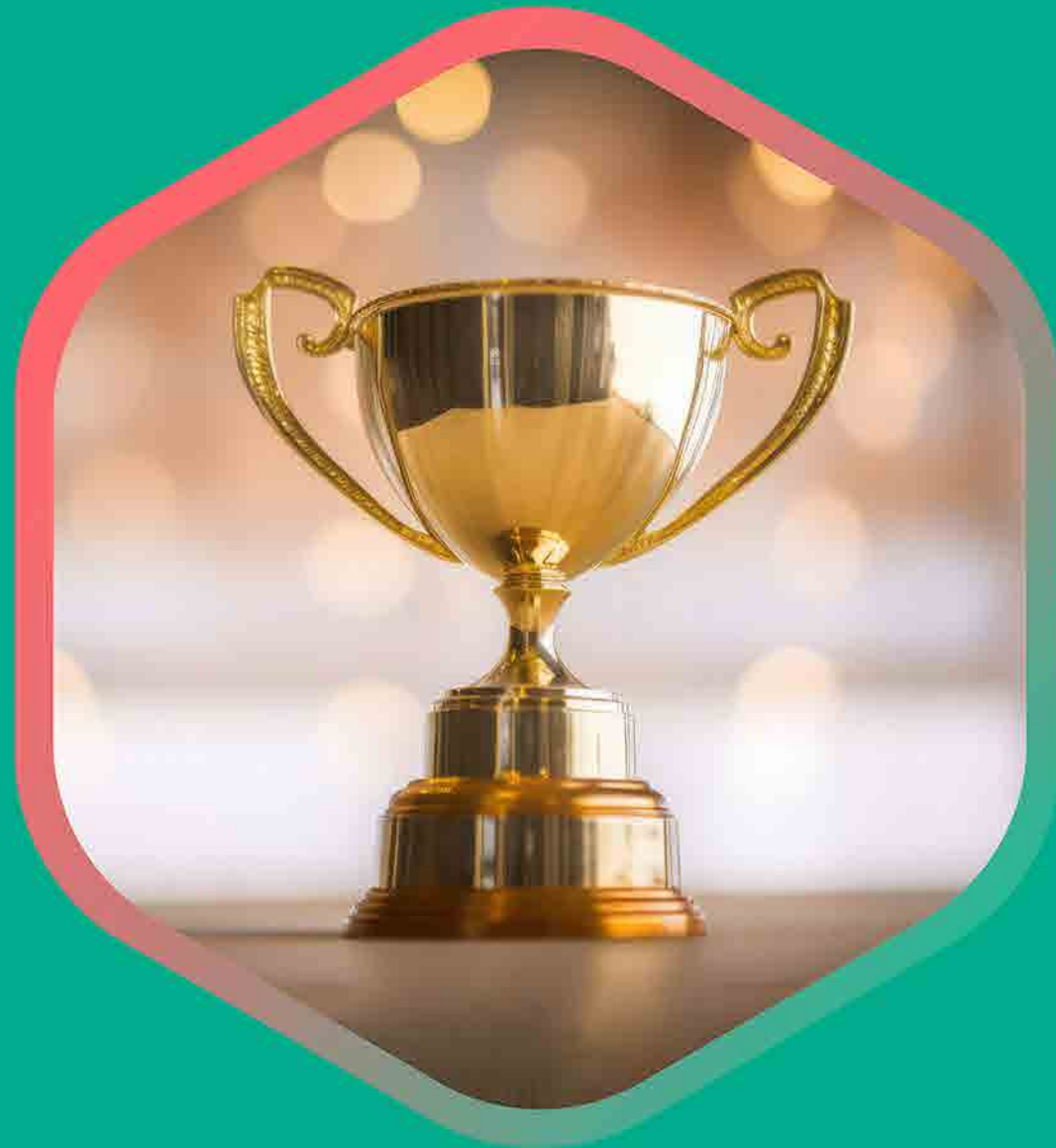


Mr Tony Zameczkowski



Mr Welby Altidor

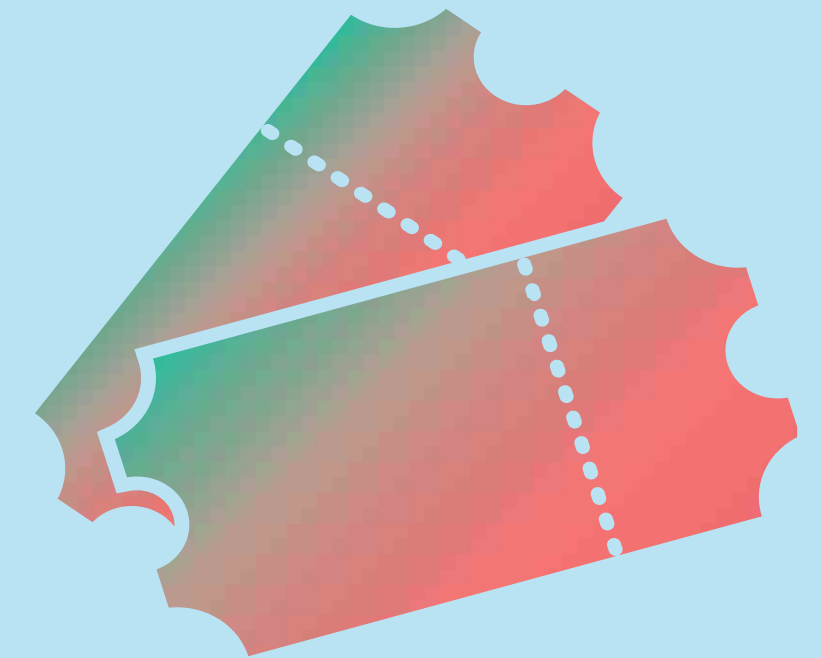
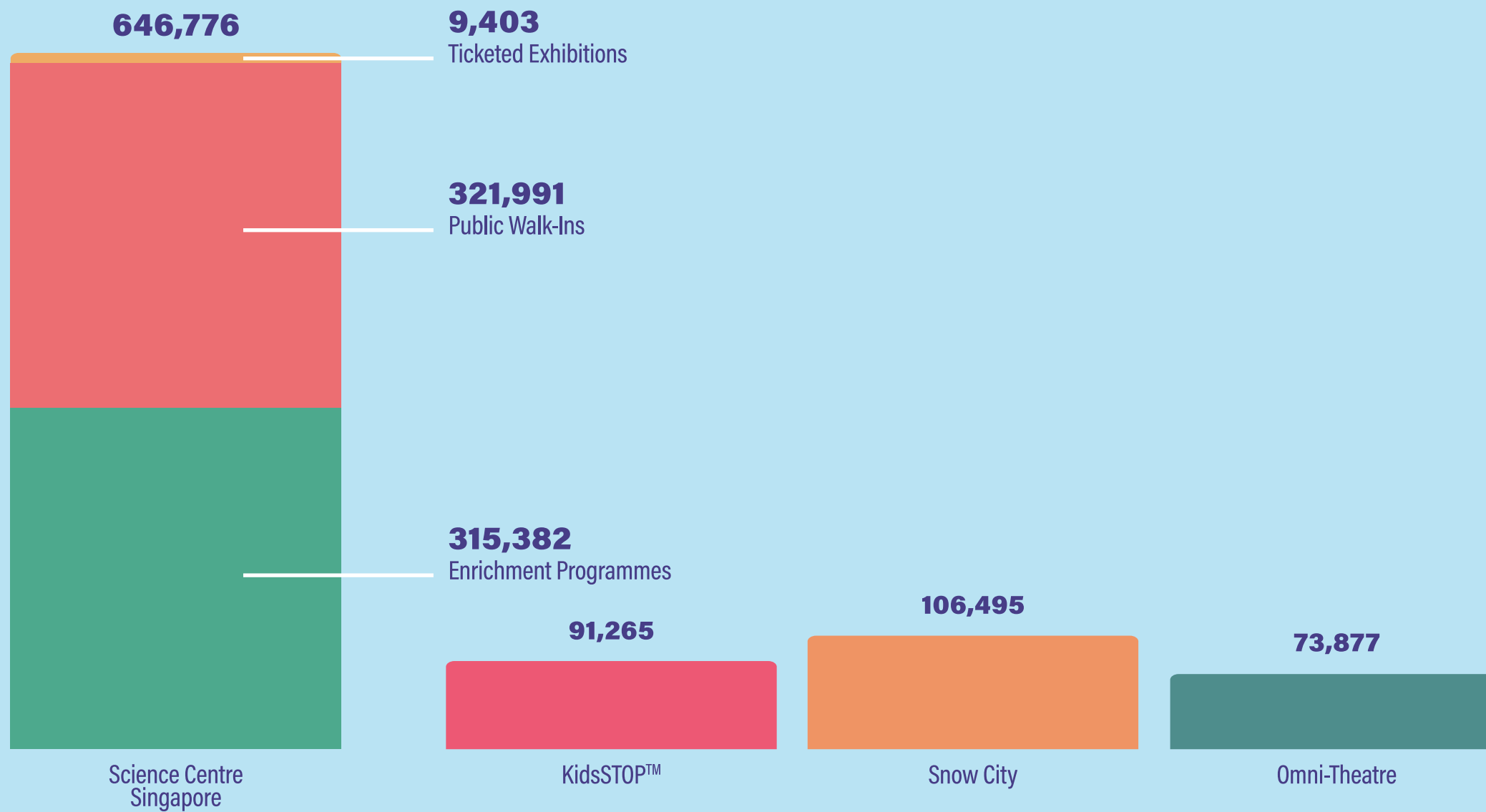
Achievements & Awards



- Visitorship
- List of Awards



Visitorship



List of Awards

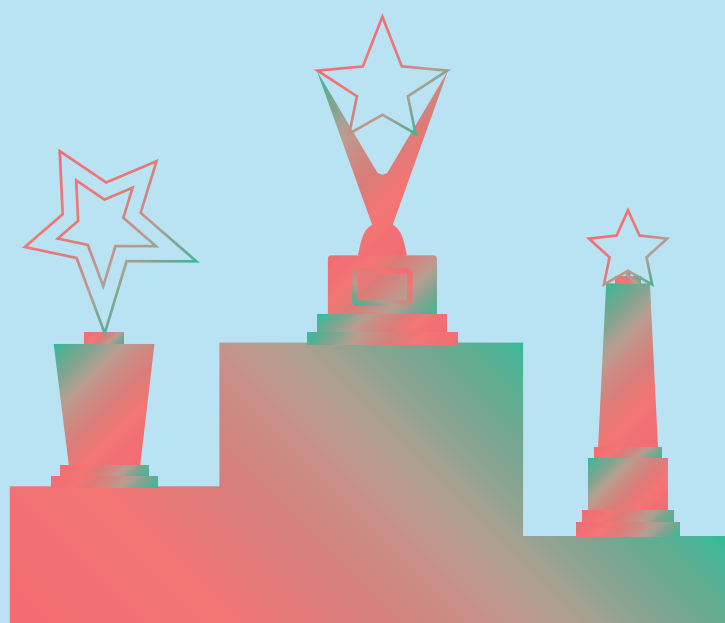
Corporate Awards

2023 MOE Innergy Awards

- Silver Award for the 'Young Scientist Badge Scheme and its Digitalisation Efforts'
- Commendation Award for the 'Mars I Do This? A multisensory theatrical performance for all'

TripZilla Excellence Awards 2023 for Activities & Attractions

- Best Family Attraction - Science Centre Singapore
- Most Popular Attraction for Children - KidsSTOP™



Staff Awards

National Day Awards 2023

The Public Administration Medal (Silver)

- **Daniel Tan Teck Meng**, Senior Director, Exhibitions & Galleries

The Commendation Medal

- **Tan Eng Whee**, Senior Manager, Facilities and Estate Management

The Efficiency Medal

- **Thangavel Velmurugan**, Technical Officer, Exhibitions

Association of Singapore Attractions Excellent Service Award (EXSA) 2023

The Science Centre Group of Attractions garnered 37 awards across three categories:

- 4 Star Awards
- 4 Gold Awards
- 29 Silver Awards

Star Award Recipients from Science Centre Singapore:

- **Muhammad Sollehuddin Bin Nasruddin**, Guest Experience & Retail Assistant
- **Peh Ai Choo**, Guest Experience & Retail Assistant

Star Award Recipients from Snow City:

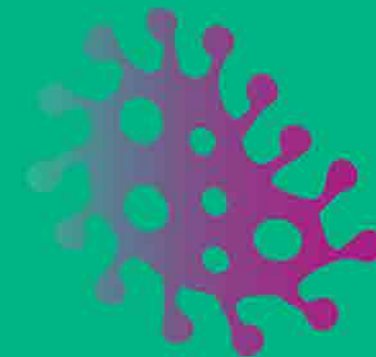
- **Veerappan Subash**, Operations Manager
- **Ramil Iumin Maningding**, Facilities Technician



Exhibitions & Programmes



- Gallery Exhibitions
- Special Projects and Travelling Exhibitions
- Science Outreach Programmes and Competitions, Events & Engagement
- Informal Science Programmes
- STEM Inc and Professional Development
- Gallery Experience
- Singapore Science Centre Global Pte Ltd



Temporary Exhibition

Going Viral

Aug 2023 - Mar 2024

Going Viral, a travelling community exhibition, presented the evolution of scientific knowledge and technologies that have empowered modern societies to effectively combat pandemics.

Using interactive games, quizzes and rich multimedia, the exhibition narrated the story of how humanity has adapted to and addressed the threats posed by invisible microbes. *Going Viral* also educated the public on the critical topic of pandemic preparedness and response amidst waning attention and possible complacency as we move into post pandemic times.

Hall C, Science Centre Singapore

While science has provided vaccines, pandemics are also social phenomena. A primary goal of the exhibition was to emphasise the dangers of misinformation and the detrimental impact of scientific scepticism on lives.



GAMIFIED EXPERIENCE



INTERACTIVE STORYTELLING ON MICROBIAL THREATS



COMBATING MISINFORMATION AND SCEPTICISM

Local paper artist Cheryl Teo created four dioramas depicting how the COVID-19 pandemic has changed our lives and how communities have banded together to fight the health crisis together.



Dr Janil Puthuchery, Senior Minister of State, Ministry of Communications and Information & Ministry of Health (centre), at the launch of *Going Viral* exhibition, with Ms Tan Yen Yen, Chairman, Science Centre Board (centre-left), Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board (centre-right) and *Going Viral* exhibition partners.



Let's Get Quizzical! engages guests with intriguing questions and educates them on the perils of misinformation.

Temporary Exhibition

Wildlife Photographer Of The Year

 **Nov 2023 -
9 Sep 2024**

The *Wildlife Photographer of the Year (WPY)* competition, hosted by the Natural History Museum (NHM) in London, is an annual international competition that celebrates the beauty and diversity of our natural world while shedding light on the risks it faces.

The exhibition is based on the *WPY* annual competition, one of the most well-known photography events in the world. The winning images, showcasing some of the best nature and wildlife photography, form a spectacular touring exhibition. This year marked its 59th iteration and the Singapore showcase at the Centre featured 19 categories, including

 **Hall A, Science Centre
Singapore**

Behaviour (Birds, Mammals, Amphibians and Reptiles, Invertebrates), Photojournalism, Oceans and Underwater and more.

The highly commended and winning photographs, carefully selected from a staggering 49,957 entries, are works of the remarkably talented and dedicated nature and wildlife photographers around the world.



19 CATEGORIES
OF
PHOTOGRAPHS



100 WINNING
IMAGES
SELECTED FROM
49,957 ENTRIES



© Alex Mustard



© Max Waugh



© Solvin Zankl

Permanent Exhibition

Little Ant Kingdom



The *Little Ant Kingdom* offers a unique playground experience for guests to step into the world of ants within an underground nest. The space design was inspired by the interconnected chambers of a real ant nest, featuring linked pockets of play areas within the exhibition. With a cosy loft layout, the ground floor represents the underground ant nest, while the mezzanine portrays the world above ground, known as the outworld.

Through interactive play, guests can physically explore the space and gain insights into the life of an ant, emphasising discovery, imagination, and free play. Additionally, the

space incorporates an immersive theatre experience, using the exhibition as a stage for a short interactive play about ants in crisis. During non-performance times, the setup is utilised to create exciting environments through light and audio manipulation, enhancing the overall guest experience.



INTERACTIVE
FREE PLAY



IMMERSIVE
THEATRE



DYNAMIC
ENVIRONMENT



Food block exhibit in the outworld that explores ants' foraging behaviour.



The central play structure highlighting characteristics of ant eggs and the brood chamber.



A close-up of a live formicarium featured during the school holidays.



View of the Little Ant Kingdom from behind one of the nooks and crannies at the mezzanine.

Special Projects & Travelling Exhibitions

Escape @ Science Centre



**Annexe Hall,
 Science Centre Singapore**

In collaboration with global technology-driven creator and entertainment company Gushcloud and Singapore-based theatre company How Drama, Science Centre launched *Escape@Science Centre (E.S.C.)*, an exciting series of STEM-themed escape rooms to captivate young adults who seek exhilarating new experiences.

E.S.C. comprises three escape room concepts: *Museum of Humankind*, *Shangri-La* and *Dr. X*, each offering a unique realm for participants to immerse themselves in and complete challenges using problem-solving skills and critical thinking.

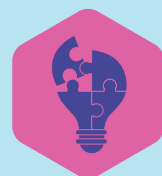
Guests can assume the roles of the last humans alive, avatars trying to make their way out of a glitching metaverse, or go on a hunt to find a lost friend. From ball-filled enclosures to quaking floors, *E.S.C.* adds a sprinkle of theatricality and a refreshing new way to explore STEM, attracting over 9,600 guests in 2023.



9,630 GUESTS



STEM-THEMED
 ESCAPE ROOMS

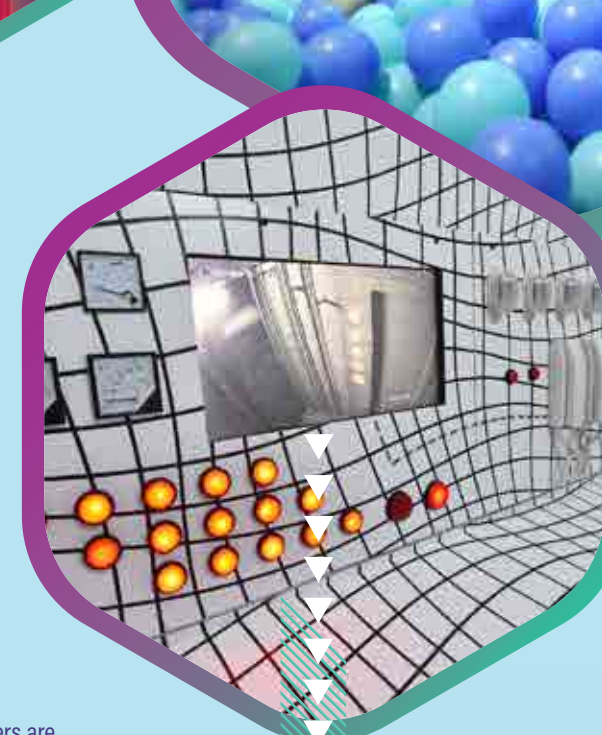


EXCITING
 PROBLEM-
 SOLVING
 CHALLENGES

Guests in the Museum of Humankind escape room, which focuses on climate issues and how human activities affect the planet.



The Shangri-La escape room, where players are trapped in a metaverse and need to restore an ancient artefact in order to escape.



The Dr. X escape room - a psychological thriller that isolates one player, who will have to work with the rest of the team to escape the eponymous antagonist.

Special Projects & Travelling Exhibitions

The ELECTRIFIED Show



23 May - 4 Jun 2023

The Centre debuted *The ELECTRIFIED Show (TES)*, Singapore's first-ever large scale in-house special effects production powered by STEM+. By weaving in various components of STEM+ with magic and illusion arts, the show sparked curiosity, and inspired guests to explore, innovate, and experiment.

Guests journeyed with *Spark*, the protagonist, on a time and space-defying adventure after he stumbled upon an enigmatic energy ball. The mysterious object gained the attention of *Rex*, the antagonist who chases *Spark* through time and space to acquire it. This immersive experience involved drones,



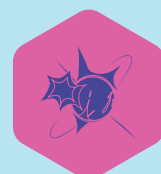
**Annexe Hall,
 Science Centre Singapore**

lasers, lights, robotics, magic and multimedia that left guests in awe.

The positive reception for *TES* generated anticipation for similar shows in the future at the Science Centre.



NUMBER OF GUESTS: 5,000 (PUBLIC AND SCHOOLS)



SPECIAL EFFECTS SPECTACLE



USE OF MAGIC AND ILLUSION ARTS



Rex levitating a rocket with an audience member onboard.



Spark teleporting through a portal into another dimension.



Rex levitating a dancer mid-air in an impressive act.

Special Projects & Travelling Exhibitions

Travelling Light Exhibition

The highly awaited *Travelling Light* exhibition was officially launched on 23 April 2023, bringing the Science Centre's exhibition directly to schools. With a focus on the topic of light, it featured 18 interactive exhibits offering students engaging hands-on experiences on topics such as Rayleigh scattering, reflections and properties of light.

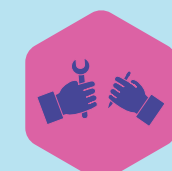
This exhibition was highly successful and reached out to over 24,000 students and members of public from April 2023 to January 2024.



SCIENCE CENTRE SINGAPORE GOES TO SCHOOL



18 INTERACTIVE EXHIBITS ON LIGHT



HANDS-ON EXPERIENCES



SCHOOL OUTREACH: 11



STUDENT OUTREACH: 14,369



PUBLIC OUTREACH: 10,028



LIBRARIES OUTREACH: 3



Elias Park Primary School students learning about reflection and refraction of light at the Light Island exhibit.

Tao Nan School students learning about scattering of light at the Colours in the Sky exhibit.

	Schools/Libraries	Date		Number of Students
		From	To	
1	Yusof Ishak Secondary School	20 Apr 2023	21 May 2023	1150
2	Elias Park Primary School	22 May 2023	26 May 2023	1080
3	Zhangde Primary School	26 Jun 2023	10 Jul 2023	1600
4	Ai Tong School	10 Jul 2023	21 Jul 2023	2000
5	Tampines North Primary School	21 Jul 2023	4 Aug 2023	1300
6	Radin Mas Primary School	4 Aug 2023	14 Aug 2023	1250
7	Jing Shan Primary School	14 Aug 2023	25 Aug 2023	920
8	Opera Estate Primary School	25 Aug 2023	30 Aug 2023	900
9	Tao Nan School	12 Sep 2023	22 Sep 2023	2100
10	Queenstown Public Library	24 Sep 2023	27 Oct 2023	3000
11	Gan Eng Seng Primary School	27 Oct 2023	3 Nov 2023	960
12	Yang Zheng Primary School	3 Nov 2023	15 Nov 2023	1109
13	Jurong Regional Library	29 Nov 2023	2 Jan 2024	3028
14	Bedok Public Library	1 Dec 2023	3 Jan 2024	4000



Ai Tong School students learning about colour blindness at the A Different View exhibit.



Zhangde Primary School students learning about mirrors and reflections at the Laser Maze exhibit in the Travelling Light exhibition.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

Singapore Science & Engineering Fair



Number of judges:
 438

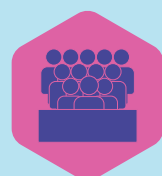
Singapore Science & Engineering Fair (SSEF) is a platform for 15 to 19 years old students to showcase their STEM research projects. The 2023 edition was the first in-person fair after the relaxation of COVID-19 pandemic measures. The competition received 534 project registrations, and 438 judges volunteered from various Institutes of Higher Learning (IHLs) and Research Institutes (RIs).

In all, 177 awards, including 51 Special Awards were given out. The event also featured activity booths and talks by STEM industry professionals, reaching out to more than 3,000 students and teachers from 72 schools. Six projects from *SSEF* represented Singapore at the esteemed *Regeneron International Science & Engineering Fair*



Number of projects:
 534

(*ISEF*), often likened to the Olympics of science competitions, where they clinched seven awards.



PRELIMINARY JUDGING:
 18 JAN TO 1 FEB 2023



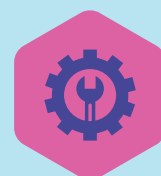
FINAL JUDGING DAY:
 8 MAR 2023



SSEF PUBLIC DAY:
 9 MAR 2023



LOCAL REPRESENTATION



PROMOTE INNOVATION IN ENGINEERING

Special Projects and Travelling Exhibitions



Booth by DSTA on Legged Robots for Security Applications.

Booth by VertiVeges on Advanced Indoor Farming Systems.

Informal Science Programmes

Main Category Project Awards	Number of Awards
Gold	20
Silver	33
Bronze	34
Merit	39

Junior Scientist Awards	Distinction	Merit
Project Awards	5	4
Video Awards	2	3

Partner	Activity Booths
Home Team Science and Technology Agency (HTX)	Security and Forensic Science Technologies
DSO National Laboratories	Saturated Absorption Spectroscopy in Defence R&D
Defence Science and Technology Agency (DSTA)	Legged Robots for Security Applications
VertiVegies Pte Ltd	Advanced Indoor Farming Systems
Singapore Land Authority (SLA)	3D Maps through Minecraft
Singapore University of Technology and Design (SUTD)	Music-producing Tesla coils
	3D Food Printer
Rolls-Royce	The Future of Flight



Mdm Lee Lin Yee, then Director, Sciences, Curriculum Planning and Development Division 1, Ministry of Education, presenting the silver award to one of the winning teams.



Booth by SUTD on music-producing Tesla coils.

Eight students represented Singapore at the ISEF.

Partners	Talks	Speakers
Home Team Science and Technology Agency (HTX)	Computational Forensics: Recognising the Unknown and Secure Our Borders	Dr Yuan Yi Di, Scientist at Disruptive Technologies Office
DSO National Laboratories	Physics - An Integral Part of Science and Engineering	Dr Lim Khan, Principal Scientist
Defence Science and Technology Agency (DSTA)	Legged Robots for Security Applications	Mr Bryan Ng Kin Loong, Head of Capability Development
James Dyson Foundation	Imagine a Better World through Design Engineering	Mr Brian Hu, Dyson Senior Electronics Manager
Public Utilities Board (PUB)	Clean Water from Clean Energy - Harnessing Solar Energy for a More Sustainable Tomorrow	Mr Nigel Ho, Senior Planner, Policy and Planning Department



Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board presenting the merit award to one of the winning teams.



**Science Outreach Programmes and Competitions,
 Events & Engagement**

National STEM Talent Search



Mar - Apr 2023

The Centre has been running the *National STEM Talent Search (NSTS)* since 1995 with support from the Ministry of Education (MOE) to sustain passion for science among the young, and reward students who have performed well in scientific research.

NSTS aims to motivate and accord national recognition to students who excel in science and technology. Participants had the opportunity to engage directly with the judges where they discussed their scientific aptitude and potential to pursue a research and development career.



**Number of projects:
 67**



SUSTAIN PASSION
 FOR
 SCIENCE FROM
 YOUNG



PRESTIGIOUS
 STEM
 COMPETITION



Winners of the National STEM Talent Search with Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board (far-left), Nobel Laureate Professor Sir Konstantin Sergeevich Novoselov, Chief Judge of NSTS (second from left), Professor Phoon Kok Kwang, NSTS Chairperson and Provost, Singapore University of Technology and Design (far- right), and Mdm Lee Lin Yee, then Director, Ministry of Education, Curriculum Planning and Development Division, Sciences Branch (second from right).

Professor Sir Konstantin Sergeevich Novoselov, NSTS 2023 Chief Judge (right) and Professor Yang Hui Ying (left), NSTS 2023 Judge in discussion to finalise the winners.



Science Outreach Programmes and Competitions, Events & Engagement

National STEM Championship

National STEM Championship (NSTEMC) is a media driven project that aims to create interest and awareness in STEM amongst students and the public.

Through the different phases including Quarter-Finals, Wildcard Round, Semi-Finals and Grand Finals, teams went through different STEM-related challenges held at various partner organisations.

The Grand Finals was held at the MediaCorp Campus and graced by Guest of Honour, Ms Gan Siow Huang, Minister of State, Ministry of Education & Ministry of Manpower.



MEDIA DRIVEN
PROJECT TO
PROMOTE STEM



Group photo of the finalists, with Guest of Honour, Ms Gan Siow Huang, Minister of State, Ministry of Education & Ministry of Manpower at the Grand Finals.



Semi-finalists from Group 1 with the challenge and venue partner, Singapore Civil Defence Force (SCDF).

Competition Period	Interaction Numbers	Viewership Numbers <i>*As of Feb 2024</i>
Jan - Aug 2023	40 Teams 160 Participants	meWatch: >12,100 YouTube: >7,700 TV: > 267,000

Partner Organisations for NSTEMC	
1	National University of Singapore (NUS)
2	Singapore University of Technology and Design (SUTD)
3	Agency of Science, Technology and Research (A*STAR)
4	A*STAR Graduate Academy
5	Singapore Civil Defence Force (SCDF)
6	Institute of Sustainability for Chemicals, Energy and Environment (ISCE2)
7	National Kidney Foundation, Singapore (NKF)
8	Singapore Land Authority (SLA)
9	NUS Research Centre on Sustainable Urban Farming (SURF)
10	Yusof Ishak Secondary School



Semi-finalists from Group 3 with the challenge and venue partner, National Kidney Foundation (NKF).

**Science Outreach Programmes and Competitions,
Events & Engagement**

Tan Kah Kee Young Inventors' Award



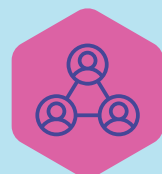
13 Feb - 14 Oct 2023

Tan Kah Kee Young Inventors' Award (TKKYIA) continued with its ambition to spark curiosity among young students and encourage them to design innovative inventions based on scientific principles. This year it featured a hybrid format including webinars, physical interviews, physical and virtual exhibitions.

An award ceremony was held to honour 54 individuals, who showcased their inventions at a physical exhibition. Additionally, a virtual exhibition was also set up, highlighting all 22 winning groups. Guests had the chance to not only explore the exhibits virtually, but also vote for their favourites and win attractive prizes.



427,000 broad-based outreach



INTERACTION
NUMBERS: 895
PARTICIPANTS
(WITH 436
ENTRIES)



PROMOTE
CREATIVITY
AMONGST THE
YOUNG



A group photo of the award winners.

Guest of Honour Mr Chee Hong Tat, then Acting Minister, Ministry of Transport and then Senior Minister of State, Ministry of Finance addressing the TKKYIA winners.

Science Outreach Programmes and Competitions, Events & Engagement

Singapore Science Buskers



20 Mar - 29 Oct 2023

Singapore Science Buskers (SSB) encourages communicating science in a creative manner by giving participants the opportunity to do a show-and-tell on any science topic. This year's edition saw over 950 participants from 402 teams.

The finals was held over two days at Sengkang Grand Mall where 50 teams showcased their efforts to the public to garner their votes.



982 participants from 402 teams



PROMOTE
SCIENCE
THROUGH
CREATIVE
COMMUNICATION



Group photo of the participants, judges and the public from the SSB finals at Sengkang Grand Mall.



Students busking to a panel of judges during the audition round at Science Centre Singapore.



A group of student finalists busking to the public at the Grand Finals.

**Science Outreach Programmes and Competitions,
Events & Engagement**

International Science Drama Competition



Apr and Sep 2023

The *International Science Drama Competition (ISDC)* exemplifies the Centre's efforts to weave arts and science to promote STEM. Themed *"Producing Green, Consuming Clean"*, this edition commemorated 2023 as the International Year of Millets and aligned with global concerns about sustainability.

Breaking free from the virtual format previously imposed due to the COVID-19 pandemic, the Grand Finals took place at the National Science Museum Thailand, Bangkok.

Teams from six countries participated across three categories, with the competition reaching a global audience through a live Facebook broadcast. Both Kuo Chuan



**Science Centre Singapore
& National Science Museum
Bangkok**

Presbyterian Primary School and Methodist Girls' School (Secondary), who represented Singapore in the Junior and Open Category respectively, won second place. Nanyang Girls' High School won the Merit Award for the Short Films category at the Grand Finals.

Participating Countries



	Number of Teams		
	Junior	Open	Short Films
Singapore Finals	9	5	10
Grand Finals	3	4	4



Teams from various schools bringing sustainability topics to life with a blend of theatre and science elements.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

Youth STEM Empowerment Programme



Jun - Nov 2023

Youth STEM Empowerment Programme (YSEP) is part of the Centre's commitment to power up the youth science movement. In collaboration with Amazon Web Services (AWS) and Bloomberg, the programme empowers youths with STEM knowledge to address real-world problems as part of the United Nations Sustainable Development Goals (UNSDGs).

Students aged 13 to 15 worked on solutions to address challenges identified by community partners Loving Heart and Disabled People's Association (DPA). These challenges focused on making improvements to items used by disabled people in their daily lives as well as raising awareness. Four groups of students were invited to further improve their



**Community partners involved:
 Loving Heart, Disabled People's Association**

prototypes during the incubation period. Participants were also given the opportunity to curate and conduct a series of virtual reality (VR) public outreach workshops at the regional libraries from 21 - 24 November.



105
 PARTICIPATING
 STUDENTS



6,894
 COMMUNITY
 HOURS SERVED



SPONSORS: AWS,
 BLOOMBERG

Mr Simon Tan, Operations Director, Amazon Web Services, learning more about a team's prototype to harness wind energy from train tunnels.



Dr Anne Dhanaraj, Senior Director, Education, Science Centre Board, learning about the prototypes created by the students for the underserved communities.



Group photo of participating students, sponsors and community partners at Canopy@JLink.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

DNA Month



4 - 30 Apr 2023

It was a significant month of DNA-related milestones including DNA Day, the 70th anniversary of the discovery of DNA's double helix, and the 20th anniversary of the Centre's very own DNA Lab.

A series of DNA-themed events and activities were organised to celebrate these milestones.

Key Highlights:

Young Geneticist Trail

Newly launched activity trail where participants earned their "I am a Young Geneticist" badge.

DNA Lab Workshop

Public engaged in curated lab activities using the DNA Lab equipment.



Science Centre Singapore

Public Genomics Forum

Co-hosted a series of public forums with PRECISE, on how genomics plays a vital part in everyday health.



PARTNERS INVOLVED:
 ILLUMINA,
 PRECISE



INTERACTION NUMBERS: 11,106



PROMOTE SCIENCE THROUGH ENGAGING ACTIVITIES



Dr Seow Shih Wee, Director, Corporate Services, PRECISE (left), Dr Chiang Jianbang, Consultant, Medical Oncology, National Cancer Centre Singapore (centre) and Dr Sharon Pek, Principal Research Officer, Clinical Research Unit, Khoo Teck Puat Hospital, spoke at the Understanding Genomics forum.



Guests participating in the fruit DNA extraction activity.



The DNA Lab open house showcasing a range of equipment including microscopes for guests to interact with.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

Brain Fest



18 - 27 May 2023

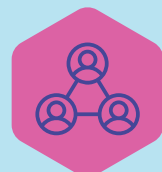


**Annexe Hall,
 Science Centre Singapore**

After a hiatus, *Brain Fest*, the long-anticipated mid-year activity for schools, made its return with the theme "*Magic Mystery Mayhem*".

Taking the format of a mass escape game, students raced against time to solve the disappearance of a magician and free him before his next show. The storyline was inspired by *The ELECTRIFIED Show (TES)*, a special effects science spectacle which was showcased alongside *Brain Fest*. The event was further complemented by a gallery trail, *Unmasking the Magic*.

Beyond applying concepts learnt in school to solve puzzles in this event, students also had an opportunity to gain deeper insights about the brain and its various functions.



INTERACTION
 NUMBERS:
 1,624 (1,459
 SCHOOLS AND
 165 COMMUNITY
 BENEFICIARIES)



PROMOTE STEM
 THROUGH
 INTERACTIVE
 ACTIVITIES



ENHANCE
 STUDENTS'
 UNDERSTANDING
 OF SCHOOL
 SYLLABUS



Participants working together in teams to solve various magician-themed puzzles.



Students attending the mass debriefing session that concluded each round of the game.



Participants retrieving their key souvenirs from a hat upon completion of the game.

**Science Outreach Programmes and Competitions,
Events & Engagement**

National Robotics Competition



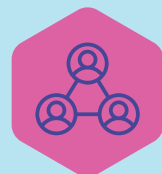
21 Aug - 9 Sep 2023

The *National Robotics Competition (NRC)* celebrated its 25th anniversary with the theme "*Sustainable Solutions*".

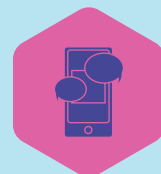
Students had to programme their robots to complete challenges themed around smart transportation and artificial intelligence. This long running initiative promotes interest and innovation in robotics as students have an opportunity to apply the STEM concepts learnt in school. As they develop their robots, they develop problem-solving skills, entrepreneurship, creative thinking and team spirit.



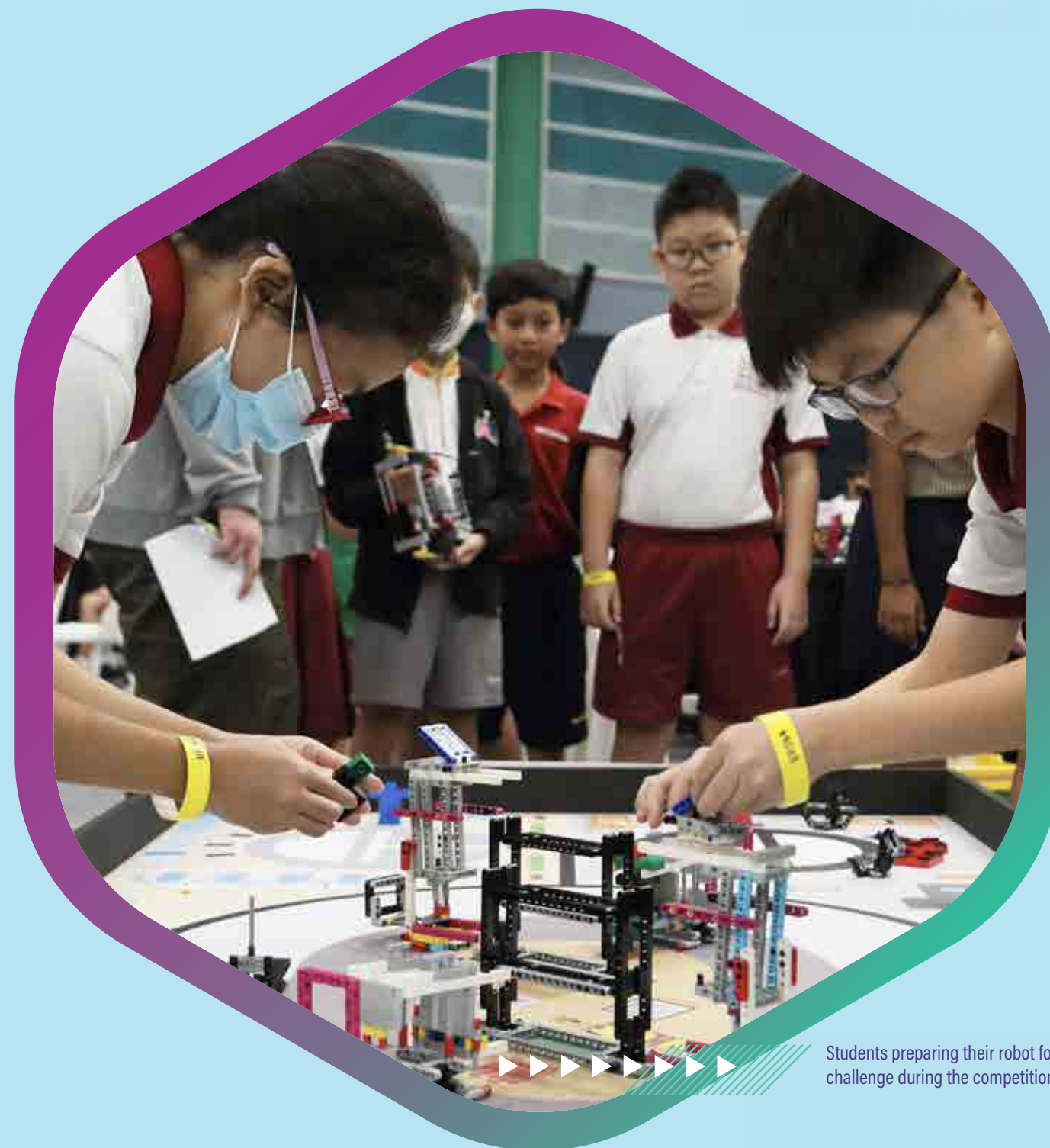
**Annexe Hall,
Science Centre Singapore**




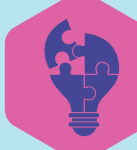


INTERACTION
NUMBERS: 2,500
(FROM 858
TEAMS)



FEATURED IN
LIANHE ZAobao,
MEDIACORP
TAMIL NEWS, CNA
938FM



Students preparing their robot for the next challenge during the competition.

- 
 TEAM SPIRIT
- 
 PROBLEM SOLVING SKILLS
- 
 CREATIVITY AND INNOVATION
- 
 BASICS OF CODING AND REAL-WORLD APPLICATIONS

Partners Involved	
1	Duck Learning Pte Ltd
2	WOW Education Pte Ltd
3	Singapore Polytechnic
4	RoboCup Singapore
5	Global Robotics Games
6	ABB Ptd Ltd (Battery Sponsor)



Students presenting their robot to the judges.



Guest of Honour, Mr Dylan Ng Terntzer (centre-right), CEO, Lionsbot International and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, (centre-left) along with other judges applauding the demonstration by a preschool team.

**Science Outreach Programmes and Competitions,
Events & Engagement**

Asia Drone Championship



9 - 10 Dec 2023

In partnership with Multi Rotor Association Singapore (MRAS), *Asia Drone Championship (ADC)*, the premier drone racing event in the region, returned with 56 teams from 14 countries.

This year, participants and audiences had the opportunity to witness the action up-close and immerse themselves in the race with a first-person view from the cockpit. Besides the main racing event, audiences got to enjoy various fringe activities such as drone soccer, drone simulations, drone quizzes, slot car racing and exciting carnival games.

Participating Countries



**Annexe Hall,
Science Centre Singapore**



**PARTNERS INVOLVED:
MULTIROTOR ASSOCIATION OF SINGAPORE**



NUMBER OF PARTICIPATING TEAMS: 56

Main Race Winners

1 st Place	Minseo Lee - FlowerPig
2 nd Place	Guan Junren - XiaoGuanFPV
3 rd Place	Michael Zafirov - Skymenace

Team Race Winners

1 st Place	Team HQ - Korea
2 nd Place	Team Genfan - Korea
3 rd Place	Alpha Racing - Taiwan, Japan & Canada

Guests having fun at the fringe activities.



Group photo of ADC participants and organisers.



ADC participants preparing for the drone race.



**Science Outreach Programmes and Competitions,
Events & Engagement**

UNTAME: An Eat-mersive Experience Awaits



11 Oct - 11 Nov 2023

This year's event was themed "An Eat-mersive Experience Awaits", offering guests an opportunity to rediscover the wonders of STEM through food. The festival consisted of four different activities - *STEAM Festival*, *UNTAME Onsite*, *UNTAME Schools* and *UNTAME Online* - a feast of edutaining activities such as a food-themed puppetry performance and a supermarket-themed maze-like experience, among others.



Science Centre Singapore



SPONSORS & PARTNERS: 38



FOOD-BASED IMMERSIVE EXPERIENCE



157 PIECES OF EARNED MEDIA COVERAGE



A hands-on activity station at the STEAM Festival - one of UNTAME's key event for younger children.



A Museum of Extinct Food showcase, that was part of UNTAME's maze-like experience.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

UNTAME STEAM Festival



Aug - Nov 2023

UNTAME STEAM Festival continued to spark young learners' interest in STEAM through interactive and innovative experiences.

Centered around UNTAME's overarching theme of the science behind food, the festival featured an exciting line-up of community workshops, a puppetry performance, an immersive playscape, experiential partner and activity booths, and educational parent-child workshops.

Key Highlights:

Healthy Plate-Mates Community Art-Science Project

A community initiative to educate children on healthy eating through science and the arts while creating a collaborative feature installation.



**Annexe Hall,
 Science Centre Singapore**

Magic Mee Goreng Puppetry Performance

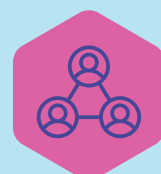
An interactive puppetry performance that aimed to foster an appreciation for food.

STEAM Festival

A six-day event featuring engaging hands-on activities, partner booths and workshops that showcased various STEAM concepts behind food.



TARGET
 INTERACTION
 NUMBERS: 2,500



ACTUAL
 INTERACTION
 NUMBERS: 3,917



Through partner booths, interactive hands-on activities and parent-child workshops, children learned more about the science of food at STEAM Festival.

Healthy Plate-Mates Community Art-Science Project

Date	Venue	Workshop Participants
Aug - Sep 2023	Ministry of Education Kindergartens (MK), Children's Museum Singapore & Sengkang Public Library	746 (506 MK participants funded by MOE)

Magic Mee Goreng Puppetry Performance

Date	Venue	Interaction Numbers
3 - 8 Oct 2023	Science Centre Singapore	1,052

STEAM Festival

Date	Venue	Interaction Numbers	Festival Partners	Festival Highlights
31 Oct - 5 Nov 2023	Science Centre Singapore	2,119 (506 MK participants funded by MOE)	14	The A-Maze-ing Digestive Playscape, co-funded by Health Promotion Board (HPB) 7 Experiential Partner Booths 5 Interactive Hands-on Science Activities 5 Participatory Parent-Child Workshops



The Healthy Plate-mate installation, co-funded by HPB, was made up of mosaic artworks completed by children to share the importance of healthy eating.

Magic Mee Goreng puppetry performance shared the science and joys of food through various puppetry art forms.



**Science Outreach Programmes and Competitions,
 Events & Engagement**

UNTAME Onsite



24 Nov - 2 Dec 2023

UNTAME Onsite featured an immersive maze-like experience where guests visited *The M.A.R.T* - a fictional alternative supermarket set in the year 2123 where food scarcity has led to alternative food sources becoming the norm.

The M.A.R.T featured a range of photo-worthy installations, such as a showcase of the future of food, a radioactive garden, as well as artisanal food and drink options.

Guests aged 18 and above were also treated to an exclusive escape-room style zone in the maze - *The Cold Room*. Participants in the *The Cold Room* uncovered a "sinister twist" about *The M.A.R.T* as they solved puzzles and navigated their way out of the room.



Science Centre Singapore

UNTAME Onsite also introduced a unique dining experience where guests were served a mystery three-course meal made from plant-based meat, based on a mini-card game that they had played earlier.



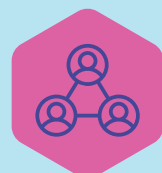
MAZE-LIKE
 EXPERIENCE



HIDDEN
 ESCAPE-ROOM



PHOTO-WORTHY
 INSTALLATION



INTERACTION
 NUMBERS: 2,225



Guests trying to find their way out of *The M.A.R.T* - a fictional alternative supermarket with a hidden agenda.



Guests trying out chocolates made from 'ugly' foods.

Science Outreach Programmes and Competitions, Events & Engagement

UNTAME Schools



24 Nov - 2 Dec 2023

In this three-part post-exam programme, students were taken on a journey through the evolution of food.

Students were engaged in a variety of challenges to explore the methods used by people in the past to acquire their food, as well as the impact of population growth, technological advancements, and the utilisation of machinery on the mass production of food.

Centred around the compelling topic of "*The Future of Food*", this year's *STAR Lecture* featured Dr Shuan Sim, Junior Principal Investigator at the Agency for Science, Technology and Research (A*STAR) where he talked about the latest research and shared valuable insights with students.



Science Centre Singapore

The post-exam programme concluded with the *STEM Playground Grand Finale* at the Centre, where students gathered to participate in a STEM challenge to win attractive prizes.



PROMOTE
LEARNING
THROUGH PLAY



Students engaging in the post-exam programme.

Event	Date	Interaction Numbers
Post-Exam Programme – Automation/Production of Food	10 - 20 Oct 2023 30 Oct - 10 Nov 2023	1,179
STAR Lecture – Future of Food	23 - 28 Oct 2023	1,989
STEM Playground Finale – The Beginning of the Evolution of Food	15 - 16 Nov 2023	147 Primary School Students 223 Secondary School Students



Dr Shaun Sim, Junior Principal Investigator at A*STAR, conducting his STAR Lecture.

**Science Outreach Programmes and Competitions,
Events & Engagement**

UNTAME Online - #UNTAMEflavours



16 Oct - 8 Dec 2023

#UNTAMEflavours, the signature UNTAME Online platform offered users a one-stop, on-the-go access to online content and activities such as minigames, video quizzes, and an offline token hunt.

In line with this year's food-based theme, the storyline began with the players realising the lack of concern for food wastage had led to their homeland ravaged by rot. To restore the environment, players had to traverse five virtual spaces representing various food-related sub-themes and learnt the importance of science behind different food production stages along the way.



**Unique browser visits:
173,506**



**SYNERGY
BETWEEN ONSITE
AND ONLINE
EXPERIENCES**



Play simple games and get prizes including PS5, iPad Air, Ergotune chair, Nintendo Switch, and more!

Thematic landing page for #UNTAMEflavours.



New minigame developed for #UNTAMEflavours.

Number of Missions	Number of Video Quizzes	Number of Mini Games
20	15	5

Number of Accounts Created	Number of Completions for Video Quizzes	Number of Completions for Mini Games
4,152	30,202	52,915

Category	Total
Missions developed in collaboration with partners	15
Mission playthroughs	30,202

Players' Demographics	Percentage
65 and above	4%
45 - 54	8%
25 - 34	41%
18 - 24	29%
13 - 17	8%
12 and below	10%



Virtual spaces for character movement and progress on the platform.



Special Projects and Travelling Exhibitions

Informal Science Programmes



**Science Outreach Programmes and Competitions,
Events & Engagement**

Amgen Biotech Experience



**Number of students
reached: 4,307**

The *Amgen Biotech Experience (ABE)*, sponsored by Amgen Foundation, is an innovative science education programme that introduces the excitement of scientific discovery to secondary and tertiary students.

In addition, *ABE* also loans research-grade equipment, supplies, and provides curriculum and professional development to secondary and tertiary teachers.



**Number of schools reached:
38**



**PARTNERS
INVOLVED:
AMGEN
FOUNDATION
& AMGEN
SINGAPORE
MANUFACTURING**



A student from Pasir Ris Crest Secondary School learning how to use the micropipette, as part of the programme.



Ms Lilian Teo and her students from Pasir Ris Crest Secondary School trying out experiments during the programme.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

Sony Creative Science Award



**Number of students:
 4,959**

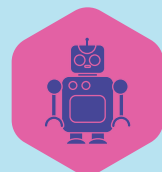
2023 marked the 26th anniversary of the *Sony Creative Science Award (SCSA)*, jointly organised by the Science Centre and Sony Group of Companies in Singapore, with the support from the Ministry of Education (MOE).

Of the 87 schools that took part, 41 schools organised an internal competition, *SCSA (Schools)*, before submitting their winners to the Centre for the main competition.

A new Sustainability Award was introduced this year to promote the use of recyclable materials and renewable energy in the toy creation. The award ceremony was graced by Mr Baey Yam Keng, Senior Parliamentary Secretary, Ministry of Sustainability and the Environment & Ministry of Transport.



**Number of schools:
 38**



**NUMBER OF
 TOYS: 3,668**



**CREATIVITY AND
 INNOVATION**



**FEATURED ON
 TODAY ONLINE,
 TAMIL MURASU,
 ZAobao
 SCHOOLS AND
 LIANHE ZAobao**



Students with their toy vehicles at the final judging round at the Science Centre.



Group shot of all student prize winners at the award ceremony.

**Science Outreach Programmes and Competitions,
Events & Engagement**

Singapore Amazing Flying Machine Competition



Oct 2022 - Mar 2023

Jointly organised by DSO National Laboratories and the Science Centre, with support from the Ministry of Defence (MINDEF), the *Singapore Amazing Flying Machine Competition (SAFMC)* celebrates creativity and innovation in designing flying machines. This year marked a milestone with the highest number of sign-ups in the history of the competition.

SAFMC offers a diverse range of categories, from traditional paper planes to semi-autonomous and autonomous devices, providing participants with ample opportunities to showcase their skills. Beyond being a competition, SAFMC serves as a platform for enthusiasts, engineers,



Science Centre Singapore

and inventors to collaborate and push the boundaries of what's possible in aerospace innovation.

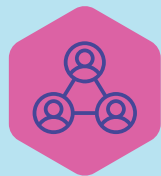
The competition fosters a spirit of exploration and ingenuity, attracting participants from various backgrounds who share a passion for flight.



Guest of Honour, Mr Heng Chee How, Senior Minister of State, Ministry of Defence (second from left) with Category D1 Champion.



PARTNERS INVOLVED:
 DSO NATIONAL LABORATORIES



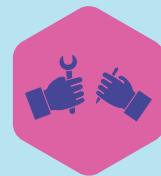
INTERACTION NUMBERS: 1,972



FEATURED ON ZAobao COMMA, ZAobao THUMBS UP AND THE STRAITS TIMES



EXPLORE THE SCIENCE BEHIND FLIGHT



DESIGN THEIR OWN FLYING MACHINES

Category	Number of Teams
A (Paper Planes)	171
B (Unpowered Gliders)	229
C1 (Radio Control Flight - Fixed Wings)	38
C2 (FPV - Novice)	109
C3 (FPV - Advanced)	24
D1 (Semi-autonomous)	15
D2 (Autonomous)	4
E (Swarm)	12



Mr Heng Chee How, Senior Minister of State, Ministry of Defence (centre) taking a group photo with the flight demo teams.



Judges interacting with Category A participants.



Mr Heng Chee How, Senior Minister of State, Ministry of Defence (far-left) and guests watching the flight demos from the winners.

**Science Outreach Programmes and Competitions,
Events & Engagement**

New Science Centre Groundbreaking Ceremony

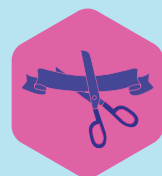
 **1 Nov 2023**

A groundbreaking ceremony was held to embark on the journey towards the new Science Centre, set to be a key landmark in the Jurong Lake District in a few years' time. Held near Chinese Garden MRT station, the ceremony was officiated by Mr Teo Chee Hean, Senior Minister, Coordinating Minister for National Security and Patron of Science Centre Board and Mr Chan Chun Sing, Minister for Education.

Guests got a glimpse of the new Science Centre through an immersive virtual reality (VR) experience and an exclusive architectural fly through video.

 **Near Chinese Garden MRT station**

The groundbreaking ceremony garnered significant mainstream media coverage from publications such as The Straits Times, Mediacorp Channel 5, CNA and Lianhe Zaobao among others.



GROUNDBREAKING CEREMONY



BEGINNING OF THE NEW SCIENCE CENTRE



Ms Tan Yen Yen, Chairman, Science Centre Board (right) showing the architectural model of the new Science Centre to Mr Teo Chee Hean, Senior Minister, Coordinating Minister for National Security and Patron of Science Centre Board (centre) and Mr Chan Chun Sing, Minister for Education (left).



Guest of Honour Mr Teo Chee Hean, Senior Minister, Coordinating Minister for National Security and Patron of Science Centre Board (centre-right) and Mr Chan Chun Sing, Minister for Education (centre-left) with Science Centre Board members and senior management at the groundbreaking ceremony.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

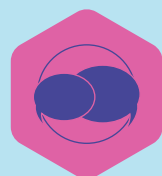
AMPower



**8 - 10 Jun,
 7 - 9 Dec 2023**

AMPower is organised by the Centre with complements from Amgen Singapore Manufacturing. These meaningful science workshops are specifically designed to engage youths from underprivileged communities, to encourage bonding with their peers and family members and equip them with STEM skills.

For this programme, Science Centre partners community organisations such as Chinese Development Assistance Council (CDAC), Eurasian Association (EA), Yayasan MENDAKI and Singapore Indian Development Association (SINDA).



**ENGAGE
 YOUTHS FROM
 UNDERPRIVILEGED
 COMMUNITIES**



**STEM
 EMPOWERMENT**



**42 PARTICIPANTS
 IN JUNE**



**25 PARTICIPANTS
 IN DECEMBER**



AMPower participants had the opportunity to learn more about 3D printing technologies at the Science Centre.



Amgen staff volunteer sharing with participants insights into their STEM career.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

Abbott Young Scientist Programme



Mar - Aug 2023

In collaboration with Abbott Singapore, the *Abbott Young Scientist (AYS)* programme marked its 11th anniversary. The awards were presented to 45 primary students from 24 schools. Students engaged in a six-month mentorship programme to pursue a STEM project of their interest. The mentors included Science Centre staff and students from Temasek Junior College, Nan Chiau High School, National University of Singapore, and AYS alumni from the 2013 batch.

The mentors played a pivotal role in guiding these young scientists to explore STEM in real-life settings, beyond their classrooms. The students showcased their STEM projects to 226 guests during the award ceremony.



**Partners involved:
 Abbott Singapore**



NUMBER OF
 BENEFICIARIES:
 45



NUMBER OF
 MENTORS: 56



MEDIA
 HIGHLIGHTS:
 MOE SCHOOLBAG
 ARTICLE WITH
 AYS ALUMNI



MENTORSHIP
 PROGRAMME



AYS participants taking part in the "Young Engineer" summer week workshop.



Group photo of guests, mentors and AYS participants.

**Science Outreach Programmes and Competitions,
Events & Engagement**

KLA Electromagnetism Kit and Science Programme



Jan - Dec 2023

Collaboration with KLA Foundation (KLA) formed an integral part of a science outreach programme tailored for children and their families from underserved communities, making science inclusive and accessible.

The programme offered two options - a workshop involving the *KLA Electromagnetism kit*, or any other science workshops conducted at the Centre. Additionally, participants had the opportunity to hear from KLA speakers on the practical application of theoretical concepts learnt during the workshops. These experiences sparked participants' interest in considering a STEM career in the future.



**Partners involved:
KLA Foundation**



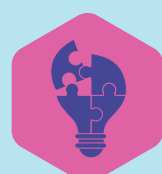
NUMBER OF
BENEFICIARIES:
455



NUMBER OF
COMMUNITY
ORGANISATIONS:
11



INCLUSIVITY IN
STEM



EXPERIENTIAL
LEARNING



A participant viewing plant samples under a microscope during one of the workshops.



Participants learning the science behind chocolate making in one of the workshops.

**Science Outreach Programmes and Competitions,
 Events & Engagement**

STEM is FUN-tastic



May - Nov 2023

This year-long science outreach programme, fully funded by Illumina Corporate Foundation, reached out to youths aged 11 to 16 years old and their families from underserved communities.

With the help of partner community organisations, four sessions were conducted to continuously engage and nurture participants' interest in STEM. Participants also had the opportunity to bond with their family members at some of these sessions.



**Partners involved:
 Illumina Corporate Foundation**



NUMBER OF PARTICIPANTS:
 1,129



NUMBER OF COMMUNITY ORGANISATIONS:
 11



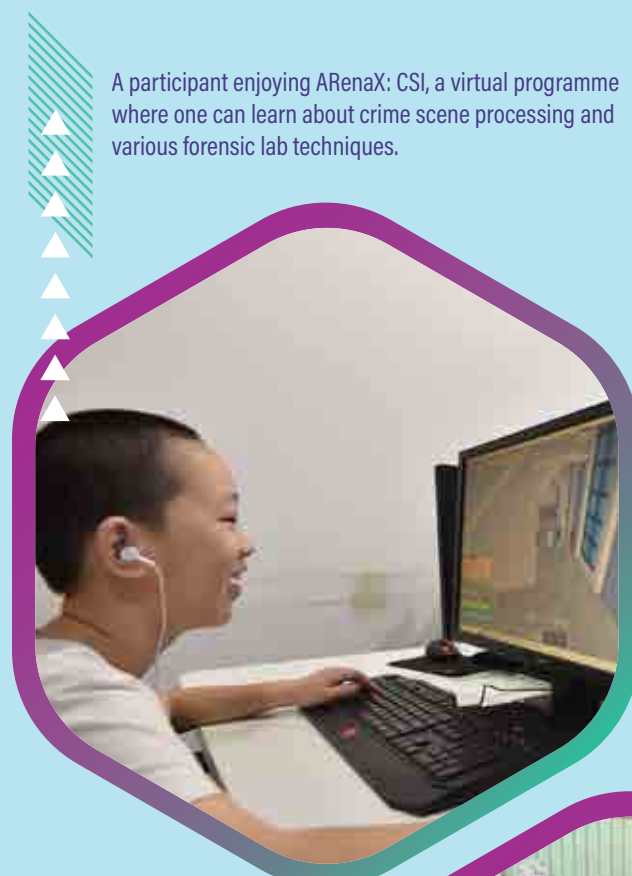
NUMBER OF SCHOOLS: 21



INCLUSIVITY IN STEM



LEARNING THROUGH PLAY



A participant enjoying ARenaX: CSI, a virtual programme where one can learn about crime scene processing and various forensic lab techniques.



Participants from partner community organisations enjoying the immersive maze experience at Science Centre's marquee event UNTAME: An Eat-merisive Experience Awaits.



Science educators guiding participants through hands-on activities at the workshops.

Informal Science Programmes

Young Scientist Badge Scheme

Since 1982, the *Young Scientist Badge Scheme* (YSBS) has been inspiring generations of primary school students to develop interest in various scientific disciplines through self-directed learning.

To broaden the reach of this programme, the YSBS experience was fully digitalised in 2020.

Subsequently, in collaboration with Ministry of Education (MOE), YSBS was further extended to all primary schools, some special education schools and international schools in Singapore in 2023. This innovative approach earned YSBS the MOE Innergy Silver Award.

Building on this momentum, the Centre also worked with industry and public sector partners to deepen YSBS relevance to schools. For instance, the Centre partnered Singapore Land Authority (SLA) to develop the *I am a Young Geospatial Scientist* badge in 2021 to enhance students' appreciation

for geospatial tools and their usefulness in everyday lives.

This collaboration led to more extensive school outreach to feature the *I am a Young Geospatial Scientist* badge and the Centre's participation in the annual Singapore Geospatial festival, where YSBS participants showcased their work.

Number of Students Onboarded for YSBS in 2023	
Primary 3	40,853
Primary 4	38,232
Total	79,085



AWARD WINNING PROGRAMME



LEARNING BEYOND THE CLASSROOM



YSBS alumni Tanay Suresh (far-left) with Dr Mohamad Maliki Bin Osman, Minister, Prime Minister's Office, Second Minister for Education and Second Minister for Foreign Affairs (center-left) and Mr Colin Low, Chief Executive, Singapore Land Authority (far-right). Tanay was guided by Dr Savita Sharma, Senior Manager of Life Sciences, Science Centre Board (center-right).



YSBS alumni Tanay Suresh sharing about the programme's activities at the Singapore Geospatial Festival.



Science Centre educators helping Blangah Rise Primary School students with the use of geospatial tools.

Informal Science Programmes

Young Sustainability Champion

The *Young Sustainability Champion (YSC)* programme is part of the Centre's larger suite of STEM mentoring programmes.

Through this programme, students embarked on a mission to create a product or solution that tackles a sustainability challenge the world currently faces, using design thinking and a diverse range of technical skills.

This year's theme, "*Sustainability Begins at Home*", challenged youths to propose feasible and sustainable solutions to problems close to them, such as repurposing food waste.

Key Figures	
Number of students at the mass participation stage	24,199
Number of sustainability-related workshops	45
Number of project teams	13
Number of project ideas generated	26

Participants at a sustainable food production workshop at an urban farm.



A group photo at the YSC Final Showcase featuring Guest of Honour Professor Leo Tan Wee Hin, Emeritus Professor, National University of Singapore (NUS) and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board.



Informal Science Programmes

Micron Chip Camp



6 - 8 Nov 2023

This was the Centre's first collaboration with Micron Technology, Inc. to organise *Chip Camp* - a day camp featuring hands-on STEM activities on semiconductor manufacturing and engineering for beneficiaries from Yayasan Mendaki. Through this camp, participants gained a better understanding about the role of engineers and scientists in a semiconductor company.

On the last day of the camp, participants got the chance to visit a Micron chip manufacturing plant.

Number of Student Beneficiaries	Number of Corporate Volunteers
80	20



Participants engaging in hands-on activities at the camp.



Informal Science Programmes

Research and Development Programme

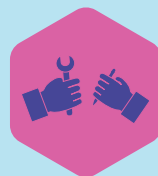
The *Research & Development Programme (RDP)* provides a platform for students aged 15 to 18 years old to engage in investigative and prototyping work, based on the United Nations Sustainable Development Goals (UNSDGs). The planned research and prototyping fields include synthesising of bioplastic, wastewater treatment, making paper from food waste, as well as sorting and recycling trash.

This year, students were exposed to technology and engineering through various relevant masterclasses on tools and equipment usage, as well as other relevant science and engineering concepts. Each group was guided by a Science Centre mentor.

Number of Projects Mentored	Number of Students Mentored
25	61



APPLIED SCIENCE & ENGINEERING PROJECTS



PROTOTYPING SKILLS



Representatives from U.S. Embassy Singapore, Bloomberg, Amazon Web Services, and Science Centre Singapore at the RDP project showcase.



Participants presenting their prototyping work at the RDP project showcase.



Students working on respective technological projects such as improving water-use efficiency and reducing pollution.

STEM Inc and Professional Development

STEM Inc

The *STEM Applied Learning Programme* reached an impressive ten-year milestone since its implementation in 2014. Today, it has become a highly regarded initiative in the STEM educational landscape, aiming to actualise inspiration, empowerment, and co-creation.

STEM Inc continued its core support to schools by equipping teachers with valuable insights through consultations, professional development opportunities, communities of practice and industry partnerships.

DFS X Artist Fashion Show

STEM Inc also made notable contributions through novel initiatives.

For example, an inaugural fashion show helmed by the Digital Fabrication Space (DFS) was held for professional and student models to strut dazzling outfits produced by 158 talented students from Nanyang Girls' High School, Naval Base Secondary School and Victoria School. This initiative was an innovative meld of fashion, art and technology.



FASHION SHOW
WITH STEM
ELEMENTS



STEM FOR
TEACHERS AND
SCHOOLS



Models showcasing the spectacular outfits designed by Nanyang Girls' High School, Naval Base Secondary School and Victoria School.

STEM Inc and Professional Development

Professional Development for Primary to Tertiary Educators

STEM Community of Educators in Leading and Learning (STEM CeLL) is a unit at the Centre dedicated to deepening educators' knowledge and skills, and strengthening their readiness in delivering STEM education. Professional Development (PD) was offered through *Time with STEM (TwS)*, *Teacher Work Attachment Plus (TWA+)* and *In-Situ STEM Learning Workshops*.

TwS was a series of webinar sharing, learning journeys and workshops offered between January and May 2023 on weekday afternoons. STEM industry professionals partnered with the Centre to provide out-of-the-classroom experiences, industry insights and latest developments.

TWA+ was a collaboration with the Academy of Singapore Teachers (AST) that offered educators from all school types and levels an attachment of four to nine weeks at the Centre, offering roles for both science and

non-science teachers, each with an assigned mentor.

The *In-Situ STEM Learning Workshop* was another collaboration with AST, providing educators a three-part PD programme led by Master Teachers on pedagogical theories and design considerations on facilitating STEM learning experiences in the classroom. This included observing a live STEM demonstration lesson facilitated by a Science Centre educator. This programme was conducted twice a year for both Primary and Secondary school educators.

Event	Number of Participants	Total
TwS	726	845
TWA+	10	
In-Situ STEM Learning Workshops	109	



TwS session on "Become a Volcanologist for One Day" by Dr Benoit Taisne, Principal Investigator, Earth Observatory Singapore (EOS), Nanyang Technological University (NTU).



STEM demo lesson with Primary school students, facilitated by Science Centre educators for the In-Situ STEM Learning Workshop.

STEM Inc and Professional Development

Professional Development for Pre-School Educators



Number of participants: 112

In collaboration with the Early Childhood Development Agency (ECDA), the Science Centre developed a series of workshops for early childhood educators under ECDA's Continuing Professional Development (CPD) and Innovation Guidance Project (IGP). These workshops included a range of topics such as *Curious Creative Thinkers* and *The Earth We Share* that aimed to strengthen educators' scientific knowledge in teaching and learning.



ECDA participants at the The Earth We Share workshop.

STEM Inc and Professional Development

STEM Teacher FeST



10 Nov 2023

STEM CeLL and STEM Inc jointly organised the first ever *STEM Teacher FeST* - a full-day event that featured the launch of STEM CeLL, concurrent sessions, booth showcases, workshops and the inaugural *Fe (Iron) STEM Teacher Challenge*.

The event offered a platform for STEM educators to engage in professional sharing and knowledge exchange on innovative and best practices in STEM education, as well as network and seed collaborations.

STEM CeLL Launch and Fe (Iron) STEM Teacher Challenge

STEM CeLL, a unit that combines the expertise of Science Centre, Curriculum Planning and Development Division (CPDD), Academy of Singapore Teachers (AST) and National Institute of Education (NIE) to provide a



**Annexe Hall,
Science Centre Singapore**

synergised ecosystem of STEM-related professional development, was launched at this event by esteemed professionals including Guest of Honour, Ms Liew Wei Li, Director-General of Education, Ministry of Education, and representatives from the four organisations.

The *Fe STEM Teacher Challenge* provided educators a platform to highlight innovation in STEM education. Five finalists were selected to perform live demonstrations using STEM concepts during the grand finals, while incorporating a secret ingredient that was disclosed a week prior.

Participants engaging at one of the many partner booths at the STEM Teacher FeST.



Participants at the concurrent sessions jointly facilitated by AST and SCS on designing STEM problem scenarios.



487
 PARTICIPANTS



28 BOOTHS



26 CONCURRENT
 SESSIONS

Fe (Iron) STEM Teacher Challenge Finalists	Award
Mr Tan Weiliang, Jansen Recruitment Centre, HR Solutions & Capabilities Divison, MOE HQ	Champion and People's Choice Award
Ms Yang Yarong and Ms Felicia Mah Kranji Secondary School	1 st Runner-Up
Mr Low Hock Siang and Ms Stephanie Lim Mei Fong CHIJ Primary (Toa Payoh)	2 nd Runner-Up
Mr Yap Shinn and Mr Foo Seng Hong Kuo Chuan Presbyterian Secondary School	Finalist
Mr Tan Jing Long Temasek Junior College	Finalist



A photo opportunity featuring the Fe STEM Teacher Challenge Finalists.



STEM CeLL officially being launched by Guest of Honour, Ms Liew Wei Li, Director-General of Education, Ministry of Education (middle), Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board (left), Mr Ong Kong Hong, Divisional Director, Curriculum Planning & Development 1, Ministry of Education (right), Mrs Poh Mun See, Executive Director, Academy of Singapore Teachers (far right) and Associate Professor Teo Tang Wee, National Institute of Education - Natural Sciences & Science Education (far left).

Gallery Experience

Tinkerfest



27 May - 25 Jun 2023

A yearly celebration of innovation and creativity, this year's theme *"FUN-damental"* brought participants back to the basics of tinkering while having fun. Guests participated in a range of hands-on activities where they built their own electric circuits, badges and even parachutes.

Key Highlights:

TinkerBake

Guests baked their very own uniquely designed pop cakes by mixing colours into sugar dip.

Scented LED Badge

Guests tried their hand at using drillers and hot glue guns to create wearable LED badges that emitted scents.



Interaction numbers:
7,472

Fluttering Wonders

Guests crafted fluttering butterflies with delicate colour-changing wings that illuminate at night.



LEARNING
THROUGH PLAY,
EXPLORATION AND
EXPERIMENTATION

Staff and guests after a successful TinkerBake session.



Guests and their handiwork at the scented LED Badge activity.



A participant displaying his finished work at the Fluttering Wonders activity.

Gallery Experience

Valentine's Day



10 - 14 Feb 2023

Several activities on the science behind popular Valentine's Day traditions such as gifting flowers and chocolates were held around the Centre.

Upon completion of all activities, guests could redeem an exclusive Valentine's Day gift.



Interaction numbers:
1,391

It was so cool to learn more about Valentine's Day through science.

- Kelly



Guests learning about the language of flowers at the Centre.



Guests learning about the science behind chocolates at the Scientist For A Day (SFAD) exhibition.

Gallery Experience

National Day



4 - 10 Aug 2023

The Centre conducted the *Light Catcher* and *Catch a Glimpse* activities - where guests created their own light catchers and learnt how water can make images disappear.

As part of these activities, guests were encouraged to draw their favourite local places of interest and food.



**Interaction numbers:
1,967**

Kids had a lot of fun here and learned science knowledge. Highly recommended!

- Lisa Wu

Very fun experiments to learn about science theories! Very friendly staff.

- Shermin Tan

Guests learning about light reflection at the Catch a Glimpse activity.



Guests showcasing the Light Catchers that they made.

Gallery Experience

It's Physics Time!



2 - 10 Sep 2023

It's Physics Time! was a week-long holiday programme that introduced various physics concepts to guests through a series of fun hands-on activities. This included engaging easy-to-understand explanations by facilitators on physics-based innovations such as superconductors and plasma balls.

It's visually appealing and the explanation was simple and easy to understand for children

- Nur Atiqah Abdul Rahman



**Interaction numbers:
2,896**

Science came alive for kids, and they learnt something new and exciting. Well done.

- Alison Ho

Interesting magic with science background.

- Zuo Hai



Guests observing the beams of light in a plasma ball.



Guests learning about superconductors in an engaging demonstration.

Gallery Experience

Sci-sational Christmas



9 - 25 Dec 2023

The annual year-end celebration themed "A Symphony of Lights and Sound" engaged guests in an enchanting multi-sensory series of festive activities including meet-and-greets with friendly elves, a digital trail through *Santa's Factory* and a festive science demonstration titled *A Christmas Concert: BTS*.



Interaction numbers:
12,602



AVERAGE
FEEDBACK
RATING (EVENT
ACTIVITIES): 4.7/5



AVERAGE
FEEDBACK
RATING
(CHRISTMAS
SCIENCE SHOW):
4.9/5



FESTIVE SCIENCE
SHOW: 866
GUESTS

A guest learning about the concepts behind the Newton Disc through a demonstration.



Guests designing their very own buzzing toy spinner at the Tinkering Studio.



Guests were greeted with a myriad of Sci-sational Christmas activities around the Centre.

My 4.5-year-old son and I really enjoyed the buzzing toy! So simple yet educational!

- Esther

My brother loved the show. I don't think I've seen him enjoy a public show so much before!

- Mandy

Great job and love the deco.

- Diana

Great chemistry between the facilitators and overall, very entertaining to watch. Kudos to the team for planning such an enjoyable experience!

- ShiMin

Ollie the Christmas elf demonstrating the effects of his new polarised invention at the Christmas science show.



Guests enjoying the Christmas science show, A Christmas Concert: BTS.

Gallery Experience

Superpower Science Show



Launched on 5 Aug 2023

The weekend *Superpower Science Show* addressed burning questions on the science behind superpowers.

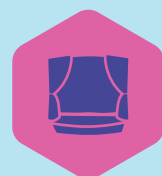
The characters in the show, *Dr Odd* and *Alpha Girl*, dazzled audiences with their superhuman feats like super strength, invulnerability and teleportation. This combination of engaging storytelling and demonstrations introduced science concepts in a fun and captivating manner.



SCIENCE AND SUPERPOWERS



LIVE DEMONSTRATION



WEEKEND SCIENCE SHOW

A young audience participating in the Mind Reading challenge segment of the show.



The captivating time reversal demonstration by the characters in the show.

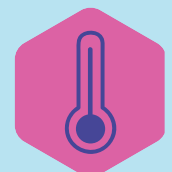
Gallery Experience

Chem Brew-Leh Science Show

A new addition to the Centre's catalogue of *Science on the Go* shows, the *Chem Brew-Leh Science Show* was set against a backdrop of a magical bar where drinks are ever-changing, and food grows in the most outrageous ways.

Students engaged in interactive activities such as crafting fizzy drinks with household materials, catching flying candies from an air gun and watching a kitchen chemist whip up unconventional recipes.

Topics covered:



THERMAL
DECOMPOSITION



IODINE CLOCK
REACTION



CHEMICAL
REACTIONS
INVOLVING
COLOUR CHANGE

A student participating in an on-stage activity as part of the Chem Brew-Leh Science show.



The making of a carbon sugar snake, one of the key demonstrations in the show.

Gallery Experience

Bones, Rocks & Fossils: Decoding the life of a palaeontologist



9 Sep 2023

This sharing session by renowned Australian palaeontologists Prof Patricia Vickers-Rich and Dr Tom Rich offered insights on fossils and life as a palaeontologist.



**Interaction numbers:
15**



SHARING
SESSION ON
FOSSILS



Prof Patricia Vickers-Rich and Dr Tom Rich responding to participants' questions.



Gallery Experience

International Days @ Science Centre

The Science Centre celebrates specific International Days recognised by the United Nations (UN) to raise awareness.

Through innovative and engaging science programmes and activities, the Centre aims to play its part in promoting the United Nations Sustainable Development Goals (UNSDGs).



Gallery Experience

World Down Syndrome Day



1 - 7, 21 - 31 Mar 2023

To raise awareness about Down syndrome and to promote inclusion, the Centre conducted a socks-matching activity where guests gained better understanding about Down syndrome and chromosomes.



Interaction numbers:
755

**Engaging and fun activities
to raise awareness for Down
syndrome.**

- Samuel Eio



Mismatched socks as part of the Centre's socks-matching activity.



Guests wearing mismatched socks to the Centre to show their support for World Down Syndrome Day.

Gallery Experience

World Pet Day



4 - 16 Apr 2023



**Interaction numbers:
1,372**

Engaging activities were curated to educate guests on what to avoid in their pets' diets, debunk pet care myths and advocate for responsible pet ownership.



Guests learning about pets' diets.

A guest being guided on curating a healthy meal for pets.

Gallery Experience

International Mother Earth Day



18 - 30 Apr 2023



Interaction numbers:
1,089

Through a fun and interactive sorting activity named *Waste Busters* at the Demo corner, guests learnt how to recycle efficiently and debunk common recycling misconceptions.



Guests learning to sort their recyclables into the correct recycling bins.



Guests assessing how well they sorted their recyclables.

Gallery Experience

International Tea Day



1 - 31 May 2023

Guests were given the opportunity to understand tea production and processing. They also learnt about the role of tea in reducing poverty and hunger, women empowerment and the sustainable use of the terrestrial ecosystem.

Besides identifying different types of tea through sight and smell, guests were treated to sponsored packets of tea from Gryphon Tea Company.



Interaction numbers:
1,824

Very simple but thoughtful and multi-sensory science demo!!

- Samuel

Guests attempting to identify different types of tea.



Guests receiving packets of tea sponsored by Gryphon Tea Company.

Gallery Experience

International Day Against Drug Abuse and Illicit Trafficking



26 Jun 2023

To commemorate this day, the Twin Towers at the Centre were lit up in turquoise to symbolise our commitment to fostering a drug-free society. In collaboration with Central Narcotics Bureau (CNB), souvenirs such as masks and cardboard VR headsets were given out to guests to raise awareness on the harmful effects of drugs.



Science Centre's Twin Towers lit up in turquoise.

Gallery Experience

World Hepatitis Day



4 - 30 Jul 2023



**Interaction numbers:
864**

The Centre created an engaging game, *Lucky Be-liver*, to raise awareness on the various types of Hepatitis, myths surrounding the condition and the importance of Hepatitis vaccination.

In this game, guests had to pick up balls that contained true or false questions about Hepatitis and answer them. Guests also had to avoid picking up balls containing "viruses" that will derail their progress in the game.



Guests understanding the importance of vaccination to protect against Hepatitis B.

Gallery Experience

International Day of Sign Languages

 **12 - 29 Sep 2023**

Guests discovered the importance of sign language as a means of communication and had the opportunity to practice signing "I love Science".

 **Interaction numbers: 644**

First time hearing of Sign Language; it is interesting to learn of other ways of communication!
- Nadia Nadra Chandran



Guests learning to sign "I love Science".

Guests learning the importance of sign language as a communication tool.

Gallery Experience

International Day for Older Persons

 **30 Sep - 8 Oct 2023**

Themed “#YOLOS: Live Life to the Fullest”, a variety of hands-on activities about active ageing such as card sorting and the *Mobility Tiles* memory game, were organised at the Centre and at the JCanopy for the public to participate in.

Event	Number of Participants	Total
JCanopy	1423	4308
Science Centre Singapore	2885	



Guests having fun with a card-sorting activity often used in senior activity centres.



A senior guide demonstrating the Super Grandpa game.



A science magic trick being performed and explained by a senior guide to a young guest.

Gallery Experience

World Mental Health Day

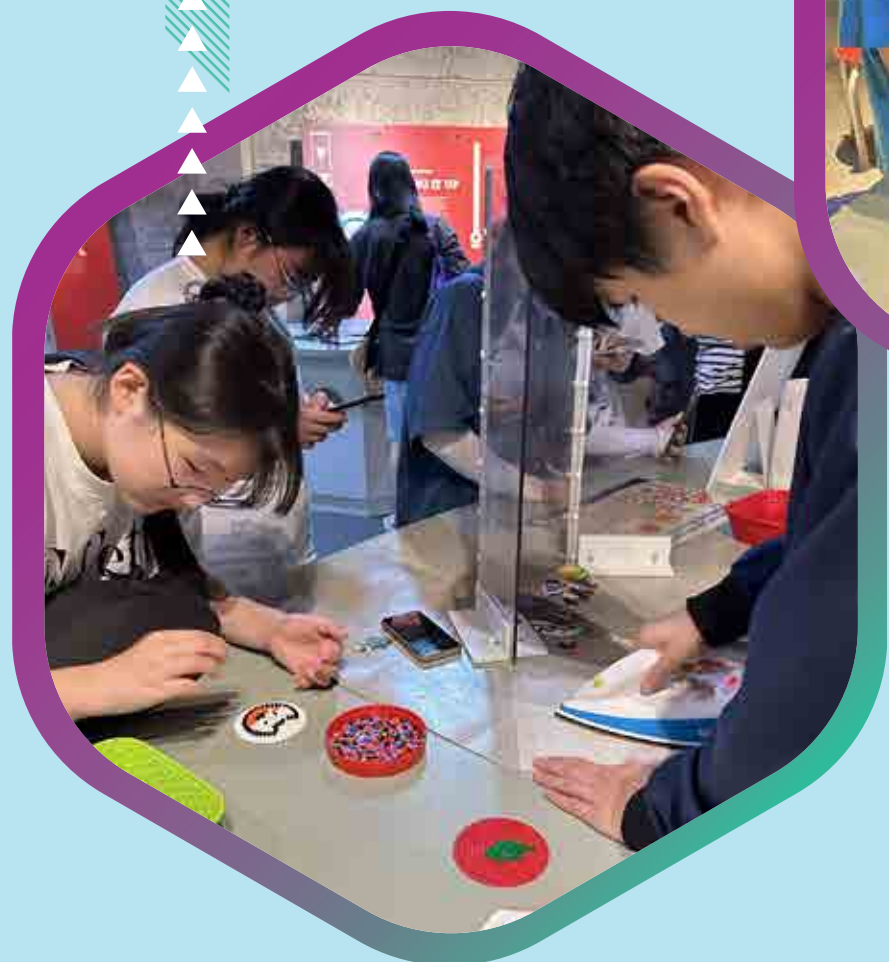


10 - 31 Oct 2023



**Interaction numbers:
1,430**

Through a beads-fusing activity, guests learnt about the importance of mental wellness and the various hormones that impact one's mood. They also participated in craft activities that can help combat stress.



Guests meticulously using beads to form images during the beads-fusing activity.



Guests learning about World Mental Health Day at the Centre.

Gallery Experience

World Toilet Day



18 - 30 Nov 2023



Interaction numbers:
650

In line with the 2023 theme of "Accelerating Change for Safe Sanitation", the Centre walked guests through the evolution of toilet paper, from the tools that were used before the invention of toilet paper to the importance of sanitation. Guests also learnt about sanitation systems through a digital trail.



A guest posing at the World Toilet Day photo spot.



Activity cards to educate guests on the evolution of toilet paper.

Gallery Experience

DiscovHER



8 - 17 Mar 2024

In its 7th year, *DiscovHER* continued to celebrate International Day of Women and Girls in Science, championing the work done by women in STEM and inspiring girls to pursue STEM careers.

Themed "*STEM for Societal Change*", this year's edition featured activity booths by STEM industry partners, *Let's Talk STEM* panel discussions, Instagram reels and a digital poster exhibition on the STEM journeys of local scientists.

A special *DiscovHER* show was also curated to spotlight the STEM journeys of local scientists, inspiring youth with their experiences.



Interaction numbers:
8,508



FEEDBACK:
4.69/5



A partner at the activity booth engaging with guests.

Partner Companies for DiscovHER

1	3M
2	ABB
3	Allozymes
4	Amgen
5	Byiroiro
6	Coco Veda
7	Centre for Quantum Technologies
8	Ferticlay
9	Food Bank SG
10	Johnson & Johnson X Junior Achievement Singapore
11	Kenvue X Junior Achievement Singapore
12	Plastify
13	SingaScope
14	Soil Social
15	United Women Singapore

Let's Talk STEM Panel Discussion topics

1	Navigating the STEM Field: Challenges and Strategies for Women Pursuing Careers in STEM
2	Innovation & Entrepreneurship in STEM: Transforming Research into Societal Impact
3	The Future of Sustainable Development



Guests taking a group photo with the help of ABB's selfie robot.



A Science Centre educator performing a demonstration at the DiscovHER show.

Singapore Science Centre Global Pte Ltd

SEAMEO-SINGAPORE Students Challenge



Apr - Jul 2023

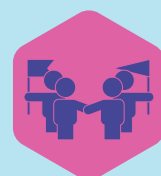
SEAMEO-Singapore Students Challenge (SSSC) blended the power of STEM learning with the urgency of being sustainable. This initiative aimed to establish a regional youth networking platform for Southeast Asian students where they could exchange ideas, culture, learning practices and enhance their global perspectives.

Organised with the Ministry of Education (MOE) and Southeast Asian Ministers of Education Organization (SEAMEO), SSSC also marked the first Singapore students challenge event since the COVID-19 pandemic with an in-person competition component. Themed *"Sustainable and Resilient Communities"*, students were tasked to prototype solutions to address problems in

their community in line with United Nations Sustainable Development Goals (UNSDGs) through a mix of STEM challenges.



DEVELOP GLOBAL PERSPECTIVES AMONGST SEA STUDENTS



CROSS-BORDER COLLABORATION

Participating Countries



SSSC Prize Presentation Ceremony at Maxwell auditorium with Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board.



Local student ambassadors showcasing their campus and the Singaporean culture to regional SSSC participants.

Virtual Workshops : 25 Apr - 3 May 2023

500 junior high school students from ten ASEAN countries participated in a series of virtual workshops where speakers from UNESCO Regional Office in Bangkok (UNESCO Bangkok), Asia-Pacific Centre of Education for International Understanding (APCEIU), National University of Singapore (NUS) and SCS shared their insights on topics relating to the theme.

In-Person Challenge : 4 - 8 Jul 2023

Ten teams comprising 50 students of age 13 - 15 (five students and one teacher per team), from the participating ASEAN countries took part in SSSC where they presented their projects and prototypes to a panel of judges. 22 students from Bukit Panjang Government High School and Commonwealth Secondary School also volunteered as student ambassadors to assist with the event and brought the teams around for school visits.

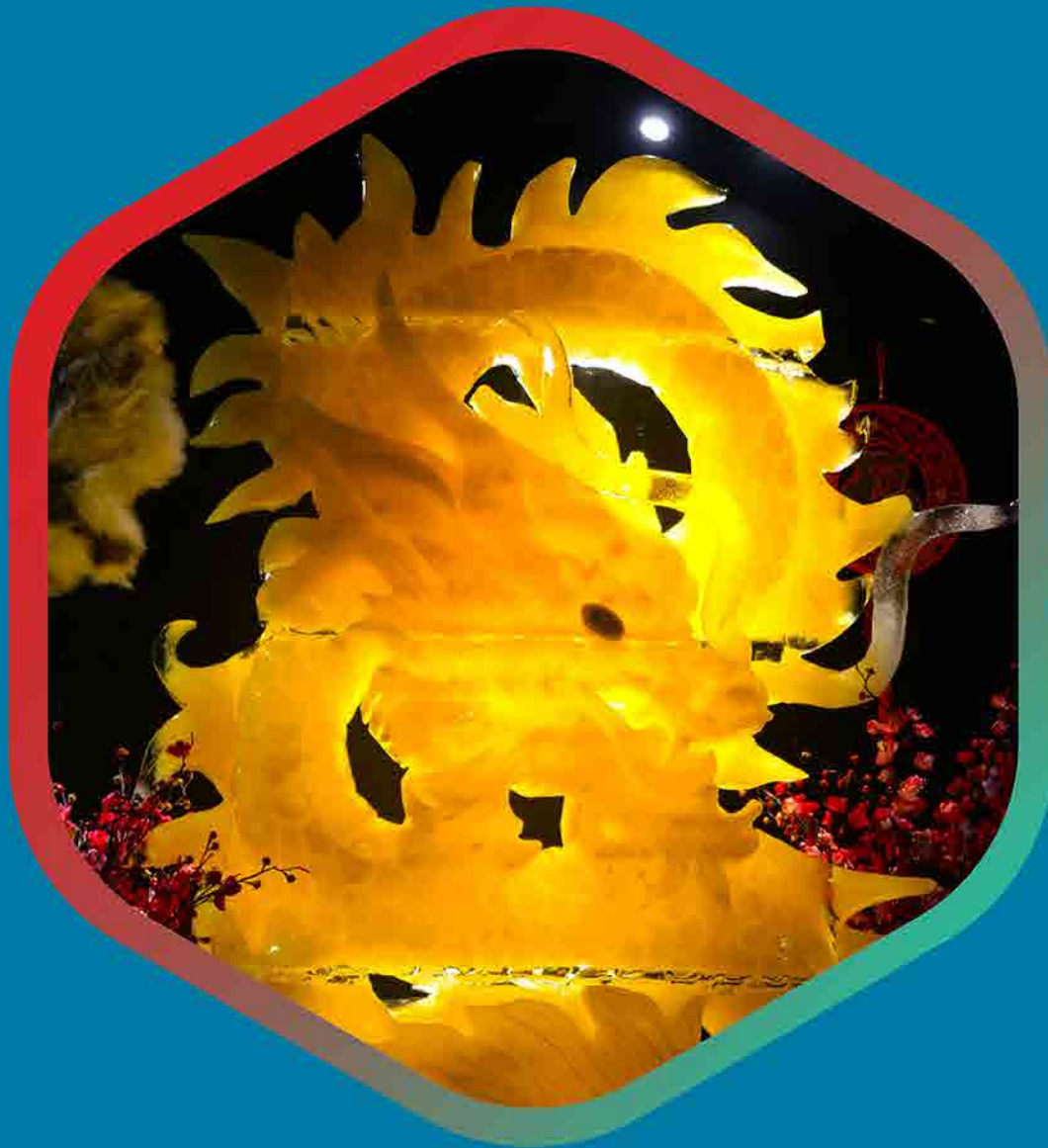
Winning Teams:

Prize	Country	School	Project Title
1 st Prize	Indonesia	SMP Negeri 1 Wonosobo	Reduce water and soil pollution by modifying breezeblocks using polystyrene mixture
2 nd Prize	Myanmar	No.1 Basic Education High School Dagon	Good health and well-being practices in school environments
3 rd Prize	Philippines	Quezon City Science High School	Solar and aqua-powered garbage intelligent processor on streams, with polluted water analyser

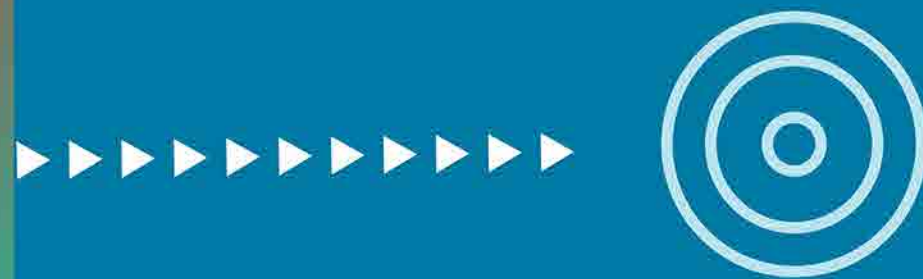


Participants presenting their projects to the judges during the in-person challenge.

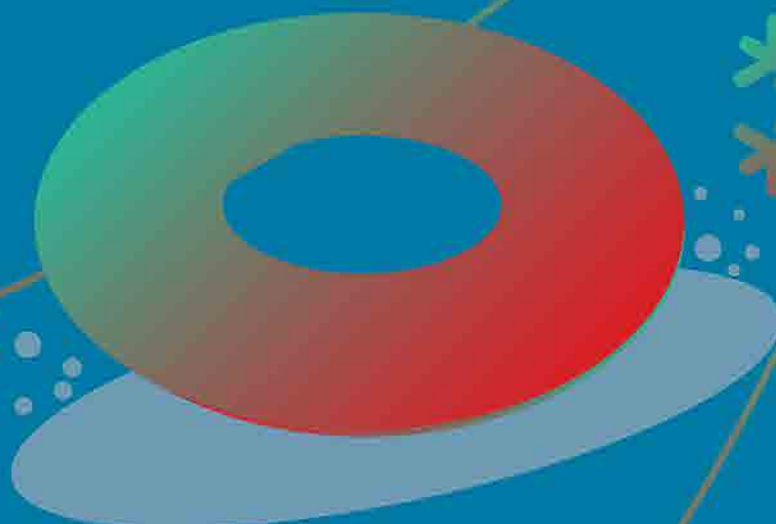
Participants attending the virtual workshop led by speakers from UNESCO Bangkok, APCEIU, NUS and SCS.



Group Of Attractions



- KidsSTOP™
- Snow City
- Omni-Theatre





Show You Can!

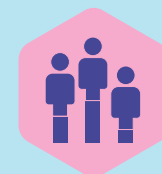


Show You Can! is an annual event that allows children to display their talents and spark their interest in science through creative performances. Themed “*Little Planet Protectors*”, this year’s edition was designed to promote environmental awareness and sustainability.

Preschoolers aged four to six, including children with special needs, captivated the audience with an exciting showcase of song and dance on conserving the planet. The event received positive feedback, with many expressing their eagerness to participate again in the future.



246 ATTENDEES



PARTICIPANTS:
29 TEAMS FROM
19 SCHOOLS



1ST PLACE
WINNER:
PCF
SPARKLETOTS
PRESCHOOL @
KEBUN BARU
BLOCK 109



Students from PCF Sparkletots Preschool @ Kebun Baru Block 109 won first place showcasing creative solutions for the planet with drama and a heartfelt song.



Children from MindChamps Preschool @ Jurong West demonstrating their commitment to environmental sustainability through an instrumental play.



KidsSTOP™ Academy

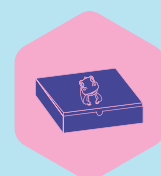
This initiative promotes the ongoing exploration of scientific knowledge from a young age and fosters inquisitive and investigative skills through exciting activities. Children get to embark on a personalised learning adventure and track their progress by participating in workshops at KidsSTOP™.

The *Rex Explores* kit was introduced in May for an enhanced educational experience for children to embark on mission-based activities, fostering deeper understanding of STEM. After collecting six different thematic kits, participants will score an invite to the annual *KidsSTOP™ Academy* graduation ceremony.

The graduation ceremony was held on 4th November to celebrate the achievements of 60 young graduates.



60 GRADUATES



THEMATIC KITS
FOR STEM
EXPLORATION



ADVOCATE
THE PURSUIT
OF SCIENTIFIC
KNOWLEDGE

Group photo with KidsSTOP™ Academy graduates.



The very first Rex Explores kit – Rex Explores Dinosaurs! Each kit unveils a hands-on activity, mission card, and thematic Rex dinosaur figurine.



SCS Inclusion Team

This initiative aims to promote interest, learning and creativity in science and technology through enjoyable and imaginative experiences for all.

Through partnerships with stakeholders from Special Education (SPED) institutions, SG Enable, SPED educators, job coaches and students, more training and employment opportunities were made possible for people with diverse needs and abilities.

Public awareness and education efforts were also made possible with yearly commemoration of World Autism Awareness Day, where a series of meaningful engagements showcased the abilities and talents of individuals with diverse needs.

Key Highlights:

- Centre-wide commemoration of World Autism Awareness Day in partnership with SPED institutions such as Eden School and Association for Persons with Special Needs (APSN).
- Participated in SG Enable's annual Job Shadowing Day, where students from SPED institutions worked on assigned tasks with ground facilitators at KidsSTOP™.
- Conducted a sharing with International Council of Museums (ICOM) members on SCS initiatives centred around inclusivity in our programmes, employment, partnerships as well as infrastructure and design.

Students and job coaches from APSN Delta Senior School with representatives from SG Enable and SCS Inclusion Team members for Job Shadowing Day.



ICOM and SCS Inclusion Team members along with the senior guides at a sharing session on inclusive initiatives organised by the Science Centre.



Artworks by See Zong Xian, artist from Eden School on display at the Science Centre in commemoration of World Autism Awareness Day.

Snow City

Candy Snow House @ Changi Airport Terminal 3

 **4 Nov 2023 -
31 Mar 2024**

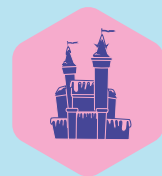
As an integral component of Changi Airport's annual year-end campaign, the *Candy Snow House @ Changi Airport Terminal 3* marked the airport's fourth collaboration with Snow City. Embracing the theme of "Candy Carnival", the 516 m² snow house captivated guests with its expansive size and intricate ice sculptures. It also included exciting snow play zones with activities such as bowling and mini golf.



CANDY-THEMED
SNOW HOUSE



FOURTH
COLLABORATION
WITH CHANGI
AIRPORT



BIGGEST SNOW
HOUSE BY SNOW
CITY

Ice sculptures such as a reindeer sleigh were featured to create more Christmas-themed photo opportunities for guests.



Guests were thrilled by the snow fall experience at the Candy Snow House.





Snowscape Shooting Arena

United Shooters partnered with Snow City to create the *Snowscape Shooting Arena*, an outdoor shooting experience for ages six and up.

This arena aims to strengthen interpersonal relationships and foster effective communication through collaboration among team members. There are six activities for guests to experience, including target shooting, archery-based activities and a comprehensive paintball arena for older guests.



OUTDOOR
SHOOTING
EXPERIENCE



EXHILARATING
HANDS-ON
ACTIVITIES



Guests taking part in team building games such as paintball at the Snowscape Shooting Arena.

Snow City

Coloured Ice Playground

Awarded by the Singapore Book of Records as the largest dyed ice playground, the *Coloured Ice Playground*, measuring at 1.61m by 6.9m comes with interactive elements and photo opportunities.

With the support of Singapore Tourism Board's (STB) Spruce Up initiative, the *Coloured Ice Playground* was meticulously crafted over 499 hours by renowned local artist Jeffrey with a whopping 270 blocks of coloured and clear ice.



Young guests snapping a photo with Koko the Fox during a mascot appearance event at the Coloured Ice Playground.



The Penguin Playground features a mini slide for children under the height of 1.2 metres to enjoy.



The Coloured Ice Playground is made up of 270 blocks of ice.

Omni-Theatre

Omni-Theatre

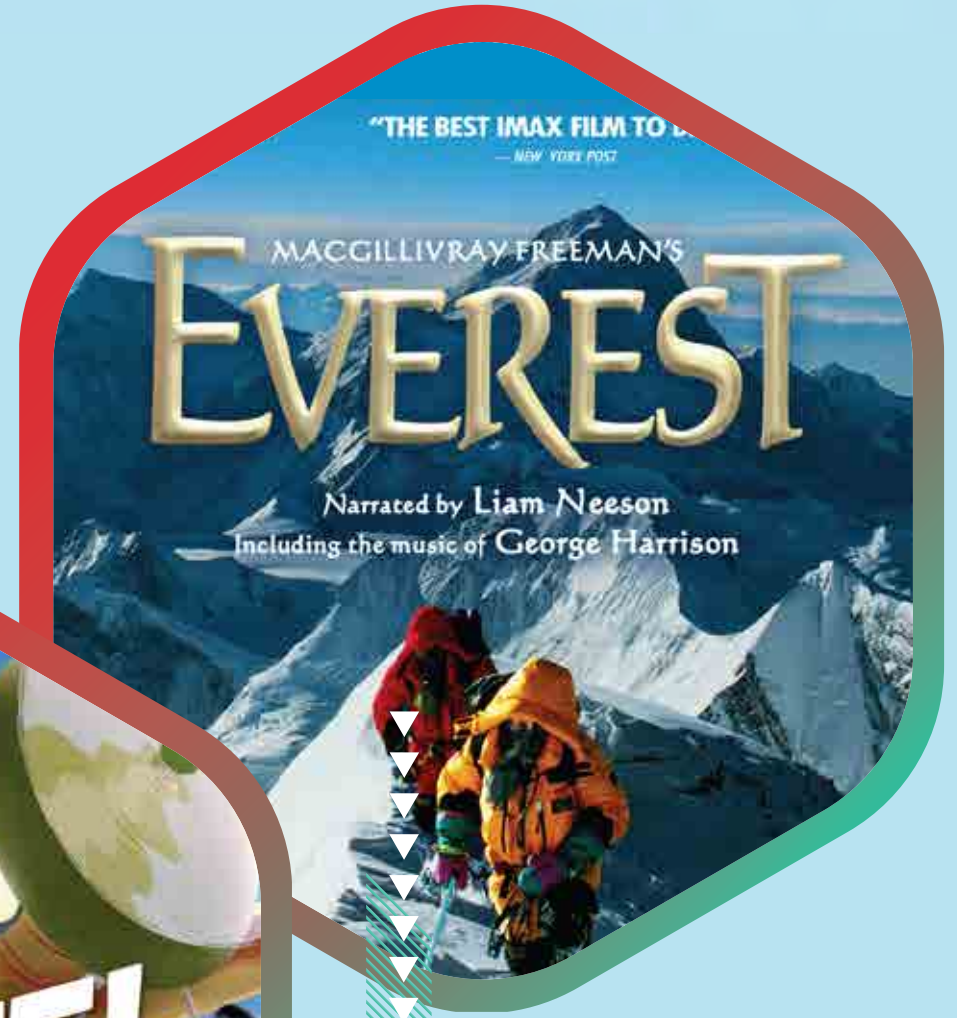
The Omni-Theatre continued to fascinate guests with a variety of movies, including three new films titled: *Everest*, *Exploring New Worlds*, and *3-2-1 Liftoff!*

Everest, a digitally remastered version of the namesake, outlined the perilous journey in conquering the highest peak known to man. *3-2-1 Liftoff!* a child-friendly film, depicted the complexity of venturing into space. The show proved to be a commercial success with record-breaking attendance from local and international schools throughout the year.

The Omni-Theatre continued to welcome diverse groups of audiences, comprising school groups, charity organisations, corporate events, inbound tour groups and distinguished guests from the Australian High Commission and the Embassy of Chile.



SOUTHEAST
 ASIA'S FIRST 8K,
 3D DIGITAL DOME
 THEATRE



An unprecedented number of local and international schools visited the Omni-Theatre to catch 3-2-1 Liftoff!



The digitally remastered version of Everest was screened to usher in a new generation of guests to witness the journey to the highest peak known to man.



Community & Partners



- Volunteer Programmes
- Sustainability Efforts
- Placemaking
- List of Sponsors
- Sponsorship Fund, Conflict of Interest Policy, Governance on Remuneration
- Board Sub-Committees & Project Committees
- Board Meeting and Attendance



Volunteer Programmes

Corporate Volunteer Programme

 **300 volunteers**

In 2023, corporate volunteers from Abbott, Amgen Singapore Manufacturing, Illumina, PRECISE and KLA Foundation worked with the Centre during various programmes such as *Abbott Family Science Day* and *Operation Discovery*, *AMPower*, *Future is Bright*, *DNA Month* and KLA programmes respectively to conduct interactive hands-on activities for the underserved communities.

A total of 300 volunteers contributed 1,154 hours for these initiatives and made it a fruitful experience for everyone involved.

In addition, there were 522 judges who volunteered in various competitions, such as *International Science Drama Competition (ISDC)*, *National Robotics Competition*

 **1,154 volunteering hours**

(*NRC*), *Singapore Amazing Flying Machine Competition (SAFMC)*, *Singapore Science and Engineering Fair (SSEF)*, *National STEM Championship (NSTEMC)*, *National STEM Talent Search (NSTS)*.



CORPORATE
 SOCIAL
 RESPONSIBILITY



COMPETITION
 JUDGING



522 JUDGES



Amgen corporate volunteers interacting with participants during the AMPower programme.



Judging for NSTS.



Sustainability Efforts

Board & Senior Management Statement

In light of evolving global challenges, our commitment to sustainability at the Science Centre remains unwavering.

Our flagship programmes, such as the *Sony Creative Science Award (SCSA)* and the *National Robotics Competition (NRC)*, seamlessly integrated sustainability. For instance, the Sustainability Award was introduced under SCSA and participants were encouraged to use sustainable materials for NRC, exemplifying our commitment to eco-conscious innovation. Other sustainability-themed educational programmes like *Our Environment & Us* and *Sustainability and Climate Change* helped to plant the seeds of eco-consciousness in the minds of the next generation.

Internally, we're fostering a culture of sustainability, promoting eco-friendly practices like reusable cutlery at staff events, organising awareness activities such as *SCS Green Day* while the *SCB Eco-Warriors* award was given to staff in recognition of their green efforts. These initiatives aimed to inspire good habits and foster collective action within our organisation.

While we may not have all the answers, we believe that STEM education empowers us to navigate future challenges. As leaders in innovation and education, let's continue to champion sustainability, guiding our audiences towards practical solutions for a brighter tomorrow.



Sustainability Efforts

Governance Structure for Sustainability at the Science Centre

A dedicated sustainability committee comprising of staff representatives from various departments was set up. The committee worked closely with the operations team to conduct events and establish new guidelines within the Centre to encourage eco-friendly habits. Bi-monthly meetings

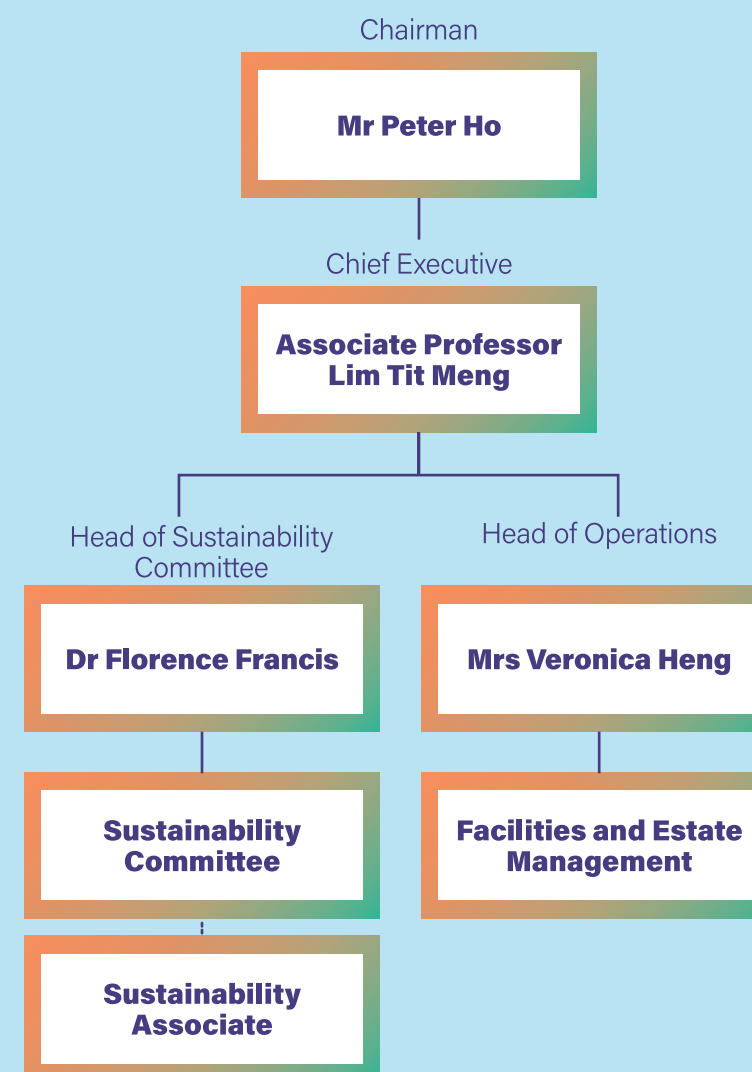
were held to set timelines and establish KPIs for these efforts. Furthermore, emission numbers, were shared with the management via the Centre's monthly reports.



FY 23/24



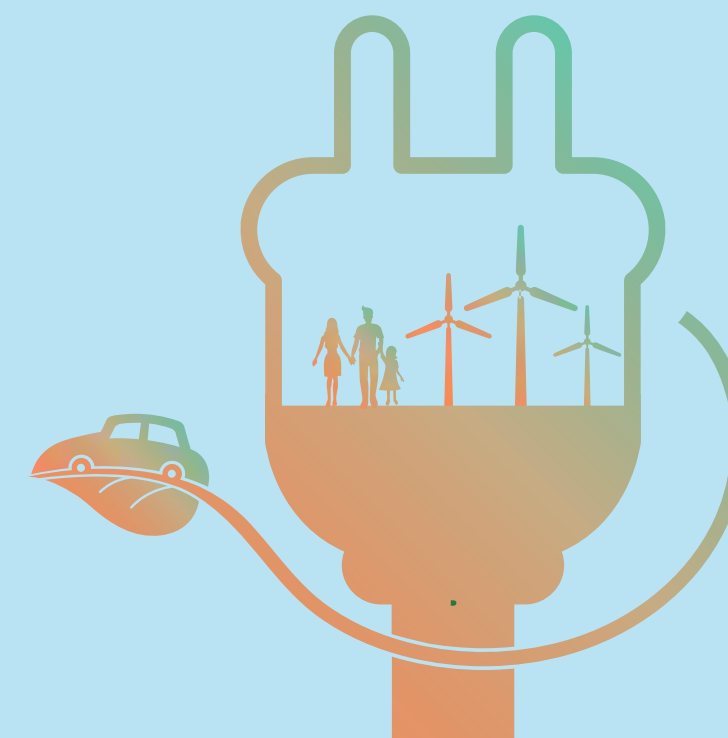
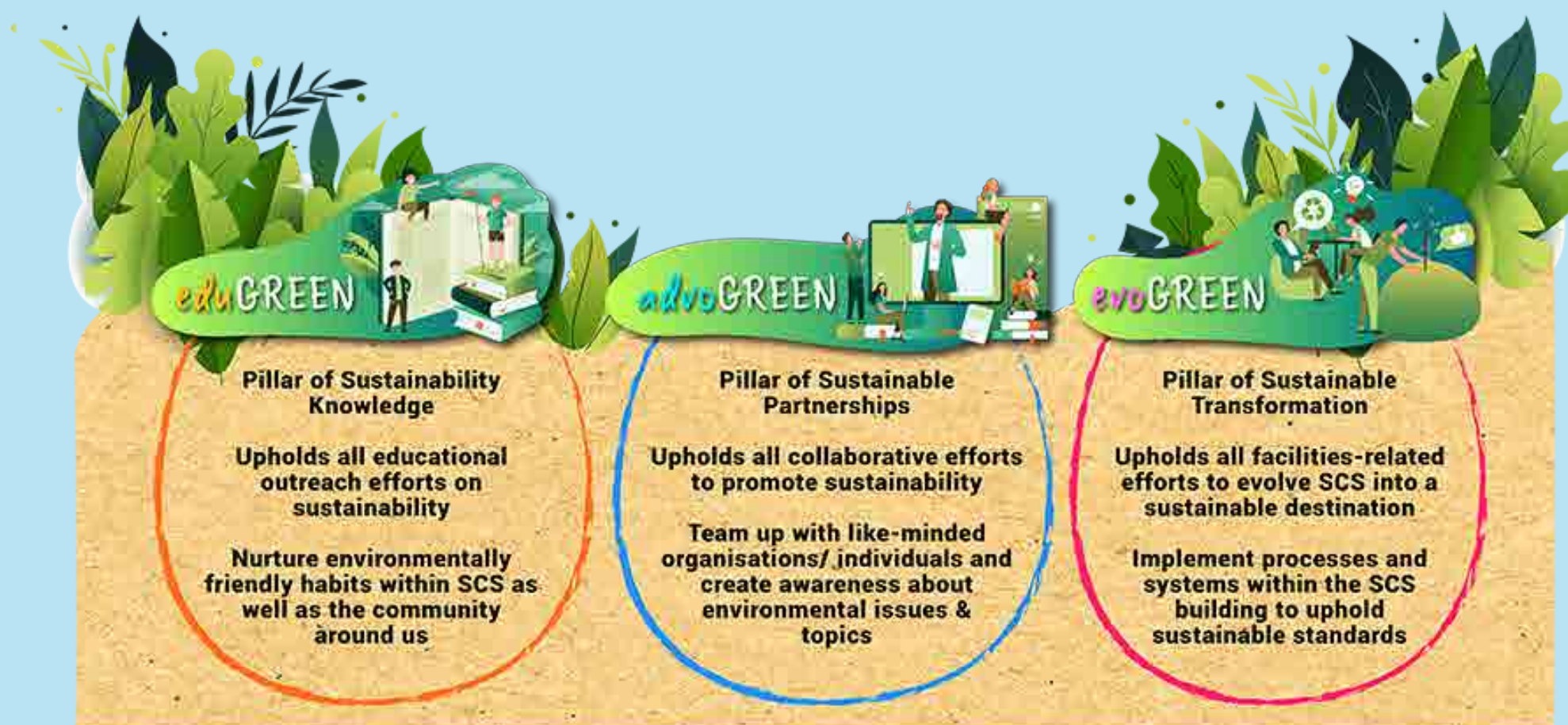
FY 24/25



Sustainability Efforts

SCB GREEN PLAN

The SCB GREEN plan comprises three pillars – eduGREEN, advoGREEN & evoGREEN. Each pillar has a dedicated goal to promote a sustainable culture within the organisation as well as the community.



Sustainability Efforts

STEM ALP Hydroponics Programme
 Punggol Secondary School teachers being trained by STEM Inc staff on the IoT hydroponics programme.



STEM ALP Hydroponics Programme
 Punggol Secondary School students coding a micro:bit to connect an ultrasound sensor to IoT.

eduGREEN

This pillar upholds all educational outreach efforts on sustainability and nurtures sustainability champions through these programmes.

STEM ALP Hydroponics Programme

STEM Inc worked with Punggol Secondary School teachers to revitalise the school's hydroponics programme, where students grew plants without the use of soil. The programme was expanded to integrate Internet of Things (IoT) technology to monitor plant growth, enabling students to apply STEM knowledge and skills in practical, real-world situations.

MSE SG Eco Fund Projects

Supported by the Ministry of Sustainability and the Environment (MSE) SG Eco Fund, sustainability-themed board and card games were created and customised by staff from the Centre's STEM CeLL and STEM Inc teams. These games were designed to raise awareness on the environmental impact of human activities in a localised context.

STEM Inc and the Gallery Experience (GEX) teams also engaged schools in sustainable design and fabrication using recycled plastics. By working with local social enterprise PlasticEvo, plastic waste was

collected and upcycled at the Centre to create 3D printer filament. Workshops were also conducted for students to gain a deeper understanding about the plastic waste upcycling process.

Sustainability-Themed Games



NUMBER OF STUDENTS REACHED:
 2,000 FROM 20 SCHOOLS

Upcycling Plastic Waste



NUMBER OF STUDENTS REACHED:
 500 FROM 20 SCHOOLS



AMOUNT OF PLASTIC WASTE COLLECTED:
 100KG

Sustainability Efforts

NXplorers Programme

Participants showcasing their projects as part of the NXplorers Programme.



Sustainability-Focused Education Programmes

The Centre conducts a suite of sustainability-focused education programmes for students and teachers to learn about environmental challenges that the Earth currently faces, such as global warming and ocean acidification. Through these programmes, which include lecture demonstrations and workshops, participants explored different methods of environmental conservation and discussed Singapore's efforts in addressing climate change. They also embarked on a self-guided tour of sustainability-related exhibitions at the Centre, such as the *Climate Changed* and *Energy Story* exhibitions.

	Number of Student Attendees	Number of Teacher Attendees
Our Environment & Us	506	43
Sustainability and Climate Change	73	4
Total	579	47

NXplorers Programme

The *NXplorers* programme equipped students worldwide with critical thinking, problem-solving, and collaboration skills to tackle complex global issues. Participants used their creativity and resourcefulness to innovate technology and community-driven solutions to critical issues such as climate change, sustainable development and social inequality. This year's edition of *NXplorers* also embraced the digital age and enhanced its digital infrastructure by offering online learning resources, virtual workshops, and collaborative platforms.



88 STUDENTS
 FROM 19
 SCHOOLS
 REACHED

Sustainability Efforts



advoGREEN

The advoGREEN pillar advocates for building a sustainability culture amongst staff and guests through awareness activities.

Learning Journey to Commonwealth Secondary School (CSS)

The Centre's staff visited Commonwealth Secondary School, known for its environmental excellence, to find out about the school's sustainability initiatives. As part of this exchange of knowledge, the Centre's staff had the opportunity to explore the various eco-facilities such as their indoor farming room and take a closer look at the trees planted on the school grounds.

SG Clean Day

SCS staff participated in SG Clean Day, an initiative by the Public Hygiene Council (PHC) for a cleaner and greener Singapore for all. Led by Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, a group of SCS staff worked together to pick up litter around the F1 Pit Building.

Green Pledge for Earth Day

To celebrate Earth Day, staff were encouraged to make sustainability pledges using recycled and scrap materials. An exclusive SCS Earth Day badge was handed out to the participants to recognise their commitment to the cause. This initiative was also extended to guests who made their own green pledges on scrap materials at the Tinkering Studio.



Sustainability Efforts

SCS Green Day
 Science Centre staff learning about various spices grown in the Ecogarden.



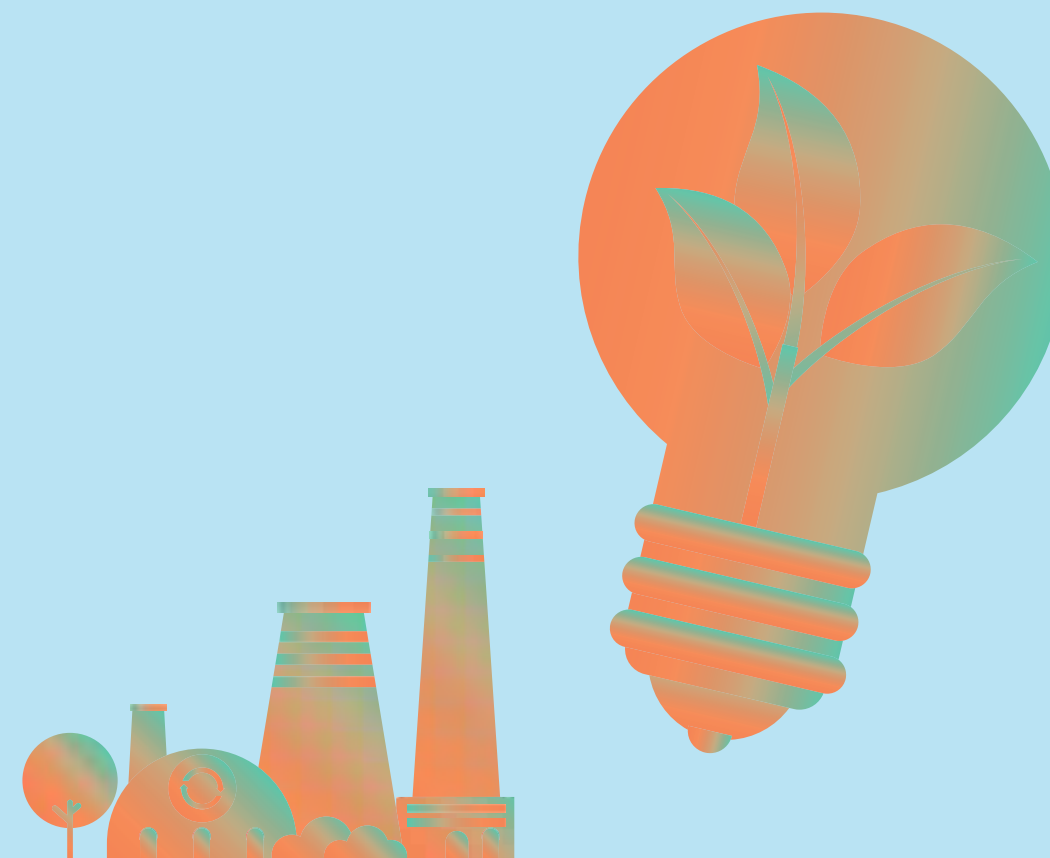
SCB Eco-warriors
 Stories of the Centre's Eco-Warriors were shared across departments through an internal newsletter.

SCB Eco-Warriors

The *SCB Eco-Warriors* award was the Centre's effort to recognise staff who have adopted sustainable practices into their lifestyles. Staff were encouraged to nominate their colleagues who exemplified sustainability, dubbing them the Centre's *Eco-Warriors*. The most compelling entries were chosen and celebrated via an internal newsletter, in which our *Eco-Warriors* shared their sustainability hacks, inspiring others to follow suit.

SCS Green Day

SCS Green Day was a flea market where an exchange of knowledge amongst staff, sustainability-related habits, and tips were shared. The flea market showcased upcycled products made by staff such as tote bags, eco-friendly life hacks like purchasing bubble tea sustainably and a second-hand book drive.



Sustainability Efforts



Compost and rainwater being collected and used at the Centre's Ecogarden.

evoGREEN

The evoGREEN pillar focuses on sustainability practices and standards in the Science Centre building and facilities, transforming the Centre into a sustainable destination.

Composting Food Waste and Harvesting Rainwater

In FY23, the Centre gathered 44kg of compost from the food waste generated at one of the Centre's F&B establishments, Stellar. The Centre was also able to collect 204m³ of rainwater through its rainwater harvester. The compost and rainwater collected were used by the Centre's Ecogarden nursery.



BCA GREEN
MARK GOLD PLUS
AWARD



Sustainability Efforts

Electricity Consumption

Target: 10% reduction in Energy Utilisation Index (EUI) by 2030, compared to average of 2017 to 2019 levels.

Assessment:

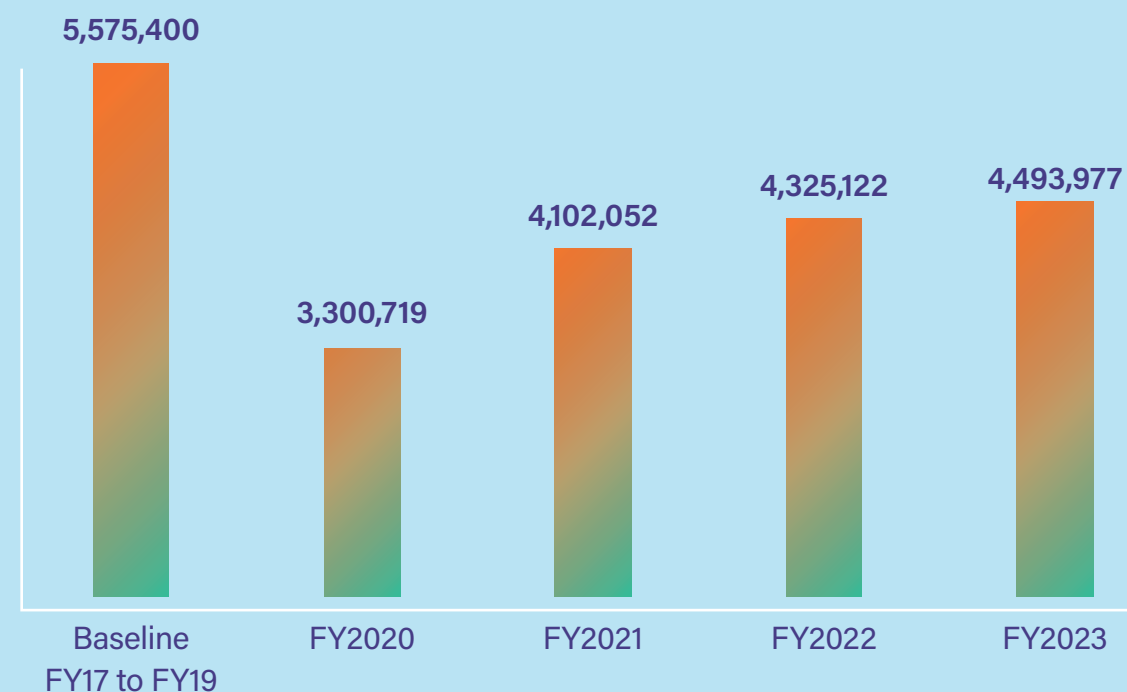
As part of the Centre's proactive efforts to optimise energy consumption, chiller plants for Science Centre and Omni-Theatre were enhanced through Guaranteed Energy Savings Performance (GESP) projects and commissioned in the year 2019 and 2021 respectively. Electricity consumption has gradually increased due to the resumption of post-COVID-19 activities and operations.

To further optimise energy usage, the Centre varied its chilled water temperature depending on the weather and heat load. All light fittings were also replaced with LEDs since 2020.

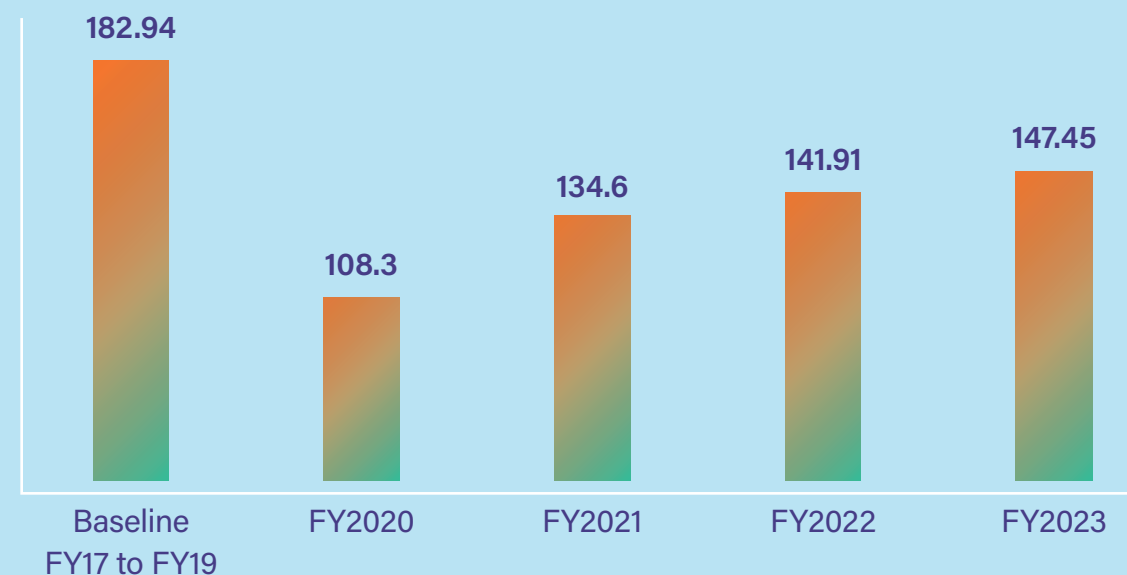
Notes:

1. EUI is defined as the total electricity consumed by a facility in one year divided by its total gross floor area (GFA). For Science Centre, the facility comprises the main Centre, the Annexe, KidsSTOP™ and Omni-Theatre.
2. The Centre uses the average of the three years before COVID-19 pandemic, FY17 to FY19, as the baseline for electricity consumption, to better represent current operational realities and sustainability efforts.
3. Adopting the 2017 to 2019 average as the baseline for the Centre's electricity consumption provides an accurate representation of pre-pandemic consumption patterns. This approach acknowledges the efforts made during the post-COVID-19 period to promote sustainability.

Electricity Consumption (kWh)



EUI (kWh/m²)



Sustainability Efforts

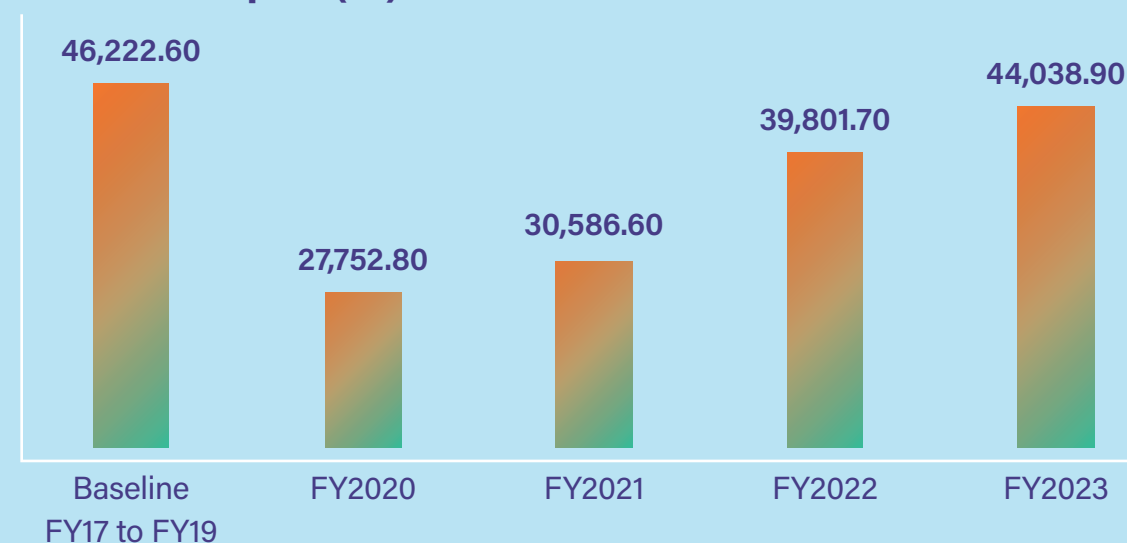
Water Consumption

Target: 10% reduction in Water Efficiency Index (WEI) by 2030, compared to average of 2017 - 2019 levels.

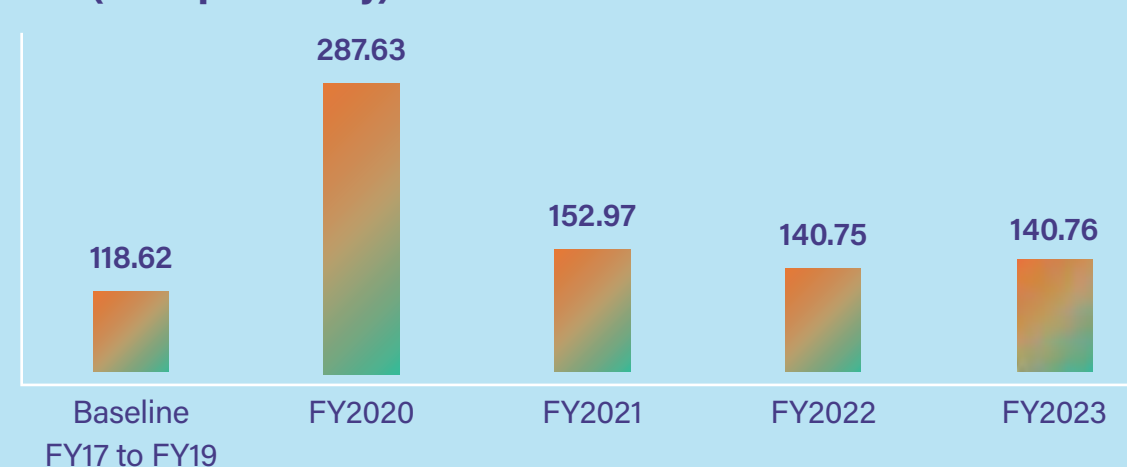
Notes:

1. WEI is defined as water consumption per day divided by the total headcount including staff and guests at the premises. For Science Centre, the facility comprises the main Centre, the Annexe, KidsSTOP™ and Omni-Theatre.
2. The Centre uses the average of the three years before COVID-19 pandemic, FY17 to FY19, as the baseline for water consumption, to better represent current operational realities and sustainability efforts. Water consumption has gradually increased due to the resumption of post-COVID-19 activities and operations.
3. Adopting the 2017 to 2019 average as the baseline for the Centre's water consumption provides an accurate representation of pre-pandemic consumption patterns. This approach acknowledges the efforts made during the post-COVID-19 period to promote sustainability.
4. For the calculation of the baseline and 2023 performance, the Centre's actual number of operational days is used. Closure days are typically on Mondays unless it is a public or school holiday. The total number of guests includes those visiting the Centre for enrichment programmes as well.
5. Erratum: The water consumption for FY2022 was incorrectly reported as 37,078 m³ in the FY2022 Annual Report. The correct figure for FY2022, as indicated in the bar graph on the top right, should be 39,801.70 m³.

Water Consumption (m³)



WEI (litres/person/day)





Sustainability Efforts

Waste Generation

Target: 30% reduction in Waste Disposal Index (WDI) by 2030 compared to 2022 levels.

Notes:

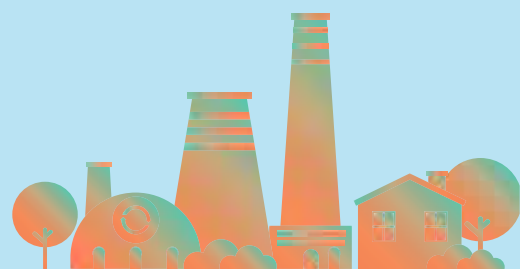
1. WDI is defined as the total waste disposed per day divided by the total headcount including staff and guests at the premises.
2. The total number of guest includes those visiting the Centre for enrichment programmes as well.

Greenhouse Gas (GHG)

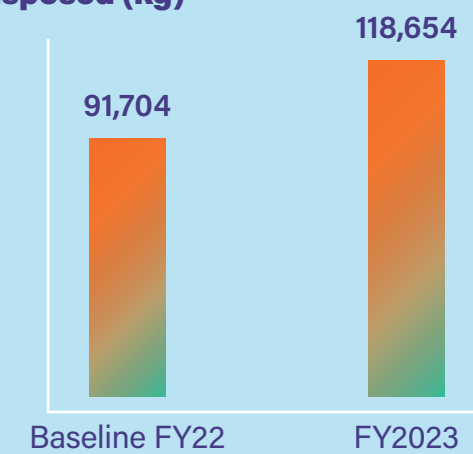
GHG Emission (Scope 2): 2kt CO₂e

Notes:

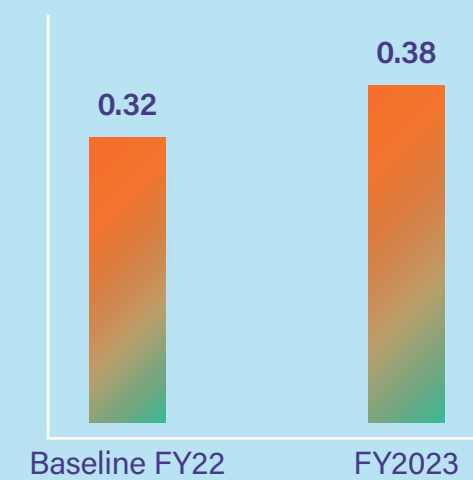
1. The Science Centre is currently reviewing its carbon emissions peak and Scope 1 emissions.
2. The relevant information and data will be reported in subsequent years' Annual Reports.



Amount of Waste Disposed (kg)



WDI (kg/person/day)



Placemaking

Placemaking With The Community

Science Centre believes in proactively engaging the community to make the spaces at and around the Centre better, with the roll-out of exciting placemaking events in January and February 2024.

The Power of Place in Making Community Sharing Session

Science Centre staff and stakeholders from Jurong Lake District heard from Shophouse & Co. and CapitaLand Development on their placemaking successes and challenges. These lessons were insightful in their application to making the Science Centre a place for the community.

Lively Places@Yuhua

The Centre supported community builder, Loving Heart Multi-Service Centre (LHMSC) in initiating *Lively Places@Yuhua*. Aimed at building community, the programme invited residents and Jurong Lake District stakeholders to participate in co-creating vibrant and lively public spaces through activities around wellness, art, and STEM+.

 **24 Jan 2024**  **Number of participants: 60**

 **21 Feb 2024**  **Number of participants: 60**

It takes a place to create a community, and a community to create a place.

- Fred Kent, Project for Public Spaces



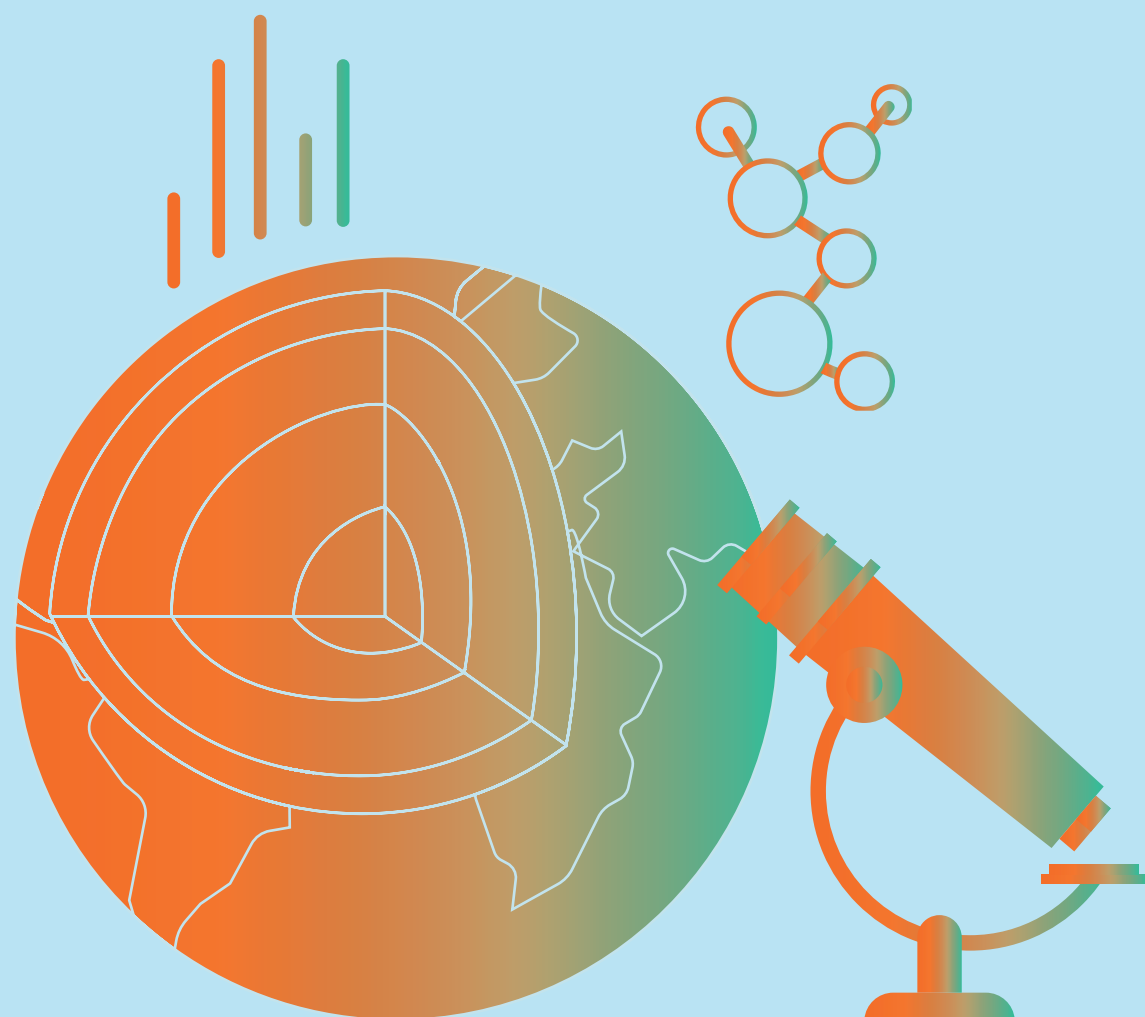
Presenting residents' ideas for Lively Places@Yuhua on co-creating new community spaces and activities.



Guest speakers Mr Marcus Lim, Head of Flexible Workspace & Placemaking, CapitaLand Development, and Ms Stella Gwee, Founder, Shophouse & Co., sharing on how creativity, culture and community are key to making vibrant places.

List of Sponsors

List of Sponsors



- ABBOTT MANUFACTURING (SINGAPORE) PTE LTD
- AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH
- AMAZON ASIA-PACIFIC HOLDINGS PTE LTD
- AMAZON ASIA-PACIFIC RESOURCES PTE LTD
- AMGEN FOUNDATION
- AMGEN SINGAPORE MANUFACTURING PTE LTD
- BLOOMBERG SINGAPORE PTE LTD
- DEFENCE SCIENCE AND TECHNOLOGY AGENCY
- DSO NATIONAL LABORATORIES
- EDUCATION DEVELOPMENT CENTER, INC
- ENERGY MARKET AUTHORITY
- HEALTH PROMOTION BOARD
- HOME TEAM SCIENCE AND TECHNOLOGY AGENCY
- ILLUMINA CORPORATE FOUNDATION
- JAMES DYSON FOUNDATION
- KLA-TENCOR (SINGAPORE) PTE LTD
- MICRON FOUNDATION
- MINISTRY OF HEALTH
- MINISTRY OF SUSTAINABILITY AND THE ENVIRONMENT
- MODERNA BIOTECH SINGAPORE PTE LTD
- NATIONAL RESEARCH FOUNDATION, SINGAPORE
- SHELL EASTERN PETROLEUM PTE LTD
- SINGAPORE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
- SINGAPORE LAND AUTHORITY
- SINGAPORE TELECOMMUNICATIONS LTD
- SMART NATION AND DIGITAL GOVERNMENT OFFICE
- SONY ELECTRONICS ASIA PACIFIC PTE LTD
- SP GROUP
- TAN KAH KEE FOUNDATION
- TEMASEK FOUNDATION
- U.S. EMBASSY IN SINGAPORE

Board Sub-Committees & Project Committees



Executive Committee (EXCO)

Chairman: Mr Peter Ho Yew Chi
Members: Mr Lim Boon Wee
Mr Richard Tan Chuan Lye
Mr Howie Lau How Sin
Mrs Nina Yang Chui Ching



Projects & Investment Committee (PIC)

Chairman: Mrs Nina Yang Chui Ching
Members: Mr Oon Jin Teik
Mr Tony Zameczkowski
Ms Hwang Yu-Ning
Mr Welby Altidor
Mr John Cheng Chen Long
Ms Juliana Kua Shu Tan



Audit & Risk Management Committee (ARMC)

Chairman: Mr Richard Tan Chuan Lye
Members: Professor Ng Huck Hui
Professor Phoon Kok Kwang
Mr Hoe Wee Meng
Mr Teo Kok Hong



Digital Capabilities Committee (DCC)

Chairman: Mr Howie Lau How Sin
Members: Mr Hoe Wee Meng
Ms Nichol Ng Wee Teng
Mr Tony Zameczkowski
Professor Ng Huck Hui
Professor Phoon Kok Kwang



New Science Centre Development Committee (NSCDC)

Chairman: Mr Peter Ho Yew Chi
Members: Mr Lim Boon Wee
Mrs Nina Yang Chui Ching
Mr Howie Lau How Sin
Ms Huang Yu-Ning
Mr Welby Altidor
Mr Oon Jin Teik
Mr Richard Tan Chuan Lye

Board Meetings & Attendance
(1 Apr 2023 to 31 Mar 2024)

Board Members	Date Joined	Date Retired	Total Meetings Attended
Ms Tan Yen Yen	15 Apr 2011	31 Jan 2024	2 out of 2
Mr Lim Boon Wee	1 Feb 2023	—	3 out of 3
Mr Soh Gim Teik	1 Feb 2015	31 Jan 2024	2 out of 2
Ms Hwang Yu-Ning	1 Feb 2019	—	2 out of 3
Mr Howie Lau How Sin	1 Feb 2017	—	1 out of 3*
Professor Ng Huck Hui	1 Feb 2019	—	3 out of 3
Mr Chang Chee Pey	1 Feb 2019	31 May 2023	2 out of 2
Mdm Lee Lin Yee	1 Feb 2021	14 Dec 2023	2 out of 2
Mr Tony Zameczkowski	1 Feb 2021	—	2 out of 3
Mrs Nina Yang Chui Ching	1 Feb 2021	—	1 out of 3*
Professor Phoon Kok Kwang	1 Feb 2021	—	1 out of 3*
Mr Welby Altidor	1 Feb 2023	—	3 out of 3
Mr Oon Jin Teik	1 Feb 2023	—	2 out of 3
Mr Richard Tan Chuan Lye	1 Feb 2023	—	3 out of 3

Board Members	Date Joined	Date Retired	Total Meetings Attended
Mr John Cheng Chen Long	1 Feb 2023	—	2 out of 3
Ms Nichol Ng Wee Teng	1 Feb 2023	—	2 out of 3
Mr Hoe Wee Meng	1 Feb 2023	—	1 out of 3*
Mr Teo Kok Hong	15 Dec 2023	—	1 out of 1
Mr Peter Ho Yew Chi	1 Feb 2024	—	1 out of 1
Ms Juliana Kua Shu Tan	1 Feb 2024	—	1 out of 1

* While Mr Howie Lau, Mrs Nina Yang, Professor Phoon Kok Kwang and Mr Hoe Wee Meng were only able to attend one of the Board meetings due to their work and travelling commitments, they actively contributed via other Board's sub-committees.



Financial Report





**SCIENCE CENTRE BOARD
AND ITS SUBSIDIARIES**
(Established under the Science Centre Act 1970)

REPORT AND FINANCIAL STATEMENTS

YEAR ENDED 31 MARCH 2024

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

REPORT AND FINANCIAL STATEMENTS

C O N T E N T S

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Statements of financial position	8
Statements of changes in equity	9
Consolidated statement of cash flows	10
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SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

STATEMENT BY SCIENCE CENTRE BOARD

In our opinion,

- (a) the accompanying financial statements of Science Centre Board (the "Board") and its subsidiaries (the "Group"), as set out on pages 6 to 40 are properly drawn up in accordance with the provisions of the Public Sector (Governance) Act 2018 ("PSG Act"), the Science Centre Act 1970 ("SCB Act"), the Charities Act 1994 and other relevant regulations (the "Charities Act and Regulations") and Statutory Board Financial Reporting Standards ("SB-FRS") so as to present fairly, in all material respects, the financial position of the Group and the Board as at 31 March 2024, and the financial performance, changes in equity of the Group and the Board, and cash flows of the Group for the year then ended;
- (b) the receipts, expenditure, investments of moneys and the acquisition and disposal of assets by the Board during the year are, in all material respects, in accordance with the provisions of the PSG Act, SCB Act and the requirements of any other written law applicable to moneys of or managed by the Board; and
- (c) proper accounting and other records have been kept, including records of all assets of the Board whether purchased, donated or otherwise.

On behalf of Science Centre Board and its subsidiaries



Mr Peter Ho Yew Chi
Chairman



Dr Lim Tit Meng
Chief Executive

25 June 2024

INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF THE BOARD OF SCIENCE CENTRE BOARD

Report on the Audit of the Financial Statements

Opinion

We have audited the financial statements of Science Centre Board (the "Board") and its subsidiaries (the "Group") which comprise the consolidated statement of financial position of the Group and the statement of financial position of the Board as at 31 March 2024, and the consolidated statement of comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows of the Group and the statement of comprehensive income and statement of changes in equity of the Board for the year then ended, and notes to the financial statements, including material accounting policy information, as set out on pages 6 to 40.

In our opinion, the accompanying consolidated financial statements of the Group and the statement of financial position, statement of comprehensive income and statement of changes in equity of the Board are properly drawn up in accordance with the provisions of the Public Sector (Governance) Act 2018 ("PSG Act"), the Science Centre Act 1970 ("SCB Act"), Charities Act 1994 and other relevant regulations ("Charities Act and Regulations") and Statutory Board Financial Reporting Standards ("SB-FRS") so as to present fairly, in all material respects, the financial position of the Group and the Board as at 31 March 2024 and the financial performance and changes in equity of the Group and the Board and cash flows of the Group for the year then ended.

Basis for opinion

We conducted our audit in accordance with Singapore Standards on Auditing ("SSAs"). 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 Group in accordance with the Accounting and Corporate Regulatory Authority *Code of Professional Conduct and Ethics for Public Accountants and Accounting Entities* ("ACRA Code") together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ACRA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Information Other than Financial Statements and Auditor's Report Thereon

Management is responsible for the other information. The other information comprises the Statement by Science Centre Board set out on page 1, but does not include the financial statements and our auditor's report thereon.

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

In connection with our audit of the financial statements, our responsibility is to read the other information 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, 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.

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF THE BOARD OF
SCIENCE CENTRE BOARD**

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the provisions of the PSG Act, SCB Act, Charities Act and Regulations and SB-FRS, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

A statutory board is constituted based on its constitutional act and its dissolution requires Parliament's approval. In preparing the financial statements, management is responsible for assessing the Group'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 there is intention to wind up the Group or for the Group to cease operations.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

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 SSAs 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.

As part of an audit in accordance with SSAs, we exercise professional judgement and maintain professional skepticism throughout the audit. We also:

- (a) Identify and assess the risks of material misstatement of the financial statements, 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.
- (b) 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 Group's internal control.
- (c) Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- (d) Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group'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 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 Group to cease to continue as a going concern.

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF THE BOARD OF
SCIENCE CENTRE BOARD**

- (e) Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- (f) Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the Group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance 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.

Report on Other Legal and Regulatory Requirements

Opinion – PSG Act and SCB Act

In our opinion:

- (a) the receipts, expenditure, investment of moneys and the acquisition and disposal of assets by the Board during the year are, in all material respects, in accordance with the provisions of the PSG Act, SCB Act and the requirements of any other written law applicable to moneys of or managed by the Board; and
- (b) proper accounting and other records have been kept, including records of all assets of the Board whether purchased, donated or otherwise.

Opinion – Charities Act and Regulations

During the course of our audit, nothing has come to our attention that causes us to believe that during the year:

- (a) the Science Centre Board – Sponsorship Fund has not used the donation moneys in accordance with its objectives as required under Regulation 11 of the Charities (Institutions of a Public Character) Regulations; and
- (b) the Science Centre Board – Sponsorship Fund has not complied with the requirements of Regulation 15 of the Charities (Institutions of a Public Character) Regulations.

Basis for Opinion

We conducted our audit in accordance with SSAs. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Compliance Audit* section of our report. We are independent of the Group in accordance with the ACRA Code together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ACRA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on management's compliance.

INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF THE BOARD OF

SCIENCE CENTRE BOARD

Responsibilities of Management for Compliance with Legal and Regulatory Requirements

Management is responsible for ensuring that the receipts, expenditure, investment of moneys and the acquisition and disposal of assets, are in accordance with the provisions of the PSG Act, SCB Act, Charities Act and Regulations, and the requirements of any other written law applicable to moneys of or managed by the Board. This responsibility includes monitoring related compliance requirements relevant to the Board, and implementing internal controls as management determines are necessary to enable compliance with the requirements.

Auditor's Responsibilities for the Compliance Audit

Our responsibility is to express an opinion on management's compliance based on our audit of the financial statements. We planned and performed the compliance audit to obtain reasonable assurance about whether the receipts, expenditure, investment of moneys and the acquisition and disposal of assets, are in accordance with the provisions of the PSG Act, SCB Act and the requirements of any other written law applicable to moneys of or managed by the Board.

Our compliance audit includes obtaining an understanding of the internal control relevant to the receipts, expenditure, investment of moneys and the acquisition and disposal of assets; and assessing the risks of material misstatement of the financial statements from non-compliance, if any, but not for the purpose of expressing an opinion on the effectiveness of the Board's internal control. Because of the inherent limitations in any internal control system, non-compliances may nevertheless occur and not be detected.

Public Accountants and
Chartered Accountants
Singapore

25 June 2024

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

STATEMENTS OF COMPREHENSIVE INCOME
Year ended 31 March 2024

GROUP	Note	General Funds		Restricted Funds		Total	
		2024	2023	2024	2023	2024	2023
		\$	\$	\$	\$	\$	\$
Income							
- Admission fees		5,055,211	3,929,627	-	-	5,055,211	3,929,627
- Proceeds from special projects		-	152,908	-	-	-	152,908
- Fees from courses and programmes		1,485,243	1,226,266	-	-	1,485,243	1,226,266
- Collections from exhibits and events		582,338	229,484	-	-	582,338	229,484
- Sales of merchandise and publications		1,515,331	1,600,384	-	-	1,515,331	1,600,384
- Service income		717,847	666,085	-	-	717,847	666,085
- Rental income		290,479	252,671	-	-	290,479	252,671
- Photo-taking income		103,532	132,714	-	-	103,532	132,714
		<u>9,749,981</u>	<u>8,190,139</u>	<u>-</u>	<u>-</u>	<u>9,749,981</u>	<u>8,190,139</u>
Other income	4	2,437,453	1,720,819	2,028,954	2,076,331	4,466,407	3,797,150
Other (losses)/gain - net	5	(9,549)	-	286,377	(222,094)	276,828	(222,094)
Expenses							
- Employee compensation	6	(30,650,636)	(26,920,107)	(72,887)	(110,155)	(30,723,523)	(27,030,262)
- Materials for exhibits and events		(8,735,358)	(6,712,950)	(1,010,511)	(1,287,583)	(9,745,869)	(8,000,533)
- Repairs and maintenance		(8,258,818)	(9,038,683)	(15,937)	(2,079)	(8,274,755)	(9,040,762)
- Publicity and promotions		(3,324,860)	(2,152,462)	(13,913)	(195,227)	(3,338,773)	(2,347,689)
- Depreciation	14	(4,835,372)	(4,368,306)	(8,310)	(11,941)	(4,843,682)	(4,380,247)
- Other expenditure	7	(6,218,066)	(3,861,439)	(301,550)	(270,995)	(6,519,616)	(4,132,434)
		<u>(62,023,110)</u>	<u>(53,053,947)</u>	<u>(1,423,108)</u>	<u>(1,877,980)</u>	<u>(63,446,218)</u>	<u>(54,931,927)</u>
(Deficit)/Surplus before grants		(49,845,225)	(43,142,989)	892,223	(23,743)	(48,953,002)	(43,166,732)
Operating grants from government	15	48,975,212	48,580,509	-	-	48,975,212	48,580,509
Grants from other government agencies		1,320,925	417,039	-	-	1,320,925	417,039
Deferred capital grants amortised	19	3,022,736	2,339,497	3,488	8,420	3,026,224	2,347,917
		<u>53,318,873</u>	<u>51,337,045</u>	<u>3,488</u>	<u>8,420</u>	<u>53,322,361</u>	<u>51,345,465</u>
Surplus/(Deficit) before tax		3,473,648	8,194,056	895,711	(15,323)	4,369,359	8,178,733
Income tax expense	8	-	(39,185)	-	-	-	(39,185)
Net surplus/(deficit) and total comprehensive income/(loss)		3,473,648	8,154,871	895,711	(15,323)	4,369,359	8,139,548

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**STATEMENTS OF COMPREHENSIVE INCOME (cont'd)
Year ended 31 March 2024**

BOARD	Note	General Funds		Restricted Funds		Total	
		2024	2023	2024	2023	2024	2023
		\$	\$	\$	\$	\$	\$
Income							
- Admission fees		3,891,538	2,811,891	-	-	3,891,538	2,811,891
- Proceeds from special projects		-	152,908	-	-	-	152,908
- Fees from courses and programmes		1,096,542	1,021,638	-	-	1,096,542	1,021,638
- Collections from exhibits and events		583,786	229,484	-	-	583,786	229,484
- Sales of merchandise and publications		1,491,882	1,544,694	-	-	1,491,882	1,544,694
- Service income		225,667	11,659	-	-	225,667	11,659
		<u>7,289,415</u>	<u>5,772,274</u>	<u>-</u>	<u>-</u>	<u>7,289,415</u>	<u>5,772,274</u>
Other income	4	2,134,707	1,618,562	2,028,954	2,076,332	4,163,661	3,694,894
Other (losses)/gain - net	5	(9,549)	-	286,377	(222,094)	276,828	(222,094)
Expenses							
- Employee compensation	6	(29,704,400)	(26,037,158)	(72,887)	(110,155)	(29,777,287)	(26,147,313)
- Materials for exhibits and events		(8,590,705)	(6,763,012)	(1,010,511)	(1,287,583)	(9,601,216)	(8,050,595)
- Repairs and maintenance		(7,486,257)	(8,269,549)	(15,937)	(2,079)	(7,502,194)	(8,271,628)
- Publicity and promotions		(3,204,682)	(2,081,758)	(13,913)	(195,227)	(3,218,595)	(2,276,985)
- Depreciation	14	(4,682,613)	(4,174,076)	(8,310)	(11,942)	(4,690,923)	(4,186,018)
- Other expenditure	7	(5,783,264)	(3,388,107)	(301,550)	(270,995)	(6,084,814)	(3,659,102)
		<u>(59,451,921)</u>	<u>(50,713,660)</u>	<u>(1,423,108)</u>	<u>(1,877,981)</u>	<u>(60,875,029)</u>	<u>(52,591,641)</u>
(Deficit)/Surplus before grants		(50,037,348)	(43,322,824)	892,223	(23,743)	(49,145,125)	(43,346,567)
Operating grants from government	15	48,975,212	48,580,509	-	-	48,975,212	48,580,509
Grants from other government agencies		1,320,925	417,039	-	-	1,320,925	417,039
Deferred capital grants amortised	19	2,981,014	2,307,037	3,488	8,420	2,984,502	2,315,457
		<u>53,277,151</u>	<u>51,304,585</u>	<u>3,488</u>	<u>8,420</u>	<u>53,280,639</u>	<u>51,313,005</u>
Net surplus/(deficit) and total comprehensive income/(loss)		3,239,803	7,981,761	895,711	(15,323)	4,135,514	7,966,438

See accompanying notes to financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**STATEMENTS OF FINANCIAL POSITION
31 March 2024**

	Note	Group		Board	
		2024	2023	2024	2023
		\$	\$	\$	\$
ASSETS					
Current assets					
Cash and cash equivalents	9	48,992,137	39,710,102	46,762,685	37,812,367
Trade and other receivables	10	2,378,773	2,781,184	2,522,053	3,117,724
Financial asset at fair value through profit or loss	11	6,049,207	5,762,830	6,049,207	5,762,830
Inventories	12	220,897	139,012	14,711	21,022
Total current assets		<u>57,641,014</u>	<u>48,393,128</u>	<u>55,348,656</u>	<u>46,713,943</u>
Non-current assets					
Investments in subsidiaries	13	-	-	660,002	660,002
Property, plant and equipment	14	106,281,382	25,330,985	105,907,255	25,082,522
Total non-current assets		<u>106,281,382</u>	<u>25,330,985</u>	<u>106,567,257</u>	<u>25,742,524</u>
Total assets		163,922,396	73,724,113	161,915,913	72,456,467
LIABILITIES AND EQUITY					
Current liabilities					
Government grants received in advance	15	29,081,549	16,941,398	29,081,549	16,941,398
Other government grants received in advance	10	877,862	1,695,230	877,862	1,695,230
Sponsorship received in advance	16	1,418,577	1,316,791	1,418,577	1,316,791
Trade and other payables	17	7,134,317	5,544,448	6,200,248	5,109,691
Total current liabilities		<u>38,512,305</u>	<u>25,497,867</u>	<u>37,578,236</u>	<u>25,063,110</u>
Non-current liabilities					
Deferred income tax liabilities	18	53,820	6,418	-	-
Deferred capital grants	19	84,225,449	11,458,365	84,225,449	11,416,643
Total non-current liabilities		<u>84,279,269</u>	<u>11,464,783</u>	<u>84,225,449</u>	<u>11,416,643</u>
Capital, funds and accumulated surplus					
Capital account	20	2,979,983	2,979,983	2,979,983	2,979,983
Share capital	21	10,908,360	10,908,360	10,908,360	10,908,360
Accumulated surplus					
- General funds		18,375,537	14,901,889	17,525,959	14,286,156
- Restricted funds	22	8,866,942	7,971,231	8,697,926	7,802,215
Total equity		<u>41,130,822</u>	<u>36,761,463</u>	<u>40,112,228</u>	<u>35,976,714</u>
Total liabilities and equity		163,922,396	73,724,113	161,915,913	72,456,467

See accompanying notes to financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**STATEMENTS OF CHANGES IN EQUITY
Year ended 31 March 2024**

	Capital account \$	Share capital \$	Accumulated surplus		Total \$
			General funds \$	Restricted funds \$	
Group					
Balance as at 1 April 2022	2,979,983	10,488,403	6,747,018	7,986,554	28,201,958
Issuance of share capital, net (Note 21)	-	419,957	-	-	419,957
Total comprehensive income	-	-	8,154,871	(15,323)	8,139,548
Balance as at 31 March 2023	2,979,983	10,908,360	14,901,889	7,971,231	36,761,463
Total comprehensive income	-	-	3,473,648	895,711	4,369,359
Balance as at 31 March 2024	<u>2,979,983</u>	<u>10,908,360</u>	<u>18,375,537</u>	<u>8,866,942</u>	<u>41,130,822</u>
Board					
Balance as at 1 April 2022	2,979,983	10,488,403	6,304,395	7,817,538	27,590,319
Issuance of share capital	-	419,957	-	-	419,957
Total comprehensive income	-	-	7,981,761	(15,323)	7,966,438
Balance as at 31 March 2023	2,979,983	10,908,360	14,286,156	7,802,215	35,976,714
Total comprehensive income	-	-	3,239,803	895,711	4,135,514
Balance as at 31 March 2024	<u>2,979,983</u>	<u>10,908,360</u>	<u>17,525,959</u>	<u>8,697,926</u>	<u>40,112,228</u>

See accompanying notes to financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**CONSOLIDATED STATEMENT OF CASH FLOWS
Year ended 31 March 2024**

	Note	2024 \$	2023 \$
Operating activities			
Deficit before grants		(48,953,002)	(43,166,732)
Adjustments for:			
Depreciation	14	4,843,682	4,380,247
Loss on disposal of property, plant and equipment	7	4,388	89,284
Write-down of inventories		17,263	36,544
Donations and sponsorship	4	(1,921,721)	(2,033,408)
Changes in fair value of financial asset at fair value through profit or loss	5	(286,377)	222,094
Interest income	4	(987,610)	(153,218)
Operating loss before working capital changes		(47,283,377)	(40,625,189)
Change in working capital:			
Inventories		(99,148)	(71,364)
Trade and other receivables		(689,075)	69,273
Trade and other payables		1,589,869	(153,245)
Cash used in operations		(46,481,731)	(40,780,525)
Income tax refunded (paid)		47,402	(69,917)
Net cash used in operating activities		(46,434,329)	(40,850,442)
Investing activities			
Purchases of property, plant and equipment		(85,798,467)	(5,650,347)
Placement of short-term bank deposits		-	(1,000,000)
Interest received		987,610	153,218
Net cash used in investing activities		(84,810,857)	(6,497,129)
Financing activities			
Government grants received		136,908,671	53,196,165
Sponsorship received		2,234,398	1,828,794
Other government grants received		1,384,152	1,872,257
Issuance of share capital		-	419,957
Net cash from financing activities		140,527,221	57,317,173
Net increase in cash and cash equivalents		9,282,035	9,969,602
Cash and cash equivalents at beginning of financial year		36,710,102	26,740,500
Cash and cash equivalents at end of financial year	9	<u>45,992,137</u>	<u>36,710,102</u>

See accompanying notes to financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

1. GENERAL INFORMATION

Science Centre Board (the "Board") is a statutory board established in Singapore under the Science Centre Act 1970. The supervisory ministry is the Ministry of Education ("Government" or "MOE"). The registered office and principal place of business of the Board is 15 Science Centre Road, Singapore 609081.

The principal activities of the Board are to:

- (a) Promote interest, learning and creativity in science and technology through imaginative and enjoyable experience and contribute to the nation's development of its human resource;
- (b) Conduct supplementary science classes, lectures, demonstrations and workshops to complement the school science syllabi;
- (c) Produce and publish scientific literature and guides;
- (d) Organise activities and programmes for targeted and general audiences so as to bring science closer to the people; and
- (e) Screen planetarium programmes and OMNIMAX films to students and the general public, using state-of-the-art audio-visual projection systems.

The principal activities of the subsidiaries are set out in Note 13.

These financial statements of the Board for the year ended 31 March 2024 were authorised for issue by the Board on 25 June 2024.

1.1 Basis of preparation

The financial statements are prepared in accordance with the historical cost basis, except as disclosed in the material accounting policy information, and are drawn up in accordance with the provisions of the Public Sector (Governance) Act 2018 ("PSG Act"), the Science Centre Act 1970 ("SCB Act"), and Statutory Board Financial Reporting Standards ("SB-FRS"), including Interpretations of SB-FRS ("INT SB-FRS") and SB-FRS Guidance Notes. These financial statements are presented in Singapore dollars, which is the Group's functional currency.

1.2 Adoption of new and revised standards

In the current financial year, the Group has adopted all the new and revised SB-FRSs, INT SB-FRS and SB-FRS Guidance Notes that are mandatorily effective for an accounting period that begins on or after 1 April 2023. Their adoption has not had any material impact on the disclosures or on the amounts reported in these financial statements.

1.3 Standards issued but not yet effective

Management has considered and is of the view that the adoption of relevant new/revised SB-FRSs that are issued as at the date of authorisation of these financial statements but effective only in future periods will not have a significant impact on the financial statement of the Board and the Group in the period of initial adoption.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

2. MATERIAL ACCOUNTING POLICY INFORMATION

2.1 Fair value measurement

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, regardless of whether that price is directly observable or estimated using another valuation technique. In estimating the fair value of an asset or a liability, the Group takes into account the characteristics of the asset or liability which market participants would take into account when pricing the asset or liability at the measurement date.

Fair value for measurement and/or disclosure purposes in the consolidated financial statements is determined on such a basis, except for leasing transactions that are within the scope of SB-FRS 116 *Leases*, and measurements that have some similarities to fair value but are not fair value, such as net realisable value in SB-FRS 2 *Inventories* or value in use in SB-FRS 36 *Impairment of Assets*.

In addition, for financial reporting purposes, fair value measurements are categorised into Level 1, 2 or 3 based on the degree to which the inputs to the fair value measurements are observable and the significance of the inputs to the fair value measurement in its entirety, which are described as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date;
- Level 2 inputs are inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly or indirectly; and
- Level 3 inputs are unobservable inputs for the asset or liability.

2.2 Basis of consolidation

The consolidated financial statements of the Group incorporate the financial statements of the Board and entities controlled by the Board (its subsidiaries). Consolidation of a subsidiary begins when the Board obtains control over the subsidiary and ceases when the Board loses control of the subsidiary. When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies in line with the Board's accounting policies. All intragroup assets and liabilities, equity, income, expenses and cash flows relating to transactions between the members of the Group are eliminated on consolidation.

Investments in subsidiaries are carried at cost less any accumulated impairment losses in net recoverable value that has been recognised in profit or loss.

2.3 Financial instruments

Financial assets and financial liabilities are recognised on the statement of financial position when the Group becomes a party to the contractual provisions of the instrument.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

Financial assets

All regular way purchases or sales of financial assets are recognised and derecognised on a trade date basis.

Financial assets are initially measured at fair value (except for trade receivables that do not have a significant financing component which are measured at transaction price), net of transaction costs that are directly attributable to the acquisition or issue of financial assets.

Classification of financial assets

The Group classifies its financial assets based on the Group's business model for managing the financial assets and the contractual cash flow characteristics of the financial assets.

(i) Amortised cost

Financial assets (comprising cash and cash equivalents, trade and other receivables) are subsequently measured at amortised cost as they are held within a business model whose objective is to collect the contractual cash flows which are solely payments of principal and interest on the principal amount outstanding ("SPPI").

(ii) Fair value through profit or loss ("FVTPL")

Financial assets that do not meet the criteria for amortised cost are measured at fair value through profit or loss (Note 11). The investments are held for trading with any gains or losses arising from changes in fair value (including dividends received) recognised in 'other (losses)/gain – net' line item.

Impairment of financial assets

The Group considers a financial asset in default when internal or external information indicates that the Group is unlikely to receive the outstanding contractual amounts in full. A financial asset is written off when there is no reasonable expectation of recovering the contractual cash flows. Details about the Group's credit risk management and impairment policies are disclosed in Note 24(b)(iv).

Derecognition of financial assets

The Group derecognises a financial asset only when the contractual rights to the cash flows from the asset expire, or it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another entity.

Financial liabilities and equity instruments

Classification as debt or equity

Financial liabilities and equity instruments issued by the Group are classified according to the substance of the contractual arrangements entered into and the definitions of a financial liability and an equity instrument.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of the Group after deducting all of its liabilities. Equity instruments are recorded in the capital account at the proceeds received, net of significant direct issue costs.

Financial liabilities at amortised cost

Financial liabilities at amortised cost include trade and other payables. These are initially measured at fair value, net of transaction costs that are directly attributable to the acquisition or issue of the financial liabilities, and are subsequently measured at amortised cost using the effective interest method.

Derecognition of financial liabilities

The Group derecognises financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired. The difference between the carrying amount of the financial liability derecognised and the consideration paid and payable is recognised in profit or loss.

2.4 Leases

The Group as lessee

The Group assesses whether a contract is or contains a lease, at inception of the contract. The Group recognises a right-of-use asset and a corresponding lease liability with respect to all lease arrangements in which it is the lessee, except for short-term leases (defined as leases with a lease term of 12 months or less) and leases of low value assets. For these leases, the Group recognises the lease payments as an operating expense on a straight-line basis over the term of the lease.

The right-of-use assets comprise the initial measurement of the corresponding lease liability, lease payments made at or before the commencement day and any initial direct costs. They are subsequently measured at cost less accumulated depreciation and impairment losses.

Right-of-use assets which constitute leasehold land are depreciated over the lease term of 99 years if there is no reasonable certainty that the Group will obtain ownership by the end of the lease term.

The right-of-use assets are presented within Note 14.

The Group applies SB-FRS 36 to determine whether a right-of-use asset is impaired and accounts for any identified impairment loss as described in the Note 2.7.

The Group as lessor

Leases for which the Group is a lessor are classified as finance or operating leases. Whenever the terms of the lease transfer substantially all the risks and rewards of ownership to the lessee, the contract is classified as a finance lease. All other leases are classified as operating leases.

Rental income from operating leases is recognised on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognised on a straight-line basis over the lease term.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

2.5 Inventories

Inventories are stated at the lower of cost (weighted average method) and net realisable value. Cost comprises cost of purchase and other costs incurred in bringing the inventories to their present location and condition. Net realisable value represents the estimated selling price less all estimated costs to be incurred in marketing, selling and distribution.

2.6 Property, plant and equipment

Property, plant and equipment are carried at cost, less accumulated depreciation and any accumulated impairment losses.

Depreciation is charged so as to write off the cost of assets over their estimated useful lives, using the straight-line method, on the following bases:

Buildings	20 to 50 years
Leasehold improvements	5 years
Furniture and office equipment	3 to 5 years
Motor vehicles	10 years
OMNIMAX films	2 years

No depreciation is provided on assets under construction.

The following items are written off in the year of construction or purchase:

Exhibits
Films (other than OMNIMAX)
Cost of publications and souvenirs
Property, plant and equipment costing below \$5,000 each

The estimated useful lives, residual values and depreciation method are reviewed at each year end, with the effect of any changes in estimate accounted for on a prospective basis.

The gain or loss arising on disposal or retirement of an item of property, plant and equipment is determined as the difference between the sales proceeds and the carrying amounts of the asset and is recognised in profit or loss.

Fully depreciated assets still in use are retained in the financial statements.

2.7 Impairment of non-financial assets

At the end of each reporting period, the Group reviews the carrying amounts of the non-financial assets to determine whether there is any indication that these 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 it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs.

Recoverable amount is the higher of fair value less costs to sell and value in use. In assessing value in use, 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.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

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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 immediately in profit or loss.

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 so 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 immediately in profit or loss.

2.8 Provisions

Provisions are recognised when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that the Group will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation.

The amount recognised as a provision is the best estimate of the consideration required to settle the present obligation at the end of the reporting period, 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.

2.9 Income recognition

Income is measured based on the consideration specified in a contract with a customer and excludes amounts collected on behalf of third parties.

Income is recognised when the Group satisfies a performance obligation by transferring a promised good or service to the customer, which is when the customer obtains control of the good or service. A performance obligation may be satisfied at a point in time or over time. The amount of income recognised is the amount allocated to the satisfied performance obligation.

(a) Admission fees

Admission fees are recognised upon the sale of admission tickets to visitors and members. Where such tickets are sold via agents, revenue is recognised at the point of sale unless the difference from recognising revenue over the validity period of the tickets is expected to be material, in which case, an adjustment is made to recognise revenue over the validity period of the tickets.

(b) Proceeds from special projects

Proceeds from special projects are income from the organisation of temporary exhibitions. Income from such projects is recognised upon the sale of tickets to visitors.

(c) Fees from courses and programmes

Fees from courses and programmes are recognised over the duration of the courses and programmes.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

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- (d) Collections from exhibits and events
Collections from exhibits and events comprise mainly of collections from rental of travelling exhibitions and events and are recognised on a straight-line basis over the rental period.
- (e) Sales of merchandise and publications
Sales of merchandise and publications are recognised at the point of sales of the merchandise and publications.
- (f) Service income
Service income from provision of services for set up of travelling exhibitions and organisation of corporate events are recognised when services have been rendered.
Service income from consultancy services are recognised as a performance obligation satisfied over time. Revenue is recognised for these installation services based on the stage of completion of the contract. Management has assessed that the stage of completion based on achieving a series of performance-related milestones is an appropriate measure of progress towards complete satisfaction of these performance obligations under SB-FRS 115.
- (g) Rental income
Rental income from operating leases (net of any incentives given to the lessees) is recognised on a straight-line basis over the lease term.
- (h) Photo-taking income
Income from photo-taking is recognised upon the sale of photos to visitors and members.

Other income

- (i) Donations and sponsorships
Donations and sponsorships are received or receivable to meet approved expenditure for specific projects or purposes. Donations which are voluntary and generally non-reciprocal transfers shall be measured at the amount of increase in net assets recognised by the Group and recognised in profit or loss as income in the financial year upon receipt.
A sponsorship arises when the Group receives assets or services and is expected to provide consideration of approximately equal value to the sponsor. Sponsorships are recognised in profit or loss as income in the financial year upon receipt of the sponsorship or over the duration of the sponsorship period when (or as) the performance obligation is fulfilled. The amount that is not utilised for the specific projects or purposes is included in the sponsorship received in advance account.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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- (j) Interest income
Interest income is recognised over time, on a time proportion basis using the effective interest method.
- (k) Management fee
Management fee for the provision of services to government agencies is recognised over the period the services are rendered.
- 2.10 Government grants
Grants from the Ministry of Education are recognised as a receivable at their fair value when there is reasonable assurance that the grants will be received and the Group will comply with all the conditions associated with the grant.
Government grants receivable are recognised as income over the periods necessary to match them with the related expenses which they are intended to compensate, on a systematic basis. Government grants that are receivable as reimbursement for expenses already incurred are recognised in profit or loss in the period in which they become receivable.
- 2.11 Deferred capital grants
Government grants and contributions from other government organisations utilised for the purchase or construction of depreciable assets are recorded in the deferred capital grants account (shown as liability on the balance sheet).
Government grants whose primary condition is that the Group should purchase, construct or otherwise acquire non-current assets are recognised as deferred capital grants in the balance sheet and recognised in the statement of comprehensive income over the periods necessary to match the depreciation of the assets financed with the related grant.
On the disposal of property, plant and equipment, the balance of the related grants is recognised in profit or loss to match the net book value of property, plant and equipment disposed.
- 2.12 Employee compensation
- (a) Defined contribution plans
The Group pays fixed contributions into separate entities such as the Central Provident Fund on a mandatory basis. The Group has no further payment obligations once the contributions have been paid. The Group's contributions are recognised in profit or loss when they are due.
- (b) Employee leave entitlement
Employee entitlements to annual leave are recognised when they accrue to employees. A provision is made for the estimated liability for annual leave as a result of services rendered by employees up to the end of the reporting period.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

2.13 Sponsorship Fund

The Sponsorship Fund is set up to account for contributions received from private organisations and individuals for specified purposes. The Sponsorship Fund has been conferred the Institute of Public Character status under Section 37(2)(c) of the Charities Act since 1 April 2008. The income from the Sponsorship Fund will be used to further the objectives of the Sponsorship Fund. The principal sums of the Sponsorship Fund are presented separately in the balance sheet. The Sponsorship Fund is classified as a restricted fund in accordance with SB-FRS Guidance Note 1.

The objectives of the Fund are:

- (a) to promote interest, learning and creativity in science and technology;
- (b) to organise science related activities, exhibitions, workshops, lectures and programmes for targeted and general audiences; and
- (c) to produce and publish scientific literature in the form of magazines and guidebooks.

2.14 Endowment Fund

The Endowment Fund is set up to account for contributions received from private organisations, individuals and other government agencies for specified purposes. The Endowment Fund was conferred the Institute of Public Character status under Section 37(2)(c) of the Charities Act from 1 April 2008 to 31 March 2013. The income from the Endowment Fund will be used to further the objectives of the Science Centre Board and specific capacity training for staffs. The principal sums of the Endowment Fund are presented separately in the balance sheet. The Endowment Fund is classified as a restricted fund in accordance with SB-FRS Guidance Note 1.

2.15 Income taxes

Income tax expense represents the sum of current and deferred tax and is recognised in profit or loss.

Current tax payable is the amount expected to be paid to the taxation authority on the taxable profit for the year, using tax rates enacted or substantively enacted at the end of the reporting period, and any adjustment to tax payable in respect of previous years. The amount of current tax payable is the best estimate of the tax amount expected to be paid that reflects the uncertainty related to income taxes.

Deferred tax is the tax expected to be payable or recoverable on differences between the carrying amounts of assets and liabilities in the financial statements and the corresponding tax bases used in the computation of taxable profit. Deferred tax liabilities are generally recognised for all taxable temporary differences and deferred tax assets are recognised to the extent that it is probable that taxable profits will be available against which deductible temporary differences can be utilised. Such assets and liabilities are not recognised if the temporary difference arises from (i) initial recognition of goodwill; or (ii) initial recognition of assets and liabilities in a transaction that is not a business combination, and at the time of the transaction affects neither accounting nor taxable profit, and does not give rise to equal taxable and deductible temporary differences.

Deferred tax assets is reviewed as at each reporting date and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS 31 March 2024

Deferred tax is calculated at the tax rates that are expected to apply in the period when the liability is settled or the asset realised based on the tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

2.16 Foreign currency transactions

The financial statements of the Group are measured and presented in the currency of the primary economic environment in which the Group operates (its functional currency).

Transactions in currencies other than the Group's functional currency (foreign currencies) are recorded at the rate of exchange prevailing on the date of the transaction. As at each reporting date, monetary assets and liabilities that are denominated in foreign currencies are retranslated at the rates prevailing at the end of the reporting period. Non-monetary items that are measured in terms of historical cost in a foreign currency are not retranslated. Exchange differences are recognised in profit or loss in the period in which they arise.

2.17 Cash and cash equivalents

Cash and cash equivalents comprise cash at bank and on hand, deposits with financial institutions and cash held by Accountant-General's Department, that are readily convertible to a known amount of cash and which are subject to an insignificant risk of changes in value. Cash and cash equivalents are subsequently measured at amortised cost.

The Board is required to participate in the Centralised Liquidity Management Framework ("CLM") in accordance with the Accountant-General's Circular No. 4/2009 dated 2 November 2009. All selected bank accounts of the Board maintained with selected banks are linked up with the Accountant-General's Department's ("AGD") bank accounts for available excess cash to be automatically aggregated for central management on a daily basis. The deposits held with AGD are short-term highly liquid investments that are readily convertible to known amounts of cash and are classified in cash and cash equivalents as "Deposits held with AGD".

Cash at bank and on hand represents funds that are derived from non-government sources/entities, which are not required to be included in the CLM.

2.18 Share capital

Ordinary shares to the Minister for Finance are classified as equity.

2.19 Capital account

The capital account represents the grant given by the MOE to contribute towards the repayment of the outstanding accumulated interest on a Government loan taken.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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2.20 Dividends

Dividends are recognised when the dividends are approved for payment to the Ministry of Finance under the Capital Management Framework - Finance Circular Minute No. M26/2008.

3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

Management is of the opinion that there are no critical judgements and key sources of estimation uncertainty at the end of the reporting period that have a significant effect on the amounts recognised in the financial statements.

4. OTHER INCOME

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Donations and sponsorship	1,921,721	2,033,408	1,921,721	2,033,408
Rental income	860,335	815,352	1,014,891	877,092
Interest income	987,610	153,218	990,095	153,218
Management & consultancy fee	69,540	418,097	145,260	583,457
Others	627,201	377,075	91,694	47,719
	<u>4,466,407</u>	<u>3,797,150</u>	<u>4,163,661</u>	<u>3,694,894</u>

5. OTHER GAIN/(LOSSES) - NET

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Fair value gain/(loss) on financial asset at FVTPL	286,377	(222,094)	286,377	(222,094)
Net currency translation loss	(9,549)	-	(9,549)	-
	<u>276,828</u>	<u>(222,094)</u>	<u>276,828</u>	<u>(222,094)</u>

6. EMPLOYEE COMPENSATION

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Wages and salaries	26,208,965	23,174,607	25,397,680	22,407,386
Employer's contribution to Central Provident Fund	4,123,144	3,421,245	3,988,895	3,305,663
Other staff benefits	391,414	434,410	390,712	434,264
	<u>30,723,523</u>	<u>27,030,262</u>	<u>29,777,287</u>	<u>26,147,313</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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7. OTHER EXPENDITURE

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Professional, consultancy and other fees	3,380,554	778,913	3,285,866	672,953
Cost of merchandise and publications	38,909	651,591	38,838	663,929
Printing, stationery and office supplies	60,719	79,630	49,882	70,092
Rental of equipment and venue and lease fees of films	233,809	427,375	235,579	238,162
Postage, telephone and courier charges	59,458	58,327	50,162	52,096
Loss on disposal of property, plant and equipment	4,388	89,284	-	89,284
Transport and travelling expenses	339,051	289,400	302,825	272,772
Refreshment and entertainment expenses	156,694	91,702	156,096	91,470
Property tax	112,950	92,129	112,950	92,129
GST input tax (non-claimable)	1,740,190	1,239,453	1,740,190	1,239,453
Others	392,894	334,630	112,426	176,762
	<u>6,519,616</u>	<u>4,132,434</u>	<u>6,084,814</u>	<u>3,659,102</u>

8. INCOME TAX EXPENSE

	Group	
	2024	2023
	\$	\$
Current income tax expense	-	39,185

The income tax expense varied from the amount of income tax expense determined by applying the Singapore tax rate of 17% (2023 : 17%) to surplus before tax as a result of the following differences:

	Group	
	2024	2023
	\$	\$
Surplus before tax	4,369,359	8,178,733
Tax expense calculated at a tax rate of 17% (2023 : 17%)	742,791	1,390,385
Effects of:		
- Surplus of the Board exempted from tax	(703,037)	(1,354,295)
- Expenses not deductible for tax purposes	17,131	20,570
- Income not subject to tax	(7,093)	(5,518)
- Overprovision of current year tax in prior years	(49,792)	(5,518)
- Utilisation of previously unrecognised deductible temporary differences	-	(7,480)
- Others	-	(4,477)
Income tax expense	<u>-</u>	<u>39,185</u>

As a statutory board, the Board is exempted from income tax.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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9. CASH AND CASH EQUIVALENTS

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Deposits held with AGD	39,406,393	32,335,885	39,406,393	32,335,885
Cash at bank and on hand	6,585,744	4,374,217	4,356,292	2,476,482
Short term bank deposits	3,000,000	3,000,000	3,000,000	3,000,000
	<u>48,992,137</u>	<u>39,710,102</u>	<u>46,762,685</u>	<u>37,812,367</u>

For the purpose of presenting the consolidated cash flow statement, the consolidated cash and cash equivalents comprise the following:

	2024	2023
	\$	\$
Cash and cash equivalents (as above)	48,992,137	39,710,102
Less: Short term bank deposits with maturity of more than 3 months	<u>(3,000,000)</u>	<u>(3,000,000)</u>
Cash and cash equivalents per consolidated cash flow statement	<u>45,992,137</u>	<u>36,710,102</u>

Short term bank deposits at the balance sheet date bear average effective interest rate of 2.69% to 3.89% (2023 : 0.53% to 2.69%) and have a tenure of 3 to 12 months (2023 : 3 to 12 months).

Deposits with AGD refers to cash that is managed by AGD as set out in the Accountant-General's Circular No. 4/2009 Centralised Liquidity Management for Statutory Boards and Ministries. During the financial year ended 31 March 2024, the effective interest rate of the deposits with the AGD ranged from 3.58% to 4.19% (2023 : 0.49% to 2.85%) per annum.

10. TRADE AND OTHER RECEIVABLES

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Trade receivables:				
- subsidiaries	-	-	494,454	449,673
- external parties	1,217,601	319,022	1,064,548	278,920
Trade receivables - net	1,217,601	319,022	1,559,002	728,593
Sponsorship receivables	164,699	375,590	164,699	375,590
Other government grants receivable (see below)	22,936	903,531	22,936	903,531
Government grant receivable	569,844	377,206	569,844	377,206
Deposits	68,959	302,793	1,000	251,680
Prepayments	114,289	454,266	99,913	437,304
Other receivables	220,445	48,776	104,659	43,820
	<u>2,378,773</u>	<u>2,781,184</u>	<u>2,522,053</u>	<u>3,117,724</u>

Other government grants refer to grants received from Ministries, Organs of States and other Statutory Boards.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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Other government grants

	Group and Board	
	2024	2023
	\$	\$
Other government grants receivable	22,936	903,531
Other government grants received in advance	<u>(877,862)</u>	<u>(1,695,230)</u>
	<u>(854,926)</u>	<u>(791,699)</u>

11. FINANCIAL ASSET AT FAIR VALUE THROUGH PROFIT OR LOSS

	Group and Board	
	2024	2023
	\$	\$
Fullerton Conservative Balanced Fund ("Fullerton Fund")	<u>6,049,207</u>	<u>5,762,830</u>

The Fullerton Fund has a nominal value amounting to \$4,900,000 (2023 : \$4,900,000).

The fair value of the Fullerton Fund is provided by the Fund Manager and determined based on estimated valuations derived from market quotations and are within level 2 of the fair value hierarchy.

12. INVENTORIES

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Finished goods	<u>220,897</u>	<u>139,012</u>	<u>14,711</u>	<u>21,022</u>

Inventories comprised finished goods held at cost for resale purposes.

The cost of inventories recognised as an expense and included in "Other expenditure" amounted to \$38,909 and \$38,838 (2023 : \$651,591 and \$663,929) for the Group and Board respectively.

At 31 March 2024, the write-down of inventories to net realisable value by the Group and Board amounted to \$17,263 and \$77 (2023 : \$36,544 and \$120) respectively.

13. INVESTMENTS IN SUBSIDIARIES

	Board	
	2024	2023
	\$	\$
Unquoted equity investments at cost	1,760,002	1,760,002
Less: Accumulated impairment loss	<u>(1,100,000)</u>	<u>(1,100,000)</u>
Net carrying amount	<u>660,002</u>	<u>660,002</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

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Details of the subsidiaries are as follows:

Name of companies	Principal activities	Country of business/ incorporation	Proportion of ownership and voting power held	
			2024 %	2023 %
Singapore Science Centre Global Pte Ltd ("SSCG")	Investment holding, marketing and promotional activities for related entities and participation in joint ventures and collaboration projects, with educational and entertainment elements, on an academic and commercial basis.	Singapore	100	100
<i>Held by SSCG</i>				
Snow Venture Pte Ltd	Proprietor and operator of entertainment centre.	Singapore	100	100

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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14. PROPERTY, PLANT AND EQUIPMENT

Group

	Leasehold land*	Buildings	Leasehold improvements	Furniture and office equipment	Motor vehicles	OMNIMAX films	Assets under construction	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Cost:								
At 1 April 2022	3,754,976	42,652,610	27,713,281	13,264,978	16,523	444,932	5,889,822	93,737,122
Additions	-	5,800	1,178,863	235,295	-	-	4,230,389	5,650,347
Disposals	-	(175,430)	(41,600)	(1,493,938)	-	-	-	(1,710,968)
Reclassifications	-	-	-	140,737	-	-	(140,737)	-
At 31 March 2023	3,754,976	42,482,980	28,850,544	12,147,072	16,523	444,932	9,979,474	97,676,501
Additions	76,019,670	13,000	181,047	553,715	-	-	9,031,035	85,798,467
Disposals	-	(2,450)	(53,784)	(149,048)	-	-	-	(205,282)
At 31 March 2024	79,774,646	42,493,530	28,977,807	12,551,739	16,523	444,932	19,010,509	183,269,686
Accumulated depreciation:								
At 1 April 2022	1,466,022	31,829,926	24,305,202	11,524,348	16,523	444,932	-	69,586,953
Depreciation charge	381,492	1,799,672	1,526,418	672,665	-	-	-	4,380,247
Disposals	-	(103,354)	(41,600)	(1,476,730)	-	-	-	(1,621,684)
At 31 March 2023	1,847,514	33,526,244	25,790,020	10,720,283	16,523	444,932	-	72,345,516
Depreciation charge	1,014,989	1,799,506	1,393,650	635,537	-	-	-	4,843,682
Disposals	-	(2,450)	(53,784)	(144,660)	-	-	-	(200,894)
At 31 March 2024	2,862,503	35,323,300	27,129,886	11,211,160	16,523	444,932	-	76,988,304
Carrying amount:								
At 31 March 2024	76,912,143	7,170,230	1,847,921	1,340,579	-	-	19,010,509	106,281,382
At 31 March 2023	1,907,462	8,956,736	3,060,524	1,426,789	-	-	9,979,474	25,330,985

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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Board

	Leasehold land*	Buildings	Leasehold improvements	Furniture and office equipment	Motor vehicles	OMNIMAX films	Assets under construction	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Cost:								
At 1 April 2022	3,754,976	41,478,610	27,411,224	12,551,448	16,523	444,932	5,889,822	91,547,535
Additions	-	-	1,157,779	137,704	-	-	4,230,389	5,525,872
Disposals	-	(175,430)	(41,600)	(1,381,032)	-	-	-	(1,598,062)
Transfers	-	-	-	140,737	-	-	(140,737)	-
At 31 March 2023	3,754,976	41,303,180	28,527,403	11,448,857	16,523	444,932	9,979,474	95,475,345
Additions	76,019,670	-	-	464,951	-	-	9,031,035	85,515,656
Disposals	-	-	-	(36,346)	-	-	-	(36,346)
At 31 March 2024	79,774,646	41,303,180	28,527,403	11,877,462	16,523	444,932	19,010,509	180,954,655
Accumulated depreciation:								
At 1 April 2022	1,466,022	30,653,941	24,167,336	10,966,829	16,523	444,932	-	67,715,583
Depreciation charge	381,492	1,798,022	1,418,894	587,610	-	-	-	4,186,018
Disposals	-	(103,354)	(41,600)	(1,363,824)	-	-	-	(1,508,778)
At 31 March 2023	1,847,514	32,348,609	25,544,630	10,190,615	16,523	444,932	-	70,392,823
Depreciation charge	1,014,989	1,797,275	1,319,486	559,173	-	-	-	4,690,923
Disposals	-	-	-	(36,346)	-	-	-	(36,346)
At 31 March 2024	2,862,503	34,145,884	26,864,116	10,713,442	16,523	444,932	-	75,047,400
Carrying amount:								
At 31 March 2024	76,912,143	7,157,296	1,663,287	1,164,020	-	-	19,010,509	105,907,255
At 31 March 2023	1,907,462	8,954,571	2,982,773	1,258,242	-	-	9,979,474	25,082,522

* These are right-of-use assets with upfront payments.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

15. GOVERNMENT GRANTS RECEIVED IN ADVANCE

	Group and Board	
	2024	2023
	\$	\$
Beginning of financial year	16,941,398	13,428,934
Add: Grants received during the year	136,908,671	53,196,165
Less: Amount transferred to deferred capital grants (Note 19)	(75,793,308)	(1,103,192)
Less: Amount recognised in profit or loss	(48,975,212)	(48,580,509)
End of financial year	<u>29,081,549</u>	<u>16,941,398</u>

16. SPONSORSHIP RECEIVED IN ADVANCE

	Group and Board	
	2024	2023
	\$	\$
Beginning of financial year	1,316,791	1,732,439
Add: Sponsorship granted during the year	1,858,808	1,228,925
Less: Amount recognised in profit or loss	(1,757,022)	(1,644,573)
End of financial year	<u>1,418,577</u>	<u>1,316,791</u>

17. TRADE AND OTHER PAYABLES

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Trade payables to:				
- external parties	1,106,978	1,132,925	1,030,383	772,038
- related parties	-	-	-	284,468
- subsidiaries	-	-	-	7,329
	<u>1,106,978</u>	<u>1,132,925</u>	<u>1,030,383</u>	<u>1,063,835</u>
Other payables to:				
- non-related parties	679,932	201,959	661,501	169,017
- other government agency	248,701	128,273	238,320	108,518
- subsidiaries	-	-	19,081	47,117
Deposits received	173,137	172,034	181,168	178,550
Deferred income	643,401	440,317	124,617	162,531
Other accruals for operating expenses	4,282,168	3,468,940	3,945,178	3,380,123
	<u>7,134,317</u>	<u>5,544,448</u>	<u>6,200,248</u>	<u>5,109,691</u>

Other payables to subsidiaries are unsecured, interest-free and repayable on demand.

18. DEFERRED INCOME TAX LIABILITIES

	Group	
	2024	2023
	\$	\$
Beginning and end of financial year	<u>53,820</u>	<u>6,418</u>

The movement in deferred income tax liabilities pertains to tax payment/payable.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

19. DEFERRED CAPITAL GRANTS

Group

	Government		Others		Total	
	2024	2023	2024	2023	2024	2023
	\$	\$	\$	\$	\$	\$
Beginning of financial year	11,158,863	12,311,237	299,502	347,078	11,458,365	12,658,315
Add: Transferred from						
- government grants (Note 15)	75,793,308	1,057,820	-	45,372	75,793,308	1,103,192
- other government grants (Note 10)	-	-	-	44,775	-	44,775
Less: Amount recognised in profit or loss	(2,841,894)	(2,210,194)	(184,330)	(137,723)	(3,026,224)	(2,347,917)
End of financial year	<u>84,110,277</u>	<u>11,158,863</u>	<u>115,172</u>	<u>299,502</u>	<u>84,225,449</u>	<u>11,458,365</u>
Total deferred capital grants received (included in government grants received) since inception of the Board	<u>152,014,081</u>	<u>76,220,773</u>	<u>14,764,980</u>	<u>14,764,980</u>	<u>166,779,061</u>	<u>90,985,753</u>

Board

	Government		Others		Total	
	2024	2023	2024	2023	2024	2023
	\$	\$	\$	\$	\$	\$
Beginning of financial year	11,191,393	12,343,767	225,250	285,142	11,416,643	12,628,909
Add: Transferred from						
- government grants (Note 15)	75,793,308	1,057,820	-	45,372	75,793,308	1,103,192
Less: Amount recognised in profit or loss	(2,841,894)	(2,210,194)	(142,608)	(105,264)	(2,984,502)	(2,315,458)
End of financial year	<u>84,142,807</u>	<u>11,191,393</u>	<u>82,642</u>	<u>225,250</u>	<u>84,225,449</u>	<u>11,416,643</u>
Total deferred capital grants received (included in government grants received) since inception of the Board	<u>152,014,081</u>	<u>76,220,773</u>	<u>14,538,477</u>	<u>14,538,477</u>	<u>166,552,558</u>	<u>90,759,250</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

20. CAPITAL ACCOUNT

The Board's capital account represents:

- (a) the grant of \$1,640,347 given by the MOE in the financial year 1993/94 to contribute towards the repayment of the outstanding accumulated interest on a Government loan taken in 1984 for the purchase of a piece of leasehold land for the Omni-Theatre; and
- (b) the conversion of a Government loan and the related outstanding accumulated interest amounting to \$1,339,636. The loan was utilised by the Board in 1988 to finance the building of the Omni-Theatre. The conversion of the loan and outstanding accumulated interest to capital was approved by the Ministry of Finance in the financial year ended 31 March 2001.

21. SHARE CAPITAL

	Group and Board	
	2024	2023
	\$	\$
Beginning of financial year	10,908,360	10,488,403
Issue of new shares	-	477,629
Refund of shares	-	(57,672)
End of financial year	10,908,360	10,908,360

In 2023, 477,629 ordinary shares were issued for a total consideration of \$477,629 as part of the Capital Management Framework for Statutory Boards under Finance Circular Minute M26/2008. The shares are fully paid and are held by the Minister for Finance, a body corporate incorporated by the Minister for Finance (Incorporation) Act 1959.

In 2023, 57,672 ordinary shares for a total consideration of \$57,672 was made to cap equity of a development project under debt-equity financing at 40% of final costs.

The holders of these shares are entitled to receive dividends as and when declared by the Board. The shares carry neither voting rights nor par value.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

22. RESTRICTED FUNDS

Restricted funds comprise of the Sponsorship Fund and the Endowment Fund:

Statement of Comprehensive Income - Restricted Funds

Board	Note	Sponsorship	Endowment	Total
		\$	\$	\$
2024				
Income				
Donation and sponsorship		1,921,721	-	1,921,721
Interest income		29,072	78,161	107,233
Other gains - net		-	286,377	286,377
		<u>1,950,793</u>	<u>364,538</u>	<u>2,315,331</u>
Expenses				
Employee compensation	(a)	72,887	-	72,887
Materials for exhibits and projects		1,010,511	-	1,010,511
Repairs and maintenance		15,937	-	15,937
Publicity and promotions		13,913	-	13,913
Depreciation	(e)	8,310	-	8,310
Other expenses	(b)	298,510	3,040	301,550
		<u>1,420,068</u>	<u>3,040</u>	<u>1,423,108</u>
		530,725	361,498	892,223
Surplus before grants				
Deferred capital grants amortised	(g)	3,488	-	3,488
Surplus for the financial year, representing total comprehensive income for the financial year		<u>534,213</u>	<u>361,498</u>	<u>895,711</u>
Accumulated (deficit)/surplus brought forward		(116,704)	7,918,919	7,802,215
Accumulated surplus carried forward		<u>417,509</u>	<u>8,280,417</u>	<u>8,697,926</u>
2023				
Income				
Donation and sponsorship		2,033,408	-	2,033,408
Interest income		9,778	33,146	42,924
Other gains/(losses) - net		-	(222,094)	(222,094)
		<u>2,043,186</u>	<u>(188,948)</u>	<u>1,854,238</u>
Expenses				
Employee compensation	(a)	110,155	-	110,155
Materials for exhibits and projects		1,287,583	-	1,287,583
Repairs and maintenance		2,079	-	2,079
Publicity and promotions		195,227	-	195,227
Depreciation	(e)	11,942	-	11,942
Other expenses	(b)	267,935	3,060	270,995
		<u>1,874,921</u>	<u>3,060</u>	<u>1,877,981</u>
		168,265	(192,008)	(23,743)
Surplus (Deficit) before grants				
Deferred capital grants amortised	(g)	8,420	-	8,420
Surplus (Deficit) for the financial year, representing total comprehensive income (loss) for the financial year		<u>176,685</u>	<u>(192,008)</u>	<u>(15,323)</u>
Accumulated (deficit)/surplus brought forward		(293,389)	8,110,927	7,817,538
Accumulated (deficit)/surplus carried forward		<u>(116,704)</u>	<u>7,918,919</u>	<u>7,802,215</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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Sponsorship income relates to expenditure incurred which will be subsequently reimbursed by the sponsors of the events. The amount reimbursable is correspondingly recorded as sponsorship receivables under trade and other receivables (Note 10).

Statement of Financial Position - Restricted Funds

<u>Board</u>	<u>Note</u>	<u>Sponsorship</u>	<u>Endowment</u>	<u>Total</u>
		\$	\$	\$
2024				
<u>ASSETS</u>				
Current assets				
Cash and cash equivalents	(c)	1,951,784	2,225,081	4,176,865
Trade and other receivables	(d)	14,151	9,129	23,280
Sponsorship receivable (Note 10)		164,699	-	164,699
Financial asset at FVTPL (Note 11)		-	6,049,207	6,049,207
		<u>2,130,634</u>	<u>8,283,417</u>	<u>10,414,051</u>
Non-current asset				
Property, plant and equipment	(e)	14,295	-	14,295
Total assets		<u>2,144,929</u>	<u>8,283,417</u>	<u>10,428,346</u>
<u>LIABILITIES</u>				
Current liabilities				
Trade and other payables	(f)	307,406	3,000	310,406
Sponsorship received in advance (Note 16)		1,418,577	-	1,418,577
		<u>1,725,983</u>	<u>3,000</u>	<u>1,728,983</u>
Non-current liability				
Deferred capital grants	(g)	1,435	-	1,435
Total liabilities		<u>1,727,418</u>	<u>3,000</u>	<u>1,730,418</u>
NET ASSETS		<u>417,511</u>	<u>8,280,417</u>	<u>8,697,928</u>

Charities Act and Regulation

As required for disclosure under regulation 17 of the Charities (Institutions of a Public Character) Regulations, the Sponsorship Fund has received total tax-deductible donations of \$241,510 (2023 : \$258,775) in the current financial year.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

<u>Board</u>	<u>Note</u>	<u>Sponsorship</u>	<u>Endowment</u>	<u>Total</u>
		\$	\$	\$
2023				
<u>ASSETS</u>				
Current assets				
Cash and cash equivalents	(c)	335,826	2,148,642	2,484,468
Trade and other receivables	(d)	600,811	10,446	611,257
Sponsorship receivable (Note 10)		375,590	-	375,590
Financial asset at FVTPL (Note 11)		-	5,762,830	5,762,830
		<u>1,312,227</u>	<u>7,921,918</u>	<u>9,234,145</u>
Non-current asset				
Property, plant and equipment	(e)	16,606	-	16,606
Total assets		<u>1,328,833</u>	<u>7,921,918</u>	<u>9,250,751</u>
<u>LIABILITIES</u>				
Current liabilities				
Trade and other payables	(f)	123,822	3,000	126,822
Sponsorship received in advance (Note 16)		1,316,791	-	1,316,791
		<u>1,440,613</u>	<u>3,000</u>	<u>1,443,613</u>
Non-current liability				
Deferred capital grants	(g)	4,923	-	4,923
Total liabilities		<u>1,445,536</u>	<u>3,000</u>	<u>1,448,536</u>
NET (LIABILITIES)/ASSETS		<u>(116,703)</u>	<u>7,918,918</u>	<u>7,802,215</u>

Notes

(a) Employee compensation

	<u>Sponsorship</u>		<u>Endowment</u>	
	<u>2024</u>	<u>2023</u>	<u>2024</u>	<u>2023</u>
	\$	\$	\$	\$
Wages and salaries	68,629	103,403	-	-
Employer's contribution to Central Provident Fund	4,138	6,327	-	-
Other staff benefits	120	425	-	-
	<u>72,887</u>	<u>110,155</u>	<u>-</u>	<u>-</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
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(b) Other expenses

	Sponsorship		Endowment	
	2024	2023	2024	2023
	\$	\$	\$	\$
Professional, consultancy and other fees	59,001	73,778	3,000	3,000
Printing, stationery and office supplies	8,005	20,155	-	-
Rental of equipment, venue and facilities	120,000	120,000	-	-
Postage, telephone and courier charges	1,178	3,294	-	-
Transport and travelling expenses	12,537	9,284	-	-
Refreshment and entertainment	38,135	35,948	-	-
Others	59,654	5,476	40	60
	<u>298,510</u>	<u>267,935</u>	<u>3,040</u>	<u>3,060</u>

(c) Cash and cash equivalents

	Sponsorship		Endowment	
	2024	2023	2024	2023
	\$	\$	\$	\$
Cash at bank and in hand	1,951,784	335,826	225,081	148,642
Short-term bank deposits	-	-	2,000,000	2,000,000
	<u>1,951,784</u>	<u>335,826</u>	<u>2,225,081</u>	<u>2,148,642</u>

(d) Trade and other receivables

	Sponsorship		Endowment	
	2024	2023	2024	2023
	\$	\$	\$	\$
Trade receivables	14,151	11,397	-	-
Other receivables due from Science Centre Board	-	589,414	-	-
Other receivables	-	-	9,129	10,446
	<u>14,151</u>	<u>600,811</u>	<u>9,129</u>	<u>10,446</u>

Other receivables due from Science Centre Board are unsecured, interest-free and are repayable on demand.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

(e) Property, plant and equipment

Sponsorship

	Leasehold improvements	Furniture equipment	Total
	\$	\$	\$
Cost:			
At 1 April 2022	210,000	79,212	289,212
Disposals	-	(2,719)	(2,719)
At 31 March 2023	210,000	76,493	286,493
Additions	-	5,999	5,999
Disposals	-	(3,036)	(3,036)
At 31 March 2024	<u>210,000</u>	<u>79,456</u>	<u>289,456</u>
Accumulated depreciation:			
At 1 April 2022	210,000	50,664	260,664
Depreciation charge	-	11,942	11,942
Disposals	-	(2,719)	(2,719)
At 31 March 2023	210,000	59,887	269,887
Depreciation charge	-	8,310	8,310
Disposals	-	(3,036)	(3,036)
At 31 March 2024	<u>210,000</u>	<u>65,161</u>	<u>275,161</u>
Carrying amount:			
At 31 March 2024	<u>-</u>	<u>14,295</u>	<u>14,295</u>
At 31 March 2023	<u>-</u>	<u>16,606</u>	<u>16,606</u>

(f) Trade and other payables

	Sponsorship		Endowment	
	2024	2023	2024	2023
	\$	\$	\$	\$
Trade payables	13,220	4,613	-	-
Accrued operating expenses	5,000	97,033	3,000	3,000
Other payables due to Science Centre Board	224,044	-	-	-
Other payables to other government agency	62,375	22,176	-	-
Other payables	2,767	-	-	-
	<u>307,406</u>	<u>123,822</u>	<u>3,000</u>	<u>3,000</u>

Other payables due to Science Centre Board are unsecured, interest-free and repayable on demand.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

(g) Deferred capital grants

	Sponsorship	
	2024	2023
	\$	\$
Beginning of financial year	4,923	13,343
Less: Amount recognised in profit or loss	(3,488)	(8,420)
End of financial year	1,435	4,923

23. OPERATING LEASE ARRANGEMENTS

(a) Group as a lessor

Operating leases, in which the Group is the lessor, relate to retail space leased to third parties with lease terms of between 1 to 2 years and the lessees are required to pay either absolute fixed annual increase to the lease payments or contingent rents computed based on their sales achieved during the lease period.

The lessee does not have an option to purchase the property at the expiry of the lease period.

The unguaranteed residual values do not represent a significant risk for the Group, as the properties leased out are mainly located in prime locations.

Maturity analysis of operating lease payments:

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Year 1	311,040	278,139	247,800	218,139
Year 2 to 5	204,075	116,219	98,675	116,219
	515,115	394,358	346,475	334,358

24. FINANCIAL INSTRUMENTS, FINANCIAL RISKS AND CAPITAL RISK MANAGEMENT

(a) **Categories of financial instruments**

The following table sets out the financial instruments as at the end of the reporting period:

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Financial assets, at amortised cost	51,256,621	42,037,020	49,184,825	40,492,787
Financial assets, at FVTPL	6,049,207	5,762,830	6,049,207	5,762,830
	57,305,828	47,799,850	55,234,032	46,255,617
Financial liabilities, at amortised cost	(6,490,916)	(5,104,131)	(6,075,631)	(4,947,160)

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

(b) **Financial risk management policies and objectives**

The Group's activities expose it to a variety of financial risks: market risk (including foreign currency risk, price risk and interest rate risk), credit risk and liquidity risk.

The Board is responsible for setting the objectives and underlying principles of financial risk management for the Group. The Board then establishes detailed policies such as risk identification and measurement and exposure limits.

The information presented below is based on information received by the key management.

(i) *Foreign currency risk management*

The Group has no significant exposure to foreign currencies as its operations are substantially denominated in Singapore dollars, which is also its functional currency.

(ii) *Price risk management*

To manage its price risk arising from these investments, the Group manages its investment portfolio in accordance with investment guidelines and limits set by the Group for the portfolio. For its equity securities designated at fair value through profit or loss, the impact of a 5% increase in the fair value of the Fund at the reporting date on net surplus would have been an increase of \$302,460 (2023 : \$288,142). An equal change in the opposite direction would have decrease net surplus by \$302,460 (2023 : \$288,142).

(iii) *Interest rate risk management*

Interest rate risk is the risk that the future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

The Group's exposure to cash flow interest rate risk arises from interest-bearing assets consisting mainly of cash balances and fixed deposits maintained/managed by AGD. The cash balances and fixed deposits maintained/managed by AGD under centralised liquidity management are placed with reputable financial institutions and are expected to move in tandem with market interest rate movements. The Group is not exposed to interest rate risk arising from held-to-maturity financial assets as the bonds carry a fixed coupon rate.

As the Group does not have other significant interest-bearing assets at floating rates, the Group's income is substantially independent of changes in market interest rates. Accordingly, no sensitivity analysis is presented. Information relating to the Group's interest rate exposure are disclosed in the respective notes to the financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

(iv) *Credit risk management*

Credit risk refers to the risk that a counterparty will default on its contractual obligations resulting in financial loss to the Group. In managing credit risk exposure, credit review and approval processes as well as monitoring mechanisms are applied.

The Group's major classes of financial assets are cash and cash equivalents with AGD, debtors and equity securities placed with reputable financial institutions. Bonds held for investment are of at least investment grade as per globally understood definition.

The maximum exposure to credit risk for each class of financial assets is the carrying amount of that class of financial instruments as presented on the statement of financial position.

There is no significant concentration of credit risk due to the Group's large number of customers. Trade and other receivables that are neither past due nor impaired are substantially institutions and companies with a good collection track record with the Group. For financial assets, the Group adopts the policy of dealing only with high credit quality counterparties.

The Group believes that no impairment allowance is necessary in respect of these receivables as the ECL is not material.

The following is an aging analysis of trade and other receivables:

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Current	540,767	197,736	797,564	395,544
Past due 0 to 2 months	199,516	79,778	227,776	87,287
Past due over 2 months	477,318	41,508	533,662	245,762
	<u>1,217,601</u>	<u>319,022</u>	<u>1,559,002</u>	<u>728,593</u>

Management has assessed and determined that there has been no significant change in credit quality from the date credit was initially granted and hence the receivables are still considered recoverable.

(v) *Liquidity risk management*

Liquidity risk is the risk that the Board will not be able to meet its financial obligations as and when they fall due. The Board's approach to maintain liquidity is to ensure sufficient funding from the government and other government agencies and maintains a level of cash and cash equivalents deemed adequate by management to finance its operations.

All financial liabilities in 2024 and 2023 are repayable on demand or due within 1 year from the end of the reporting period.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

**NOTES TO THE FINANCIAL STATEMENTS
31 March 2024**

(vi) *Fair value of financial assets and financial liabilities*

Management considers that the carrying amounts of financial assets and financial liabilities recorded at amortised cost in the financial statements approximate their fair values due to the relatively short-term maturity of these financial instruments.

There was no transfer between Level 1 and Level 2 of the fair value hierarchy during the current and previous financial years.

(c) **Capital risk management policies and objectives**

The Board's objectives when managing capital are to ensure that the Board is adequately capitalised and to fulfill objectives for which monies of the Board may be applied under the Act. To achieve these objectives, the Board may secure grants from Government or other government agencies, return as capital to shareholders, issue new shares, or obtain new borrowings.

The Board defines capital as share capital, capital account, funds and accumulated surplus. The Board monitors its net surplus/deficits. The Board's approach to capital management remains unchanged from the previous financial year.

25. SIGNIFICANT RELATED PARTY TRANSACTIONS

For the purposes of these financial statements, related parties refer to Ministries, Organ of States, other Statutory Boards and key management personnel. The transactions with government-related entities other than Ministries, Organ of States, and other Statutory Boards, are not disclosed unless there are circumstances to indicate that these transactions are of interest to the readers of the financial statements.

In addition to the information disclosed elsewhere in the financial statements, the following transactions took place between the Group and related parties at terms agreed between the parties:

(a) Income from government related entities

	Group	
	2024	2023
	\$	\$
Admission fees/ Proceeds from special projects/ Fees from courses and programmes/ Sales of merchandise and publications from government schools	<u>453,546</u>	<u>468,436</u>

(b) Key management personnel compensation

Key management personnel compensation is as follows:

	Group		Board	
	2024	2023	2024	2023
	\$	\$	\$	\$
Wages and salaries	2,036,061	1,362,637	1,313,875	1,198,647
Employer's contribution to Central Provident Fund	<u>122,336</u>	<u>69,004</u>	<u>46,074</u>	<u>57,424</u>
	<u>2,158,397</u>	<u>1,431,641</u>	<u>1,359,949</u>	<u>1,256,071</u>

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

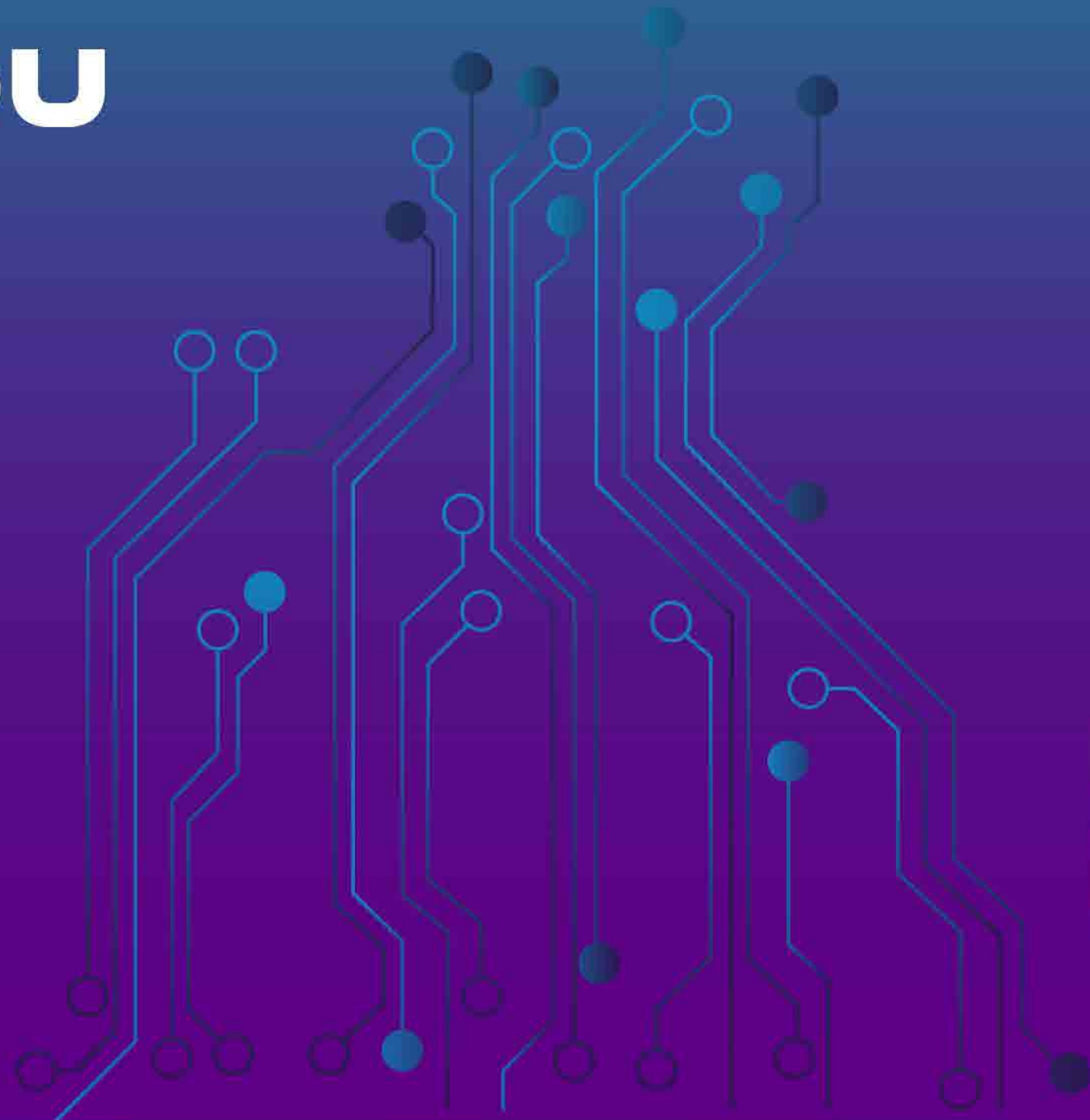
NOTES TO THE FINANCIAL STATEMENTS
31 March 2024

26. COMMITMENTS

Capital expenditures contracted for at the end of the reporting period but not recognised in the financial statements are analysed as follows:

	<u>2024</u>	<u>2023</u>
	\$'000	\$'000
Commitment for the acquisition of property, plant and equipment	<u>576,299</u>	<u>-</u>

Thank You



Science Centre Singapore Group of Attractions

