

# SCIENCE CENTRE BOARD'S ANNUAL REPORT

2021 - 2022





# CONTENT PAGE

## 01 MESSAGE FROM THE TOP

---

CHAIRMAN'S REVIEW  
CHIEF EXECUTIVE'S REVIEW

## 02 OUR TEAM

---

BOARD MEMBERS  
MANAGEMENT TEAM

## 03 ACHIEVEMENTS & AWARDS

---

VISITORSHIP  
LIST OF AWARDS

## 04 EXHIBITIONS & PROGRAMMES

---

GALLERY EXHIBITIONS, SPECIAL PROJECTS  
& TRAVELLING EXHIBITIONS  
SCIENCE OUTREACH PROGRAMMES &  
COMPETITIONS, EVENTS & ENGAGEMENT  
GALLERY EXPERIENCE  
INFORMAL SCIENCE PROGRAMMES  
AND STEM INC  
C RADLΣ  
SINGAPORE SCIENCE CENTRE  
GLOBAL PTE LTD

## 05 GROUP OF ATTRACTIONS

---

KIDSSTOP™  
SNOW CITY  
OMNI-THEATRE & BUTTERFLIES  
UP-CLOSE

## 06 COMMUNITY & PARTNERS

---

VOLUNTEER PROGRAMMES  
LIST OF SPONSORS  
SPONSORSHIP FUND, CONFLICT OF INTEREST  
POLICY & GOVERNANCE  
BOARD SUB-COMMITTEES & PROJECT COMMITTEES  
BOARD MEETINGS & ATTENDANCE

## 07 FINANCIAL STATEMENTS



# 01 01 MESSAGE FROM 01 THE TOP

CHAIRMAN'S REVIEW  
CHIEF EXECUTIVE'S REVIEW





# CHAIRMAN'S REVIEW

Following from 2020, 2021 was another year of big transitions.

It marked the second year of the pandemic which was edging towards an endemic. Vulnerabilities exposed by Covid-19 were turned into opportunities as traditional workforce models became transformed by the growth of digitalisation. The indifference to the climate change crisis waned with more recognising the gravity of the predicament and adopting sustainable practices while mental health issues became destigmatized and prioritised.

In the backdrop of this post-pandemic reboot, the Science Centre Board played a critical role in spotlighting the emerging themes of recovery, resilience, and reform through the STEM lens.

We spent the year aligning our programmes to the national and global tune of progress, and I would like to think that our efforts had truly unified our community.



## Accelerating Critical STEM Literacy

Championing holistic STEM education has long been a key ambition of the Board and over the years, we had gained success in raising awareness and sparking conversations about its importance through programmes and partnerships. The pandemic in 2021 presented us with the perfect opportunity to highlight the critical significance of STEM literacy which helps one assess content, determine the facts, eliminate bias, and take necessary action based on a fundamental understanding of science.

Our offerings during this period were curated around blended STEM disciplines to encourage youth to be critical and creative as well as informed and innovative. Initiatives like the Think Big, Youth Science Ambassador Programme called on youth in Singapore to ideate

**MS  
TAN YEN YEN**  
Chairman  
Science Centre Board



solutions for community issues like elderly living alone, while Da Vinci: The Exhibition, revealed how Leonardo Da Vinci was able to create inventions way beyond his time because of his keen interest in science and art. Future initiatives at the Centre will continue to advocate STEM literacy as well as groom a generation of well-rounded learners and sharp decision makers.



### STEM for Everyone: Strengthening our Agenda on Diversity, Equity, and Inclusion

The impact of the pandemic varied across different segments of society, and has prompted conversations around Diversity, Equity and Inclusion. It remains a challenge to reduce inequality across domains – from school to the workplace.

Exposing and encouraging children to pursue STEM from a young age levels the playing field and diminishes age-old social biases while annual events like DiscovHER help promote gender parity in STEM fields. The Centre's ambition to foster inclusion through curated experiences to raise awareness and provide support for differently-abled guests kicked off just ahead of World Autism Awareness Day on 2 April, with sensory guides and tools so guests with autism spectrum disorders could immerse themselves in STEM learning in a safe space. Moving forward, we will implement steady infrastructural and programmatic changes to offer a holistic environment suitable for learners with special needs.

This, I believe, will give more people a seat at the table, and recognise that the diversity of problem solvers often matters more than their individual ability.



### Prioritising our Planet

2021 marked a turning point where climate change was viewed as an immediate threat with its compounding effects more palpable than ever in the form of extreme forest fires, floods and famine. In the face of Mother Earth's climate crisis, science and innovation were pegged to drive bolder breakthroughs in areas like developing renewable fuels at scale and commercialising low-carbon technologies.

Our Centre consciously pushed the theme of sustainability to both educate and inspire the public. For example, our blockbuster event for the year, UNTAME: Rebooting Our World, invited learners to imagine how

they could rebuild our planet with STEM. We partnered with Energy Market Authority (EMA) and SP Group to launch Energy Story – an exhibition curated to raise awareness and adoption of efficient energy practices which was also Science Centre Singapore (SCS)'s first-ever net-zero showcase through the purchase of Renewable Energy Certificates. We also continued to empower young people with programmes like STEP STEM Alive!, where youth across ASEAN were mobilised to prototype solutions for real-world issues to achieve the United Nations Sustainable Development Goals.

These were just a few ways we had prioritised the planet, motivating Singaporeans to do the same. It is our hope that the road to recovery galvanizes more people to collaborate with us in actively caring for Earth and one another.



### Appreciating our pillars of support

The Centre's ability to adapt with finesse through a time of significant change is testament to the resourcefulness and resolute spirit of every member of our team. We had gained plenty because of their sacrifices and never-say-die attitude, and I thank them all for rising above the challenges of the season yet again.

I have no doubt that in 2022 with our partners, sponsors, colleagues, and community, we will continue to scale new heights, tear down walls and contribute collectively towards a more optimistic future.

# CHIEF EXECUTIVE'S REVIEW

2021 was a year that sparked many questions on what the future would look like: What tangible steps could we take to build back better? How could we be more resilient? How could we educate our children to embrace sustainable living?

While we did not have all the answers, we were not afraid to embark on a journey of discovery together with our audiences. We allowed our imagination to ignite new pathways for the Centre, and this annual report recognises some of the impressive efforts and achievements of our dedicated staff, volunteers and partners.



## Redesigning the Science Centre Experience

When the pandemic first hit in 2020, we had experienced the challenges with the SCS brand being put to the test. The Centre's fate hinged on our ability to pivot and thanks to the collective talent and tenacity of the team, we succeeded.

With almost a year's practice in finding our new footing, we intentionally set out to redesign the Science Centre experience as we welcomed more guests back with two main goals - to ensure physical safety and to inspire.

On physical safety, the team on-ground worked valiantly to ensure the safety and comfort of guests by aligning to the intermittent tightening and relaxing of safety measures from one month to the next. As Covid-19 cases increased and more people stayed home, we created a plethora of online programmes and activities to educate and entertain learners with Science at Home. When it was time to welcome larger groups back to the Centre, we introduced a slew of stimulating onsite programmes like the Dinosaurs of Antarctica film in 8K at the Omni-Theatre, offering a larger-than-life experience.

## ASSOCIATE PROFESSOR LIM TIT MENG

Chief Executive  
Science Centre Board



Da Vinci, The Exhibition showcased life-size visual masterpieces, bringing to fore the blending of science, nature and art behind revolutionary inventions, while international collaborations such as YOUTH Got This! webinar led by the Asia Pacific Network of Science Centres and Museums (ASPAC) rallied youth in their respective local communities to share and learn together.

Our guests have always been at the core of all we do and keeping their needs top-of-mind in a time of change enabled us to reconnect with them in new and refreshing ways.





### Rebooting our World with STEM

Our steadfast ambition to champion STEM was realised via the annual flagship event UNTAME. In its second instalment, it mirrored the progress society had made in the face of the pandemic, taking it as an opportunity to reflect, reimagine, and reboot our world – the theme for UNTAME 2021.

To us, rebooting our world meant taking action to build a sustainable future, underpinning the importance of STEM talents in pushing the agenda forward via critical and creative problem-solving approaches. Hence UNTAME was entirely geared towards teaching audiences to exercise sustainability through the STEM lens. UNTAME Online showed players the impact their positive actions could have by restoring a desecrated virtual world into a vibrant and beautiful one.

STEAM Festival explored sustainable alternatives and actions through the STEM and Arts. Younger learners were also exposed to a series of sensorial and sustainability-based activities, like racing a boat using renewable energy. UNTAME After Dark was an immersive night experience never done before. Featuring food booths, neon lights and live performances, youths also put their sustainability skills and knowledge to the test through classic arcade games and indulged in shopping therapy with booths featuring eco-friendly products. UNTAME would have not been made possible without our like-minded partners.

Each year, STEM becomes more relevant as we search for solutions towards a long-term future. This year's UNTAME married STEM and sustainability so we could contemplate on how we can play a part to build a liveable and green world.



### Raising a Future-Ready Generation

Student and Nobel laureate Malala Yousafzai once said “one child, one teacher, one book, one pen can change the world”. At the Centre, we too are on a mission to change the world through transforming the minds of children, adults, and educators alike with a changemaker mindset. Via a slew of competitions, both signature and new, we have provided them platforms to develop their critical skills, exchange ideas, innovate, and ultimately, make a difference.

The 24th edition of the Sony Creative Science Awards (SCSA) merged creativity and design with STEM and resulted in over 4,332 original and innovative toy submissions. Through the art of making toys, SCSA offered an opportunity for young learners to find inspiration and design solutions. We also equipped them with tools for the digital economy via the annual National Robotics Competition and the inaugural Coding Olympics. Coding is one of the key building blocks to develop strategic thinking and through these initiatives, we aim to equip them with the tools they need to innovate in their future career fields.



### An exciting year ahead

I am proud of how the team has come together to adapt and embrace change. Our success is testament of their efforts and as we gear up for more transitions, we will continue taking care of each other, take well-deserved breaks, and return more spirited than ever. While each year has been meaningful and we have celebrated many milestones, next year holds a special significance as SCS will turn 45. Sustaining the Centre for nearly half a century is no easy feat, and I look forward to celebrating not just our achievements but also the people who have been part of this journey – our staff, volunteers, partners and the wider community.

Together, we can make 2022 a year worth remembering for the right reasons. We hope to stay safe, stay curious and stay determined to inspire every guest who walks through SCS's door.



# 02 02 OUR 02 TEAM

BOARD MEMBERS  
MANAGEMENT TEAM





# BOARD MEMBERS

MS  
**TAN YEN YEN**  
Chairman



MR  
**SOH GIM TEIK**  
Deputy Chairman



MS  
**CHERIE NURSALIM**



MR  
**CHEW KWEE SAN**

MR  
**CHANG CHEE PEY**



MR  
**HIAN GOH**

MR  
**CHANDRAN NAIR**







MS  
**YASMIN ZAHID**

MS  
**HWANG YU-NING**

MDM  
**LEE LIN YEE**

MR  
**TONY ZAMECZKOWSKI**

PROFESSOR  
**NG HUCK HUI**

PROFESSOR  
**PHOON KOK KWANG**

MRS  
**NINA YANG**

MS  
**LEONIE LEE**

MR  
**HOWIE LAU**





# MANAGEMENT TEAM

SCIENCE CENTRE BOARD'S  
**ANNUAL REPORT**  
2021 - 2022



ASSOCIATE PROFESSOR  
**LIM TIT MENG**  
Chief Executive



DR  
**ANNE DHANARAJ**  
Senior Director, Education



MR  
**ADDISON GOH**  
Senior Director, Corporate Resources



MR  
**DANIEL TAN**  
Senior Director, Exhibitions



MS  
**CHAM LEE FIN**  
Director, Finance and Admin & Procurement



DR  
**LEE SONG CHOON**  
Director, KidsSTOP™ and Events & Engagement



MR  
**GERALD TEE**  
Director, Marketing and Communications



MRS  
**ONG ME LAN**  
Director, STEM Inc



MS  
**VALERIE LEE**  
Director, Human Resources & Organisation Development



MRS  
**VERONICA HENG**  
Director, Operations





MS  
**JOANNA SIM**

Deputy Director,  
Digital Experience &  
Data Analytics/IT

MR  
**LEE LIAN SOON**

Deputy Director, SPTE and  
Events & Engagement

MR  
**TIMOTHY THAM**

Deputy Director,  
Business Development/  
General Manager- SSCG  
(Apr 2021 - Feb 2022)

MR  
**EUGENE WAMBECK**

Deputy Director, Exhibitions and  
Advancement & Partnership

DR  
**KIRUTHIKA RAMANATHAN**

Deputy Director, Schools & Professional  
Development & Digital Experience  
& Data Analytics

MR  
**ANDREW TAN**

Deputy Director,  
Business Development/  
General Manager - SSCG  
(From Mar 2022)

MR  
**MOHD JAAFAR DOLLAH**

Assistant Director, Facilities  
and Estate Management

MR  
**HARITH FADHIRLAH**

Assistant Director,  
Gallery Exhibitions

MS  
**KAMARIA A GHANI**

Advisor, Advancement &  
Partnership

DR  
**FLORENCE FRANCIS**

Assistant Director,  
Strategy and Innovation



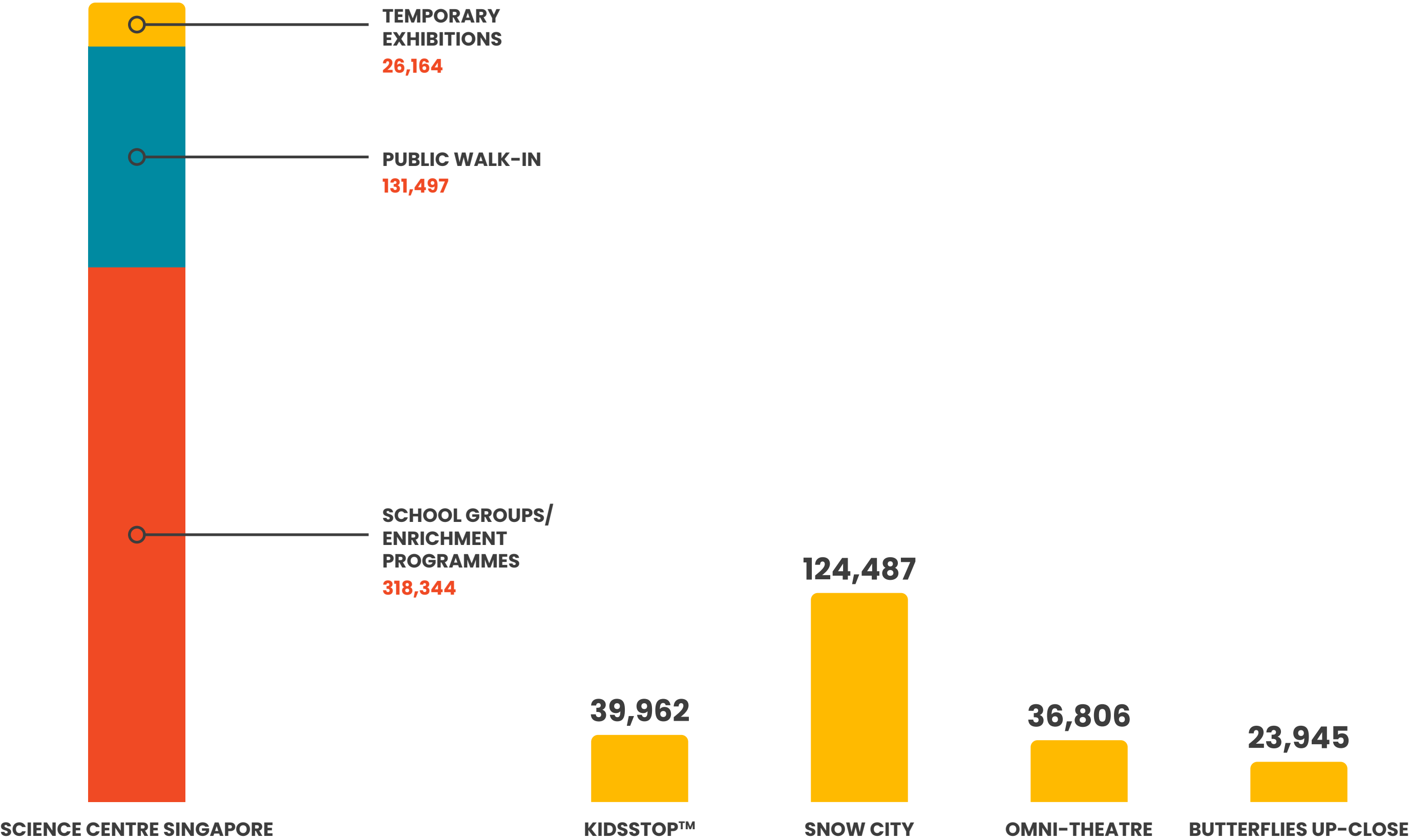
# 03 03 ACHIEVEMENTS & 03 AWARDS

VISITORSHIP  
LIST OF AWARDS





# VISITORSHIP





# LIST OF AWARDS

## MOE Innergy (Silver) Award

for UNTAME: Beyond Boundaries

## MOE Innergy (Gold) Award

for SPARKLE Kits in collaboration with CPDD, MOE

## MOE Innergy (Commendation) Award

for Redefining the Kilogram in collaboration with CPDD, MOE

## Gold Award for Best Kid Friendly Museum in Singapore

by The HoneyCombers.com (Science Centre Singapore)

## Bronze Award for Best Event-led PR Campaign (UNTAME)

by Marketing Interactive

## Won the 7<sup>th</sup> place at the Data Arcade Tournament (DAT2021)

under Qlik Track

## STAFF AWARDS

### The Public Administration Medal (Bronze), National Day Awards 2021

- Dr Lee Song Choon, Director, KidsSTOP™ and Events & Engagement

### The Commendation Medal, National Day Awards 2021

- Mr Choo Yew Chieh, Jason, Senior Manager, Business Development  
- Mdm Tan Hwee Ming, Everlyne, Senior Manager, Gallery Experience  
- Ms Lee Su Hui, Curriculum Specialist, STEM Inc (Secondee from MOE)

### The Efficiency Medal, National Day Awards 2021

- Mr Sim Tian Sung, Albert, Senior Manager, Facilities & Estate Management

### Global AI Impact Shapers Award

- Dr Kiruthika Ramanathan, Deputy Director, Schools & Professional Development & Digital Experience & Data Analytics





# 04 04 EXHIBITIONS & 04 PROGRAMMES

GALLERY EXHIBITIONS, SPECIAL PROJECTS & TRAVELLING EXHIBITIONS  
SCIENCE OUTREACH PROGRAMMES & COMPETITIONS, EVENTS & ENGAGEMENT  
GALLERY EXPERIENCE  
INFORMAL SCIENCE PROGRAMMES AND STEM INC  
CRADLZ  
SINGAPORE SCIENCE CENTRE GLOBAL PTE LTD





Temporary Exhibition

# DA VINCI THE EXHIBITION



18 Jun 2021 –  
2 Jan 2022



>25,000 visitors



The Annexe,  
Science Centre  
Singapore

*Da Vinci The Exhibition* showcased the largest collection of Da Vinci's inventions in Southeast Asia, with 50 life-size replicas and 15 reproductions of his fine-art studies. The exhibition offered a tribute to the Renaissance master and his relentless pursuit of knowledge across STEM and Art fields including anatomy, engineering, physics, hydraulics and music. Audiences had an opportunity to engage in hands-on activities and snap photos with reconstructed replicas of his renowned paintings such as "Mona Lisa", "The Last Supper" and the Golden Ratio in his iconic works of art including the "Vitruvian Man". Over a weekend in December, guests were treated to songs from the Renaissance period by a choir group led by prominent choral conductor, Mr Toh Ban Sheng.

Despite the pandemic, the exhibition received over 25,000 guests and we also managed to offer a virtual tour to overseas audiences.



**LARGEST COLLECTION OF  
DA VINCI'S INVENTIONS IN  
SOUTHEAST ASIA**



**50  
LIFE-SIZE  
REPLICAS**



**15 REPRODUCTIONS  
OF HIS FINE-ART  
STUDIES**



View of *Da Vinci* exhibition hall



*Da Vinci* exhibition showcase



Guests viewing the replica of "The Last Supper" that was nearly the same size as the original one at the monastery of Santa Maria delle Grazie in Milan, Italy.



**Hydraulics & Flight:** Discover the artist's intricate designs and extraordinary early concepts of the parachute and scuba suit.



Permanent Exhibition

## WHAT IS LEFT OF REALITY



3 Dec 2021 onwards



E3, Hall C,  
Science Centre Singapore

An immersive film installation, *“What is left of reality”* explored a new psychological, existential form of suffering caused by environmental changes known as “eco-anxiety” or “solastalgia”. The film has been directed by French artists Pierre Zandrowicz and Ferdinan Dervieux, known for creating a mesmerising world using Kinect motion sensors and projection mapping.

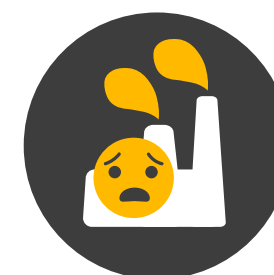
The exhibition invited the audience to discover the lived experiences of men and women against the unravelling effects of climate change.

The exhibition was featured in vOilah! France Singapore Festival 2021 and was viewed by His Excellency Mr Marc Abensour, Ambassador of France to Singapore, on 3 Dec 2021.

Screen captures of *What is Left Of Reality*



AN IMMERSIVE EXPERIENCE



EXPLORES PSYCHOLOGICAL  
FORM OF SUFFERING CAUSED BY  
ENVIRONMENTAL CHANGES



USES MOTION  
SENSORS AND  
PROJECTION MAPPING





Having fun with solar-powered gliders.



Ms Low Yen Ling (second from left), Minister of State, Ministry of Trade and Industry and Ministry of Culture, Community and Youth, with students of Dunman High School and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, at the launch of *Energy Story*.

Permanent Exhibition

# ENERGY STORY



11 Aug 2021 onwards



Hall B,  
Science Centre Singapore

*Energy Story* explores the sources, transformation, and uses of energy, from natural cycles to modern applications. The exhibition follows mankind's progress off the back of energy discovery towards a cleaner, more sustainable future. Guests can toggle with global, regional, and local energy data, interact with models of different technologies, and demonstrate relevant physics concepts. Specific exhibits highlight the local energy sector, raising awareness of Singapore's four energy switches and how the country is working towards a greener energy mix.

Finally, the gallery addresses our responsibility as energy consumers, presenting a vision of a clean and energy-efficient future. The exhibition is supported by Energy Market Authority and SP Group.



IMPORTANCE OF A  
CLEANER, SUSTAINABLE  
FUTURE



EXPLORES THE SOURCES,  
TRANSFORMATION, AND  
USES OF ENERGY



PRESENTS A VISION OF  
AN ENERGY-EFFICIENT  
FUTURE



Temporary Exhibition

# LEM'S BESTIARY ILLUSTRATED BY MRÓZ

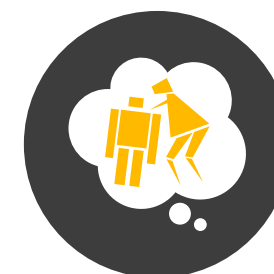


9 Feb 2022 -  
31 Mar 2022



Hall A,  
Science Centre Singapore

A temporary exhibition held in partnership with the Embassy of the Republic of Poland in Singapore, "Lem's Bestiary Illustrated by Mróz" showcased the imaginative world of renowned science-fiction writer Stanisław Lem. The exhibition was brought to life with illustrations from Daniel Mróz, an eminent Polish artist who created graphics and covers for many of Lem's books. The exhibition offered a glimpse into the creative and intriguing world of Lem's imagination. 2021 was also celebrated as the "Year of Lem", marking Lem's 100th birth anniversary.



SHOWCASES THE  
IMAGINATIVE WORLD OF  
STANISŁAW LEM



BROUGHT TO LIFE WITH  
ILLUSTRATIONS FROM  
DANIEL MRÓZ



Lem's Bestiary Illustrated by Mróz - Opening ceremony by Her Excellency Magdalena Bogdziewicz, Ambassador of the Republic of Poland to the Republic of Singapore and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board.



Permanent Exhibition

## SMART NATION PLAYSCAPE



18 Dec 2021 onwards



Hall F,  
Science Centre Singapore

This new permanent exhibition jointly developed by the *Smart Nation and Digital Government Group (SNDGG)* and Science Centre Singapore, features a wide variety of digital technologies powering Singapore's Smart Nation journey.

These technologies play a critical role in reshaping the way we live, work, and play and the exhibition seeks to demystify technology and inspire Singaporeans to be curious about future technologies through a series of fun and immersive interactives.

Through gamification, complex technological concepts are broken down and brought to life. People of all ages can experience and see the benefits that digitalisation has to offer.



COMPLEX TECHNOLOGICAL  
CONCEPTS ARE BROKEN DOWN  
THROUGH GAMIFICATION



INSPIRES SINGAPOREANS  
TO BE CURIOUS ABOUT  
FUTURE TECHNOLOGIES



TRANSFORMING  
SINGAPORE THROUGH  
DIGITAL TECHNOLOGIES



Geospatial technology helps us better understand where things are in relation to one another, and how it can help us plan and build thriving communities.



Gamification of digital technologies



View of the PlayScape exhibition hall



# SINGAPORE SCIENCE AND ENGINEERING FAIR



**Preliminary Judging Period**

**Feb 2021**

**Final Judging Round**

**31 Mar 2021**

**Fringe Activities and Talks**

**3 Mar – 6 Apr 2021**



**Final Judging Round**

**Conducted Virtually via AirMeet Platform**

(a web video conferencing platform)

Singapore Science and Engineering Fair (SSEF) 2021 marked the 21<sup>st</sup> anniversary of the Fair which was held virtually for the first time due to the ongoing COVID-19 pandemic. Despite the challenging circumstances, 465 projects were registered under the Main Category, of which 320 were shortlisted for final judging in April 2021.

Overall, 27 Gold, 29 Silver, 34 Bronze and 36 Merit awards were given.

Seven organisations (Institution of Chemical Engineers Singapore, Singapore University of Technology and Design, Singapore Society for Microbiology and Biotechnology, Yale-NUS College, The Electrochemical Society, Singapore Association for the Advancement of Science, and Singapore Mathematical Society) sponsored Special Awards for 42 projects. In the Junior Scientist Category (for students under 15 years of age), there were 32 projects submitted with two subcategories for awards: Project Awards and Video Awards. The breakdown of awards are tabulated below:

Project Awards	Video Awards
4 Distinction Awards 2 Merit Awards	1 Distinction Award 6 Merit Awards

Category	Number of Registered Projects	Number of Schools Registered
Main Category	465	29
Junior Scientist Category	32	14
Total	497	43



Singapore Science and Engineering Fair/International Science and Engineering Fair Virtual Judging session. Selected winners go on to compete at the Intel International Science and Engineering Fair (ISEF), the world's largest pre-college science competition.



**21ST ANNIVERSARY  
OF THE FAIR**



**HELD VIRTUALLY AMID  
ONGOING PANDEMIC**



# SINGAPORE AMAZING FLYING MACHINE COMPETITION



8 Mar – 7 Apr 2021



Online & Annexe Building

The annual *Singapore Amazing Flying Machine Competition* (SAFMC) was jointly organised by DSO National Laboratories and Science Centre Singapore and supported by Ministry of Defence (MINDEF). Open to all schools and students keen to explore the science behind flight and create their very own flying machines, this competition promised a fun-filled learning journey with special talks, workshops, and live demonstrations.

Category	No. of Teams	Winners
<b>A</b> <b>Paper Planes</b> (Pri)	99	Charlie Team Boon Lay Garden Primary School
<b>B</b> <b>Unpowered Gliders</b> (Sec/Integrated Prog)	188	SST Group 3 School of Science And Technology
<b>C1</b> <b>Radio Control Flight – Fixed Wing</b> (Sec/Integrated Prog, JC/ITE)	42	AeroKnights Compassvale Secondary School
<b>C2</b> <b>FPV Flight – Novice</b> (All Schools)	86	Ventus Westwood Secondary School
<b>C3</b> <b>FPV Flight – Adv</b> (All schools)	17	Werdna FPV Nanyang Technological University
<b>D1</b> <b>Semi Autonomous</b> (Polytechnics/Universities)	14	Team notStonks Independent
<b>D2</b> <b>Autonomous</b> (Polytechnics/Universities)	10	MRS Team 1 Singapore University of Technology and Design



**Category D2 Fully Autonomous:**  
Participants' drone at the launchpad.



**Category A Paper Planes:**  
Participant in action to launch the paper plane.



**Category C2 FPV Flight – Novice**

After a one-year hiatus in 2020 due to Covid-19, 2021's SAFMC was the first onsite event for schools that Science Centre Singapore had organised since the pandemic; hence it was also a testbed to see how the Centre could safely open for larger scale onsite events. The event went off without any incident and attracted over 1,400 participants over the two weeks.



**EXPLORE THE SCIENCE  
BEHIND FLIGHT**



**CREATE THEIR VERY OWN  
FLYING MACHINES**



# SONY CREATIVE SCIENCE AWARD



**Final Judging Round**  
**23 Sep 2021**  
**Awards Ceremony**  
**11 Nov 2021**

 Sony Group of Companies in Singapore, with the support of the Ministry of Education

Singapore's largest national toy-making competition *Sony Creative Science Award* (SCSA) for primary school students was jointly organised by Science Centre Singapore (SCS) and the Sony Group of Companies in Singapore, with the support of the Ministry of Education since 1998.

The Awards Presentation Ceremony initially scheduled onsite in November was tweaked due to the COVID-19 situation. It was held remotely for schools, but conducted onsite at Marquee, SCS which was graced by the Guest-of-Honour, Dr Mohamad Maliki Bin Osman, Minister in the Prime Minister's Office, Second Minister for Education and Second Minister for Foreign Affairs, the SCSA 2021 Organising Committee and the SCS and Sony's management representatives. The Awards Presentation Ceremony was live streamed on the SCSA Facebook page and all student and teacher award recipients joined via zoom.

No. of Toys	Total no. of Schools	No. of Students
4,332	81	5,460



*Sony Creative Science Award Ceremony Group Photo. Dr Mohamad Maliki Bin Osman, Minister in the Prime Minister's Office, Second Minister for Education and Second Minister for Foreign Affairs, Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, Mr Naoki Sekiguchi, Managing Director, Sony Electronics Asia Pacific and Sony Electronics (Singapore), Dr Wee Keng Hoong, Chairman, SCSA 2021 Organising Committee and the rest of the SCSA 2021 Committee Members.*



**SINGAPORE'S  
LARGEST  
NATIONAL TOY-MAKING  
COMPETITION FOR  
PRIMARY SCHOOL  
STUDENTS**

# SINGAPORE SCIENCE BUSKERS



**Audition Rounds**  
**15 – 17 Sep 2021**  
**Final Rounds**  
**1 – 2 Nov 2021**



**Conducted Virtually via  
Zoom Meetings**

Previously known as the Science Buskers Festival (SBF), *Singapore Science Buskers* serves as an excellent science communication platform where contestants use “show-and-tell” to engage audiences on various science topics. Judging was based on audiences’ votes and judges’ scores.

Category	Teams Registered	Total Number of Participants	Teams shortlisted for Final Rounds
Primary	166	349	21
Secondary	167	449	21
Tertiary/Open	15	38	6
Total	348	836	48



*Singapore Science Buskers Final Round Judges. Mr Kiki Tay, Science Centre Board, Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board and Dr Robert Grignani, Consultant Paediatric Cardiologist, National University Singapore.*



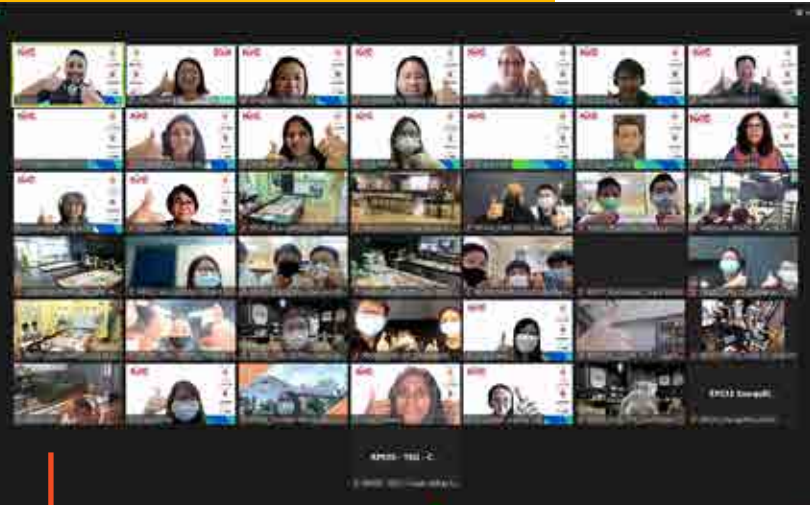
**PROMOTES CREATIVE  
SCIENCE COMMUNICATION**



# NATIONAL ROBOTICS COMPETITION

 **8 – 25 Nov 2021**  **Online event**

Despite the challenges due to COVID-19 restrictions, the Centre continued to spur interest and innovation among students in STEM by hosting the *23rd National Robotics Competition* online. With the support of Ministry of Education, over 70 mentors/coaches and over 40 judges, the Centre reached out to 1,824 participants from 434 teams (90 schools, 25 institutions). Through the different categories namely, the World Robotics Organisation (WRO) Regular, WRO Open, WRO WeDo, WRO Future Engineers and CoderZ Coding Challenge, students had an opportunity to develop and apply skills like problem solving, creative thinking and team spirit during the various stages of the Competition.



**National Robotics Competition:**  
World Robotics Organisation  
Regular Competition – Finals  
(Primary Category)



Screenshot of students attempting the robot mission.



**DEVELOP AND APPLY  
PROBLEM SOLVING &  
CREATIVE THINKING  
SKILLS**



**DEVELOP  
TEAM SPIRIT**

## Amazon Cyber Robotics Challenge (ACRC)



### Onboarding Introductory Programme

**1,819**

### CoderZ Coding Challenge

**1,183**

### Total participants

**3,002**

Organised by Science Centre Singapore and supported by Amazon, the programme was carried out in two parts; **(1) Onboarding Introductory Programme and (2) CoderZ Coding Challenge.**

### (1) Onboarding introductory programme

The programme targets primary and secondary students offering an introduction to basics of coding and its real-world application. It also includes Train the Trainer programme for educators to raise their coding competency level and confidence in imparting knowledge to their students. 300 student feedback forms were collected and majority of the respondents giving high rating for the knowledge gained on coding following the workshop.

### (2) CoderZ Coding Challenge

CoderZ Coding Challenge is one of the competition categories offered under the National Robotics Challenge. This was mainly targeted at students who were keen to put their acquired computing knowledge to the test. After the competition, participants were invited to join the international CoderZ League.



**TEACH STUDENTS THE BASICS OF  
CODING AND ITS REAL-WORLD  
APPLICATION**



**RAISE EDUCATORS'  
CODING COMPETENCY LEVEL  
AND CONFIDENCE**



# INTERNATIONAL SCIENCE DRAMA COMPETITION

Promoting science through drama, the theme for this year's *International Science Drama Competition* (ISDC) was "Sustainable Agriculture for a Better Future", commemorating 2021 as the International Year of Creative Economy for Sustainable Development and the International Year of Fruits and Vegetables.

Due to the pandemic, both the local and international competitions were held online. A new category "Short Films Category" was introduced and the finalists' videos were also posted on the ISDC Facebook page for supporters to vote for their favourite team. Teams from Singapore, China, Thailand and Nigeria competed in the Grand Finals.

Competition	Date	Number of Teams		
		Junior Category	Open Category	Short Films Category
Singapore Finals	May – Jun 2021	16	8	8
Grand Finals	28 Aug 2021	7	5	5



PROMOTING SCIENCE  
THROUGH DRAMA



THEME FOR 2021: SUSTAINABLE  
AGRICULTURE FOR A BETTER FUTURE



**Lauren Fleur:**  
First place winner for both Singapore Finals and Grand Finals Short Films Category and winner for Best Video Editing and Cinematography Award.



**Team Wonderkids from Thailand:**  
First place winner for the Grand Finals Junior Category



# TAN KAH KEE YOUNG INVENTORS AWARD



20 Aug – 9 Oct 2021



936 participants  
submitted 414 entries



Guest-of-honour, Dr Mohamad Maliki Bin Osman, Minister in the Prime Minister's Office,  
Second Minister for Education and Second Minister for Foreign Affairs

*Tan Kah Kee Young Inventors' Award* is jointly organised by the Tan Kah Kee Foundation, the Agency for Science, Technology and Research (A\*STAR), the Defence Science and Technology Agency (DSTA) and the DSO National Laboratories, with the support of Science Centre Singapore. Aimed at stimulating creativity amongst the young and promoting scientific and technological research in Singapore, the Tan Kah Kee Young Inventors Award (TKKYIA) event was carried out via a series of webinars, a hybrid award ceremony, and a virtual exhibition between 20 Aug to 9 Oct 2021 in view of the ongoing pandemic.

The Hybrid Award Ceremony was held on 18 Sep 2021. Guest-of-honour – Dr Mohamad Maliki Bin Osman, Minister in the Prime Minister's Office, Second Minister for Education and Second Minister for Foreign Affairs, the organising committee as well as some of the winners were invited to attend the Event onsite at Science Centre Singapore (SCS). 936 participants submitted 414 entries for TKKYIA 2020 & 2021. Merit and Silver awardees were invited to attend the ceremony in-person at the Centre while the remaining awardees joined online with other interested parties via online platforms such as Zoom, VFairs and Facebook. The virtual exhibition was launched on VFairs during the ceremony and was held over a period of 20 days from 18 Sep to 9 Oct, featuring booths set up by 31 teams. Winning entries were displayed virtually and open to public for viewing after registration.

Reach-out	Primary, Secondary, Junior College, Tertiary Students and Public
Target	4,500 Broad-Based Reach Out
Actual	12,044 for Broad-Based Reach Out



STIMULATE  
CREATIVITY  
AMONGST  
THE YOUNG



PROMOTE  
SCIENTIFIC AND  
TECHNOLOGICAL  
RESEARCH



Tan Kah Kee Young Inventors Hybrid Award Ceremony



Tan Kah Kee Young Inventors  
Award Ceremony:  
Sharing by the Awardees



Tan Kah Kee Young Inventors  
Award Ceremony:  
Guest of Honour: Dr Mohamad Maliki  
Bin Osman, Minister in the Prime  
Minister's Office, Second Minister for  
Education and Second Minister for  
Foreign Affairs



# ENGINEERING INNOVATION CHALLENGE

 **14 Jul 2021 –  
20 Nov 2021**

 **Category 1-3  
39 teams with 187 participants**  
**Category 4  
26 institutions**

 Jointly organised by the Science Centre Singapore and the Institution of Engineers, Singapore (IES) with the support of the Ministry of Education, the National Research Foundation (NRF) and the Singapore Nuclear Research and Safety Initiative (SNRSI)

The Engineering Innovation Challenge (EIC) 2021 was jointly organised by Science Centre Singapore and the Institution of Engineers, Singapore (IES) with support of the Ministry of Education, the National Research Foundation (NRF) and the Singapore Nuclear Research and Safety Initiative (SNRSI).

Although final judging took place virtually on Zoom, the judges were at Fusionopolis and were led by EIC Chief Judge Professor Lui Pao Chuen.

The prize presentation ceremony was graced by Guest-of-Honour, Mr Chan Chun Sing, Minister for Education. This was held in conjunction with the National Engineers Day on 20 Nov 2021.

Category 1-3	Category 4
39 teams with 187 participants	26 institutions



**HELD IN CONJUNCTION  
WITH NATIONAL  
ENGINEERS DAY**



**National Engineer Day:**  
Mr Chan Chun Sing, Minister for Education, Mr Richard Kwok, President, Institute of Engineers Singapore with the winners of Engineering Innovation Challenge Category 1.



**National Engineer Day:**  
Mr Chan Chun Sing, Minister for Education, Mr Richard Kwok, President, Institute of Engineers Singapore with the winners of Engineering Innovation Challenge Category 3.



Science Outreach Programmes & Competitions, Events & Engagement

# UNTAME: REBOOTING OUR WORLD



Sep – Dec 2021



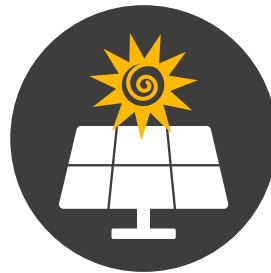
Online & Onsite at  
Science Centre Singapore

The second edition of *UNTAME* was a four-part extravaganza held between September to December, featuring *UNTAME STEAM Festival*, *UNTAME Online*, *UNTAME Day* and *UNTAME After Dark*. Evolving from its digital-first approach in 2020 amidst the pandemic, *UNTAME* 2021 preserved the offering of an online interactive platform, DIY kits & onsite workshops for participants. With the gradual relaxation of local Safe Management Measures (SMM), *UNTAME*'s onsite programming was expanded to introduce new elements. The festival theme for 2021 – *Rebooting Our World* – mirrored the great reset brought about by the pandemic and mankind's role in rebuilding a sustainable future. Through festival activities, participants experienced the influence of STEM-related disciplines in reshaping the world and playing a part in championing sustainable living.

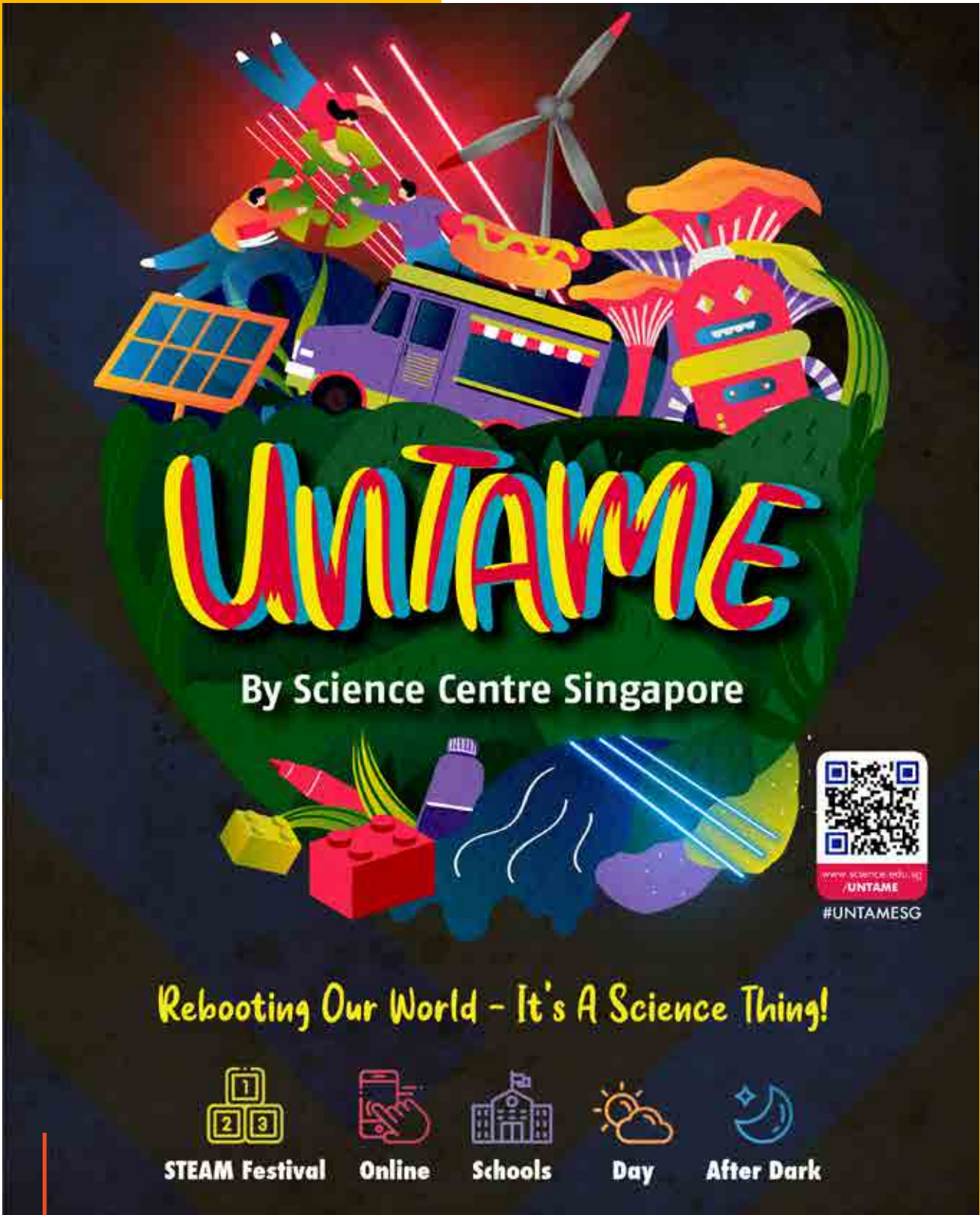
Earned Coverage	Estimated PR Value	Reach
211 pieces (incl. 21 pieces of tier 1 coverage)	\$4.5m	Over 2 mil people were reached through digital & social media campaigns



HOW STEM HELPS  
RESHAPE OUR WORLD



CHAMPIONING  
SUSTAINABLE LIVING



The key art for *UNTAME: Rebooting our World* featured the main theme of sustainability, as well as the multi-faceted offerings and avenues of the festival.



Science Outreach Programmes & Competitions, Events & Engagement

# UNTAME STEAM FESTIVAL



**Onsite experience**  
**1,200 Participants**



**On Social Media**  
**139,044 Total impressions**



**Pre-Festival Activities**  
**900 Direct engagement**

Part of Science Centre Singapore's three-month hybrid festival, themed *Rebooting Our World*, the event was open to the public online from 6 Sep 2021, and onsite between 2 – 10 Oct 2021.

*UNTAME STEAM Festival* showcased creative approaches to STEAM-based teaching and learning with a host of educational and sensorial experiences for children aged 4 – 8 years old.

This year's theme of *Ready, Restart and Play* was curated to expose young learners to new perspectives on sustainable living equipping them with the necessary STEAM tools, so they grow to be eco-warriors, capable of bringing positive changes to the world.



**1 ONSITE  
EXPERIENCE**



**2 EVENT TAKE-HOME  
KITS FOR PARTICIPANTS**



**4 PRE-FESTIVAL  
ACTIVITIES**



**9 PARTNERS/  
SPONSORS**



**Boat Race:**  
A festival-goer tries his hands at "Boat Race" while learning about wind energy.



**Young Nautilus**  
A festival-goer comes face-to-face with a taxidermied sea creature at a booth showcased by Young Nautilus.



**Saving billy:**  
A group of festival-goers having a visual treat while learning how to save "Billy", an injured hornbill threatened by habitat destruction.



# UNTAME ONLINE



29 Oct – 5 Dec 2021



17,599 players  
13,123 accounts created

The *UNTAME Online* experience, titled #UNTAMereboot, was hosted on the domain [www.untame.edu.sg](http://www.untame.edu.sg) from 29 Oct – 5 Dec 2021. The virtual gamified platform was launched for early bird access on 13 Oct 2021 and remained live until 31 Dec 2021.

Themed in line with UNTAME 2021's overall messaging of sustainability, the storyline set players in the year 2100 with the earth ravaged by mankind's unsustainable practices. Players had to traverse six virtual habitats, representing nature, food, lifestyle, fashion and energy and a final destination in order to complete missions and restore the environment. The 29 missions comprised video quizzes, offline missions and minigames. Of these, the eight video missions and 11 offline missions were developed in collaboration with partner organisations. The platform reached 17,599 players who completed the onboarding tutorial and 13,123 accounts were created.



A screenshot from one of the video missions featuring the Sembcorp Tengah Floating Solar Farm, produced in collaboration with PUB, Singapore's Water Agency and Sembcorp Industries.



Most of the missions were free-of-charge or kept at a low price. At \$5 per session, the offline mission with Bernina at Funan involved a guided sewing experience in which players got to stitch and bring home a STEMling cutout.



VIRTUAL GAMIFIED  
PLATFORM LAUNCHED



THEMED IN LINE WITH  
UNTAME 2021'S  
OVERALL MESSAGING  
OF SUSTAINABILITY

# UNTAME OUTREACH



2,183 students from 60 schools  
117 teachers from 11 schools

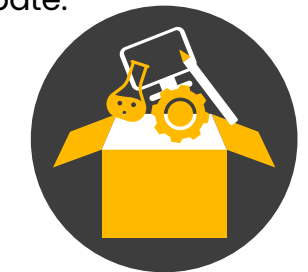
An outreach experience was made available to public and schools in the form of STEM Kits and accompanying enrichment programmes.

The experience was also brought overseas through the SEAMEO STEM-ED Programme with the support of the Ministry of Education for SEAMEO member countries, allowing students and educators to participate in the various outreach offerings. In all, 16 students from four schools in Singapore, Indonesia, and Vietnam, as well as 44 teachers from 21 schools in Singapore, Malaysia, Indonesia, Vietnam and Thailand came onboard the programme.

Through a Pay-It-Forward scheme, beneficiaries from community organisations received complimentary kits and a pair of Science Centre admission tickets. The scheme offered 420 people from low-income families a chance to participate.



Two types of STEM kits were developed: the basic SURVIVE kit and the premium THRIVE kit. The SURVIVE kit contained three hands-on activities and the THRIVE kit contained five.



STEM KITS AND ACCOMPANYING  
ENRICHMENT PROGRAMMES MADE AVAILABLE



BROUGHT OVERSEAS  
THROUGH THE SEAMEO  
STEM-ED PROGRAMME



Science Outreach Programmes & Competitions, Events & Engagement

# UNTAME DAY



20 – 28 Nov 2021



Over 5,000 participants took part in the activities



Sold  
231 passes



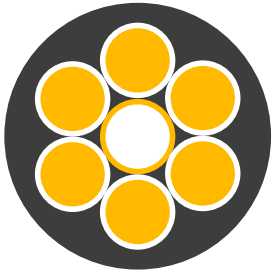
Science Centre Singapore

The *UNTAME* Day Carnival was held on 20 – 28 Nov 2021 at the Science Centre. During this period, the galleries were filled with complimentary activity booths and Tinkerfest activities to engage guests.

The highlights included a record-breaking bottle cap mural, CAPtivate, designed by Creator-In-Residence and CEO of Asiatainment Pte Ltd, Mr Edmund Chen. Together with the Chase Your Dreams installation, the piece was displayed as an artwork featuring a collaborative effort by the community. The completed bottle cap mural was unveiled by Mr Chan Chun Sing, Minister for Education as the Guest of Honour. Made up of 18,000 bottle caps pasted by Science Centre guests, the initiative broke the record for the Largest Bottle Cap Mural in the Singapore Book of Records.

The Day Carnival also saw a Farmers' Market experience and interactive workshop sessions with local farmers taking place. Upcycling workshops were conducted, teaching participants how to upcycle bottles, create snack pack pouches and memory frame souvenirs using recycled materials. In all, 231 passes were sold and over 5,000 participants took part in the activities.

All Day Carnival images shown are courtesy of Team Nila.



RECORD-BREAKING  
BOTTLE CAP  
MURAL



INTERACTIVE WORKSHOP  
SESSIONS WITH  
LOCAL FARMERS



UPCYCLING  
WORKSHOPS WERE  
CONDUCTED



Pictured (left to right): Mr Edmund Chen, Chief Executive Officer, Asiatainment Pte Ltd, Mr Ong Eng Huat, Founder and President, Singapore Book of Records, Ms Tan Yen Yen, Chairman, Science Centre Board, Mr Chan Chun Sing, Minister for Education, Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, Mr Lim Boon Wee, Deputy Secretary (Services), Ministry of Education.



The Chase Your Dream installation was assembled using lights from A Very Small Exhibition leading from Science Centre's main entrance to the amphitheatre. The installation was made up of upcycled CDs decorated by Science Centre's guests during the *UNTAME* Day Carnival.



Mr Chan Chun Sing, Minister for Education interacting with local farmers at the Farmers Market experience during the *UNTAME* Day Carnival.



Science Outreach Programmes & Competitions, Events & Engagement

# UNTAME AFTER DARK



3 – 5 Dec 2021  
7 – 10 pm



778



Science Centre Singapore

The *UNTAME After Dark* experience was a pilot large-scale, after hours event within the Centre, intended to break the mould and draw youths and young adults to experience a night of fun, games and performances.

Key highlights included four zones of Food, Market, Activity and Lifestyle, a mass ‘Hunt the Golden Seed’ mission, three stage line-ups (The Electrified Show premiere, NTU and NUS Band and Singapore Science Buskers finalist performances), as well as premium experiences – BlasterNight Battle and Magic in a Bottle workshop.



PILOT LARGE-SCALE,  
AFTER HOURS EVENT



A NIGHT OF FUN, GAMES  
AND PERFORMANCES



The activity zone was filled with arcade and carnival games.



Participants enjoying the Blaster Night Battle experience.



The stage line-up included the premiere of the Electrified Show by Mr Kiki Tay, along with performances by music bands from the National University of Singapore (NUS) and Nanyang Technological University (NTU). The finalists from the Singapore Science Buskers also took the stage to present their skits and demonstrations.



# THINK BIG, YOUTH SCIENCE AMBASSADOR PROGRAMME



**Total Number of Ambassadors:**  
**95**



**Total Number of Community Hours Served**  
**5,998.5**

A key tenet of the Centre's commitment to the Youth Science Movement, the event was organised in collaboration with Amazon Web Services (AWS) to equip young Singaporeans with Science, Technology, Engineering and Mathematics (STEM) skills to create solutions to address some of the real-world challenges faced by social service organisations in catering to the needs of their beneficiaries. The Youth Science Ambassadors, aged 13 to 15, were mentored in design thinking and science communication, and worked on community projects in collaboration with volunteer centre, Loving Heart, and social service agency, Association for Persons with Special Needs (APSN), Emmaus and government agency Ministry of Manpower. Ten Ambassadors were recognised for their outstanding contributions in project prototyping and presentation and received the Amazon Future Engineer Bursary Award.



**EQUIPPED YOUNG  
SINGAPOREANS WITH  
STEM SKILLS**



**TO CREATE SOLUTIONS TO  
ADDRESS REAL-WORLD  
CHALLENGES**



Group photo taken during the YSA Graduation and AFE Bursary Award Ceremony.



Ambassador receiving her bursary award from Dr Anne Dhanaraj, Senior Director, Education, Science Centre Board during the YSA Graduation and AFE Bursary Award Ceremony.



Ambassador receiving his certificates of participation from Dr Lee Song Choon, Director, KidsSTOP™ and Events & Engagement, Science Centre Board during the YSA Graduation and AFE Bursary Award Ceremony.



# AMPOWER

 **10 – 11 Jun 2021**  
**9 – 11 Dec 2021**

 **36 and 19 participants respectively**

This is a science outreach programme organised by Science Centre Singapore, sponsored by Amgen Singapore Manufacturing and supported by Uplift Programme Office, Ministry of Education. It was aimed at engaging youths from underprivileged communities in meaningful science workshops, building friendships and bonding with their peers and family members and empowering them in STEM fields. Participants were identified through partner community organisations including Chinese Development Assistance Council (CDAC), Eurasian Association (EA), Yayasan MENDAKI and Singapore Indian Development Association (SINDA). AMPower was held twice in 2021, on 10 – 11 Jun and 9 – 11 Dec, involving 36 and 19 participants respectively. Due to COVID-19 Heightened Alert, the June introductory programme was conducted online. December saw the pilot of AMPower 2.0, an intermediate-level day camp designed for returning alumni from previous rounds of AMPower. This programme was held fully onsite at Science Centre.



In line with Day 1's theme of 3D printing, AMPower 2.0 participants experienced a 3D-food printing workshop where they prepared a sweet potato mash.



On Day 2 of AMPower 2.0, participants learnt about biotechnology and performed a bacteria transformation experiment.



**ENGAGE YOUTHS FROM UNDERPRIVILEGED COMMUNITIES IN SCIENCE WORKSHOPS**



**OPPORTUNITY TO BOND**



**EMPOWER THEM IN STEM FIELDS**

# ABBOTT YOUNG SCIENTIST PROGRAMME

Organised by Science Centre Singapore and Abbott Laboratories, and supported by the Ministry of Education, the *Abbott Young Scientist Award* was back for the ninth edition. The award was presented to 39 primary school students from 26 schools. As part of the award, students underwent a mentorship programme with mentors from Science Centre's staff and student mentors from Temasek Junior College and Nan Chiau High School, to work on a STEM project of their interest. This award culminated in a project presentation ceremony on 14 August 2021, titled "Abbott Young Scientist for a Day", where the students presented their STEM projects virtually to 118 attendees. Their projects were viewed by special guests, Mr Zeeshan Malik, Regional Director, Instrument TPM Operations, Core Diagnostics, Abbott Laboratories (Singapore), and Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board, who were impressed by the quality of work on display.




Group screenshot at the end of the virtual ceremony.



**MENTORSHIP PROGRAMME WITH MENTORS**



# 3M SCIENCE AT HOME KITS

 **Year-long science outreach programme**

In collaboration with 3M Singapore and supported by 3Mgives, the social investment arm of 3M, two Science at Home Kits– Murder Mystery Kit and Nature’s Invention Kit – were developed. This was part of a year-long science outreach programme targeted at underprivileged children and their families to make science more accessible and inclusive, while inspiring love and appreciation for science through experiential learning. Science Centre has worked with partner community organisations to link up with the beneficiaries who come from financially disadvantaged or underprivileged background. The kits were delivered to the homes of 560 beneficiaries and they attended an online workshop conducted by Science Centre’s educators.

The initiative was also featured on Little Day Out and The Asian parent, which included interviews with the 3M volunteers and participants.



**TARGETED AT  
UNDERPRIVILEGED CHILDREN  
AND THEIR FAMILIES**



**INSPIRE LOVE AND  
APPRECIATION  
FOR SCIENCE**



**2 SCIENCE AT  
HOME KITS  
DEVELOPED**



Nature's Invention Kit



Madinah (right) and her sister Arumi doing the fingerprint activity from the 3M Science at Home Murder Mystery Kit. This is a screenshot from the event highlights video which was filmed in accordance to prevailing Safe Management Measures.

**“ Wonderful science workshops with quality materials provided that we hope will continue in the future for the children! Really impressed by the science kits. The children remember very well from the workshop and mention it when talking about activities they enjoyed.**  
- Fei Ting, The Hut Limited, non-profit organisation that aims to support children and youths.



# 3M TINKERING HEADSTART @SOUTH WEST

 16 Apr 2021

 **Total beneficiaries**  
29

 **Big Heart Student  
Care Centre in Teck  
Whye Primary School**

This year-long science outreach program was launched on 16 Apr 2021 with Ms Low Yen Ling, Chairman of Mayors' Committee and Mayor of South West District. Targeted at underprivileged children aged 7 to 12 and their parents, the programme was designed to offer access to science education whilst nurturing their curiosity and passion for the discipline.

Comprising 15 tinkering workshops spread across a year targeted at 600 beneficiaries nationwide, the workshops had to be extended till end Sep 2022 amidst the Covid-19 restrictions.



From Left: Mr Kevin McGuigan Vice President & Managing Director, 3M (Southeast Asia), Tiara Nur Amelina, Student, Ms Low Yen Ling, Mayor of South West District, Dalston Yuen, Student, Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board and Ms Veronica Xiong, General Manager, Self Help Groups Student Care Limited at the launch of 3M Tinkering Headstart of South West.



**OFFER ACCESS TO  
SCIENCE EDUCATION**

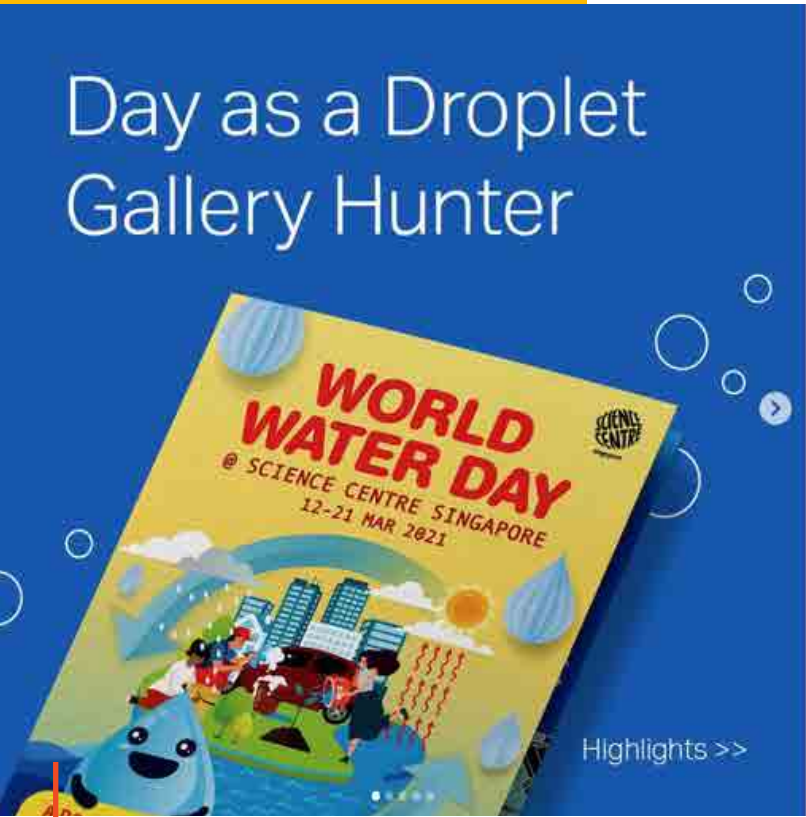


**NUTURE THEIR CURIOSITY  
AND PASSION FOR SCIENCE**



Ms Low Yen Ling, Mayor of South West District, Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board and Mr Kevin McGuigan Vice President & Managing Director, 3M (Southeast Asia) interacting with students as they built their vehicles with the tool kit provided.





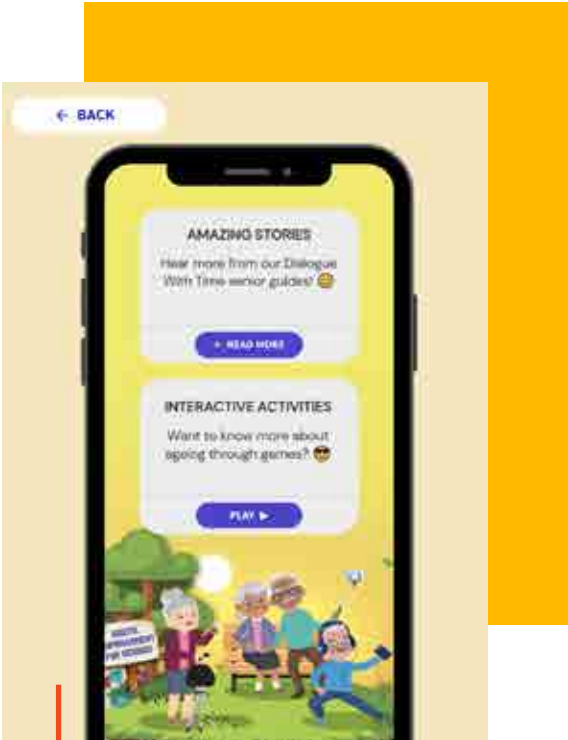
World Water Day (12–21 Mar 2021):  
Gallery Hunt



Participants creating their own  
floating vehicle.



International Day Against Drug  
Abuse and Illicit Trafficking  
(21–27 Jun 2021)



International Day of Older Persons  
(1–10 Oct 2021): Photo Journey

Gallery Experience

INTERNATIONAL DAYS @  
SCIENCE CENTRE

Specific International Days recognised by the United Nations are selected and celebrated to raise awareness on certain social issues. The Centre aims to promote the Sustainable Development Goals through creative science programmes and activities.

Event	Online reach (inclusive of social media engagements and website views)	Onsite activities
World Water Day	30,611,396	7,066
Earth Day	37,544,860	3,214
International Day of Older Persons	159,235	3,656
International Science Centre Day	13,227	606

Others: International Day Against Drug Abuse and Illicit Trafficking  
Pop-up collateral booth & DrugFreeSG Light Up



RAISE AWARENESS ON  
CERTAIN SOCIAL ISSUES



CREATIVE SCIENCE  
PROGRAMMES & ACTIVITIES



## Gallery Experience

# THAT'S GROSS SCIENCE SHOW



Number of show runs  
**90**



Number of tickets sold  
**1,761**

*That's Gross! Science Show* was curated to complement the Know your poo! exhibition. Guests had an opportunity to learn more about the many unpleasant yet very important substances our bodies excrete. Guests are guaranteed to leave the show yelling "That's gross!".



Presenters demonstrating how kidneys work through a unique model built in-house.

## Some written feedback from audience:

**Great show! I love how the digestive processes were taught concretely.**

**Amazing will recommend!**  
- Melissa Chew

**Well worth the ticket price! Well done to the presenters! The kids loved it!!!**  
- Angela

**The staff are very funny & entertaining. We learnt in a fun way today. My tickets are well spent! Encore!**  
- Cheryl



Audience learning about the different substances that our bodies excrete.



CURATED TO COMPLEMENT  
THE "KNOW YOUR POO!"  
EXHIBITION



LEARN MORE ABOUT  
ABOUT THE SUBSTANCES  
OUR BODIES EXCRETE

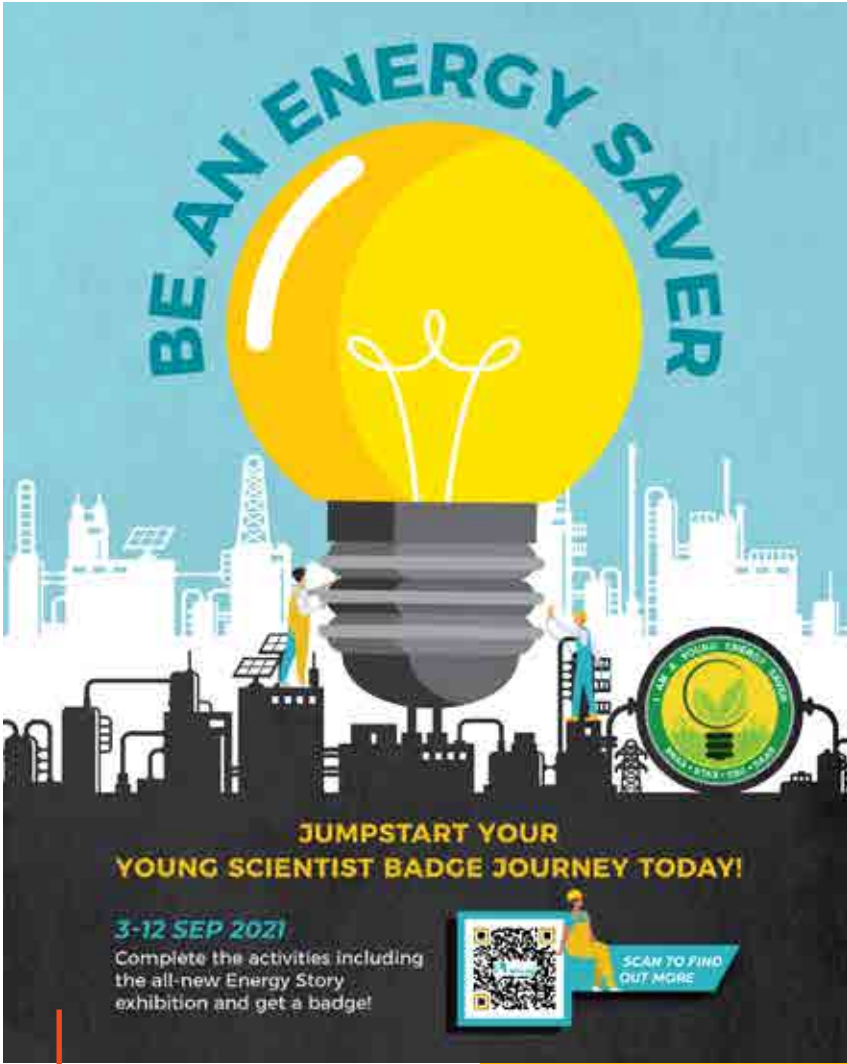




Participants experimenting and learning about circuit connections through tinkering techniques.



Participants learning about energy efficiency in different types of light bulbs.



Be An Energy Saver Poster 2021.

Gallery Experience

# BE AN ENERGY SAVER



Sep 2021



Young Energy Saver Trail  
602



Interactions  
6,399

This September Holiday programme was curated to complement the launch of the Energy Story exhibition, as well as to kick-start the 40th anniversary celebrations of the Young Scientist Badge Scheme. Participants who completed the trail were awarded with the "I Am A Young Energy Saver" badge.



COMPLEMENT THE  
OPENING OF ENERGY  
STORY EXHIBITION



KICKSTART THE 40TH ANNIVERSARY  
CELEBRATIONS OF THE  
YOUNG SCIENTIST BADGE SCHEME





Touch Community Services beneficiaries at SFAD.



Tinkerfest Poster 2021.



SportCares personnel with family beneficiaries.

Gallery Experience

# TINKER FEST 2021 (IN PARTNERSHIP WITH 3M)



20 – 28 Nov 2021



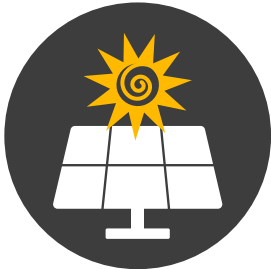
Interactions

7,872

The annual *Tinker Fest* themed around sustainability and offered participants six specially curated activities. Each activity encouraged participants to creatively explore ways of sustainable living and help protect Earth!

The event was extended to beneficiaries as part of the sponsorship from 3Mgives. Organisations such as SportCares, Touch Community and Tasek Jurong supported the event.

Beneficiaries	
Adults	17
Children	36
Total	53



THEMED  
AROUND  
SUSTAINABILITY



EXPLORE VARIOUS WAYS  
OF SUSTAINABLE LIVING &  
HELP PROTECT EARTH





Signature giant cloud explosion at the *Sci-sational Science Show* finale.



Guest learning about thermal imaging at the *Sci-sational Christmas* activity booth.

## Audience feedback:

**The presenters were wonderful, funny and engaging! Highly recommended for kids. Me and my son had a great laugh. Looking forward to another show in Dec 2022.**  
- Stephanie

**Awesome show! Well done to the presenters for being so funny and engaging and sharing science concepts in such a fun way!**  
- Melanie Sim

### Gallery Experience

## SCI-SATIONAL CHRISTMAS



**1 Dec 2021 –  
3 Jan 2022**



**Interactions  
26,687**



**Number of tickets sold  
2,105**

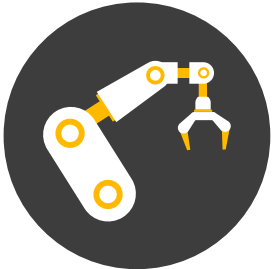
The *Sci-sational Christmas* show, themed around Technology was specially curated to complement the newly launched *Smart Nation – Playscape* exhibition.

Guests were treated to a galore of interesting activities from learning about sensors and thermal imaging to creating their own LED Christmas cards.

On top of activities, *Santa's Surprise Party* made a comeback with raving reviews.



**THEMED  
AROUND  
TECHNOLOGY**



**CURATED TO COMPLEMENT THE  
NEWLY LAUNCHED SMART NATION –  
PLAYSCAPE EXHIBITION**





Junior Achievement/J&J Activity Booth.



Lego Activity @ Future Makers.



Poster Exhibition of Local Female Scientists.



**CREATE AWARENESS OF  
WORK DONE BY WOMEN IN  
STEM FIELDS**



**INSPIRE GIRLS  
TO PURSUE  
STEM CAREERS**

**Gallery Experience**

# DISCOVHER 2022



**11 – 13 Feb 2022  
18 – 20 Feb 2022**



**Media Coverage**

**AVE**

**\$63,994**

**PR Value**

**\$191,982**

**Reach**

**195,640,890**

For the fifth year running, Science Centre Singapore celebrated International Day of Women and Girls in Science with *DiscovHER*. Themed “Inspiring the NeXXt Generation” (a distinctive reference to the female XX chromosomes), *DiscovHER 2022* aimed to champion and create awareness about the work done by women in the field of Science, Technology, Engineering and Mathematics (STEM) and inspire girls to pursue STEM careers.

Highlights: *DiscovHER* was featured in a wide range of listicles and round up articles in parenting and lifestyle publications such as Sassy Mama, Singapore Motherhood, HoneyKids Asia (No.1 activity) & ByKidO, driving readers to *DiscovHER* website.

Social Media Coverage	Reach	Impressions
FB: International Day of Women & Girls in Science	19.4k	37k
FB: DiscovHER Highlight	22.2k	30.9k
IG: DiscovHER IGS (7 in total)	3.1k	3.1k
IG: DiscovHER Highlights	10.2k	17.4k
Total	54.9k	88.4k

FB – Facebook, IG– Instagram





A happy family posing with the Pi structure and props after completing all the *Inspire* booths.



Mathematics-themed deco in Demo corner to welcome visitors and introduce "*Inspire*" event to them.



Family bonding in action as parent and child work together to complete the 'Find my area' activity.

### Gallery Experience

## INSPIRE 2022



12 Mar 2022 –  
20 Mar 2022



Interactions  
6,201

*Inspire*, the annual mathematical themed event, was held during the March School Holidays.

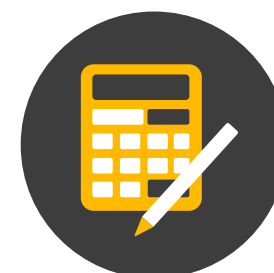
Guests participated in activities that tested their mathematical knowledge on common geometric shapes and measurements and challenged their memory by memorising as many digits of Pi as possible.

Four activities were curated for the event:

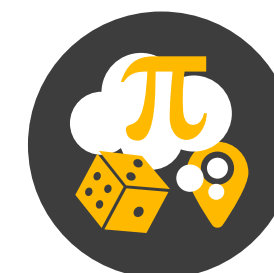
1. Pi Memory challenge
2. Well of Knowledge\*
3. Find my area
4. Take home activity – Make an Inspire dice

\* "Well of knowledge" activity was curated to tie in with PUB's Singapore World Water Day.

General verbal feedback received was highly positive as the activities were engaging and promoted family bonding with adults and kids working together to complete the task.



**ACTIVITIES THAT TESTED  
THEIR MATHEMATICAL  
KNOWLEDGE**



**4 ACTIVITIES  
WERE CURATED**



SECONDARY  
STEM ALP  
SEMINAR 2021

Curiosity

Understanding needs of elderly



BE CURIOUS  
BE CREATIVE  
BE THE CHANGE

STEM ALP Secondary School Seminar.



STEM ALP Secondary School Seminar.



STEM ALP Learning Fest.

## Informal Science Programmes and STEM Inc

# STEM INC

STEM Inc with the support of MOE continued to actualise inspiration, empowerment and co-creation in its engagement with students, teachers and the public over 2021. Over 300 students and teachers were engaged through a series of workshops, project showcases and industry sharings at the virtual *STEM Applied Learning Programme Learning Fest* over 23-27 Aug.

Teachers from over 50 Primary schools while 400 teachers from Secondary schools were engaged at the Primary and Secondary STEM Applied Learning Programme Seminars held over 30 Mar and 9 Nov, respectively – facilitating the networking and cross sharing of innovative practices by educators.

Youths from the Singapore Academy of Young Engineers and Scientists (SAYES) made instructional videos used by our staff in facilitating heat press workshops for special needs students from Rainbow Centre Yishun Park School over 12 & 19 Aug and 2 Sep.

The student-designed coasters and magnets were produced alongside customisable sticker packs at the Digital Fabrication Space (DFS) and sold at the Curiosity Shop over 10-31 Dec. News of DFS' inclusion in the Network of Fab Labs worldwide marked a fitting tribute to digital fabrication, prototyping and facilitation – capping a memorable year of collaboration, community engagement and curriculum development.



**ACTUALISE INSPIRATION, EMPOWERMENT  
AND CO-CREATION IN ITS ENGAGEMENT  
WITH STUDENTS, TEACHERS AND THE PUBLIC**



Informal Science Programmes and STEM Inc

# SCS ZOOMS TO YOU

 170,000 students  
from 324 schools

In May 2021, after the COVID-19 multi-ministry task force announced that all schools would move to home-based learning for 1.5 weeks, the Education Programmes team immediately pivoted the post-exam programmes to “SCS Zooms to you!” livestream videos. Within a week, four of the most popular programmes – *Properties of Forces*, *States of Matter*, *Our Environment & Us*, and *Diversity of Cells* – were converted to online lecture demonstrations. As each topic had two livestreams, the eight videos reached out to 170,000 students from 324 schools. The live viewers ranged from 4,601 to 15,604 for each livestream, with 90.6%-95.5% engagement. Science Centre’s Youtube page grew from 2,154 subscribers to 5,496 within two weeks.

By taking a bold step into pivoting the post-exams programme online, the capability and potential of leveraging STEM was demonstrated to enable edutaining home-based learning, winning the hearts and minds of teachers and parents during the most challenging of circumstances.



PROGRAMMES WERE  
CONVERTED TO ONLINE  
LECTURE DEMONSTRATION



ENABLE  
EDUTAINING  
HOME-BASED LEARNING



Demonstration of the canon for *Properties of Forces* Lecture.



Demonstration of fire in a container  
at *Our Environment and Us* Lecture.



Demonstration of the plasma ball for  
*States of Matter* Lecture.



Demonstration of the  
microscope at *Diversity of  
Cells* Lecture.



CRADLΣ

## RESEARCH & DEVELOPMENT EXPERIENCE PROGRAMME



Nov/Dec 2021



62 students



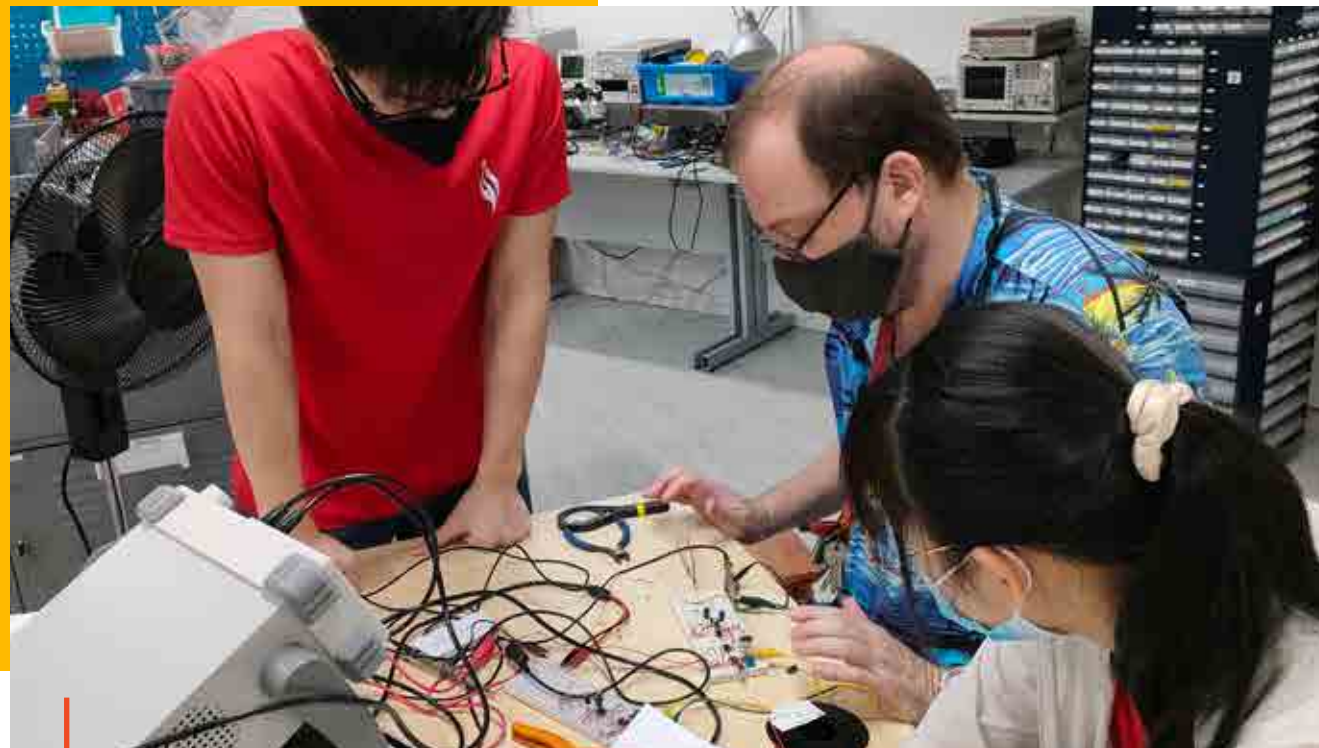
Science Centre  
Singapore

Along with continuously battling Covid-19, two rounds of *CRADLΣ's signature Research & Development Experience Programme* (eight day project work) were conducted in November/December addressing the application of STEM in finding solutions to the pandemic.

Students mentored by CRADLΣ/ industry mentors, produced some remarkable data and product models that are potentially applicable in the community during a pandemic.



**FINDING SOLUTIONS TO THE  
PANDEMIC USING STEM**



JC students and mentor troubleshooting electronic circuitry for an ultrasonic motion sensor.



Mentor guiding a student to program the Micro:bit to monitor the conditions in a food waste compost bin.



Students testing the water leakage of their automated soap dispenser project.



Singapore Science Centre Global Pte Ltd

## CODING OLYMPICS 2021



Aug 2021



1,416 students

In August 2021, Singapore Science Centre Global (SSCG) organised a gamified coding competition for Primary 3 to 6 students to equip our next generation with a firm foundation in digital skills, with the larger ambition of supporting the Government's bid to develop a healthy pipeline of young tech talent for the future digital economy. This allowed the Centre to engage with schools, students and communities to introduce and demonstrate the importance of real text-coding.

The programme included a four-day online training and one-day competition. In all 1,416 students participated in the programme which was certified by Singapore Book of Records as Singapore's Largest Online Coding Workshop.

To further enhance their interest in coding, advance level learning was also conducted using the coding platform, Coding Adventure.



**A GAMIFIED  
CODING COMPETITION  
FOR PRIMARY 3 TO 6  
STUDENTS**



**TO EQUIP OUR NEXT  
GENERATION WITH A  
FIRM FOUNDATION IN  
DIGITAL SKILLS**



**INTRODUCE AND  
DEMONSTRATE THE  
IMPORTANCE OF  
REAL TEXT-CODING**



Coding Olympics 2021 – a gamified coding competition for Primary 3 to 6 students organised by SSCG





# 05 05 GROUP OF 05 ATTRACTIONS

KIDSSTOP™  
SNOW CITY  
OMNI-THEATRE & BUTTERFLIES UP-CLOSE







The Supermarket zone revamped with a café concept.



Revamped supermarket shelves.



Jump and Touch exhibit in the refurbished Know Your Body zone.

KidsSTOP™

# KidsSTOP™ MINI REVAMP



15 Oct 2021



Health Promotion Board

The KidsSTOP™ mini revamp was done in collaboration with its funding partner, the Health Promotion Board, to deliver key health messages while encouraging creativity and free play.

The newly revamped *The Supermarket* and *Know Your Body* zones opened to public on 15 Oct 2021. The kitchen area at *The Supermarket* was holistically redesigned to introduce a café concept to promote healthier food preparation and consumption choices, while the *Know Your Body* Zone was refurbished, and a new exhibit was added to familiarise young ones with their body parts and functions. The goal of the revamp was to enhance the learning and play experience within these spaces to help shape children's perception about healthy living.



ENHANCE THE  
LEARNING AND PLAY  
EXPERIENCE



HELP SHAPE  
CHILDREN'S PERCEPTION  
ABOUT HEALTHY LIVING



**KidsSTOP™ – Signature Programming**

# PRESCHOOL DIGITAL PROGRAMMES



**7 online preschool programmes**



**Approximate reach**

**Science Play!**

**1,500 students**

**Outreach**

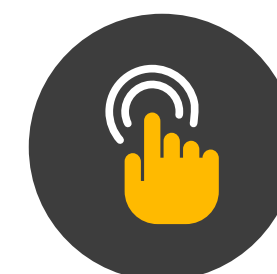
**1,400 students**

**Curious Explorers**

**800 students**

As the world adapted to the pandemic, KidsSTOP™ continued with its efforts to extend learning via digital platforms.

To cater to the rise in demand, more digital preschool programmes were made available via Zoom or pre-recorded videos, with material kits delivered to preschools.



**EXTEND LEARNING VIA  
DIGITAL PLATFORMS**



**MATERIAL KITS  
DELIVERED TO PRESCHOOLS**



A screen grab featuring KidsSTOP™ macsots Pepper and Win from “Amazing Cabbage” – a digital preschool outreach programme. As per SMM, performers were allowed to unmask when performing.



KidsSTOP™ – Signature Programming

# TRANSMEDIA



Science O’Clock Junior: Pepper’s Lab

9 episodes

I Saw the Science – For Young Parents & Educators

11 articles

Transmedia content such as *Science O’Clock Junior: Pepper’s Lab* which was rolled out last year, continued well into 2021. New content was made available digitally to cater to the educational needs of children who preferred learning at home. Two new initiatives including a section on the *I Saw the Science* blog for young parents and educators, as well as a quarterly newsletter, *Science Pop!* by KidsSTOP™ were introduced.

In collaboration with World Scientific Publishing, the first issue of ‘*Science Pop!*’, targeted at preschoolers aged 4 – 6 years old themed around ‘Our Clean Earth’, was published and circulated among our preschool audience.

The new section For Young Parents and Educators was added to the *I Saw the Science* blog in 2021 for this demographic with monthly articles curated to help parents and teachers extend their children’s learning and provide tips on interacting with their children. To synergise transmedia efforts, the blog articles also served as a one-stop platform for readers to access videos and webpages created by the team for an enhanced learning experience.



**I SAW THE SCIENCE BLOG:**  
A new section For Young Parents and Educators was added



**SCIENCE POP! BY KIDSSTOP™:**  
Targeted at preschoolers aged 4 – 6 years old



**I Saw the Science – For Young Parents and Educators**  
The header image for an article titled Bite Science Activities: *Light it Up*.  
The blog posts tie in with *Pepper’s Lab* videos.



**Pepper’s Lab:**  
A screenshot of Jelaine, a Learning and Engagement Specialist from Singapore Repertory Theatre with Pepper in *Pepper’s Lab*’s ‘*Light up the Night*’.



KidsSTOP™’s newsletter titled **Science Pop!’s First Issue – ‘Our Clean Earth’**



# ABBOTT GROW SHOW YOU CAN!

 **32 teams from  
21 schools**

An annual event for young children to showcase their talents and learn about science through curated creative performances, *Abbott GROW Show You Can!* allows them to develop confidence and spark their interest in science and the arts. The event was kindly sponsored by Abbott.

The theme ‘The Nature Adventure’ aimed to promote the importance of outdoor learning and explore different ways of interacting and protecting Nature. The Rainforest Hero team from PAP Community Foundation Blk 443 Tampines was the winner.



A publicity collateral showcasing *Abbott Grow Show You Can!* sent to pre-schools and kindergartens.



**SHOWCASE THEIR  
TALENTS**



**LEARN ABOUT  
SCIENCE THROUGH  
PERFORMANCES**

# KIDSSTOP™ ACADEMY

 **31 graduates**

KidsSTOP™ Academy helps advocate the continuous pursuit of science knowledge from a young age and encourages children to inquire and investigate through exciting and fun-filled activities.

The three tracks under the KidsSTOP™ Academy include *Star TOTS, LEAP and PAL*. A small-scale event was planned to celebrate the children’s achievement and families were invited for a photo-taking session at KidsSTOP™ on 13 Nov 2021.



Associate Professor Lim Tit Meng, Chief Executive, Science Centre Board was invited as the guest of honour to present the certificates and graduation gift packages to the graduates.



**ENCOURAGES CHILDREN  
TO INQUIRE AND  
INVESTIGATE**



**ADVOCATE THE  
CONTINUOUS PURSUIT  
OF SCIENCE KNOWLEDGE**



# PARTNERSHIP WITH GRACE ORCHARD SCHOOL



Science Centre Board had signed a *Memorandum of Understanding* with Grace Orchard School on 11 May 2021 to establish a two-year partnership in the co-creation of science resource packages, work experience programmes, providing professional development as well as creating a community of practice on science teaching and learning for people with diverse abilities.



LAUNCHED 3 UDL PROGRAMMES IN 2021



Programmes that had been designed using the Universal Design for Learning (UDL) framework and planned in consultation with Special Education (SPED) specialists.



# PARTNERSHIP WITH RAINBOW CENTRE



KidsSTOP™ teamed up with Young Adult Activities (YAA!) at Rainbow Centre for an eight-week learning journey aimed at young adults with moderate to severe disabilities at risk of social isolation through a series of science activities. The hands-on activities are customised and designed based on the participants' profiles.

The programme was held at Rainbow Centre Margaret Drive from 4 Jan 2021 – 21 Feb 2022 and culminated in an exclusive visit to Science Centre during which participants attended a science show prepared for them by the Gallery Experience team on 10 Mar 2022.



KidsSTOP™ educators conducting science activities at Rainbow Centre for members of their Young Adult Activities (YAA!)



# PARENTS POD



Nov 2021



20 pairs of  
parent-child pairs

*Parents Pod* was established in Nov 2021, as an initiative to engage parents and empower them to be meaningfully involved in their children's learning. Through engaging workshops, talks by subject matter experts, sharing sessions, KidsSTOP™ aims to create opportunities for interaction and conversations among parents.

*Parents Pod* rolled out the first parent-child bonding workshop in Dec 2021 which received very positive responses among parents. Participants learnt the art of bento-making for the holiday seasons.



**Parents Pod – Santa bento**  
Participants with their Christmas bento creation.



# KEEN



Oct 2021



As of Jan 2022

117 members in network

The *KidsSTOP™ Educators Engagement Network* (KEEN) was launched in Oct 2021, as an initiative to establish a professional learning community amongst early childhood educators in the area of science communication.

Through this network, KidsSTOP™ hopes to build a culture of sharing ideas and best practices that will facilitate educators in igniting and cultivating the interest in science among pre-school children. Several hands-on workshops have been planned for 2022 to engage preschool educators, for them to gain knowledge and inspiration in the area of science teaching and learning.



**A PROFESSIONAL  
LEARNING COMMUNITY  
AMONGST EARLY  
CHILDHOOD EDUCATORS**



**BUILD A CULTURE OF  
SHARING IDEAS AND  
BEST PRACTICES  
THROUGH THIS NETWORK**



**Snow City**

## THE ICE HOTEL GALLERY EXPERIENCE



**2 Nov 2021**

On 2 Nov 2021, Snow City Singapore launched its latest attraction – *the Ice Hotel Gallery*. Stretching across a 17-metre snow field, this latest attraction boasts five thematic ice and snow art installation zones finely crafted by Singapore's well-renowned ice sculptor veteran, Jeffrey Ng. Made from 320 blocks of ice, Snow City's *Ice Hotel Gallery* took 800 man-hours to complete. Certified as "Singapore's First Ice Hotel Experience" by the Singapore Book of Records, visitors will journey through this ice and snow art gallery to experience a "daycation" in the gallery's amenities that features prominent historical iconic sculptures of the Victoria Concert Hall façade, Sir Stamford Raffles and legendary prince, Sang Nila Utama.



Ice bar fashioned out of blocks of ice with intricate details depicting scenes with animals, flora and fauna.



A glimpse of an *ice hotel* experience including sleeping in sub-zero temperatures!



**STRETCHING  
ACROSS A 17-METRE  
SNOW FIELD**



**FIVE THEMATIC  
ICE AND SNOW ART  
INSTALLATION ZONES**



**SINGAPORE'S  
FIRST ICE HOTEL  
EXPERIENCE**



**Snow City**

## SINGAPORE REDISCOVER VOUCHERS



**31 Dec 2021**



**Total sales via KLOOK**

**\$1.11 million**

Singapore Tourism Board concluded the campaign of the *SingapoRediscover Vouchers* on 31 Dec 2021. Snow City Singapore achieved total sales worth \$1.11 million via KLOOK, the authorized booking platform.

## GROUP SERVICE AGENT



**Sep 2021**



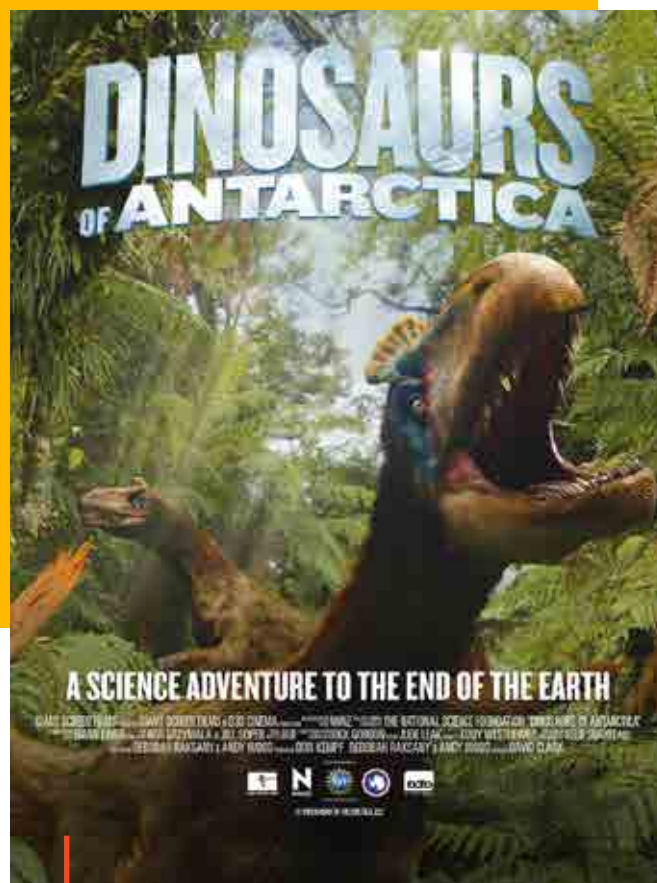
**Purchased**

**50,000 snow play tickets**

In Sep 2021, Snow City appointed a local registered travel agent, Cebu Air Travel & Tours Pte Ltd, as a Group Service Agent to exclusively sell bulk tickets to the travel agent market. In the year 2021, Cebu Air Travel & Tours Pte Ltd purchased 50,000 snow play tickets from Snow City Singapore.







Highly anticipated Dinosaur themed movie premiered in September 2021.



Moviegoers experiencing Southeast Asia's first 8K 3D digital dome theatre.

## OMNI-THEATRE

The *Omni-Theatre* continued to captivate guests as Southeast Asia's first 8K, 3D digital dome theatre. The movies screened in FY 2021 included *Superpower Dogs* and *Dinosaurs of Antarctica*. With the latter, guests were able to travel back in time to the south polar landscapes of Antarctica where primitive forest and thick swamps exists with bizarre dinosaurs and colossal amphibians reigning supreme. In addition, *What's Up There*, a sold-out titled live planetarium show held in the theatre in tandem with the school holidays, was presented by a science educator who delivered an immersive experience for all.



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

## BUTTERFLIES UP-CLOSE

In its sixth year of operation, Singapore's first indoor butterfly sanctuary continued to bring nature science to life and delight guests young and old. Guests were able to journey through the stages of a butterfly's metamorphosis and enjoy a rare close-up view of various species such as the *Asian Swallowtail*, *Blue Moon* and *Pink Rose*. The sanctuary also provided monthly activities specifically for children to enhance knowledge and express their feelings towards the winged marvel.



The *Clipper Parthenos Sylvia* resting on a leaf.



**SINGAPORE'S FIRST INDOOR  
BUTTERFLY SANCTUARY**



**MONTHLY ACTIVITIES  
SPECIFICALLY FOR CHILDREN**



# 06 06 COMMUNITY & 06 PARTNERS

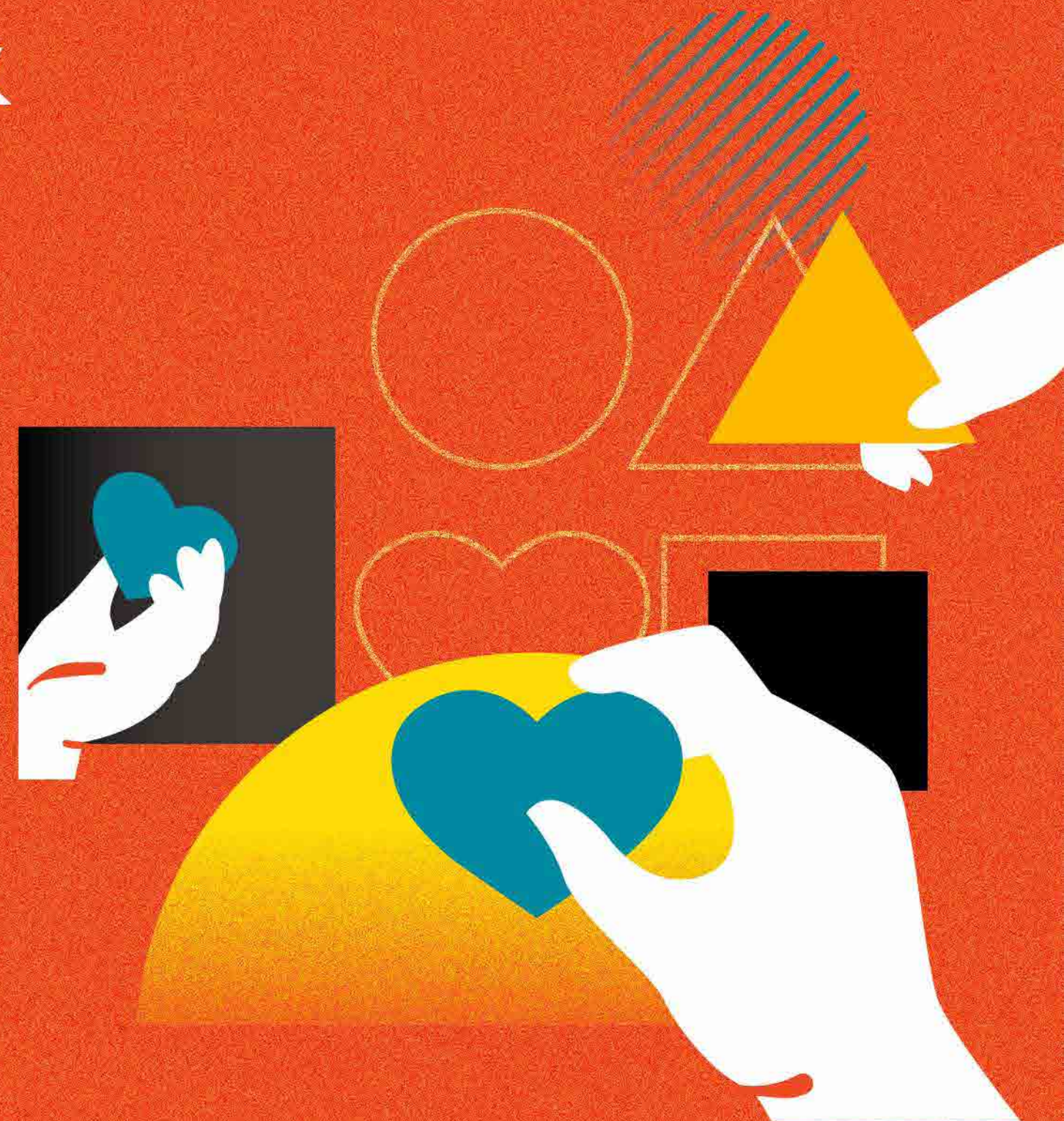
VOLUNTEER PROGRAMMES

LIST OF SPONSORS

SPONSORSHIP FUND, CONFLICT OF INTEREST POLICY & GOVERNANCE

BOARD SUB-COMMITTEES & PROJECT COMMITTEES

BOARD MEETINGS & ATTENDANCE





# CORPORATE VOLUNTEER PROGRAMME 2021

 21 Aug – 19 Sep 2021  11 personnel

 Meditech Media (MTM)  
Singapore

The programme started with Meditech Media (MTM) Singapore as part of their Corporate Social Responsibility where 11 staff with a good mix of academic, clinical and industry experience contributed their time and expertise for 42 hours.

From floor duties at the Tinkering Studio, Scientist for a Day and *Future Makers exhibition*, the staff volunteers enjoyed the experience, and are looking forward to contributing to the Science Centre next year.



Corporate volunteer from MTM interacting with guests.



MTM volunteer facilitating science experiments at Scientist for a Day exhibition.

**“Post Survey questions:**  
What do you enjoy about volunteering with us?

- Happy to see kids and their parents enjoying the activity and learning something new.
- Staff were friendly, approachable and helpful.
- Got to know more science facts.



CONTRIBUTED THEIR  
TIME AND EXPERTISE  
FOR 42 HOURS



FLOOR DUTIES AT  
VARIOUS  
EXHIBITIONS



# LIST OF SPONSORS

- 3M SINGAPORE
- ABB PTE LTD
- ABBOTT LABORATORIES (SINGAPORE) PTE LTD
- AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH
- AMAZON ASIA-PACIFIC HOLDINGS PTE LTD
- AMAZON WEB SERVICES
- AMGEN SINGAPORE MANUFACTURING PTE LTD
- CHEVRON SINGAPORE PTE LTD
- DANISCO SINGAPORE PTE LTD
- DEFENCE SCIENCE & TECHNOLOGY AGENCY
- DSO NATIONAL LABORATORIES
- EDUCATION DEVELOPMENT CENTER, INC
- ENERGY MARKET AUTHORITY OF SINGAPORE
- EU YAN SANG INTERNATIONAL LTD
- HEALTH PROMOTION BOARD
- HOME TEAM SCIENCE & TECHNOLOGY AGENCY
- KLA-TENCOR (SINGAPORE) PTE LTD
- MINISTRY OF THE ENVIRONMENT AND WATER RESOURCES
- SHELL EASTERN PETROLEUM PTE LTD
- SINGAPORE ART MUSEUM
- SINGAPORE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE SP GROUP
- SINGAPORE LAND AUTHORITY
- SINGAPORE TELECOMMUNICATIONS LTD
- SNRSI (SINGAPORE NUCLEAR RESEARCH AND SAFETY INITIATIVE)
- SONY ELECTRONICS ASIA PACIFIC PTE LTD
- TAN KAH KEE FOUNDATION
- INSTITUTE ENGINEER SINGAPORE
- U.S. EMBASSY IN SINGAPORE

## UNTAME: Rebooting Our World

Monetary, content and the Pay-It-forward sponsors.

**SPONSORS:**

- 3M SINGAPORE
- BUILDING AND CONSTRUCTION AUTHORITY
- CAMBRIDGE PRESCHOOL
- CARLSBERG
- EDNOVATION
- EMBASSY OF FRANCE IN SINGAPORE
- MINISTRY OF EDUCATION
- SENTOSA DEVELOPMENT CORPORATION
- SINGAPORE ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
- SONY CREATIVE SCIENCE AWARD
- TWIN SCIENCE ROBOTICS UK LIMITED
- UNIQLO

**PAY IT FORWARD DONORS:**

- ASSOCIATE PROFESSOR LIM TIT MENG
- MR CHEW KWEE SAN
- MR HIAN GOH
- MS LEE SIOK YOONG LEONIE
- THE Y JOURNEY

**PARTNERS:**

- ASIATAINMENT PTE LTD
- BERNINA
- CITY SPROUTS
- EMBASSY OF CHILE IN SINGAPORE
- FUNAN (CAPITALAND)
- GARDENS BY THE BAY
- GREEN MONDAY
- 112 KATONG
- JEM
- JURONG CENTRAL COMMUNITY CLUB
- JURONG SPRING COMMUNITY CLUB
- KIN YAN
- KRANJI COUNTRYSIDE ASSOCIATION
- METEOROLOGICAL SERVICE SINGAPORE
- MIRAIKAN
- MY ART BUDDY
- NANYANG POLYTECHNIC
- NATIONAL LIBRARY BOARD
- NATIONAL PARKS BOARD
- PUB, THE NATIONAL WATER AGENCY
- SALADSTOP!
- SENJA-CASHEW COMMUNITY CLUB
- SINGAPORE ART MUSEUM
- SINGAPORE CHINESE CULTURAL CENTRE
- SINGAPORE FOOD AGENCY
- SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN
- SINGAPORE YOUNG FARMERS
- SUSGAIN
- SUSTAINABLE SINGAPORE GALLERY
- SWAPAHOLIC
- TEAM NILA
- THE UNTAMED PATHS
- YOUNG NAUTILUS





# SPONSORSHIP FUND

## SCIENCE CENTRE BOARD SPONSORSHIP FUND PROGRAMMES & ACTIVITIES

- 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;
- Conduct supplementary science classes, lectures, demonstrations and workshops to complement the school syllabi;
- Produce and publish scientific literature in the form of magazines and guidebooks;
- Organise activities and programmes for general and targeted audiences so as to bring science closer to the people; and
- Screen planetarium programmes and OMNIMAX films to students and general public, using state-of-the-art audio-visual projection system.

# CONFLICT OF INTEREST POLICY

The Science Centre Board has implemented a conflict of interest policy that covers both the Board members and the staff. The document procedures require the Board members and staff to make a declaration of potential or actual conflicts of interest at the start of their term of office or at the start of their employment of service respectively. Thereafter, Board members are required to provide updates whenever there are changes to the original declaration, while staff are required to make such declarations annually.

### RESERVES POLICY

Reserves policy is not applicable as funds received are used for their intended purposes.

# GOVERNANCE ON REMUNERATION

## REMUNERATION DISCLOSURE

The number of staff who received annual remuneration exceeding \$100,000 for Financial Years 2020 and 2021 are shown in the table below.

Number of Employees	FY2021	FY2020
Between \$100,000 to \$200,000	-	-
Between \$200,001 to \$300,000	2	2
Between \$300,001 to \$400,000	1	1



# BOARD SUB-COMMITTEES & MEMBERS

## EXECUTIVE COMMITTEE (EXCO)

Chairman	Ms Tan Yen Yen
Members	Mr Soh Gim Teik Mr Hian Goh Mr Chew Kwee San Mr Chandran Nair Ms Cherie Nursalim

## PROJECTS & INVESTMENT (P&I) COMMITTEE

Chairman	Mr Chew Kwee San
Members	Ms Leonie Lee Prof Ng Huck Hui Ms Hwang Yu-Ning Mr Chang Chee Pey Mr Tony Zameczkowski

## DIGITAL CAPABILITIES COMMITTEE (DCC)

Chairman	Mr Hian Goh
Members	Ms Cherie Nursalim Mr Chandran Nair Mr Howie Lau Ms Leonie Lee Ms Yasmin Zahid

## AUDIT & RISK MANAGEMENT COMMITTEE (ARMC)

Chairman	Mr Soh Gim Teik
Members	Mr Hian Goh Mr Chandran Nair Ms Leonie Lee Prof Ng Huck Hui Ms Yasmin Zahid Prof Phoon Kok Kwang Mdm Lee Lin Yee

2021-2022

# PROJECT COMMITTEES

- SINGAPORE SCIENCE & ENGINEERING FAIR 2021 WORKING COMMITTEE
- SINGAPORE SCIENCE BUSKERS 2021 WORKING COMMITTEE
- ENGINEERING INNOVATION CHALLENGE 2021 STEERING AND WORKING COMMITTEE
- SONY CREATIVE SCIENCE AWARD 2021 ORGANISING COMMITTEE
- SCIENCE CHRONICLE 2021 WORKING COMMITTEE
- TAN KAH KEE YOUNG INVENTORS AWARD 2021 STEERING AND WORKING COMMITTEE
- SINGAPORE ACADEMY OF YOUNG ENGINEERS AND SCIENTISTS 2021 EXCO



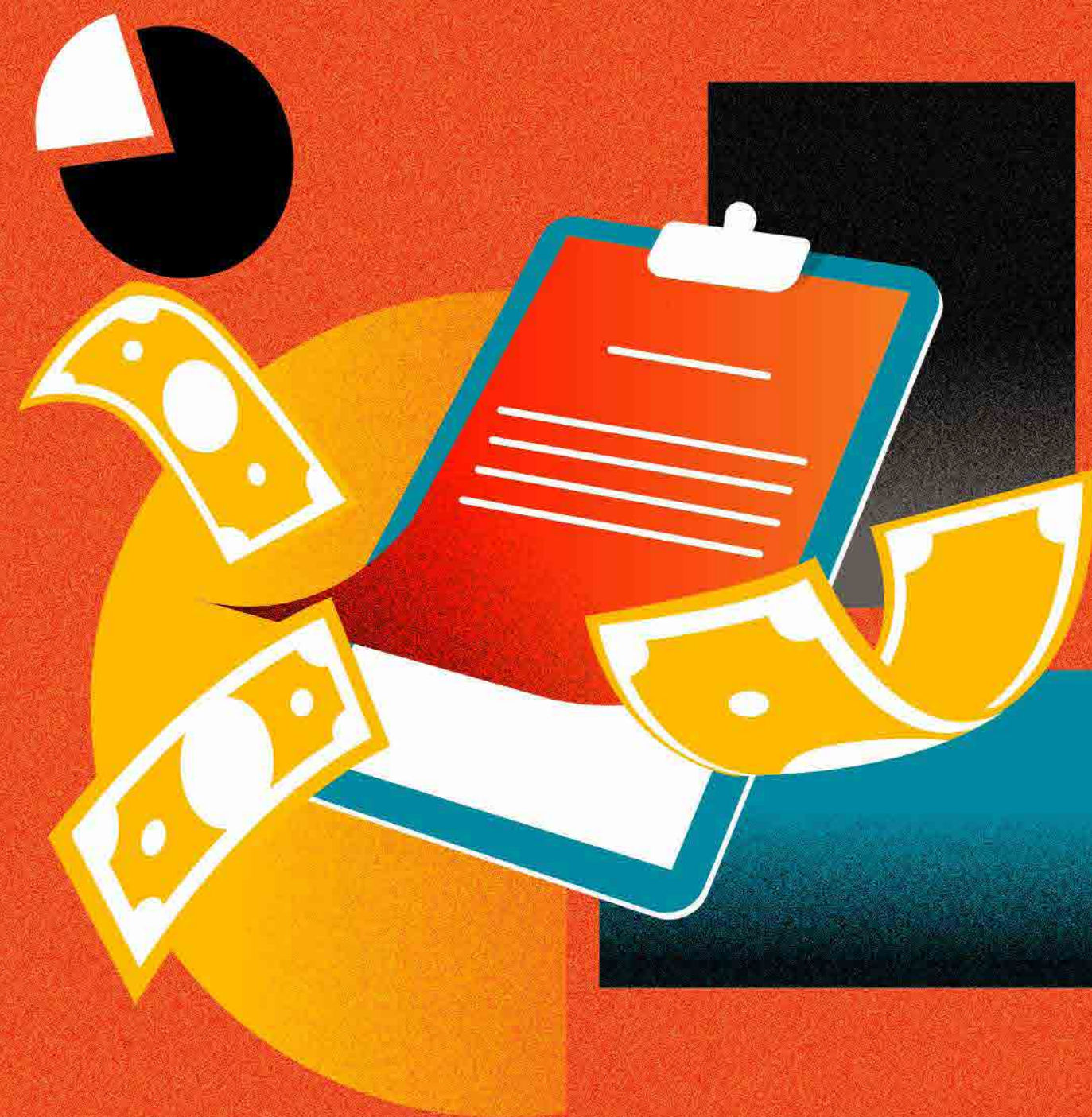
# BOARD MEETINGS & ATTENDANCE

Board Members	SCB #1 Board Meeting 4-Mar-21	SCB #2 Board Meeting 23-Jun-21	SCB Strategic Workshop 29-Sep-21	SCB #3 Board Meeting 24-Nov-21	Total Attendance
Ms Tan Yen Yen	✓	✓	✓	✓	4 out of 4
Mr Soh Gim Teik	✓	✓	✓	✗	3 out of 4
Mr Hian Goh	✓	✓	✓	✓	4 out of 4
Mr Chandran Nair	✓	✓	✗	✓	3 out of 4
Mr Chew Kwee San	✓	✓	✓	✓	4 out of 4
Ms Cherie Nursalim	✓	✗	✓	✗	2 out of 4
Mr Howie Lau	✓	✓	✓	✓	4 out of 4
Ms Leonie Lee	✓	✓	✓	✓	4 out of 4
Prof Ng Huck Hui	✓	✓	✓	✓	4 out of 4
Ms Hwang Yu-Ning	✓	✗	✓	✗	2 out of 4
Mr Chang Chee Pey	✓	✗	✓	✓	3 out of 4
Ms Yasmin Zahid	✓	✗	✗	✓	2 out of 4
Mr Tony Zameczkowski	✓	✓	✓	✓	4 out of 4
Prof Phoon Kok Kwang	✓	✓	✓	✓	4 out of 4
Mrs Nina Yang	✓	✓	✓	✓	4 out of 4
Mdm Lee Lin Yee	✓	✓	✗	✓	3 out of 4
TOTAL	16	12	13	13	

\* While Ms Cherie Nursalim, Ms Hwang Yu-Ning and Ms Yasmin Zahid were unable to attend some meetings due to travelling commitments, they have actively provided inputs to the Board’s initiatives.



# 07 07 FINANCIAL 07 STATEMENTS







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

**REPORT AND FINANCIAL STATEMENTS**

**YEAR ENDED 31 MARCH 2022**

**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**REPORT AND FINANCIAL STATEMENTS**

**C O N T E N T S**

	<u>Page</u>
Statement by the Board of Science Centre Board	1
Independent auditor’s report	2 - 5
Statements of comprehensive income	6 - 7
Statements of financial position	8
Statements of changes in equity	9
Consolidated statement of cash flows	10
Notes to financial statements	11 - 42



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 42 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 2022, 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

  
Ms Tan Yen Yen  
Chairman

  
Dr Lim Tit Meng  
Chief Executive

21 June 2022

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 2022, 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 a summary of significant accounting policies, as set out on pages 6 to 42.

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") 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 2022 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 ("ACRA") *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 1994 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

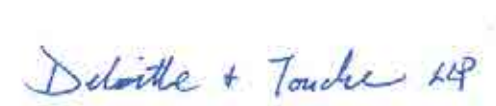
#### Responsibilities of Management for Compliance with Legal and Regulatory Requirements

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, the SCB Act, Charities Act 1994 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 accounting and internal control system, non-compliances may nevertheless occur and not be detected.



Public Accountants and  
Chartered Accountants  
Singapore

21 June 2022

## SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

### STATEMENTS OF COMPREHENSIVE INCOME Year ended 31 March 2022

GROUP	Note	General Funds		Restricted Funds		Total	
		2022	2021	2022	2021	2022	2021
		\$	\$	\$	\$	\$	\$
Income							
- Admission fees		2,601,646	2,489,045	-	-	2,601,646	2,489,045
- Proceeds from special projects		558,765	70,578	-	-	558,765	70,578
- Fees from courses and programmes		927,086	786,780	-	-	927,086	786,780
- Collections from exhibits and events		331,136	97,816	-	-	331,136	97,816
- Sales of merchandise and publications		1,165,632	571,738	-	-	1,165,632	571,738
- Service income		373,576	132,007	-	-	373,576	132,007
- Rental income		157,822	224,256	-	-	157,822	224,256
- Photo-taking income		124,538	139,769	-	-	124,538	139,769
		<u>6,240,201</u>	<u>4,511,989</u>	<u>-</u>	<u>-</u>	<u>6,240,201</u>	<u>4,511,989</u>
Other income	4	1,850,822	1,872,351	2,433,234	1,595,254	4,284,056	3,467,605
Other (losses)/gains - net	5	-	(53)	(71,135)	521,744	(71,135)	521,691
Expenses							
- Employee compensation	6	(24,394,053)	(21,164,686)	(146,139)	(57,853)	(24,540,192)	(21,222,539)
- Materials for exhibits and events		(4,640,222)	(3,773,865)	(1,998,193)	(1,625,101)	(6,638,415)	(5,398,966)
- Repairs and maintenance		(7,518,353)	(6,532,652)	(16,456)	(38,036)	(7,534,809)	(6,570,688)
- Publicity and promotions		(1,717,407)	(1,875,392)	(95,564)	(25,089)	(1,812,971)	(1,900,481)
- Depreciation	14	(3,131,655)	(3,451,907)	(11,725)	(9,527)	(3,143,380)	(3,461,434)
- Other expenditure	7	(2,936,732)	(2,463,893)	(321,209)	(95,804)	(3,257,941)	(2,559,697)
		<u>(44,338,422)</u>	<u>(39,262,395)</u>	<u>(2,589,286)</u>	<u>(1,851,410)</u>	<u>(46,927,708)</u>	<u>(41,113,805)</u>
<b>(Deficit)/surplus before grants</b>		<b>(36,247,399)</b>	<b>(32,878,108)</b>	<b>(227,187)</b>	<b>265,588</b>	<b>(36,474,586)</b>	<b>(32,612,520)</b>
Operating grants from government	15	33,620,296	30,149,326	-	-	33,620,296	30,149,326
Grants from other government agencies	10	751,208	1,154,193	-	-	751,208	1,154,193
Deferred capital grants amortised	19	1,285,815	1,250,490	9,321	9,527	1,295,136	1,260,017
		<u>35,657,319</u>	<u>32,554,009</u>	<u>9,321</u>	<u>9,527</u>	<u>35,666,640</u>	<u>32,563,536</u>
<b>(Deficit)/Surplus before tax</b>		<b>(590,080)</b>	<b>(324,099)</b>	<b>(217,866)</b>	<b>275,115</b>	<b>(807,946)</b>	<b>(48,984)</b>
Income tax credit	8	3,828	4,235	-	-	3,828	4,235
<b>Net (deficit)/surplus and total comprehensive (loss)/income</b>		<b><u>(586,252)</u></b>	<b><u>(319,864)</u></b>	<b><u>(217,866)</u></b>	<b><u>275,115</u></b>	<b><u>(804,118)</u></b>	<b><u>(44,749)</u></b>



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

STATEMENTS OF COMPREHENSIVE INCOME (cont'd)  
Year ended 31 March 2022

BOARD	Note	General Funds		Restricted Funds		Total	
		2022	2021	2022	2021	2022	2021
		\$	\$	\$	\$	\$	\$
Income							
- Admission fees		1,495,443	1,214,583	-	-	1,495,443	1,214,583
- Proceeds from special projects		558,765	70,578	-	-	558,765	70,578
- Fees from courses and programmes		797,570	773,537	-	-	797,570	773,537
- Collections from exhibits and events		331,136	97,816	-	-	331,136	97,816
- Sales of merchandise and publications		1,125,502	510,888	-	-	1,125,502	510,888
- Service income		8,893	40,183	-	-	8,893	40,183
		<u>4,317,309</u>	<u>2,707,585</u>	<u>-</u>	<u>-</u>	<u>4,317,309</u>	<u>2,707,585</u>
Other income	4	1,365,246	1,677,225	2,433,234	1,595,254	3,798,480	3,272,479
Other (losses)/gains - net	5	-	(99,983)	(71,135)	521,744	(71,135)	421,761
Expenses							
- Employee compensation	6	(23,607,778)	(20,382,222)	(146,139)	(57,853)	(23,753,917)	(20,440,075)
- Materials for exhibits and events		(4,664,744)	(3,764,333)	(1,998,193)	(1,625,101)	(6,662,937)	(5,389,434)
- Repairs and maintenance		(6,980,427)	(6,200,779)	(16,456)	(38,036)	(6,996,883)	(6,238,815)
- Publicity and promotions		(1,649,726)	(1,836,880)	(95,564)	(25,089)	(1,745,290)	(1,861,969)
- Depreciation	14	(2,962,635)	(3,190,050)	(11,725)	(9,527)	(2,974,360)	(3,199,577)
- Other expenditure	7	(2,625,525)	(1,838,538)	(321,209)	(95,804)	(2,946,734)	(1,934,342)
		<u>(42,490,835)</u>	<u>(37,212,802)</u>	<u>(2,589,286)</u>	<u>(1,851,410)</u>	<u>(45,080,121)</u>	<u>(39,064,212)</u>
<b>(Deficit)/surplus before grants</b>		<b>(36,808,280)</b>	<b>(32,927,975)</b>	<b>(227,187)</b>	<b>265,588</b>	<b>(37,035,467)</b>	<b>(32,662,387)</b>
Operating grants from government	15	33,620,296	30,149,326	-	-	33,620,296	30,149,326
Grants from other government agencies	10	751,208	1,154,193	-	-	751,208	1,154,193
Deferred capital grants amortised	19	<u>1,270,196</u>	<u>1,229,359</u>	<u>9,321</u>	<u>9,527</u>	<u>1,279,517</u>	<u>1,238,886</u>
		<u>35,641,700</u>	<u>32,532,878</u>	<u>9,321</u>	<u>9,527</u>	<u>35,651,021</u>	<u>32,542,405</u>
<b>Net (deficit)/surplus and total comprehensive (loss)/income</b>		<b><u>(1,166,580)</u></b>	<b><u>(395,097)</u></b>	<b><u>(217,866)</u></b>	<b><u>275,115</u></b>	<b><u>(1,384,446)</u></b>	<b><u>(119,982)</u></b>

See accompanying notes to financial statements.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

STATEMENTS OF FINANCIAL POSITION  
31 March 2022

	Note	Group		Board	
		2022	2021	2022	2021
		\$	\$	\$	\$
<b>ASSETS</b>					
<b>Current assets</b>					
Cash and cash equivalents	9	28,740,500	32,456,374	26,706,974	31,379,778
Trade and other receivables	10	3,721,789	2,102,738	4,019,190	2,385,889
Financial asset at fair value through profit or loss	11	5,984,924	5,056,078	5,984,924	5,056,078
Inventories	12	104,192	165,893	24,967	42,579
Total current assets		<u>38,551,405</u>	<u>39,781,083</u>	<u>36,736,055</u>	<u>38,864,324</u>
<b>Non-current assets</b>					
Investments in subsidiaries	13	-	-	660,002	660,002
Property, plant and equipment	14	24,150,169	25,156,986	23,831,952	24,831,708
Total non-current assets		<u>24,150,169</u>	<u>25,156,986</u>	<u>24,491,954</u>	<u>25,491,710</u>
<b>Total assets</b>		<u>62,701,574</u>	<u>64,938,069</u>	<u>61,228,009</u>	<u>64,356,034</u>
<b>LIABILITIES AND EQUITY</b>					
<b>Current liabilities</b>					
Government grants received in advance	15	13,428,934	15,096,443	13,428,934	15,096,443
Other government grants received in advance	10	945,085	849,634	945,085	849,634
Sponsorship received in advance	16	1,732,439	2,613,155	1,732,439	2,613,155
Trade and other payables	17	5,697,693	4,925,964	4,902,323	4,424,855
Total current liabilities		<u>21,804,151</u>	<u>23,485,196</u>	<u>21,008,781</u>	<u>22,984,087</u>
<b>Non-current liabilities</b>					
Deferred income tax liabilities	18	37,150	37,150	-	-
Deferred capital grants	19	12,658,315	12,907,869	12,628,909	12,895,404
Total non-current liabilities		<u>12,695,465</u>	<u>12,945,019</u>	<u>12,628,909</u>	<u>12,895,404</u>
<b>Capital, funds and accumulated surplus</b>					
Capital account	20	2,979,983	2,979,983	2,979,983	2,979,983
Share capital	21	10,488,403	9,990,181	10,488,403	9,990,181
Accumulated surplus					
- General funds		6,747,018	7,333,270	6,304,395	7,470,975
- Restricted funds	22	7,986,554	8,204,420	7,817,538	8,035,404
Total equity		<u>28,201,958</u>	<u>28,507,854</u>	<u>27,590,319</u>	<u>28,476,543</u>
<b>Total liabilities and equity</b>		<u>62,701,574</u>	<u>64,938,069</u>	<u>61,228,009</u>	<u>64,356,034</u>

See accompanying notes to financial statements.



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**STATEMENTS OF CHANGES IN EQUITY**  
**Year ended 31 March 2022**

	Capital account	Share capital	Accumulated surplus General funds	Restricted funds	Total
	\$	\$	\$	\$	\$
<u>Group</u>					
Balance as at 1 April 2020	2,979,983	9,989,432	7,653,134	7,929,305	28,551,854
Issuance of share capital	-	749	-	-	749
Total comprehensive (loss)/income	-	-	(319,864)	275,115	(44,749)
Balance as at 31 March 2021	2,979,983	9,990,181	7,333,270	8,204,420	28,507,854
Issuance of share capital	-	498,222	-	-	498,222
Total comprehensive loss	-	-	(586,252)	(217,866)	(804,118)
Balance as at 31 March 2022	<u>2,979,983</u>	<u>10,488,403</u>	<u>6,747,018</u>	<u>7,986,554</u>	<u>28,201,958</u>
<u>Board</u>					
Balance as at 1 April 2020	2,979,983	9,989,432	7,866,072	7,760,289	28,595,776
Issuance of share capital	-	749	-	-	749
Total comprehensive (loss)/income	-	-	(395,097)	275,115	(119,982)
Balance as at 31 March 2021	2,979,983	9,990,181	7,470,975	8,035,404	28,476,543
Issuance of share capital	-	498,222	-	-	498,222
Total comprehensive loss	-	-	(1,166,580)	(217,866)	(1,384,446)
Balance as at 31 March 2022	<u>2,979,983</u>	<u>10,488,403</u>	<u>6,304,395</u>	<u>7,817,538</u>	<u>27,590,319</u>

See accompanying notes to financial statements.

**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**CONSOLIDATED STATEMENT OF CASH FLOWS**  
**Year ended 31 March 2022**

	Note	2022 \$	2021 \$
<b>Operating activities</b>			
Deficit before grants		(36,474,586)	(32,612,520)
Adjustments for:			
Depreciation	14	3,143,380	3,461,434
Loss on disposal of property, plant and equipment	7	-	1,050
Write-down of inventories		59,262	135,676
Donations and sponsorship	4	(2,421,577)	(1,560,726)
Changes in fair value of financial asset at fair value through profit or loss	5	71,154	(539,744)
Loss on redemption of corporate quoted bond	5	-	18,000
Interest income	4	(64,635)	(355,383)
Operating loss before working capital changes		(35,687,002)	(31,452,213)
Change in working capital:			
Inventories		2,439	50,408
Trade and other receivables		(428,769)	(46,106)
Trade and other payables		771,729	91,113
Cash used in operations		(35,341,603)	(31,356,798)
Income tax refunded		3,828	4,235
Net cash used in operating activities		(35,337,775)	(31,352,563)
<b>Investing activities</b>			
Purchases of property, plant and equipment		(2,136,563)	(1,352,752)
Redemption of quoted corporate bond		-	1,000,000
Purchase of financial assets, held to maturity		(1,000,000)	-
Interest received		64,635	355,383
Net cash (used in) from investing activities		(3,071,928)	2,631
<b>Financing activities</b>			
Government grants received		32,965,809	37,860,586
Sponsorship received		975,627	1,631,382
Other government grants received		254,171	894,548
Excess other government grants refunded		-	(660,520)
Issuance of share capital		498,222	749
Dividends paid		-	-
Net cash from financing activities		34,693,829	39,726,745
Net (decrease) increase in cash and cash equivalents		(3,715,874)	8,376,813
Cash and cash equivalents at beginning of financial year		30,456,374	22,079,561
Cash and cash equivalents at end of financial year	9	<u>26,740,500</u>	<u>30,456,374</u>

See accompanying notes to financial statements



## SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

### NOTES TO THE FINANCIAL STATEMENTS 31 March 2022

#### 1. GENERAL

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 in the form of magazines and guidebooks;
- (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 are presented in Singapore dollars, which is the Group's functional currency.

These financial statements of the Board for the year ended 31 March 2022 were authorised for issue by the Board on 21 June 2022.

#### 2. SIGNIFICANT ACCOUNTING POLICIES

##### 2.1 Basis of preparation

The financial statements are prepared in accordance with the historical cost basis, except as disclosed in the accounting policies below, 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.

Historical cost is generally based on the fair value of the consideration given in exchange for goods and services.

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.

## SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

### NOTES TO THE FINANCIAL STATEMENTS 31 March 2022

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 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 effective from that date and relevant to its operations. The adoption of these Standards do not result in changes to the Group's accounting policies and has no material effect on the amounts reported for the current or prior years.

##### 2.3 Standards issued but not yet effective

Management has considered and is of the view that the adoption of relevant new/revised SB-FRSs/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.

##### 2.4 Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Board and entities controlled by the Board (its subsidiary). Control is achieved when the Board:

- Has power over the investee;
- Is exposed, or has rights, to variable returns from its involvement with the investee; and
- Has the ability to use its power to affect its returns.

The Board reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

When the Board has less than a majority of the voting rights of an investee, it has power over the investee when the voting rights are sufficient to give it the practical ability to direct the relevant activities of the investee unilaterally. The Board considers all relevant facts and circumstances in assessing whether or not the Board’s voting rights in an investee are sufficient to give it power, including:

- The size of the Board’s holding of voting rights relative to the size and dispersion of holdings of the other vote holders;
- Potential voting rights held by the Board, other vote holders or other parties;
- Rights arising from other contractual arrangements; and
- Any additional facts and circumstances that indicate that the Board has, or does not have, the current ability to direct the relevant activities at the time that decisions need to be made, including voting patterns at previous shareholders’ meetings.

Consolidation of a subsidiary begins when the Board obtains control over the subsidiary and ceases when the Board loses control of the subsidiary. Specifically, income and expenses of a subsidiary acquired or disposed of during the year are included in the consolidated statement of comprehensive income from the date the Board gains control until the date when the Board ceases to control the subsidiary.

Income or expenditure and each component of other comprehensive income are attributed to the owners of the Board. Total comprehensive income of subsidiaries is attributed to the owners of the Board.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies in line with the Board’s accounting policies.

In the Board’s financial statements, investments in subsidiaries are carried at cost less accumulated impairment losses in the Board’s financial statements. On disposal of investments in subsidiaries, the difference between disposal proceeds and the carrying amounts of the investments are recognised in profit or loss.

2.5 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.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities are added to or deducted from the fair value of the financial assets and financial liabilities, as appropriate, on initial recognition.

Classification of financial assets

Debt instruments that meet the following conditions are subsequently measured at amortised cost:

- the financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows; and
- the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

By default, all other financial assets are subsequently measured at fair value through profit or loss (FVTPL).

*Amortised cost and effective interest method*

The effective interest method is a method of calculating the amortised cost of a debt instrument and of allocating interest income over the relevant period.

For financial assets, the effective interest rate is the rate that exactly discounts estimated future cash receipts (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) excluding expected credit losses, through the expected life of the debt instrument, or, where appropriate, a shorter period, to the gross carrying amount of the debt instrument on initial recognition.

The amortised cost of a financial asset is the amount at which the financial asset is measured at initial recognition minus the principal repayments, plus the cumulative amortisation using the effective interest method of any difference between that initial amount and the maturity amount, adjusted for any loss allowance. On the other hand, the gross carrying amount of a financial asset is the amortised cost of a financial asset before adjusting for any loss allowance.

Interest is recognised using the effective interest method for debt instruments measured subsequently at amortised cost, except for short-term balances when the effect of discounting is immaterial.

*Financial assets at FVTPL*

Financial assets that do not meet the criteria for being measured at amortised cost are measured at FVTPL.

Financial assets at FVTPL are measured at fair value as at each reporting date, with any fair value gains or losses recognised in profit or loss to the extent they are not part of a designated hedging relationship. The net gain or loss recognised in profit or loss is included in the “other (losses)/gains - net” line item (Note 5). Fair value is determined in the manner described in Note 11.

Impairment of financial assets

The Group recognises an allowance for expected credit losses (“ECLs”) for all debt instruments not held at FVTPL. ECLs are based on the difference between the contractual cash flows due in accordance with the contract and all the cash flows that the Group expects to receive, discounted at an approximation of the original effective interest rate. The expected cash flows will include cash flows from the sale of collateral held or other credit enhancements that are integral to the contractual terms.

ECLs are recognised in two stages. For credit exposures for which there has not been significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12-months (a 12-month ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is recognised for credit losses expected over the remaining life of the exposure, irrespective of timing of the default (a lifetime ECL).



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

For debtors, the Group applies a simplified approach in calculating ECLs. Therefore, the Group does not track changes in credit risk, but instead recognises a loss allowance based on lifetime ECLs at each reporting date. The ECL is based on its historical credit loss experience, adjusted for forward-looking factors specific to the debtors and the economic environment which could affect debtors' ability to pay.

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.

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.

On derecognition, any difference between the carrying amount and the sum of proceeds received is recognised in the profit or loss.

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.

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.

Trade and other payables

Trade and other payables are initially measured at fair value and subsequently measured at amortised cost, using the effective interest method, except for short-term balances when the effect of discounting is immaterial.

Derecognition of financial liabilities

The Group derecognises financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

2.6 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 2.9.

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.

2.7 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.

2.8 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



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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.

Management has received the notification from Ministry of Finance to proceed with the next stage of development of the New Science Centre in January 2022. Hence, management has assessed that they should commence accelerated depreciation of relevant Property, Plant and Equipment from FY2022 onwards.

2.9 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.

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.

2.10 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.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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.

2.11 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.

(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.



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

(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.
	<i>Other income</i>
(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.
(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.
2.12	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.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

	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.
2.13	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.
2.14	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.
2.15	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.



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

2.16 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.

2.17 Income taxes

Income tax for the financial year comprises current and deferred tax.

Current tax is the expected tax payable on the taxable income for the year, using tax rates (and tax laws) enacted or substantively enacted at the end of the reporting period, and any adjustment to tax payable in respect of previous years.

Deferred tax is recognised, using the balance sheet method, providing for all temporary differences at the end of the reporting period between the tax bases of assets and liabilities and their carrying amounts in the financial statements. Deferred tax is measured at the tax rates that are expected to be applied to the temporary differences when they reverse, based on the tax rates (and tax laws) that have been enacted or substantively enacted at the end of the reporting period.

Deferred tax liabilities are recognised on taxable temporary differences arising on investments in subsidiaries, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments are only recognised to the extent that it is probable that there will be sufficient taxable profits against which to utilise the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of 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.

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.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to set off current tax assets against current tax liabilities and when they relate to income taxes levied by the same taxation authority and the Group intends to settle its current tax assets and liabilities on a net basis.

Current and deferred tax are recognised as an expense or income in profit or loss.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

2.18 Foreign currency transactions

In preparing the financial statements, transactions in currencies other than the Group’s functional currency are recorded at the rate of exchange prevailing on the date of the transaction. As at each reporting date, monetary items denominated in foreign currencies are retranslated at the rates prevailing at the end of the reporting period.

Exchange differences arising on the settlement of monetary items, and on retranslation of monetary items are included in profit or loss for the period.

2.19 Cash and cash equivalents

Cash and cash equivalents in the statement of cash flows comprise cash at bank and on hand, deposits with financial institutions and cash held by Accountant-General’s Department, which are subject to an insignificant risk of changes in value.

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.

2.20 Share capital

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

2.21 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.

2.22 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.



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

3. CRITICAL ACCOUNTING JUDGEMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Board's accounting policies, which are described in Note 2, management is required to make judgements, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

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

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	
	2022	2021	2022	2021
	\$	\$	\$	\$
Donations and sponsorship	2,421,577	1,560,726	2,421,577	1,560,726
Rental income	530,028	270,417	542,086	243,840
Interest income	64,635	355,383	64,635	355,383
Management fee	382,648	899,600	746,128	1,092,560
Others	885,168	381,479	24,054	19,970
	<u>4,284,056</u>	<u>3,467,605</u>	<u>3,798,480</u>	<u>3,272,479</u>

5. OTHER (LOSSES)/GAINS - NET

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Fair value changes on financial asset at FVTPL	(71,154)	539,744	(71,154)	539,744
Loss on redemption of corporate quoted bond	-	(18,000)	-	(18,000)
Impairment loss on investment in subsidiary	-	-	-	(100,000)
Net currency translation gains/(losses)	19	(53)	19	17
	<u>(71,135)</u>	<u>521,691</u>	<u>(71,135)</u>	<u>421,761</u>

6. EMPLOYEE COMPENSATION

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Wages and salaries	21,122,393	18,230,830	20,456,431	17,562,385
Employer's contribution to Central Provident Fund	3,041,428	2,685,864	2,922,044	2,572,905
Other staff benefits	376,371	305,845	375,442	304,785
	<u>24,540,192</u>	<u>21,222,539</u>	<u>23,753,917</u>	<u>20,440,075</u>

**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

7. OTHER EXPENDITURE

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Professional, consultancy and other fees	760,678	702,841	660,502	599,682
Cost of merchandise and publications	556,967	237,502	544,442	219,274
Printing, stationery and office supplies	66,681	63,759	56,844	55,045
Rental of equipment and venue and lease fees of films	277,022	236,686	243,410	51,981
Postage, telephone and courier charges	68,234	66,272	60,619	60,085
Loss on disposal of property, plant and equipment	-	1,050	-	1,050
Transport and travelling expenses	107,249	45,898	105,223	36,689
Refreshment and entertainment expenses	28,288	27,518	28,055	26,756
Property tax	89,158	2,090	89,158	2,090
GST input tax (non-claimable)	1,092,990	814,266	1,092,990	814,266
Others	210,674	361,815	65,491	67,424
	<u>3,257,941</u>	<u>2,559,697</u>	<u>2,946,734</u>	<u>1,934,342</u>

8. INCOME TAX CREDIT

	Group	
	2022	2021
	\$	\$
Current income tax credit	<u>(3,828)</u>	<u>(4,235)</u>

The income tax credit varied from the amount of income tax credit determined by applying the Singapore tax rate of 17% (2021 : 17%) to deficit before tax as a result of the following differences:

	Group	
	2022	2021
	\$	\$
Deficit before tax	<u>(807,946)</u>	<u>(48,984)</u>
Tax credit calculated at a tax rate of 17% (2021 : 17%)	(137,351)	(8,327)
Effects of:		
- Deficit of the Board exempted from tax	235,356	20,397
- Expenses not deductible for tax purposes	13,439	25,594
- Income not subject to tax	(42,611)	(38,221)
- Utilisation of previously unrecognised deductible temporary differences	(8,360)	(20,263)
- Overprovision in preceding financial years	-	(4,235)
- Others	(64,301)	20,820
Income tax credit	<u>(3,828)</u>	<u>(4,235)</u>



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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

Deferred income tax assets are recognised for tax losses and capital allowances carried forward only to the extent that realisation of the related tax benefits through the future taxable profits is probable. Deferred tax assets have not been recognised in respect of tax losses and deductible temporary difference amounting to approximately \$664,223 (2021 : \$922,614) and \$43,998 (2021 : \$100,141), respectively, because it is not probable that future taxable profit will be available against which the Group can use the benefits therefrom.

9. CASH AND CASH EQUIVALENTS

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Deposits held with AGD	14,457,077	24,371,199	14,457,077	24,371,199
Cash at bank and on hand	12,283,423	6,085,175	10,249,897	5,008,579
Short term bank deposits	2,000,000	2,000,000	2,000,000	2,000,000
	<u>28,740,500</u>	<u>32,456,374</u>	<u>26,706,974</u>	<u>31,379,778</u>

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

	2022	2021
	\$	\$
Cash and cash equivalents (as above)	28,740,500	32,456,374
Less: Short term bank deposits with maturity of more than 3 months	<u>(2,000,000)</u>	<u>(2,000,000)</u>
Cash and cash equivalents per consolidated cash flow statement	<u>26,740,500</u>	<u>30,456,374</u>

Short term bank deposits at the balance sheet date bear average effective interest rate of 0.21% to 0.60% (2021 : 0.20% to 1.65%) and have a tenure of 6 to 12 months (2021 : 6 to 12 months).

Deposits held with the Accountant-General's Department ("AGD") earn interest based on fixed deposit rates determined by financial institutions with which AGD deposits the monies.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

10. TRADE AND OTHER RECEIVABLES

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Trade receivables:				
- subsidiaries	-	-	479,537	415,690
- related parties	369,118	112,051	369,118	112,051
- external parties	<u>203,604</u>	<u>317,037</u>	<u>175,780</u>	<u>206,349</u>
Trade receivables - net	572,722	429,088	1,024,435	734,090
Other receivables from subsidiaries	-	-	-	15
Sponsorship receivables	586,624	21,390	586,624	21,390
Other government grants receivable (see below)	1,563,829	938,781	1,563,829	938,781
Government grant receivable	352,300	306,811	352,300	306,811
Deposits	97,353	16,438	1,000	1,000
Prepayments	330,245	249,149	272,714	244,932
Other receivables	<u>218,716</u>	<u>141,081</u>	<u>218,288</u>	<u>138,870</u>
	<u>3,721,789</u>	<u>2,102,738</u>	<u>4,019,190</u>	<u>2,385,889</u>

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

Other government grants

	Group and Board	
	2022	2021
	\$	\$
Other government grants receivable	1,563,829	938,781
Other government grants received in advance	<u>(945,085)</u>	<u>(849,634)</u>
	<u>618,744</u>	<u>89,147</u>

11. FINANCIAL ASSET AT FAIR VALUE THROUGH PROFIT OR LOSS

	Group and Board	
	2022	2021
	\$	\$
Fullerton Conservative Balanced Fund ("Fullerton Fund")	<u>5,984,924</u>	<u>5,056,078</u>

The Fullerton Fund has a nominal value amounting to \$4,900,000 (2021 : \$3,900,000). There was an increase in investment of \$1,000,000 (2021 : \$Nil) in the current year.

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.

Changes in the fair value of the financial asset at fair value through profit or loss amounting to a loss of \$71,154 (2021 : gain of \$539,744) have been included in the statement of comprehensive income for the year.



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

12. INVENTORIES

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Finished goods	104,192	165,893	24,967	42,579

Inventories comprised finished goods held at cost for resale purposes.

The cost of inventories recognised as an expense and included in "Other expenditure" amounts to \$556,967 (2021 : \$237,502) for the Group and \$544,442 (2021 : \$219,274) for the Board.

At 31 March 2022, the write-down of inventories to net realisable value by the Group and Board amounted to \$59,262 (2021 : \$135,676) and \$129 (2021 : \$38) respectively.

13. INVESTMENTS IN SUBSIDIARIES

	Board	
	2022	2021
	\$	\$
Unquoted equity investments at cost	1,760,002	1,760,002
Less: Accumulated impairment loss	(1,100,000)	(1,100,000)
Net carrying amount	660,002	660,002

During the financial year, the Board recognised an impairment loss of \$Nil (2021 : \$100,000) of its investment in Singapore Science Centre Global Pte Ltd as the recoverable amount of the investment is less than the carrying amount.

Details of the subsidiaries are as follows:

Name of companies	Principal activities	Country of business/ incorporation	Proportion of ownership and voting power held	
			2022 %	2021 %
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
<u>Held by SSCG</u>				
Snow Venture Pte Ltd	Proprietor and operator of entertainment centre.	Singapore	100	100



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022**

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 2020	3,754,976	42,743,446	28,135,071	15,301,386	16,523	444,932	4,036,853	94,433,187
Additions	-	-	30,920	127,159	-	-	1,194,673	1,352,752
Disposals	-	-	-	(137,758)	-	-	-	(137,758)
Reclassifications	-	-	-	-	-	-	-	-
At 31 March 2021	3,754,976	42,743,446	28,165,991	15,290,787	16,523	444,932	5,231,526	95,648,181
Additions	-	-	755,968	547,646	-	-	832,949	2,136,563
Disposals	-	(90,836)	(1,308,509)	(2,648,277)	-	-	-	(4,047,622)
Reclassifications	-	-	99,831	74,822	-	-	(174,653)	-
At 31 March 2022	3,754,976	42,652,610	27,713,281	13,264,978	16,523	444,932	5,889,822	93,737,122
Accumulated depreciation:								
At 1 April 2020	1,393,270	29,798,473	22,772,622	12,740,649	16,523	444,932	-	67,166,469
Depreciation charge	36,377	1,061,664	1,445,245	918,148	-	-	-	3,461,434
Disposals	-	-	-	(136,708)	-	-	-	(136,708)
At 31 March 2021	1,429,647	30,860,137	24,217,867	13,522,089	16,523	444,932	-	70,491,195
Depreciation charge	36,375	1,060,625	1,395,844	650,536	-	-	-	3,143,380
Disposals	-	(90,836)	(1,308,509)	(2,648,277)	-	-	-	(4,047,622)
At 31 March 2022	1,466,022	31,829,926	24,305,202	11,524,348	16,523	444,932	-	69,586,953
Carrying amount:								
At 31 March 2022	2,288,954	10,822,684	3,408,079	1,740,630	-	-	5,889,822	24,150,169
At 31 March 2021	2,325,329	11,883,309	3,948,124	1,768,698	-	-	5,231,526	25,156,986



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022**

Board

	Leasehold land*	Buildings	Leasehold improvements	Furniture and office equipment	Motor vehicles	OMNIMAX films	Assets under construction	Total
	\$	\$	\$	\$	\$	\$	\$	\$
Cost:								
At 1 April 2020	3,754,976	41,478,610	26,707,875	14,537,744	16,523	444,932	4,036,853	90,977,513
Additions	-	-	-	76,249	-	-	1,194,673	1,270,922
Disposals	-	-	-	(137,758)	-	-	-	(137,758)
Transfers	-	-	-	-	-	-	-	-
At 31 March 2021	3,754,976	41,478,610	26,707,875	14,476,235	16,523	444,932	5,231,526	92,110,677
Additions	-	-	603,518	538,137	-	-	832,949	1,974,604
Disposals	-	-	-	(2,537,746)	-	-	-	(2,537,746)
Transfers	-	-	99,831	74,822	-	-	(174,653)	-
At 31 March 2022	3,754,976	41,478,610	27,411,224	12,551,448	16,523	444,932	5,889,822	91,547,535
Accumulated depreciation:								
At 1 April 2020	1,393,270	28,533,672	21,528,002	12,299,701	16,523	444,932	-	64,216,100
Depreciation charge	36,377	1,060,134	1,306,226	796,840	-	-	-	3,199,577
Disposals	-	-	-	(136,708)	-	-	-	(136,708)
At 31 March 2021	1,429,647	29,593,806	22,834,228	12,959,833	16,523	444,932	-	67,278,969
Depreciation charge	36,375	1,060,135	1,333,108	544,742	-	-	-	2,974,360
Disposals	-	-	-	(2,537,746)	-	-	-	(2,537,746)
At 31 March 2022	1,466,022	30,653,941	24,167,336	10,966,829	16,523	444,932	-	67,715,583
Carrying amount:								
At 31 March 2022	2,288,954	10,824,669	3,243,888	1,584,619	-	-	5,889,822	23,831,952
At 31 March 2021	2,325,329	11,884,804	3,873,647	1,516,402	-	-	5,231,526	24,831,708

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



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

15. GOVERNMENT GRANTS RECEIVED IN ADVANCE

	Group and Board	
	2022	2021
	\$	\$
Beginning of financial year	15,096,443	7,385,183
Add: Grants received during the year	32,965,809	37,860,586
Less: Amount transferred to deferred capital grants (Note 19)	(1,013,022)	-
Less: Amount recognised in profit or loss	(33,620,296)	(30,149,326)
End of financial year	<u>13,428,934</u>	<u>15,096,443</u>

16. SPONSORSHIP RECEIVED IN ADVANCE

	Group and Board	
	2022	2021
	\$	\$
Beginning of financial year	2,613,155	2,592,241
Add: Sponsorship granted during the year	771,932	1,550,973
Less: Amount transferred to deferred capital grants (Note 19)	-	(5,740)
Less: Amount recognised in profit or loss	(1,652,648)	(1,524,319)
End of financial year	<u>1,732,439</u>	<u>2,613,155</u>

17. TRADE AND OTHER PAYABLES

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Trade payables to:				
- external parties	1,326,801	736,550	1,100,983	521,524
- related parties	152,709	145,511	152,709	145,511
- subsidiaries	-	-	1,926	26,222
	<u>1,479,510</u>	<u>882,061</u>	<u>1,255,618</u>	<u>693,257</u>
Other payables to:				
- non-related parties	150,415	1,019,619	152,442	1,017,818
- other government agency	161,608	92,650	167,789	69,738
- subsidiaries	-	-	9,662	14,023
Deposits received	135,156	138,524	137,600	138,441
Deferred income	660,155	322,452	146,244	99,898
Other accruals for operating expenses	<u>3,110,849</u>	<u>2,470,658</u>	<u>3,032,968</u>	<u>2,391,680</u>
	<u>5,697,693</u>	<u>4,925,964</u>	<u>4,902,323</u>	<u>4,424,855</u>

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

18. DEFERRED INCOME TAX LIABILITIES

	Group	
	2022	2021
	\$	\$
Beginning and end of financial year	<u>37,150</u>	<u>37,150</u>

The movement in deferred income tax liabilities pertains to accelerated tax depreciation.

**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

19. DEFERRED CAPITAL GRANTS

	Government		Others		Total	
	2022	2021	2022	2021	2022	2021
	\$	\$	\$	\$	\$	\$
Beginning of financial year	12,796,603	13,842,386	111,266	319,760	12,907,869	14,162,146
Add: Transferred from						
- government grants (Note 15)	624,094	-	388,928	-	1,013,022	-
- other government grants (Note 10)	-	-	32,560	-	32,560	-
- sponsorship (Note 16)	-	-	-	5,740	-	5,740
Less: Amount recognised in profit or loss	(1,109,460)	(1,045,783)	(185,676)	(214,234)	(1,295,136)	(1,260,017)
End of financial year	<u>12,311,237</u>	<u>12,796,603</u>	<u>347,078</u>	<u>111,266</u>	<u>12,658,315</u>	<u>12,907,869</u>
Total deferred capital grants received (included in government grants received) since inception of the Board	<u>75,162,953</u>	<u>74,538,859</u>	<u>14,719,608</u>	<u>14,298,120</u>	<u>89,882,561</u>	<u>88,836,979</u>

Board

	Government		Others		Total	
	2022	2021	2022	2021	2022	2021
	\$	\$	\$	\$	\$	\$
Beginning of financial year	12,829,133	13,874,916	66,271	253,634	12,895,404	14,128,550
Add: Transferred from						
- government grants (Note 15)	624,094	-	388,928	-	1,013,022	-
- sponsorship (Note 16)	-	-	-	5,740	-	5,740
Less: Amount recognised in profit or loss	(1,109,460)	(1,045,783)	(170,057)	(193,103)	(1,279,517)	(1,238,886)
End of financial year	<u>12,343,767</u>	<u>12,829,133</u>	<u>285,142</u>	<u>66,271</u>	<u>12,628,909</u>	<u>12,895,404</u>
Total deferred capital grants received (included in government grants received) since inception of the Board	<u>75,162,953</u>	<u>74,538,859</u>	<u>14,493,105</u>	<u>14,104,177</u>	<u>89,656,058</u>	<u>88,643,036</u>



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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	
	2022	2021
	\$	\$
Beginning of financial year	9,990,181	9,989,432
Issue of new shares	498,222	749
End of financial year	10,488,403	9,990,181

In the current financial year, 498,222 (2021 : 749) ordinary shares were issued for a total consideration of \$498,222 (2021 : \$749) 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.

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 2022

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
		\$	\$	\$
<b>2022</b>				
<b>Income</b>				
Donation and sponsorship		2,421,577	-	2,421,577
Interest income		4,163	7,494	11,657
Other gains/(losses) - net		19	(71,154)	(71,135)
		2,425,759	(63,660)	2,362,099
<b>Expenses</b>				
Employee compensation	(a)	122,248	23,891	146,139
Materials for exhibits and projects		1,998,193	-	1,998,193
Repairs and maintenance		16,456	-	16,456
Publicity and promotions		95,564	-	95,564
Depreciation	(e)	11,725	-	11,725
Other expenses	(b)	318,089	3,120	321,209
		2,562,275	27,011	2,589,286
		(136,516)	(90,671)	(227,187)
Deferred capital grants amortised	(g)	9,321	-	9,321
<b>Deficit for the financial year, representing total comprehensive loss for the financial year</b>		(127,195)	(90,671)	(217,866)
Accumulated (deficit)/surplus brought forward		(166,194)	8,201,598	8,035,404
Accumulated (deficit)/surplus carried forward		(293,389)	8,110,927	7,817,538
<b>2021</b>				
<b>Income</b>				
Donation and sponsorship		1,560,726	-	1,560,726
Interest income		7,115	27,413	34,528
Other gains - net		-	521,744	521,744
		1,567,841	549,157	2,116,998
<b>Expenses</b>				
Employee compensation	(a)	57,853	-	57,853
Materials for exhibits and projects		1,625,101	-	1,625,101
Repairs and maintenance		38,036	-	38,036
Publicity and promotions		25,089	-	25,089
Depreciation	(e)	9,527	-	9,527
Other expenses	(b)	92,784	3,020	95,804
		1,848,390	3,020	1,851,410
		(280,549)	546,137	265,588
Deferred capital grants amortised	(g)	9,527	-	9,527
<b>(Deficit)/Surplus for the financial year, representing total comprehensive (loss)/income for the financial year</b>		(271,022)	546,137	275,115
Accumulated surplus brought forward		104,828	7,655,461	7,760,289
Accumulated (deficit)/surplus carried forward		(166,194)	8,201,598	8,035,404



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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>
		\$	\$	\$
<u>2022</u>				
<b>ASSETS</b>				
<b>Current assets</b>				
Cash and cash equivalents	(c)	979,786	2,148,292	3,128,078
Trade and other receivables	(d)	119,926	1,602	121,528
Sponsorship receivable (Note 10)		586,624	-	586,624
Financial asset at FVTPL (Note 11)		-	5,984,924	5,984,924
		<u>1,686,336</u>	<u>8,134,818</u>	<u>9,821,154</u>
<b>Non-current asset</b>				
Property, plant and equipment	(e)	<u>28,548</u>	<u>-</u>	<u>28,548</u>
<b>Total assets</b>		<u>1,714,884</u>	<u>8,134,818</u>	<u>9,849,702</u>
<b>LIABILITIES</b>				
<b>Current liabilities</b>				
Trade and other payables	(f)	262,491	23,891	286,382
Sponsorship received in advance (Note 16)		<u>1,732,439</u>	<u>-</u>	<u>1,732,439</u>
		<u>1,994,930</u>	<u>23,891</u>	<u>2,018,821</u>
<b>Non-current liabilities</b>				
Deferred capital grants	(g)	<u>13,343</u>	<u>-</u>	<u>13,343</u>
<b>Total liabilities</b>		<u>2,008,273</u>	<u>23,891</u>	<u>2,032,164</u>
<b>NET (LIABILITIES)/ASSETS</b>		<u>(293,389)</u>	<u>8,110,927</u>	<u>7,817,538</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 \$92,350 (2021 : \$396,147) in the current financial year.

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

<u>Board</u>	<u>Note</u>	<u>Sponsorship</u>	<u>Endowment</u>	<u>Total</u>
		\$	\$	\$
<u>2021</u>				
<b>ASSETS</b>				
<b>Current assets</b>				
Cash and cash equivalents	(c)	2,556,155	3,148,804	5,704,959
Trade and other receivables	(d)	36,822	2,716	39,538
Sponsorship receivable (Note 10)		21,390	-	21,390
Financial asset at FVTPL (Note 11)		-	5,056,078	5,056,078
		<u>2,614,367</u>	<u>8,207,598</u>	<u>10,821,965</u>
<b>Non-current asset</b>				
Property, plant and equipment	(e)	<u>22,665</u>	<u>-</u>	<u>22,665</u>
<b>Total assets</b>		<u>2,637,032</u>	<u>8,207,598</u>	<u>10,844,630</u>
<b>LIABILITIES</b>				
<b>Current liabilities</b>				
Trade and other payables	(f)	167,407	6,000	173,407
Sponsorship received in advance (Note 16)		<u>2,613,155</u>	<u>-</u>	<u>2,613,155</u>
		<u>2,780,562</u>	<u>6,000</u>	<u>2,786,562</u>
<b>Non-current liabilities</b>				
Deferred capital grants	(g)	<u>22,664</u>	<u>-</u>	<u>22,664</u>
<b>Total liabilities</b>		<u>2,803,226</u>	<u>6,000</u>	<u>2,809,226</u>
<b>NET (LIABILITIES)/ASSETS</b>		<u>(166,194)</u>	<u>8,201,598</u>	<u>8,035,404</u>

Notes

(a) Employee compensation

	<u>Sponsorship</u>		<u>Endowment</u>	
	<u>2022</u>	<u>2021</u>	<u>2022</u>	<u>2021</u>
	\$	\$	\$	\$
Wages and salaries	113,637	51,497	-	-
Employer's contribution to Central Provident Fund	8,111	3,852	-	-
Other staff benefits	500	2,504	23,891	-
	<u>122,248</u>	<u>57,853</u>	<u>23,891</u>	<u>-</u>



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

(b) Other expenses

	Sponsorship		Endowment	
	2022	2021	2022	2021
	\$	\$	\$	\$
Professional, consultancy and other fees	140,820	46,612	3,000	3,000
Printing, stationery and office supplies	7,226	7,638	-	-
Rental of equipment, venue and facilities	106,726	4,800	-	-
Postage, telephone and courier charges	17,654	4,308	-	-
Transport and travelling expenses	11,964	7,900	-	-
Refreshment and entertainment	17,858	11,812	-	-
Others	15,841	9,714	120	20
	<u>318,089</u>	<u>92,784</u>	<u>3,120</u>	<u>3,020</u>

(c) Cash and cash equivalents

	Sponsorship		Endowment	
	2022	2021	2022	2021
	\$	\$	\$	\$
Cash at bank and in hand	979,786	2,556,155	148,292	1,148,804
Short-term bank deposits	-	-	2,000,000	2,000,000
	<u>979,786</u>	<u>2,556,155</u>	<u>2,148,292</u>	<u>3,148,804</u>

(d) Trade and other receivables

	Sponsorship		Endowment	
	2022	2021	2022	2021
	\$	\$	\$	\$
Trade receivables	7,798	1,916	-	-
Other receivables due from Science Centre Board	112,128	34,906	-	-
Other receivables	-	-	1,602	2,716
	<u>119,926</u>	<u>36,822</u>	<u>1,602</u>	<u>2,716</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 2022**

(e) Property, plant and equipment

	Sponsorship		Leasehold improvements	Furniture equipment	Total
	2022	2021	\$	\$	\$
Cost:					
At 1 April 2020			210,000	69,163	279,163
Additions			-	5,741	5,741
Disposals			-	(13,300)	(13,300)
At 31 March 2021			210,000	61,604	271,604
Additions			-	17,608	17,608
At 31 March 2022			<u>210,000</u>	<u>79,212</u>	<u>289,212</u>
Accumulated depreciation:					
At 1 April 2020			210,000	42,712	252,712
Depreciation charge			-	9,527	9,527
Disposals			-	(13,300)	(13,300)
At 31 March 2021			210,000	38,939	248,939
Depreciation charge			-	11,725	11,725
At 31 March 2022			<u>210,000</u>	<u>50,664</u>	<u>260,664</u>
Carrying amount:					
At 31 March 2022			<u>-</u>	<u>28,548</u>	<u>28,548</u>
At 31 March 2021			<u>-</u>	<u>22,665</u>	<u>22,665</u>

(f) Trade and other payables

	Sponsorship		Endowment	
	2022	2021	2022	2021
	\$	\$	\$	\$
Trade payables	132,137	135,190	-	-
Accrued operating expenses	110,884	20,817	-	3,000
Other payables due to Science Centre Board	-	-	23,891	3,000
Other payables to other government agency	19,470	11,400	-	-
	<u>262,491</u>	<u>167,407</u>	<u>23,891</u>	<u>6,000</u>

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

(g) Deferred capital grants

	Sponsorship	
	2022	2021
	\$	\$
Beginning of financial year	22,664	26,451
Add: Transferred from sponsorship (Note 16)	-	5,740
Less: Amount recognised in profit or loss	(9,321)	(9,527)
End of financial year	<u>13,343</u>	<u>22,664</u>



SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

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.

*Disclosure required by SB-FRS 116*

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	
	2022	2021	2022	2021
	\$	\$	\$	\$
Year 1	344,513	342,859	305,513	304,859
Year 2	50,051	159,101	50,051	159,101
	394,564	501,960	355,564	463,960

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	
	2022	2021	2022	2021
	\$	\$	\$	\$
Financial assets, at amortised cost	32,132,044	34,309,963	30,453,450	33,520,735
Financial assets, at FVTPL	5,984,924	5,056,078	5,984,924	5,056,078
	38,116,968	39,366,041	36,438,374	38,576,813
Financial liabilities, at amortised cost	(5,037,538)	(4,603,512)	(4,756,079)	(4,324,957)

SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES

NOTES TO THE FINANCIAL STATEMENTS  
31 March 2022

**(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 \$299,246 (2021 : \$252,804). An equal change in the opposite direction would have decrease net surplus by \$299,246 (2021 : \$252,804).

*(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 high credit quality financial institution 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 2022

(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	
	2022	2021	2022	2021
	\$	\$	\$	\$
Current	543,681	319,633	752,043	426,664
Past due 0 to 2 months	28,720	71,699	50,463	78,554
Past due over 2 months	321	37,756	221,929	228,872
	<u>572,722</u>	<u>429,088</u>	<u>1,024,435</u>	<u>734,090</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 2022 and 2021 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 2022

(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.

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	
	2022	2021
	\$	\$
Admission fees/ Proceeds from special projects/ Fees from courses and programmes/ Sales of merchandise and publications from government schools	<u>353,507</u>	<u>285,240</u>

(b) Key management personnel compensation

Key management personnel compensation is as follows:

	Group		Board	
	2022	2021	2022	2021
	\$	\$	\$	\$
Wages and salaries	1,271,027	1,125,206	1,120,688	984,850
Post-employment benefits: - contributions to CPF	<u>60,704</u>	<u>63,649</u>	<u>49,710</u>	<u>51,693</u>
	<u>1,331,731</u>	<u>1,188,855</u>	<u>1,170,398</u>	<u>1,036,543</u>



**SCIENCE CENTRE BOARD AND ITS SUBSIDIARIES**

**NOTES TO THE FINANCIAL STATEMENTS**  
**31 March 2022**

26. EVENTS AFTER REPORTING PERIOD

Subsequent to the Board receiving the notification from the Ministry of Finance to proceed with the next stage of development of the New Science Centre, management will commence accelerated depreciation of relevant property, plant and equipment from 1 April 2022 onwards till the estimated completion date of the New Science Centre.



# THANK YOU!



Science Centre Singapore Group of Attractions

