

# EQUAL OPPORTUNITIES IN SCIENCE



# REPORT SCIENCE FILM FESTIVAL 2022



Embassy of the  
Federal Republic of Germany  
Jakarta



universitas  
paramadina



Goethe-Institut  
INDONESIEN





# SCIENCE FILM FESTIVAL 2022

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It has now been nearly three years into the pandemic. Despite this difficult situation, Goethe-Institut Indonesien is committed to organize the Science Film Festival in Indonesia. Returning in 2022 better prepared and equipped with lessons learned from its edition in last year, this year's Science Film Festival adopted the hybrid format. While some venues invited audiences on-site to watch films hosted remotely by the team from the Goethe-Institut Indonesien office with a video conference platform, some venues also held the festival on-site. Audiences in a total of 55 cities were treated to 17 selected international films and had the chance to join fun science experiments led by 20 students from Atma Jaya Catholic University of Indonesia, State University of Jakarta and Paramadina University. The festival recorded 66.533 viewers this year.

With the support of our dedicated partners, the festival was held for audiences in Jakarta, Aceh, Ambon, Bintuni, Bogor, Bolaang Mongondow, Bombana, Bondowoso, Bangkalan, Bandung, Denpasar, Depok, Fakfak, Flores Timur, Humbang Hasundutan, Indramayu, Jayapura, Jombang, Kendari, Kupang, Labuan Bajo, Makassar, Malang, Manado, Mataram, Maumere, Medan, Mojokerto, Pekanbaru, Pematang Siantar, Pontianak, Rote, Salatiga, Samarinda, Sidoarjo, Simalungun, Semarang, Soe, Surabaya, Sorong, Tangerang, Tapanuli Tengah & Utara, Tasikmalaya, Temanggung, Tentena, Toba Samosir, Tobelo, Tolitoli, Tomohon, Toraja, Tambolaka, Waikabubak, Waingapu, and Yogyakarta.



We would like to thank all participating parties for making the festival a full success in Indonesia and we look forward to continued cooperation in 2023.



# TOPIC OF THE YEAR

## *EQUAL OPPORTUNITIES IN SCIENCE*

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Equal opportunity is a state of fairness in which individuals are treated similarly, unhampered by artificial barriers or prejudices or preferences. Innovations resulting from science, technology, engineering and mathematics (STEM) fields have positively touched nearly every aspect of human life. Yet, even today, science can exacerbate the equality divide in subtle and more pervasive ways and the continued underrepresentation of minorities and women in the scientific enterprise represents a challenge to cultivate an adequate international scientific workforce.

The Science Film Festival 2022 is committed to increasing awareness on the issue of diversity and inclusiveness in STEM from underrepresented groups, in which studying and working in science is open to all and for the benefit of all sections of society.

In Indonesia, the festival started in 2010 in Jakarta only and then around the archipelago starting in 2011. The festival features films that communicate science and technology in an easy and entertaining way for children aged 9–14 years as well as a wider audience. Through this approach, the festival evokes a culture of science and technology films that effectively combine education and entertainment, demonstrating that communicating and learning about science and technology can be great fun.

The festival is a cultural and educational initiative in Indonesia. The participating films encourage scientific awareness in Indonesia and demonstrate that entertainment and learning can be fun, combined effectively through film and television media.





# PARTNERS AND SPONSORS OF THE FESTIVAL

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The 13<sup>th</sup> Science Film Festival in Indonesia was organized by the Goethe-Institut Indonesien in cooperation with Rolls-Royce; The Embassy of The Federal Republic of Germany; Initiative "Schulen: Partner der Zukunft" (PASCH); the Ministry of Education, Culture, Research, and Technology; Bildungskoooperation Deutsch (BKD); SEAMEO STEM-ED; Atma Jaya Catholic University of Indonesia; State University of Jakarta and Paramadina University.

The 13<sup>th</sup> Science Film Festival in Indonesia was also supported by many media and venue partners equally: Deutsche Welle Indonesia, Bobo, Alliance Française de Medan, Indonesia Science Center, Taman Pintar Yogyakarta, Pontianak Science and Linguistic Center, Sundial Science Center, PASCH schools, BKD schools, and other schools, institutions, as well as venue partners.

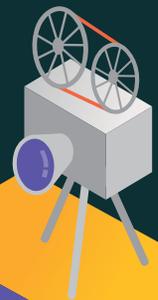




# THE OPENING CEREMONY & PRESS TALK

The Opening Ceremony & Press Talk was held on 18 October 2022 at GoetheHaus Jakarta. The seven speakers were Dr. Stefan Dreyer (the Regional Director of Goethe-Institut for Southeast Asia, Australia and New Zealand); Christoph Fischer (Head of Press & Cultural Affairs, Embassy of the Federal Republic of Germany); Dr. Hilmar Farid (Director General of Culture, the Ministry of Education, Culture, Research and Technology); Dr. Yohanes Eko Adi Prasetyantoko (Deputy Rector for Research and Cooperation of Atma Jaya Catholic University of Indonesia); Dr. Fatchiah E. Kertamuda, M.Sc, (Deputy Rector for Academic and Student Affairs of Paramadina University); Drs. Krisanjaya, M.Hum, (Deputy Dean II of the Faculty of Languages and Arts, State University of Jakarta); and Dr. Bicky Bhangu (President of Rolls-Royce Southeast Asia, Pacific and South Korea). Moderated by Elizabeth Soegiharto, the Science Film Festival Indonesia Manager, the discussion was about the necessity to raise awareness of equal opportunities in science, because there are significant disparities, particularly in STEM (science, technology, engineering, and mathematics).

After the Press Talk session, more than 250 guests joined the opening, which was hosted by Melissa Karim. One film was screened at the opening ceremony: *Nine-and-a-half - Your Reporters: Unimaginable! - What Thoughts Can Move* (Germany). After the screening, the team led experiment live on stage relating to the scientific topics addressed by the film. Children from the audience were then assisted by the volunteers and had great fun joining the experiment on stage.



# SCIENCE FILM FESTIVAL 2022

# SELECTION OF FILMS



The Science Film Festival presents a variety of films in the following categories: Family Edutainment, Non-Verbal & Science Shorts, Ecology & Environment, Natural Science, Life Science, and Technology, to serve all age groups, but with a particular focus on content for a young audience.

In 2022, the Science Film Festival received 174 films from 41 countries. A selection of 17 films from 10 countries was chosen by official Indonesian juries. All film screenings were accompanied by science activities, experiments and quizzes developed by scientist Bren Evangelista Julaton.



**House of Little Scientists - Bubbles**



**House of Little Scientists - Snails**



**Lakou Kajou - Reduce! Reuse! Recycle!**



**nine-and-a-half - Your Reporters: Life with a Prosthesis**



**Climate Facts**



**Renata's Problems - Fabricio, the Drone**



**nine-and-a-half - Your Reporters: What is Bionics?**



**Let's Make a Difference! - SMA Ignatius Global School Palembang**



**Operation Mhorr**



**Little Teaspoon of Sugar**



**Patient 4.0**



**Plastic Age - Forever?**



**Sci-PY Reporter: Every Child a Scientist**



**plan b: Finally Quiet - How Everyday Life Becomes Quieter**



**plan b: Playing Games, Collecting Points - How Games Help in Everyday Life**



**The Story: Electric Cars - How Environmentally-Friendly Are They Really?**

# SCIENCE FILM FESTIVAL 2022

# THE INDONESIAN JURIES



In each participating country, five local juries chose the films they consider most relevant and suitable for their own country.

The members of the Indonesian jury for 2022 are listed below.



## Prita Kusumaputri

**Journalist, Deutsche Welle Indonesia**

Prita Kusumaputri is currently a journalist at Deutsche Welle Indonesia. She also manages the @dw.nesia Instagram account, which shares various updates from Germany and Europe, Indonesian diaspora in Germany and Europe, as well as lifestyle in Germany and the intricacies of its language.

Having five years of journalism experience under her belt, Prita's past experience includes working as a reporter for NET MEDIATAMA and content writer in MRA Media Group. She is passionate in communications, digital media, research, facts and data, and layout design, which brings her to her professional work today.

Outside of her work, Prita has a strong concern in education. She is proud to be one of the judges to curate scientific films for children for the 2022 edition of SFF, themed "Equal Opportunities in Science".

## Dewi Siti Hanizar

**Chairperson A.I, Center For Science, Technology, And Languages In  
Pontianak City**



Dewi Siti Hanizar was born in Putussibau, a city in the upstream of the Kapuas River - Indonesia's longest river. She began her public service career in 1986 under the Education and Culture Office of Putussibau Sub-District as staff member. In 1991, she went with her husband - who was furthering his study at the time - to Semarang and was assigned to work in a senior secondary school, SMA Tugu Soeharto, and later a public junior secondary school, SMPN 25 Semarang. She returned to Putussibau at the end of 1995 and moved to Pontianak in 1998, where she was assigned under the city's Education and Culture Office. She had the chance to study in Pontianak's Tanjung Pura University, Faculty of Teaching and Education for her bachelor's and master's degree in education administration. In 2006, Dewi was assigned in a non-formal and informal learning center in Pontianak and was rotated in 2016 to the Center for Science, Technology, and Languages of Pontianak. She first served as the Head of the Administration Sub-Division and in October 2021 was entrusted as the Center's chairperson ad interim. In this position, Dewi looks forward to cultivating creative ideas in science, technology, and languages to support the Center's function.

Work aside, Dewi is a sports and arts enthusiast, enjoys poetry writing, and is excited for being involved as a judge in the Science Film Festival (SFF). For Dewi, this is a wonderful gift that nicely caps her long career in public service, as she is going to retire in 2023.

This year's SFF also marks the fourth year of collaboration between Goethe-Institut Jakarta and Center for Science, Technology, and Languages in Pontianak City. Dewi hopes that this collaboration continues, as she believes that science and knowledge development offer endless discovery and exploration. Science should be studied for the benefit of the society, and that everyone should take part to do that they can while the opportunity is there.



## Alfath Fatansyah Nur

**Student, SMPN 1 Anggeraja**

Alfath Fatansyah Nur, or simply Alfath, was born in 2007. He is currently in grade nine of public junior secondary school (SMPN) 1 Anggeraja. Outside of class, Alfath actively participates in compulsory extracurricular programs, such as scouts and Quran reading and writing. Alfath also joins a group in a mosque to learn more about Quran reading and writing.

School aside, Alfath has personal interests in film, science, and anime. In fact, his favorite movie genre is historical films. Alfath is interested in films related to history within the scope of documentaries, especially the history of political upheaval that occurred in Indonesia. Alfath couldn't be more excited to be joining the Science Film Festival as a young judge.

## Aisyah Naqiyah Salsabila

**Student, ITQAN Islamic School Bandung**



Born in 2010, Aisyah Naqiyah Salsabila (now 11 years old), is a fifth-grade student in ITQAN Islamic School Bandung. When she's not busy studying, Aisyah enjoys watching Japanese anime, making arts and crafts, writing her diary, and playing with her two younger siblings. In school, Aisyah likes math. She also takes private math lessons, where she can explore quick solutions to math problems, to develop her numeric skills and to complement her classroom learning. Not only math, Aisyah is also interested in languages. She studies English, Arabic, and Sundanese in school, and she teaches herself Japanese. Aisyah's interest in Japanese anime has led her to her love for comic books, and she's always excited to look for movie references on the internet. Since Aisyah was 8 years old, she never missed a chance to attend the Science Film Festival held by Goethe-Institut Bandung with her parents. In every experiment, she has always been an enthusiastic and active participant. Naturally, she was delighted for being selected as one of the festival's young judges. She can't wait for the event and looks forward to learning more about science in a fun way!



# Angelika Bernadeta Kolin

**Student, SMA Model YPPK Agustinus Kota Sorong**

Angelika Bernadeta Kolin, or Angel, was born in Sorong in 2005. She is currently a eleventh-grade student in a senior secondary school, SMA YPPK Agustinus of Sorong City. She enjoys doing campaigns and being a member of an organization as well as singing and dancing. But her favorite activity is cooking. Angel is always in the kitchen, experimenting and creating dishes that no one has ever made. She equally likes being in an organization. In junior secondary, she led her school's student's association and she served as chair for the school's scout executive board.

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# SCIENCE FILM FESTIVAL 2022

# SCIENCE EXPERIMENT TUTORIAL VIDEO



# SCIENCE EXPERIMENT TUTORIAL VIDEO

An essential part of the Science Film Festival is curating activities that supplement the themes explored in the films, through hands-on experiments, projects or learning games offered for young audiences at the screenings. Festival partners from all participating countries exchange and adapt ideas for educational activities, supplementing the films at an international workshop and subsequent national workshops. The Science Film Festival offers an effective and enjoyable learning environment through this multidisciplinary approach.

In this year's edition, the Science Film Festival Indonesia prepared 13 simple science experiments with tools and materials that are easy to find at home. The Science Film Festival team has demonstrated a simple science experiment related to 17 films and turned it into a tutorial. The 13 Science Experiments are Screaming Ballon (Balon Berteriak), Paper Fish (Ikan Kertas), Water Pump (Pompa Air), Water Dispenser (Dispenser Air), The Magic Sugar (Gula Ajaib), Rainbow Water (Air Pelangi), The Elephant's Trunk (Belalai Gajah), Lava Bubbles (Gelembung Lava), Human Conductor Machine (Mesin Konduktor Manusia), Spinning Wire (Kawat Berputar), Crab Claws (Capit Kepiting), Moving Cans (Kaleng Bergerak) and Snail Race (Balap Siput). The tutorial videos can be found on the Goethe-Institut Indonesien YouTube channel.



# SCIENCE FILM FESTIVAL 2022

# NUMBERS OF VISITORS/ VENUES



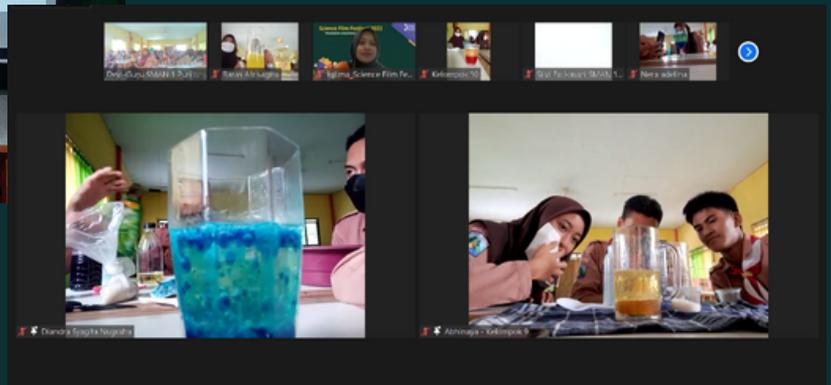
# NUMBER OF VISITORS/VENUES

In 2022, 66.533 participants throughout Indonesia joined the Science Film Festival in hybrid edition. Beyond Jakarta, Bogor, Depok, Tangerang, Bekasi, Bandung, the festival was hosted virtually by Goethe-Institut Indonesien in various venues in 49 more cities of Indonesia.

## VISITOR NUMBERS FOR EACH OF LAND IN INDONESIA (IN ALPHABETICAL ORDER):

No.	Island	Number of Participants
1	Bali & Nusa Tenggara	2.418
2	Jawa	49.042
3	Kalimantan	3.007
4	Maluku	922
5	Papua	684
6	Sulawesi	1.389
7	Sumatera	9.071
<b>TOTAL</b>		<b>66.533</b>





# SCIENCE FILM FESTIVAL 2022

# SCIENCE FILM FESTIVAL 2022 TEAM



# SCIENCE FILM FESTIVAL 2022 TEAM

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In 2022, 20 students from Paramadina University, Atma Jaya Catholic University of Indonesia, and State University of Jakarta supported the festival and ensured with their contribution to the enormous success of the event.

The students from the universities were an essential part of the organizing team. They shared their expertise and ideas, and some of them developed their own design concepts for the opening ceremony and at different venues. They also helped to communicate the festival through social media platforms such as Facebook, Twitter, Instagram and Tiktok. The volunteers also worked together with all venue partners in each city. And last but not least, they worked as MCs during the screenings, led the experiments and guided the audience through the program.

Besides of traveling to Jakarta, Bogor, Depok, Tangerang, Bekasi, Bandung venues, the Science Film Festival team take turns hosting the event and deliver science experiments at the Goethe-Institut office with strict health protocols in place. Returning in 2022 better prepared and equipped with lessons learned from its online edition in 2021, the 2022 Science Film Festival adopted the hybrid format. While some venue partners preferred offline screening, some others invited audiences on-site to watch films hosted remotely by the Science Film Festival team from the Goethe-Institute office via a video conference platform.

We would like to express our sincere gratitude and appreciation for their great work and the spirit they put into the 13th Science Film Festival in Indonesia. It would not have been possible without them.

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# SCIENCE FILM FESTIVAL 2022

# SCIENCE FILM FESTIVAL WORDLWIDE



# THE SCIENCE FILM FESTIVAL WORLDWIDE

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The 2022 Science Film Festival reached over 700.000 viewers in Vietnam, The Philippines, Singapore, Thailand, Myanmar, Malaysia, Indonesia, India, Pakistan, Bangladesh, Iran, Sri Lanka, Egypt, Sudan, Jordan, United Arab Emirates, Palestinian Territories, South Africa, Kenya, Burkina Faso, Rwanda, Namibia, Brazil and Argentina. It is the most extensive event of its kind and one of the biggest film festivals worldwide in terms of audience reach. In certain countries, the festival is held both online and offline.

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# SCIENCE FILM FESTIVAL 2022 – VIEWER STATISTICS

COUNTRY	VISITORS
Angola	231
Bangladesh	5.976
Brazil	2.232
Burkina Faso	1.221
Egypt	705
Ethiopia	2.380
India	19.141
Indonesia	66.533
Kenya	705
Malaysia	11.017

COUNTRY	VISITORS
Mali	800
Mozambique	2.899
Myanmar	2.300
Pakistan	8.147
The Philippines	9.361
Rwanda	155
Singapore	8.000
South Africa	747
Thailand	534.503
Vietnam	24.485
<b>TOTAL</b>	<b>701.538</b>

# SCIENCE FILM FESTIVAL 2022

# PRESS RESPONSE TO THE SCIENCE FILM FESTIVAL



# PRESS RESPONSE TO THE SCIENCE FILM FESTIVAL

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The event exposure in terms of PR value is more than three billion rupiah in addition to interviews and news coverage of presently unquantifiable ratings (see also press clippings).

## OVERVIEW

<b>TOTAL ONLINE ARTICLES</b>	<b>88</b>
<b>TOTAL PRINTED ARTICLES</b>	<b>4</b>
<b>TOP MONTH</b>	<b>OCTOBER / 53 ARTICLES</b>

# HIGHLIGHT OF THE PRESS:

***"Festival ini bisa menyadarkan masyarakat akan isu-isu ilmiah, teknologi, dan lingkungan melalui film internasional dan juga kegiatan pendidikan."***

**Bobo, 18 October 2022**

***"Berbagai rumusan, hafalan, dan eksperimen sering dianggap teror dalam memahami sains. Lewat film dan permainan, siswa diajak "menjinakkan" sains dengan cara belajar yang menyenangkan."***

**Harian Kompas, 22 October 2022**

***"Film-film yang diputar diharapkan membantu anak dan orang tua mengerti pentingnya belajar sains sejak dini. Karena sains itu menyenangkan dan untuk semua orang"***

**Deutsche Welle Indonesia, 19 October 2022**

Image Copyright Pexels/cottonbro studio

# HIGHLIGHT OF THE PRESS:

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***“The German cultural center the Goethe-Institut holds the international Science Film Festival (SFF) to encourage children to study and explore science. In the annual program, several science movies are selected by a group of judges to be screened to students in elementary, junior high and senior high schools.”***

**The Jakarta Post, 3 November 2022**

***“Tahun ini Science Film Festival mengangkat tema “Kesempatan yang Setara di Dunia Sains”, di mana setiap orang dapat berpartisipasi di semua bidang STEM (sains, teknologi, rekayasa dan matematika) tanpa diskriminasi, prasangka, atau mengutamakan kelompok tertentu.”***

**Antarane.com, 18 October 2022**

Image Copyright Pexels/Brotin Biswas

# SCIENCE FILM FESTIVAL 2022

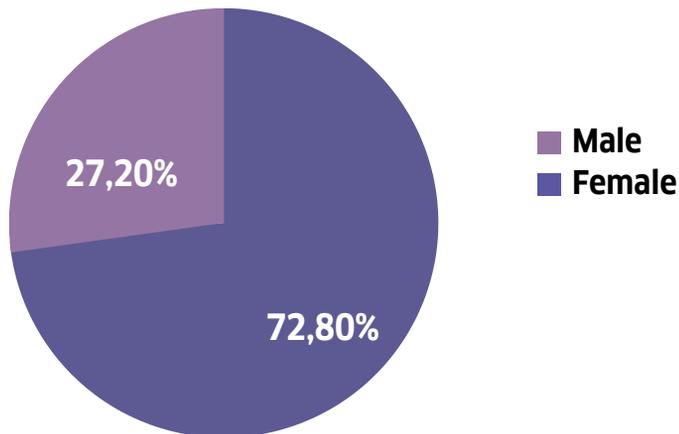
# EVALUATION



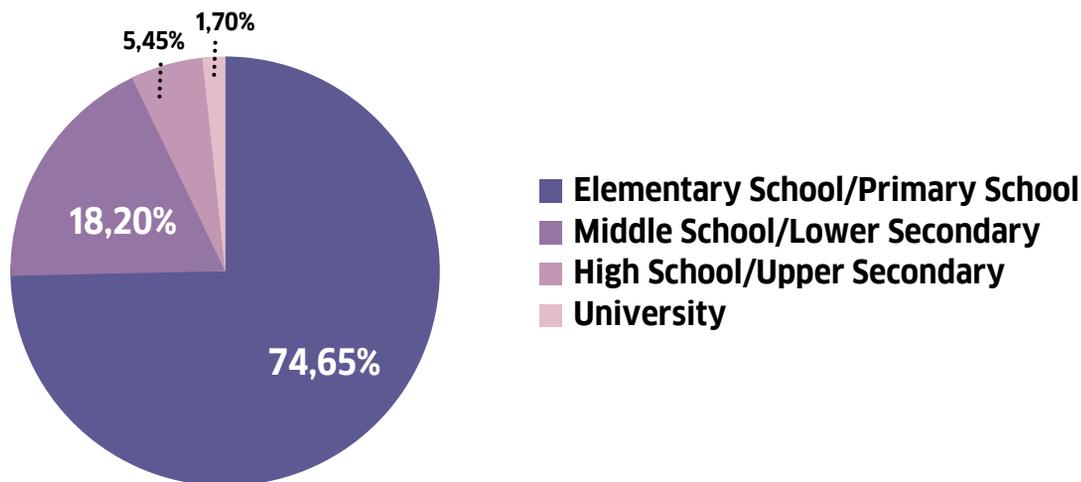
# EVALUATION

An extensive survey amongst around 10,000 festival participants was conducted in 2022. The survey included audiences and teachers from all venues in Indonesia and was evaluated by an unbiased party.

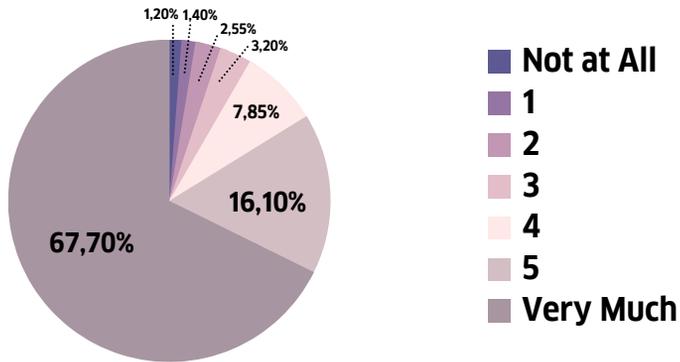
## 1. The following graph shows the gender distribution of the festival audience:



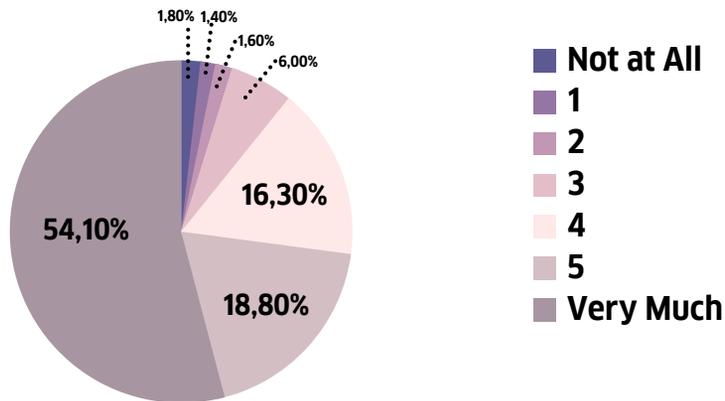
## 2. The following graph shows the academic level of the festival audience:



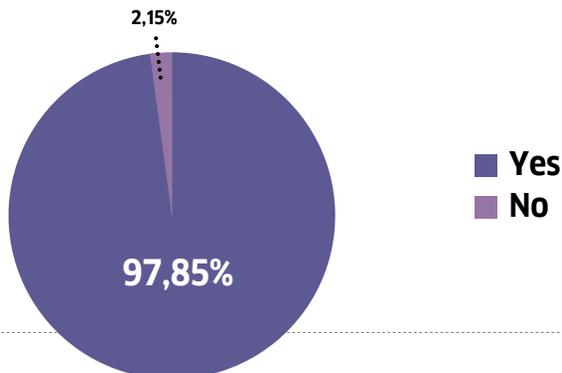
3. The following graph shows the percentages of the audience that liked the films in the festival:



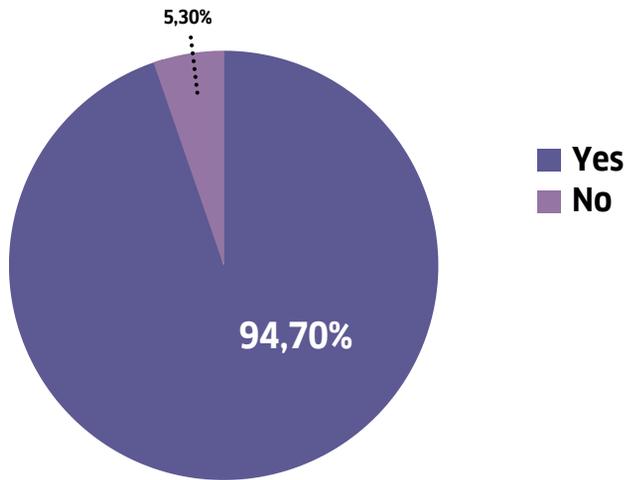
4. The following graph shows the percentages of the festival audience that liked the venue activities:



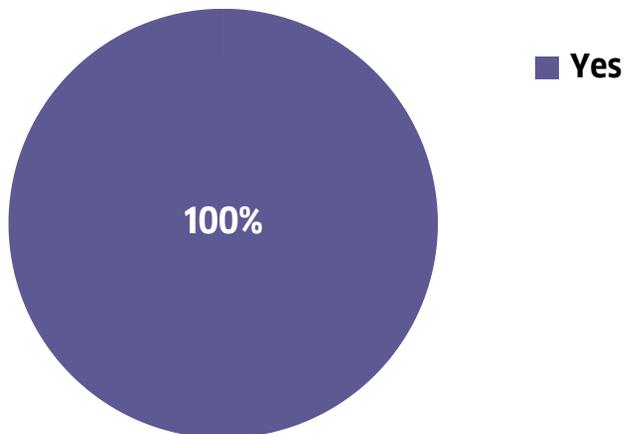
5. The following graph shows whether the audience felt the activities accompanying the screening were helpful in understanding the subject better:



6. The following graph shows whether the audience knew the theme of the festival this year is Equal Opportunities in Science:



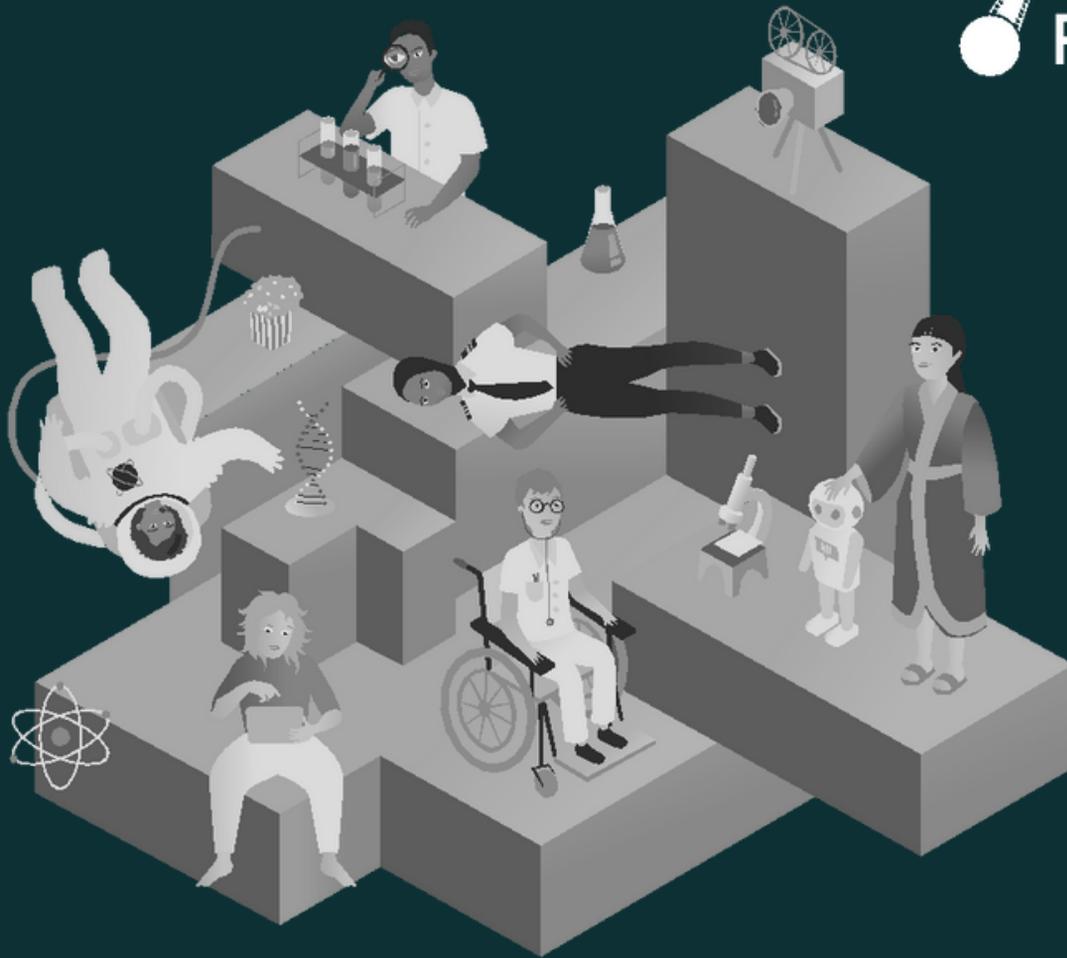
7. The following graph shows how many children want the festival to come back in 2023



The Science Film Festival would not be possible without the tremendous support and contributions from the partners, filmmakers, producers, distributors, broadcasters, venues and sponsors.

**The festival and its organizers are deeply grateful for this enthusiastic cooperation, and we are very much looking forward to having you all on board for the 14<sup>th</sup> Science Film Festival in Indonesia in 2023!**





## Goethe-Institut Indonesien

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