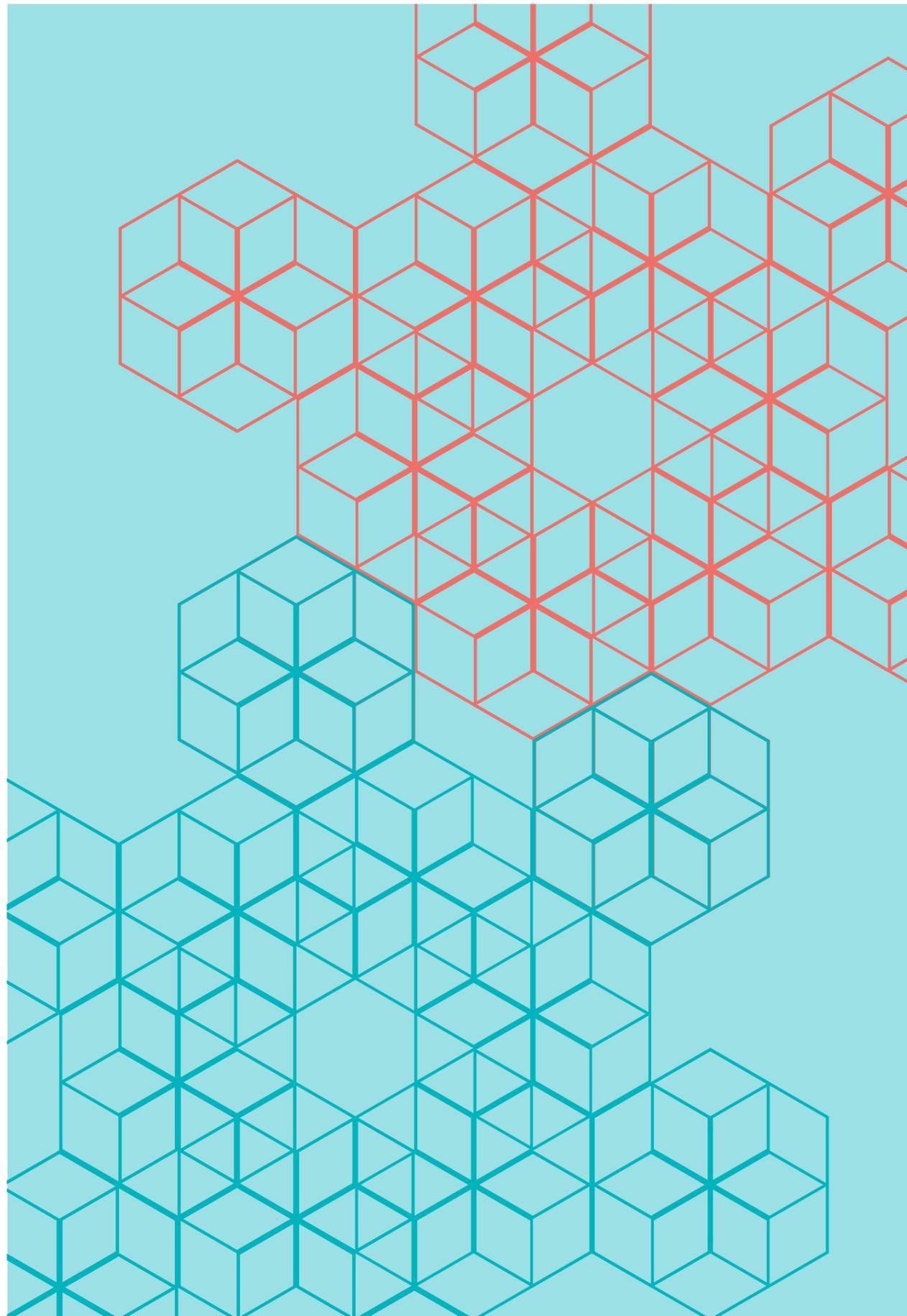


# Annual Review **2018**



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*CERN & Society  
Foundation*



Word from Anne Richards,  
CERN & Society Foundation Chair

## DEAR FRIENDS,

Since its creation in 2014, the CERN & Society Foundation has had many achievements, helping CERN to spread its spirit of scientific curiosity for the inspiration and benefit of society.

2018 was a year of further progress for the CERN & Society Foundation. We have built strong partnerships with our donors to provide world-class education to students, teachers and young professionals in the STEM fields; to engage the public with science; to change lives through technologies developed at CERN; and to foster dialogue between arts and science. With its varied programmes, the CERN & Society Foundation strives in particular to empower youth through advanced training. We are thankful to all our partners and donors for enabling that.

2018 marked a key moment in the life of the CERN & Society Foundation, as we joined forces with the Foundation for the Globe of Science and Innovation, with the goal of expanding our impact on society. The enlarged Foundation now continues under the name of 'CERN & Society Foundation' and the existing projects under both Foundations have been merged.

The current activities in the areas of Education & Outreach, Innovation & Knowledge Exchange, and Culture & Creativity have been enhanced by the inclusion of the Globe of Science and Innovation, a remarkable venue for scientific exhibitions, conferences, meetings and debates open to the public.

This year, more than 1600 high school students were engaged in STEM subjects through the Beamline for Schools Competition, while about 8500 people participated in outreach events. With the CERN-UNESCO School for Digital Libraries, we went to Kenya and trained 30 librarians and IT specialists from seven African countries. At CERN, 76 secondary school science teachers were trained in contemporary particle physics, an innovative way to enhance and update their teaching in class. The Foundation was also able to support a record number of 62 summer students from developing countries for studies of particle physics, engineering and IT at CERN; and 10 students in entrepreneurship were hosted at CERN for the first time, to learn about new technologies developed by the Laboratory and to find novel ways of exploiting them for broader societal benefit.

As far as the future is concerned, the Foundation will maintain its focus on youth and education and support the capital campaign for the CERN Science Gateway, an iconic new education centre to be located in the area around the Globe of Science and Innovation.

In this review, you will find more information on the many projects, and the remarkable outcomes made possible by our supporters. None of this would have been possible without their generosity and spirit, and the dedication of CERN people working on these projects. I would like once more to thank all of them for their continuous contribution and commitment to our mission.

# OUR MISSION & BELIEFS

The CERN & Society Foundation has a range of projects and activities in the areas of Education & Outreach, Innovation & Knowledge Exchange, and Culture & Creativity, whose main purpose is to spread the CERN spirit of scientific curiosity for the inspiration and benefit of society.

We believe in developing scientific curiosity, inspiring more young people to choose scientific careers, working towards improving lives around the globe and engaging more participation in science, technology and innovation.

In 2018, the CERN & Society Foundation and the Foundation for the Globe of Science and Innovation merged into one entity. The CERN & Society Foundation has now increased its scope to better serve local and international communities, adding a fourth area of activity with the aim to support and promote the operation of the Globe of Science and Innovation.

## AREAS OF ACTIVITIES

### Education & Outreach

Our aim is to engage more young people in the scientific method, while developing their interest to understand and pursue STEM fields.



### Innovation & Knowledge Exchange

We seek to improve people's lives worldwide by developing practical applications from fundamental research.

### Culture & Creativity

We believe in the power of science to inspire individuals in many fields including the arts.

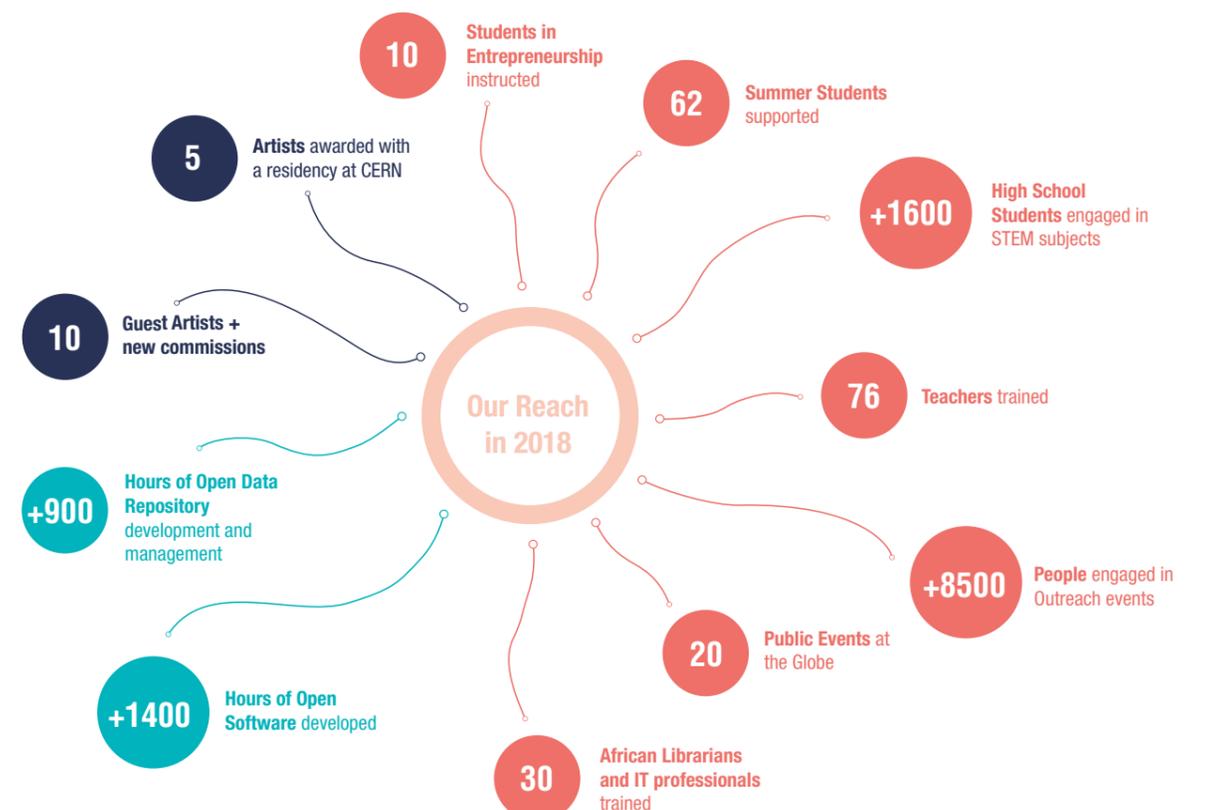
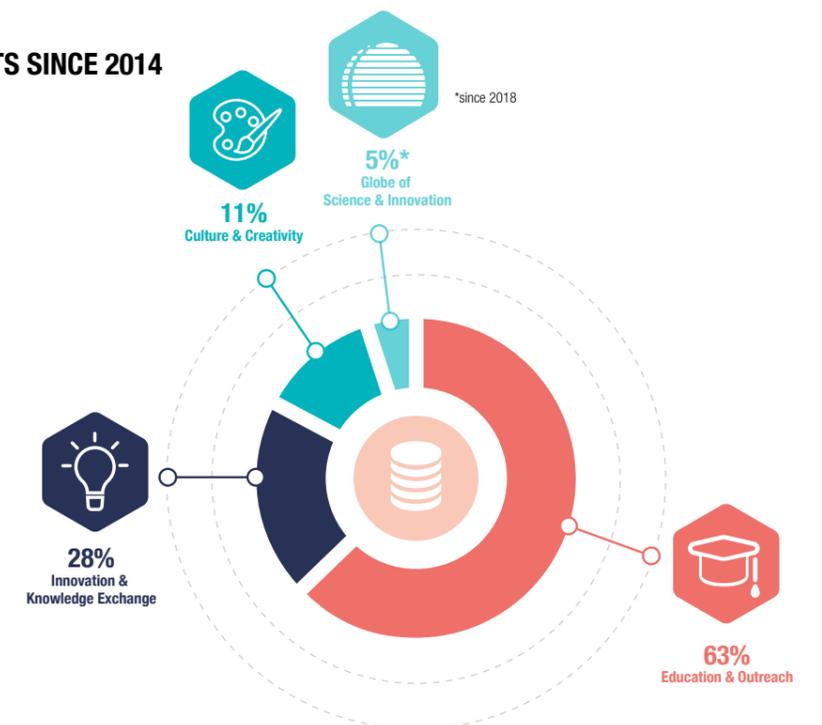


### Globe of Science and Innovation

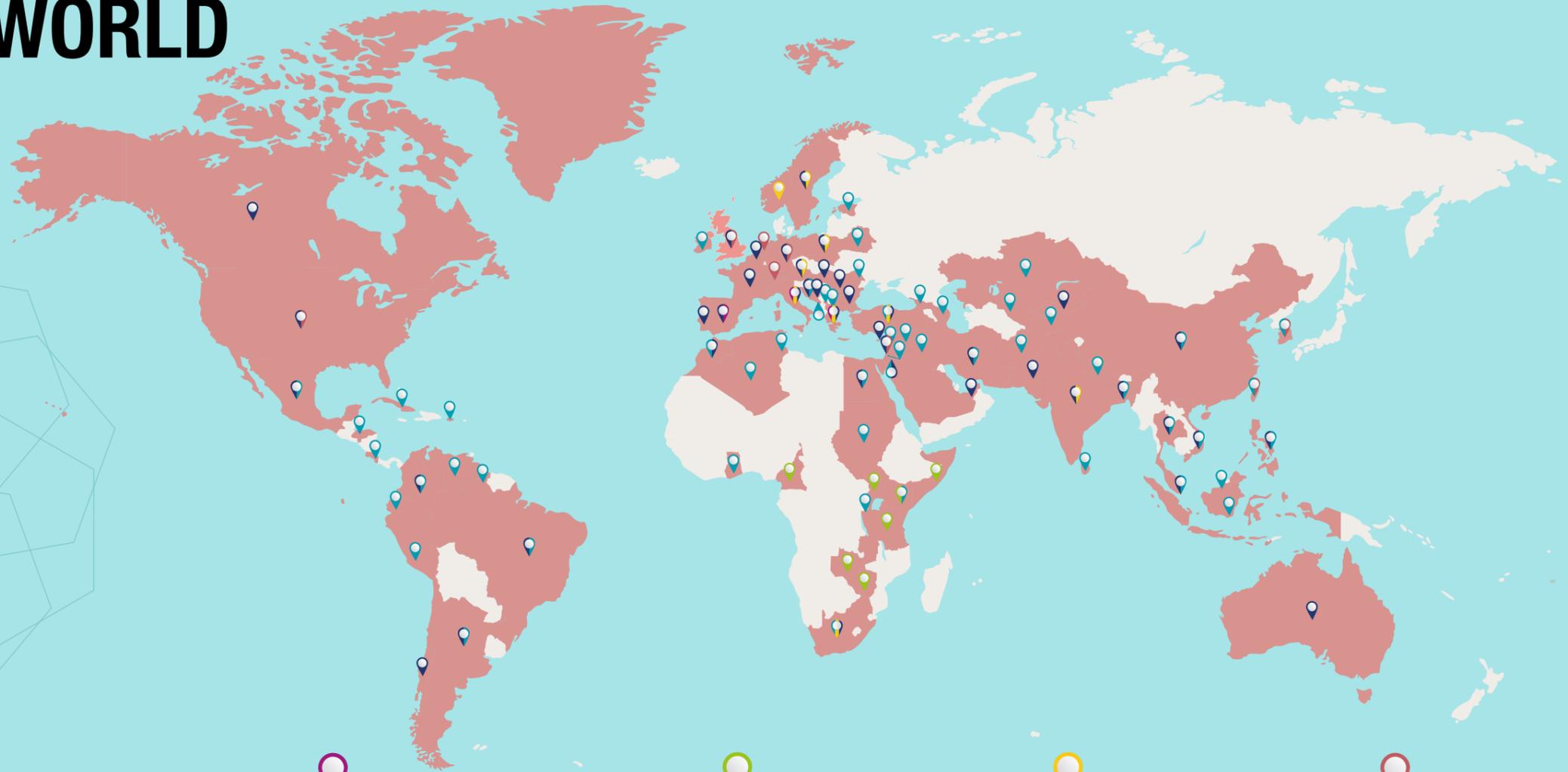
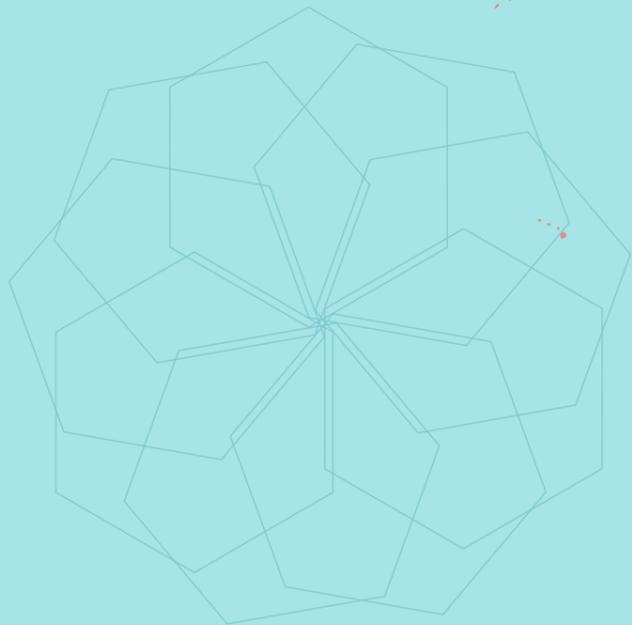
We wish to achieve greater public engagement with science through scientific exhibitions, conferences, meetings and debates open to the community.

# THE IMPACT OF YOUR DONATIONS

## OUR GRANTS SINCE 2014



# OUR REACH AROUND THE WORLD



## BEAMLINE FOR SCHOOLS COMPETITION

Engaging high-school students in real experimental particle physics research at CERN.

**195** proposals were submitted by **1 535** students.

Gender distribution:



## NON-MEMBER STATE SUMMER STUDENTS

Giving the next generation of scientists the skills to contribute to the development of their communities.

**62** students fully supported for 8 weeks

Gender distribution:



## CERN NATIONAL TEACHER PROGRAMMES

Equipping teachers to empower students and the future of science through their own scientific education.

**76** teachers supported

Gender distribution:



## DIGITAL LIBRARIES- UNESCO

Enabling African researchers to join the global network of digital libraries and build capacity in their own countries.

**30** librarians and IT specialists trained from **7** African countries.

Gender distribution:



## CERN ENTREPRENEURSHIP STUDENT PROGRAMME

Engaging students of Masters level in training on high-tech venture creation.

**10** successful CESP students supported for a **5-week** residency at CERN.

Gender distribution:



## ARTS AT CERN:

Artist residency programme bringing together artists and scientists to support artistic innovation and openness to fundamental research.

**5** artists in residency and **10** guests artists welcomed at CERN.

Gender distribution:



# 2018 HIGHLIGHTS IN PICTURES

## 24 JANUARY

The CERN & Society Foundation announces two new projects to expand its Education & Outreach activities: the High-School Students Internship Programme (HSSIP) and the ENLIGHT training. While HSSIP gives high-school students the chance to attend a 2-week mentoring internship at CERN, the ENLIGHT Training offers opportunities for students in high-tech cancer treatment.

## 18 MARCH

One of three Italian Teacher Programmes of the year opens its teaching halls at CERN, with the objective of encouraging high-school science teachers to promote the teaching of contemporary physics in schools. The Greek and Spanish Teacher Programmes take place in the following months.

## 4 JUNE

Summer Students from all over the world start arriving at CERN to spend 8 weeks working and learning in a world-class scientific environment.

## 17 APRIL

Arts at CERN announces the winners of the Collide residency awards for 2018. Collide International, in collaboration with the UK's Foundation for Art and Creative Technology (FACT) was awarded to Suzanne Treister. The Collide Geneva award was assigned to the artists Anne Sylvie Henchoz and Julie Lang.

## 20 JUNE

High-school students from the International School of Manila, Philippines, and R.N. Podar School in Mumbai, India, are the winners of the Beamline for Schools Competition 2018.

## 13 JUNE

Celebrating the ties between art, science and technology, HALO is an immersive art installation inspired by raw data generated by ATLAS in 2015, exposed at ART BASEL. It has been conceived and executed by CERN's former artists-in-residence, the "Semiconductor" duo of Ruth Jarman and Joe Gerhardt, in collaboration with Mónica Bello, curator and head of Arts at CERN.

## 26 JULY

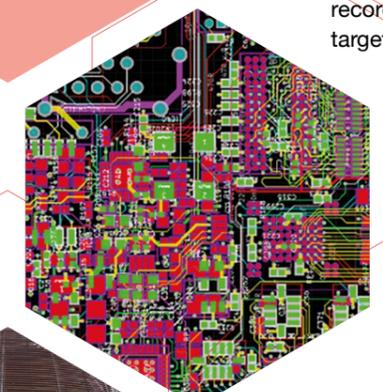
The online campaign for the development of KiCad Version 6 reaches his fundraising goal in only 7 days, closing after 2 months of its launch at a record level of 165% of its target.

## 12 JULY

The CERN Table Football Club (CTFC) helps spreading the CERN spirit of scientific curiosity, for the inspiration and benefit of society. It organizes a charitable tournament and pledges all proceeds to the CERN & Society Foundation in support of its Education & Outreach projects.

## 17 JULY

The CERN & Society Foundation welcomes representatives of the Science and Technology Facilities Council, which generously supports the Non-Member State Summer Student Programme. Representatives of STFC meet with summer students from 33 countries around the globe.



## 6 AUGUST

The CERN Entrepreneurship Student Programme kicks off its first edition, welcoming 10 successful applicants to a 5-week full immersion on CERN technologies, with the aim of building and improving their entrepreneurial expertise.



## 14 SEPTEMBER

The CERN & Society Foundation welcomes on board two new trustees, Olivier Coutau and Nathalie Leuenberger, both also previous trustees of the Foundation for the Globe of Science and Innovation.



## 16 NOVEMBER

The 2018 TEDxCERN event, entitled 'The Elephant in the Room' brings together 14 speakers and leaders from a wide range of disciplines, giving thought-provoking insights into science and technology.



## 26 SEPTEMBER

The CERN & Society Foundation welcomes the supporters of the 2018 Beamline for Schools Competition (BL4S) in an event organized at IdeaSquare during the competition experimental week. They have the chance to interact with the winning teams from India and Philippines.



## 8 OCTOBER

The fifth CERN-UNESCO School on Digital Libraries takes place in Nairobi, Kenya, with the aim of enabling better information access for African researchers and making African research more visible to the rest of the world.

## 11 OCTOBER

After being approved by the Swiss Federal Surveillance Authorities, the merger of the CERN & Society Foundation and the Foundation for the Globe of Science and Innovation became effective on the 11 October 2018.

# OUR DONORS

*WE ARE GRATEFUL TO THE NUMEROUS DONORS AND PARTNERS WHO HAVE GENEROUSLY SUPPORTED THE CERN & SOCIETY FOUNDATION IN 2018. THANK YOU FOR YOUR CONTINUOUS AND VERY VALUABLE SUPPORT.*

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We also thank the many donors who supported CERN & Society in 2018 but do not wish to be named.

\*partly or fully In-kind

# HOW YOU CAN HELP

**There are many ways to support the CERN & Society initiatives. No matter how - or how much - you give, your gift will make a difference!**

You may choose whether you prefer to support specific initiatives via earmarked donations, or if you want to make an unrestricted donation that can be used to support the immediate and pressing needs of the CERN & Society projects.



## TRUSTS, FOUNDATIONS AND COMPANIES

Please help us put the enormous benefit science has on society under the spotlight. We have taken important steps forward so far thanks to our partners, but we can do so much more with additional help!

For further information about partnership opportunities with the CERN & Society Foundation, please write to the CERN Partnerships & Fundraising Section at: [partnerships.fundraising@cern.ch](mailto:partnerships.fundraising@cern.ch)

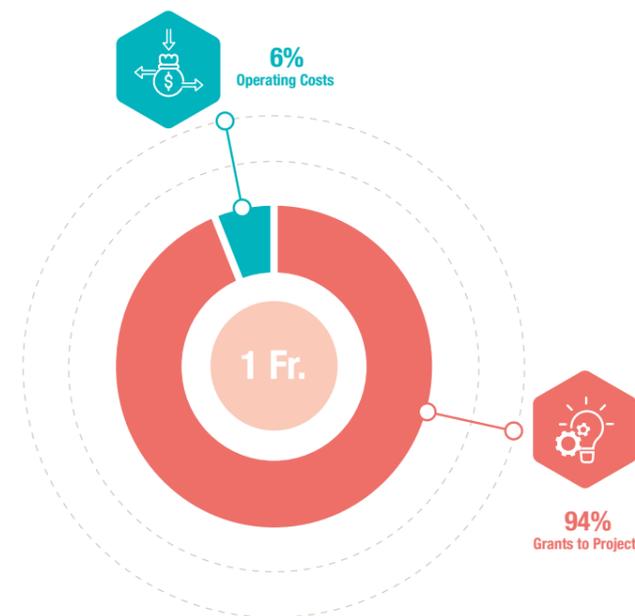


## RENT THE GLOBE

Individuals, companies and other organisations can rent the impressive Globe of Science and Innovation for their private events. The Globe is a unique and remarkable venue able to welcome up to 300 people and is fully equipped for meetings, conferences, cocktails and dinners. Please email [partnerships.fundraising@cern.ch](mailto:partnerships.fundraising@cern.ch) for further details.

## OPERATING COSTS

Please note that with every donation made, CERN provides the necessary operating resources for fundraising. Only a fraction of unrestricted donations are used to cover processing fees applying to contributions received by credit card or PayPal, and other operating expenditures. Otherwise, all funds go directly to benefiting our projects and increasing their impact.



## AT THE CERN SHOP

If you happen to be close to CERN, please pay a visit to CERN Gift Shop. There you will find authentic LHC Data Tapes available that can be used as an original gift or as a souvenir of your visit with a contribution of 10 CHF or more. 100% of your donation will go directly to support CERN & Society projects.

## ONLINE DONATIONS

It is possible to boost CERN & Society's reach easily and quickly! You can make a secure recurring or one-off online donations at [cernandsocietyfoundation.cern](http://cernandsocietyfoundation.cern)



*“WE WILL BE ABLE TO SHARE WITH EVERYBODY THE FASCINATION OF EXPLORING AND LEARNING HOW MATTER AND THE UNIVERSE WORK, THE ADVANCED TECHNOLOGIES WE NEED TO DEVELOP IN ORDER TO BUILD OUR AMBITIOUS INSTRUMENTS AND THEIR IMPACT ON SOCIETY, AND HOW SCIENCE CAN INFLUENCE OUR DAILY LIFE.”*

Fabiola Gianotti, CERN Director-General.

## CERN SCIENCE GATEWAY

*Science Gateway, the new iconic centre for science, education and outreach, is scheduled for completion by summer 2022. The building is being designed by world-renowned architect Renzo Piano and his team, and will be funded entirely through external donations.*

*The purpose of Science Gateway is to inspire the public, instilling in them curiosity for science and innovation, and especially encouraging young people to pursue careers in Science, Technology, Engineering and Mathematics (STEM).*

### SCIENCE GATEWAY VISION

The Science Gateway project will allow us to:

- Increase and expand the impact of the **education, communication and outreach** actions aimed at the public
- Fulfil the **+300,000 visit requests** received annually
- Involve a range of people of **all age groups** (starting from 5 years old)
- Become more actively engaged with the local population and **build ties** with CERN's **Member, Associate and Non-Member States**

**Activities intended for all age groups:**

- **Mini-workshops and laboratories** involving practical and educational experience
- **Interactive installations** to explore physics in a basic yet entertaining way
- Virtual visits of CERN laboratories

- Temporary and **permanent exhibitions**, highlighting key elements such as: Arts at CERN, societal impact of CERN's scientific discoveries & technological innovations, and well-known science personalities
- Live connections with other science centres or international partners for **engaging scientific events**
- **Public lectures** and science events organized in a **900-seater auditorium**

The overall cost of the Science Gateway is estimated at 79 million Swiss Francs, entirely funded through donations. As of today, 57 million Swiss Francs have been already secured, allowing construction to start on schedule, thanks in particular to a very generous contribution of 45 million Swiss Francs from the Fiat Chrysler Automobiles (FCA) Foundation, which will support the project as it advances through the construction phases. Other donors include a private foundation in Geneva and Loterie Romande. Additional donations are crucial to cover the full cost of the project.



*“IT’S A PLACE WHERE PEOPLE WILL MEET: KIDS, STUDENTS, ADULTS, TEACHERS AND SCIENTISTS, EVERYBODY ATTRACTED BY THE EXPLORATION OF THE UNIVERSE, FROM THE INFINITELY VAST TO THE INFINITELY SMALL!”*

Renzo Piano, Architect of Science Gateway.



# CERN BEAMLINE FOR SCHOOLS COMPETITION

"I BELIEVE THE EXPERIENCE HOLDS SIGNIFICANT WEIGHT AS IT IS NOT ONLY A CHANCE TO COLLABORATE WITH SOME OF THE SMARTEST PEOPLE IN THE WORLD ON A SCIENTIFIC PROJECT, BUT IT IS ALSO A TASTE OF WHAT CONDUCTING RESEARCH IS ACTUALLY LIKE. IT IS THIS EXPERIENCE THAT I BELIEVE THAT WILL IN FACT PROVE VALUABLE TO ME ... THROUGHOUT THE REST OF MY LIFE" ASHISH TUTAKNE, MEMBER OF THE 2018 WINNING TEAM, BEAMCATS, FROM MANILA, PHILIPPINES.

**+1500**  
students

**195**  
applications

**42**  
countries

Every year, CERN's Beamline for Schools Competition (BL4S) allows hundreds of young students to dive into science and technology, while developing a physics experiment to be carried out at CERN. With the help of CERN scientists, the two winning teams have the opportunity to conduct their experiments for 10 days, just as real experiments are performed at CERN.

Since the first international competition launched in 2014, BL4S has engaged over 8,400 high-school students worldwide from more than 800 schools in Science, Technology, Engineering and Mathematics (STEM).

## 2018 BL4S COMPETITION

In September, the two winning teams, "Beamcats" from Philippines and "Cryptic Optics" from India came to CERN for two weeks to conduct their experiments at the T9 beamline of CERN's Proton Synchrotron.

Throughout their 10 day stay on-site at CERN, they worked together in mixed shift crews while learning about each other's experiments, in this way fostering cooperation and promoting personal growth.

Winners continue their efforts even after their stay at CERN, as they often keep working on their data analysis with the support of CERN scientists and experts. With their guidance, the students are encouraged to write a scientific paper, which could then be published in a scientific journal or presented at a conference.



## DID YOU KNOW?

The two BL4S 2016 edition-winning teams from Poland and the UK successfully wrote and published their scientific papers on research analysis conducted at CERN, in the IOP Science journal. While the UK team 'Relatively Special', tested the validity of the Lorentz factor, the Polish team 'Pyramid Hunters' measured the muon absorption of limestone.

And the achievements of our students do not end here! To date, Italy is the only country to have won the BL4S competition twice. To commemorate this, the two Italian winning teams, "TCO-ASA" (2017 edition) and the "Leo4G" (2015 edition) were presented with an award at the Farnesina, by the Italian Foreign Ministry and Fabiola Gianotti, Director-General of CERN, in early February.



*"IN CUBA, MEDICAL PHYSICS IS VERY DEVELOPED BUT WE LACK EQUIPMENT AND INFRASTRUCTURE TO GET HANDS-ON EXPERIENCE ON PRACTICAL APPLICATION."*

Gabriel De La Fuente Rosales, 2018 Cuba



### HEAR FROM A PARTICIPANT

Gabriel De La Fuente Rosales is a Cuban student who attended the 2018 Non-Member State Summer Student Programme. He believes that the programme at CERN exposed him to a diverse scientific community where no one was afraid of sharing ideas, collaborating, and communicating in order to perform scientific experiments practically.

During the Summer Student Programme, Gabriel had the opportunity to work with a diverse group of fellow students and scientists from around the world and obtain scientific knowledge which will be useful back home in Cuba. Gabriel aspires to be a teacher, so with his experience from CERN, he is motivated to show people how a real physics research is conducted.

# NON-MEMBER STATE SUMMER STUDENT PROGRAMME

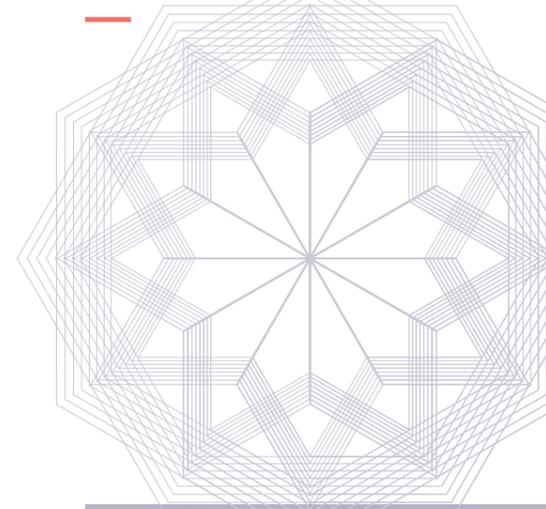
**62**  
students

**53**  
countries

*The Non-Member State Summer Student Programme represents a unique opportunity for students worldwide to spend a summer at CERN, specifically targeting nationals of any state that is not a CERN Member or an Associate Member State<sup>1</sup>.*

*Regardless of race, ethnicity, gender or religion, advanced undergraduate and beginning graduate students of physics, computing and engineering are invited to apply for an intensive 8-week scientific training. Along with this, they will receive lectures and the opportunity to work on laboratory-based projects with CERN experts.*

### HEAR FROM OUR DONORS



*"WE'RE PLEASED TO SUPPORT CERN'S SUMMER STUDENT PROGRAMME AND ITS EFFORTS TO ENGAGE DIVERSE STUDENTS FROM NON-MEMBER STATES. OUR FUTURE SCIENTISTS SHOULD REFLECT THE RICH DIVERSITY OF OUR WORLD."*

Jim and Marilyn Simons, Simons Foundation

"2018 is the second year that the UK Science and Technology Facilities Council (STFC) has supported the CERN Summer Student Programme through the UK Global Challenges Research Fund. The environment that CERN offers students from low and medium income countries is a fantastic opportunity for these young people. This year we were able to double the number of students that we support to 40, representing 36 different countries. STFC sees great value in enabling these students to spend time at CERN, experience CERN life and meet other like-minded young people. CERN will be a life changing experience for many of these students, inspiring them to pursue a career in science, thereby helping to build the research capability and economy in their own countries."

Stephen Loader, Science and Technology Facilities Council

<sup>1</sup> The following 23 countries are Member States of CERN: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Spain, Sweden, Switzerland, and the United Kingdom. Cyprus and Slovenia are Associate Member States in the pre-stage to Membership. India, Lithuania, Pakistan, Turkey and Ukraine are Associate Member States.

# CERN-UNESCO SCHOOLS ON DIGITAL LIBRARIES

30 participants

Nairobi Kenya

The CERN-UNESCO Schools on Digital Libraries initiative is a week-long training session for librarians and IT specialists at research institutions in Africa. The project aims at addressing concrete issues that African scientists, researchers and students encounter in their careers, caused by the absence of an Integrated and Digital Library System, and therefore by the unavailability and inaccessibility of relevant academic material.

During the School, librarians and IT specialists become familiar with principles related to open access and open knowledge, as well as practical solutions for setting up and running digital libraries, with the ultimate ambition of making African research more visible to the rest of the world.

## 2018 KENYA SCHOOL FOR DIGITAL LIBRARIES

Coming from seven different African countries, the participants attended an intense one-week training in order to gain a better insight into the technologies helping the circulation of academic production within libraries, such as the Invenio Digital Library Software, a free open source tool for digital library management developed at CERN.



"WITHOUT THE CERN-UNESCO SCHOOL, THERE WOULD BE LESS COORDINATION AND IMPROVEMENTS IN SOMALI UNIVERSITIES TOWARDS RESEARCH DEVELOPMENTS AND SOCIAL CHANGE."

Siad Mohamud, 2018 participant

## HEAR FROM A PARTICIPANT

Siad Mohamud is a Somali Chief Librarian who attended the 2018 School in Kenya. During the School, Siad had the opportunity to update his knowledge on digital library resources and services in use, and make new connections with other African library professionals who assisted in installing library software in use. Thanks to the School, Siad has now been promoted and says he is "valued differently than earlier partly because of the knowledge gained from the School".

## HEAR FROM OUR DONOR

"Supporting the CERN & Society Foundation, in particular the CERN-UNESCO Schools on Digital Libraries has been highly rewarding. With each school, the Foundation is helping librarians and IT specialists across Africa to learn how to use open access technologies to set up digital libraries. The schools also bring new trends in scientific publishing to those participating, enabling them to play a valuable role in promoting open science. I strongly believe in the mission of the schools to make African research more visible, and to give more and more students and researchers the opportunity to access academic material necessary for the success of their career."

Margarita Louis-Dreyfus



# CERN NATIONAL TEACHER PROGRAMMES

At CERN, we are dedicated to scientific research and work to create a world where high - quality, scientific education is universally available. In this context, every year, National Teacher Programmes are organized at CERN in the national languages of CERN Member States, for teachers to keep up to date with the latest developments in particle physics and related fields, while experiencing a dynamic, international research environment. The goal of these Programmes is to train and inspire teachers to bring science and the latest scientific developments into their classrooms. This way, they can transmit their enthusiasm to their students, engage them more with scientific studies and inspire them to follow related careers to meet the growing demand for a skilled workforce in STEM subjects.

## HEAR FROM A PARTICIPANT

During the training, Saul along with other Italian teachers had the unique opportunity of attending lectures, interacting with CERN scientists and sharing knowledge so close to its implementation. Thanks to the teacher programme, he was able to gain exposure to an international research environment. Following the training at CERN, Saul hopes to inspire primary school students by teaching complex particle physics concepts in innovative and inventive ways.

"ITP HAS RENEWED MY ENTHUSIASM FOR TEACHING PHYSICS. SUCH AN EXPERIENCE IN ONE OF THE MOST PRESTIGIOUS INTERNATIONAL RESEARCH CENTRES REPRESENTED AN EXTRAORDINARY MOMENT IN PROFESSIONAL LIFE FOR ME AND ALL MY COLLEAGUES"

Saul Casalone, Italian Teacher Programme (ITP) 2018.



# CESP

The CERN Entrepreneurship Student Programme (CESP) is one of the latest additions to the many programmes supported by the CERN & Society Foundation. The programme aims at encouraging a culture of entrepreneurship and fostering the next generation of high-tech entrepreneurs in high demand for future economic growth.

CESP targets entrepreneurship students at master's level, who have the unique opportunity of receiving hands-on experience in developing high-tech start-ups with the help and mentorship from CERN's Knowledge Transfer Group.

## 2018 CERN ENTREPRENEURSHIP STUDENT PROGRAMME

The participating students chosen from various backgrounds explored new technologies, evaluated their potential, and developed a business plan for their exploitation and even a product prototype where applicable. Their final projects

were presented to other fellow students and members of the Knowledge Transfer Group.

While two of the teams based their projects on CERN's structured laser beam, one for providing internet infrastructure in rural areas and the other to be used in LiDAR applications to better map the surroundings of autonomous vehicles, the third project focused on the creation of a mobile physics laboratory in developing countries.



THIS PROGRAMME HAS HAD A BIG IMPACT ON MY FUTURE PLANS. BEING AT CERN AND MEETING GREAT PEOPLE HAS MOTIVATED ME TO HAVE BIG DREAMS!"

# PUBLIC EVENTS AT GLOBE

The Globe of Science and Innovation plays an important role in engaging the public with science, innovation and technology. Throughout the year, numerous fascinating science-related events are offered to a variety of audiences, while its permanent exhibition, the "Universe of Particles", encourages visitors to confront countless number of questions of contemporary physics currently being studied at the LHC.

## EXAMPLES FROM 2018



### TEDXCERN 2018

The fifth edition of TEDxCERN, one of the most exciting and inspiring events, took place in Geneva on 20 November 2018 with the theme "An Elephant in the room". The day before, two pre-event panel discussions took place at the Globe of Science and innovation addressing and exploring the transformative scientific innovation affecting the world we live in.



### FIFDH 2018

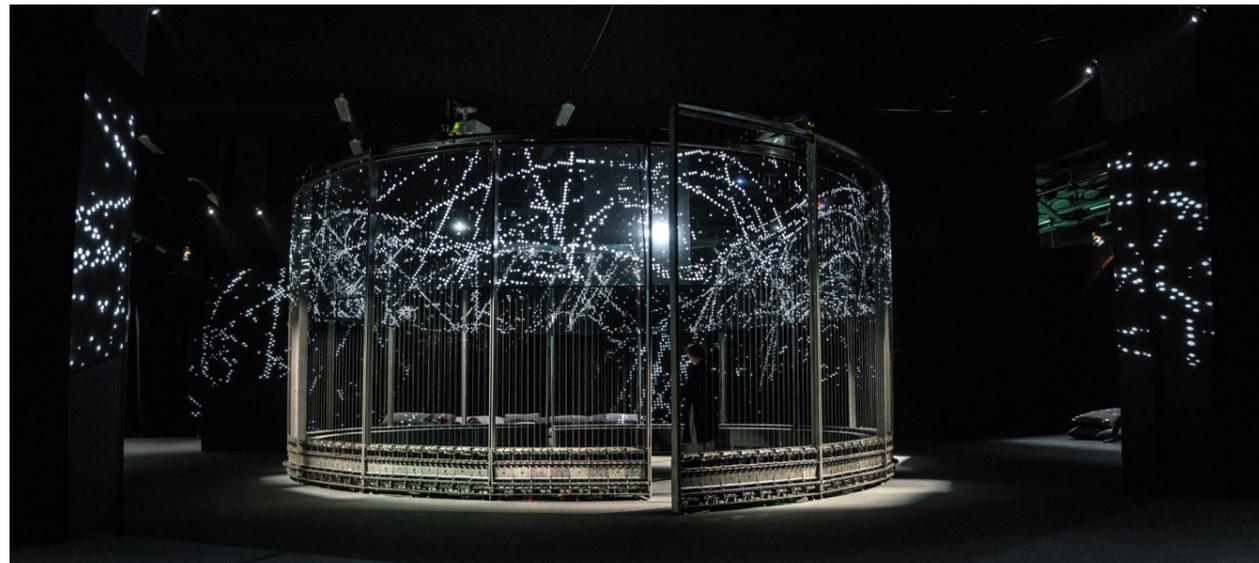
The 2018 FIFDH film festival screened 'The Cleaners', a documentary directed by Hans Block & Moritz Riesewieck. The documentary offered a macro perspective on social media platforms and their impact on people's everyday discourse. After the screening, an intriguing discussion took place with the film crew and Bruno Giussani, Global Curator of TED.



### MON TPE/TM EN 15'

Six teams of students from CERN's Swiss and French neighbourhoods got together for a rich discussion and presented topics covering various scientific fields for a duration of 15 minutes each.

# ARTS AT CERN



*In order to promote artistic curiosity and innovative research practices, Arts at CERN invites artists to spend time at the world's largest particle physics laboratory and work alongside physicists and engineers to develop their work.*

*At CERN, we believe in bringing artists and scientists together in order to explore creative solutions in research environments. The fields of particle physics and the arts are inseparably interconnected and hence are natural cohorts for innovation, research and development.*

## ARTS AT CERN CONSISTS OF SEVERAL STRANDS:

- **Collide**, a residency award of up to three months to invite artists to further their artistic practice in connection with fundamental research at CERN.
- **Accelerate**, a country-specific award for artists from different geographies to access the residencies programme at CERN.
- **Guest Artists visits**, short exploratory visits for artists from all over the world to connect with the world of CERN.



**In 2018, 5 artist residencies were awarded, while 10 artists were welcomed to the laboratory.**

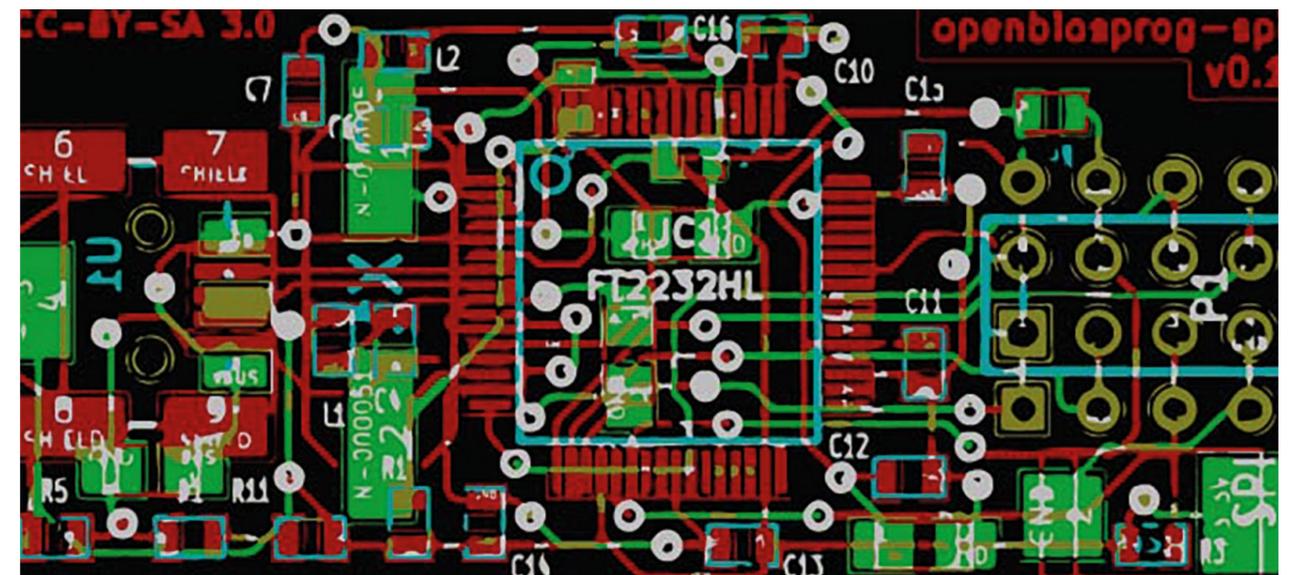
Among these was Suzanne Treister, winner of the 2018 Collide International award. Suzanne is a British artist well known for making work about emerging technologies, developing fictional worlds and international collaborative organizations. During her residency at CERN, the focus of her work was investigating the Holographic Universe and how it might inform the artist's motivations and intentions through history of art.

## HEAR FROM OUR DONOR

"The Didier and Martine Primat Fondation strives to encourage creative interactions between Art, Science and Nature, and finds it equally interesting to foster the dialogue and the reflection on nature which takes place between CERN scientists and the artists in residence at "Arts at CERN".

*By promoting a new series of arts commissions under the overall theme "Arts, Science and Nature", we are keen to encourage the creation of emblematic art works born from these encounters and leave a lasting testimony".*

Justine, Garance et Bérengère Primat, Didier and Martine Primat Foundation



# KICAD DEVELOPMENT

**+1400**

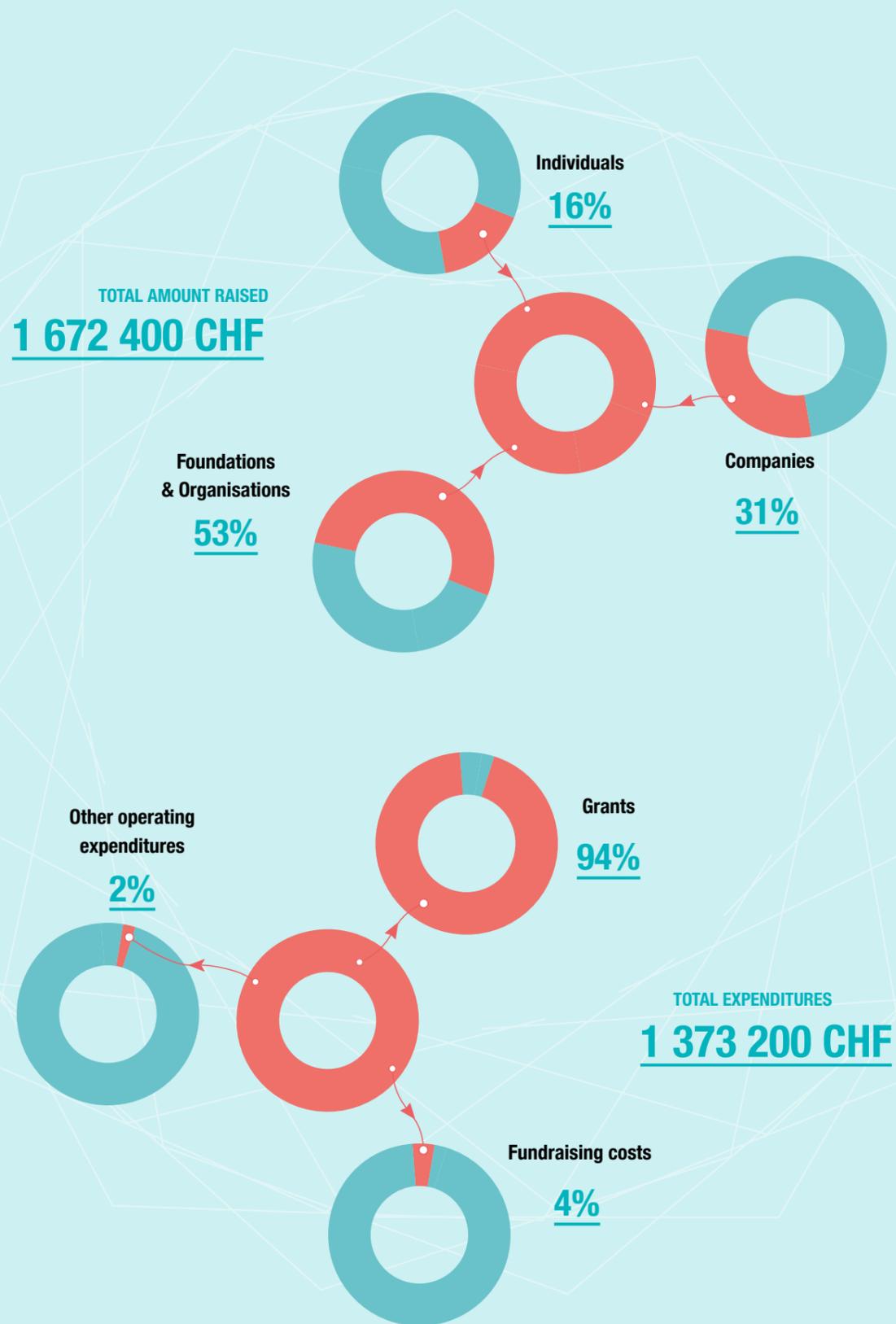
hours of open software developed

*In line with one of CERN's key philosophies of promoting open access to information, KiCad is an important tool for designing open-source hardware, allowing designers to share their work and increase their business in the most efficient way.*

Benefitting from a wide community of users that actively contributes time and money to its development, in the last 6 years, KiCad's functionalities have enhanced significantly, making it an efficient tool for Printed Circuit Board (PCB) design.

As a result of a very successful online fundraising campaign in support of the next software upgrade, Version 6, 2018 marked a momentous occasion in the history of KiCad. Solicited by CERN's developers, the user community has passionately expressed its support for the project, highlighting the importance of the existence of such a tool in their professional lives.

# FINANCES



From 1<sup>st</sup> January 2018 to 31<sup>st</sup> December 2018

# CERN & SOCIETY FOUNDATION BOARD

*The Foundation is an independent not-for-profit entity. The purpose of the CERN & Society Foundation is to support and promote the dissemination, to the widest extent possible, the benefits of CERN's mission. The core governance structure of the CERN & Society Foundation is the Foundation Board.*

*On December 31<sup>st</sup>, the CERN & Society Foundation Board had six members.*



**Anne Richards (UK),**  
Chairperson of the  
Foundation Board,  
Chief Executive Officer,  
Fidelity International



**Peter Jenni (CH),**  
Deputy Chairperson of the  
Foundation Board,  
Former ATLAS  
Experiment  
Spokesperson



**Olivier Coutau (CH),**  
Member of the  
Foundation Board,  
Delegate to international  
Geneva, Republic and  
State of Geneva



**Fabiola Gianotti (IT),**  
ex officio member of the  
Foundation Board  
CERN Director-General



**Rolf-Dieter Heuer (DE),** member  
of the Foundation Board,  
Vice-President, German  
Physical Society (DPG)



**Nathalie Leuenberger (CH),**  
member of the Foundation  
Board,  
Administrative Councillor,  
Ville de Meyrin

## BOARD STRUCTURE AND ACTIVITIES

The Foundation's Articles of Association allow for a maximum of nine and a minimum of four Board members, including the CERN Director-General on an ex-officio basis, one member designated by CERN, one member designated by the Republic and Canton of Geneva and one member designated by the Commune of Meyrin. The Foundation's Board members hold board meetings throughout the year, at approximately four-monthly intervals. The Board is responsible for the overall direction, management and

administration of the Foundation, and its assets, and takes decisions according to the provisions set forth in the Articles of Association on all matters concerning the Foundation. The Board also makes decisions on strategy and policies for the Foundation. The CERN Partnerships & Fundraising Section has the mandate to oversee the day to day operations and fundraising activities in support of the CERN & Society Foundation.



## CREDITS

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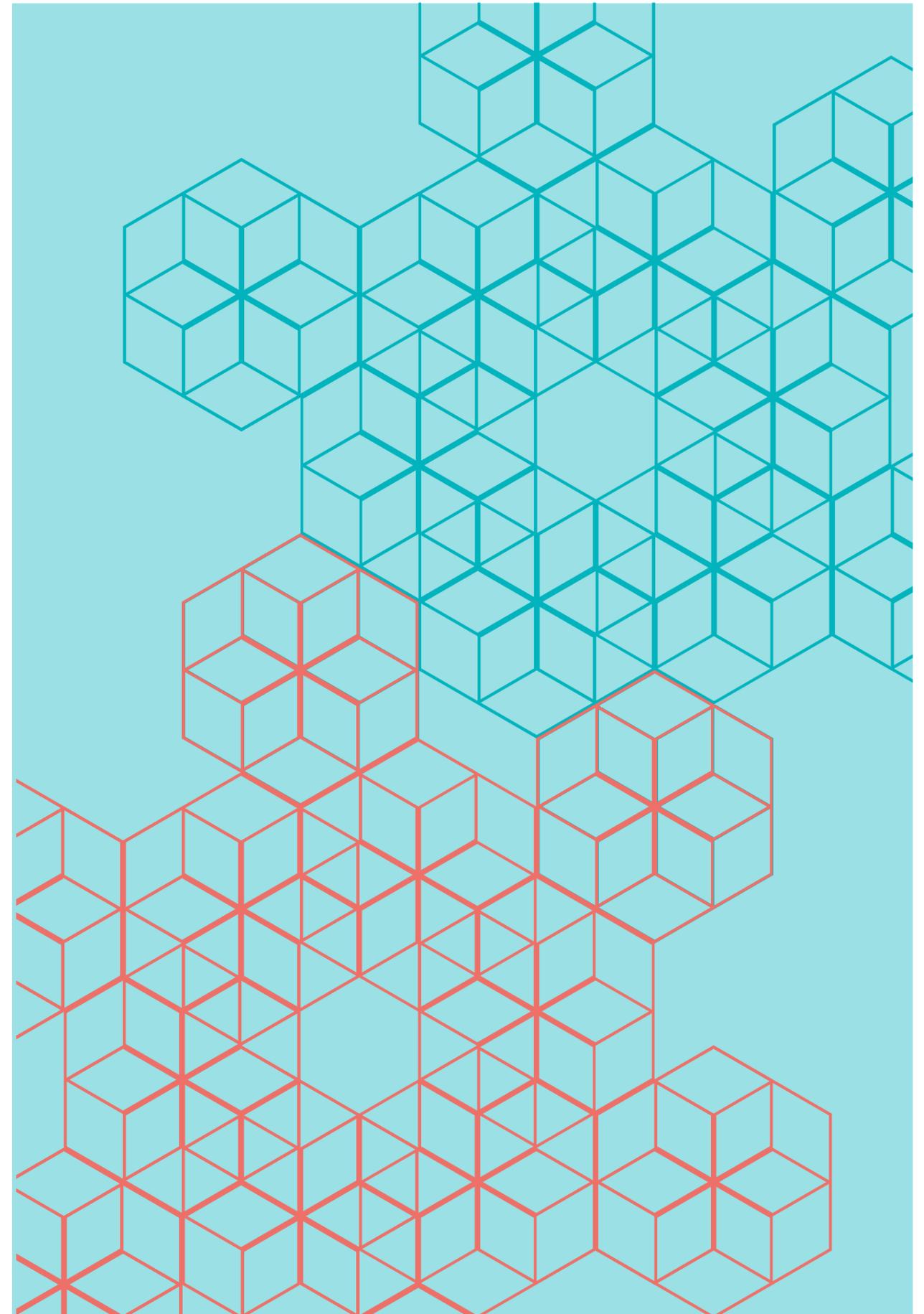
### CERN Partnerships & Fundraising

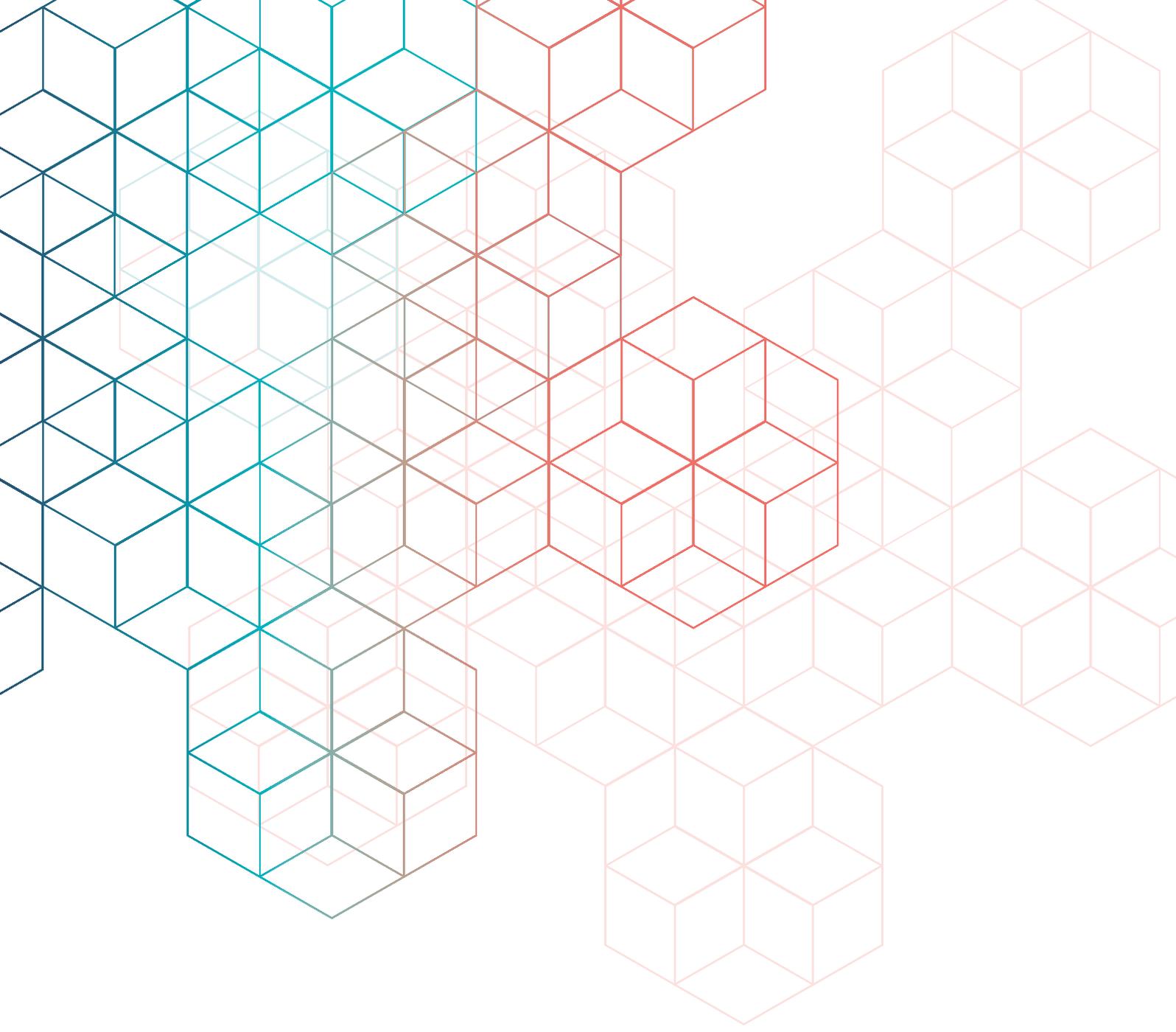
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[cernandsocietyfoundation.cern](http://cernandsocietyfoundation.cern)

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