

AIRBUS FOUNDATION

# Annual Activity Report

## 2020



# EXECUTIVE SUMMARY

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**2020 was a year of unprecedented challenges caused by the worldwide spread of the COVID-19 virus. Even with the severe economic and social disruptions that resulted, the Airbus Foundation succeeded in working with partners in carrying out life saving missions in the context of the global pandemic.**

The Airbus Foundation's actions benefited from its ability to adapt quickly in the pandemic environment – re-working its programmes to offer digital solutions where possible, and ensuring ongoing support for young people, employee volunteers, and our valuable NGO (Non-Governmental Organisation) and Governmental partners.

# EXECUTIVE SUMMARY

We also played a key role in Airbus' global response to the pandemic, **harnessing the collective passion of our employees that has been so evident throughout the COVID-19 crisis.** This ranged from launching the Discover at Home digital STEM (Science, Technology, Engineering, and Math) content for children who were unable to attend school to supporting innovation projects and employee initiatives through the Humanity Lab.

**The COVID-19 pandemic gave us an opportunity to focus on what really matters, and to continue building a more sustainable world**

**We were impressed by the passion and eagerness of Airbus employees** across the businesses to offer support in any way they could – including the design and implementation of innovative solutions to help protect key workers, and the collection of food vouchers for those in need in their communities. Thanks to everyone!

**The COVID-19 pandemic gave us an opportunity to focus on what really matters,** and to continue building a more sustainable world – showcasing how Airbus people, products and business know-how can be a force for societal good.

During the first part of the COVID-19 pandemic, our access to Airbus flight test aircraft was very limited – reducing the airlift capacity that we could use for delivering aid and equipment on humanitarian missions. Therefore, the Airbus Foundation shifted a part of its focus to the launch of an employee fundraising appeal in support of our humanitarian partners: the International Federation of Red Cross and Red Crescent Societies (IFRC) and Action Against Hunger (ACF).

**Thanks to the generosity of Airbus employees, this effort raised €47,633,** contributing to IFRC and ACF responses to the global crisis by providing essential assistance for the most vulnerable communities. This assistance included **helping control the spread of the virus** by supporting health centres, **raising awareness of social**

# EXECUTIVE SUMMARY

**distancing measures, and providing essential resources such as medicine, hygiene kits, and personal protective equipment.**

In 2020, the Airbus Foundation coordinated **four humanitarian goodwill flights and three humanitarian relief flights**, while also facilitating more than 107 helicopter flight hours.

The Airbus Foundation also supported humanitarian relief efforts by providing **satellite imagery**

**The Airbus Foundation facilitated more than 107 helicopter flight hours**

that helped assess the scale and impact of natural disasters and crises worldwide, responding to 47 separate requests, and delivering images that covered more than 40,000 square kilometres.

All the actions taken during 2020 underscored the Airbus Foundation's commitment to stand by our humanitarian partners, who are on the front lines in the fight to tackle the COVID-19 pandemic and in responding to natural disasters. By supporting the emergency response efforts of our partners, **the Airbus Foundation continues to be a respected, recognised, and "in-demand" partner** to the key participants within the humanitarian community.

In the area of innovation, the Airbus Foundation maintained its working relationship with the Humanity Lab, **helping put the creativity and expertise of users from ProtoSpace** – Airbus' own global network of collaborative spaces and fast-prototyping facilities – toward serving the humanitarian community through innovative projects.

With STEM-related education activities, the Airbus Foundation Board of Directors decided to integrate all our programmes under the same umbrella, focussing on **the entertaining content available via the Airbus Foundation Discovery Space platform (AFDS)**. This enabled the launch of a content creation campaign with several partners during the year to meet the framework of this new strategy.

For the Foundation's management, **Airbus Chief Executive Officer Guillaume Faury led his final Airbus Foundation Board of Directors meeting as Chairman, passing the responsibilities to Julie Kitcher, the Airbus Executive Vice President - Communications and Corporate Affairs, who is an Executive Committee member.** The Airbus Foundation's future strategy was discussed at the same meeting, including changes to our governance and strategic direction in the COVID-19 environment – refocusing the mission around the three core pillars: **humanitarian, youth/education, and environment.**



A close-up, low-angle shot of a red aircraft fuselage. The words "AIRBUS FOUNDATION" are printed in white, uppercase letters along the side of the fuselage. The aircraft is positioned on a grassy field, and the perspective is from below, looking up at the curved surface of the fuselage. The lighting is natural, suggesting an outdoor setting during the day.

AIRBUS FOUNDATION

# HUMANITARIAN FLIGHTS, RELIEF MISSIONS & GOODWILL EFFORTS

In 2020, we coordinated goodwill and relief flights that carried **more than 54 tonnes of aid to the humanitarian community** using A320neo, A330neo and A350 test aircraft. Additionally, **flights with helicopters chartered in six countries surpassed the 100-hour mark.**

Overall, the Airbus Foundation has facilitated **more than 117 relief or goodwill flights** to numerous destinations around the globe since our launch in May 2008, transporting over **1,100 tonnes of aid**, while **950-plus helicopter flight hours** have been granted to emergency responders since 2013.



Since 2008

117

humanitarian  
flights



Since 2008

1,100

tonnes of aid



Since 2013

950+

helicopter  
flight hours

# RELIEF FLIGHTS

## Response to COVID-19 and help for victims of Ebola

- Democratic Republic of the Congo
- June
- A330neo



The Airbus Foundation, together with the French Red Cross (FRC) and the International Federation of Red Cross and Red Crescent Societies (IFRC), transported a medical team and 14 tonnes of humanitarian aid to the Democratic Republic of the Congo using an Airbus A330neo test aircraft.

The transported material included masks, hospital scrubs, gloves, protective visors, shoe protectors, instant measuring medical thermometers, oximeters, and all the equipment needed to create a triage zone's administrative base.

This cargo contributed to the fight against both the COVID-19 pandemic and the Ebola crisis in the

Democratic Republic of the Congo – which is one of the world's poorest countries, with only basic levels of health care in some areas. The country has been battling the Kivu Ebola epidemic since 2018, and this was still ongoing when the COVID-19 crisis began.

To further complicate the situation, a new Ebola outbreak was declared on June 1, 2020. Combined with the COVID-19 pandemic, the ongoing Kivu Ebola epidemic, and the world's largest measles outbreak, the situation in the Democratic Republic of the Congo was described as a "perfect storm" by the Red Cross.



# RELIEF FLIGHTS

## Response to COVID-19

- Panama
- July
- A330neo

The Foundation coordinated a joint effort with the International Federation of the Red Cross and Red Crescent Societies and the United Nations' World Food Programme-Global Logistic Cluster (WFP-GLC) to deliver 23 tonnes of medical equipment for distribution in Panama. The mission used an A330neo test aircraft, and the equipment was provided for the IFRC and UNICEF's global supply hub.

The IFRC requested the Airbus Foundation's support to help restock and transport medical supplies and equipment to the hub in Panama, which responded to needs of the most vulnerable groups affected by COVID-19. The participation of Airbus' Latin American team was crucial to the success of this mission – which deployed goods from the



IFRC and UNICEF. The aid included personal protective equipment (PPE), kits for chronic diseases and midwifery, equipment for community clinics, medicine such as antibiotics and penicillin, as well as electronic weighing scales for children.





# RELIEF FLIGHTS



## Response for explosion victims

- Beirut, Lebanon
- September
- A350

A fully loaded A350 aircraft flew from Airbus' Toulouse, France headquarters to Beirut, Lebanon with 90 cubic metres of humanitarian aid destined for the Saint George Hospital University Medical Center in Beirut, along with the local Arc de Ciel association and the Lebanese Red Cross.

Weighing in at nine tonnes, the cargo provided much-needed relief to those affected by the 4 August massive explosion at Beirut's port. The shipment included medicine as well as visors and masks, school items, electrical products, and IT equipment.

This action brought the Airbus Foundation together with the following partners: the Association Les Amis Du Liban-Toulouse, the Centre Hospitalier Universitaire de Toulouse, the Municipal Council of Toulouse, the German Red Cross/Bayer AG, and Aviation sans Frontières.

On the return journey to Toulouse, the A350 transported 11 Lebanese students to continue their studies in Toulouse, as part of an initiative organised by Les Amis Du Liban-Toulouse.

# GOODWILL FLIGHTS

## Provision of humanitarian goods

- Ethiopia
- November
- A350-900 delivery flights



Airbus' delivery of two new-production A350 aircraft to Ethiopian Airlines carried five tonnes of medical and IT equipment in an Airbus Foundation partnership with Aviation Sans Frontieres and the Pablo Horstman Foundation.

This cargo supported the work of Ethiopia's Federal Ministry of Health and the Pablo Horstman Foundation which runs a pediatric hospital in Ethiopia.

"The humanitarian aid we carried with the delivery of these new Airbus A350-900 aircraft is an extension of our social commitments. I would like to thank Airbus for joining us in this noble initiative, as it has been doing in the past."

**Tewolde GebreMariam**  
The Ethiopian Group's Chief Executive Officer



# GOODWILL FLIGHTS

## Response to COVID-19

- Mexico
- August
- A320neo

A collaboration that linked the Airbus Foundation with Aviation Sans Frontières and two Mexican airlines – Viva Aerobus and Volaris – transported 336,000 of surgical masks and 6,560 face shields for donation to the Mexican Red Cross. This much-needed personal protection equipment helped support Mexico’s ongoing fight against COVID-19.

Viva Aerobus is one example of how operators of Airbus-built aircraft have worked diligently to address the public’s needs during the pandemic. The airline temporarily configured 10 of its A320 passenger aircraft in a cargo-exclusive version in support of efforts to combat the COVID-19 virus across Mexico, and created a campaign to

transport medical professionals free of charge throughout the country.

Another example is the “Avión Ayuda Volaris” programme of Volaris, which transported nearly 40 tonnes of medical supplies, sanitary kits and ventilators, along with health personnel and volunteers on its Airbus A320 Family aircraft to more than 25 cities across Mexico. This mission was done in partnership with public institutions, NGOs and private companies. Volaris made humanitarian cargo its top transportation priority on the carrier’s routes beginning in March 2020.





# GOODWILL FLIGHTS

## Transportation of toys for children

- Colombia
- December
- A320neo

The Airbus Foundation teamed up with Aviation Sans Frontières and the Viva Air Foundation of Colombian airline Viva Air to transport and donate 800 kilos of toys for underprivileged children in Colombia after the destruction caused by hurricane Eta, and just in time for Christmas.

The airline leveraged its latest A320neo delivery from Airbus to transport more than 350 toys that were donated to three foundations that work closely

with the Viva Air Foundation in Medellin: Fundación Ximena Rico Llano; Corporación Huellas y Sueños de mañana; and Fundación Futuro de Colombia.

These efforts came after the Airbus Foundation provided humanitarian aid using Airbus-built helicopters in operations to communities in Honduras, Guatemala, and Mexico that were affected by Hurricane Eta.



# HUMANITARIAN MISSIONS WITH AIRBUS HELICOPTERS

A number of important humanitarian missions were performed during 2020 with Airbus-built helicopters. This once again underlines the value of flexible and responsive services offered by the Airbus Foundation and Airbus Helicopters products. Helicopter transport can save people from harmful situations and support rescuers on the ground while they are involved in emergency situations.

When seconds count, the deployment of helicopters for urgent airlift can make the difference in saving lives.

During the year, the Airbus Foundation facilitated more than 107 helicopter flight hours for various missions. Overall, some 950 flight hours with helicopters have been made available by the Airbus Foundation to emergency responders since 2013.

## Response after heavy flooding

- Kenya
- May
- H125

To help those most at risk after seasonal flooding in Kenya, the Airbus Foundation came together with Airbus Helicopters and Airbus Defence and Space to play a key role in assisting the Kenya Red Cross Society (KRCS) in serving vulnerable communities.

Heavy rains from March to May resulted in floods and landslides across many parts of Kenya, leaving thousands of households marooned. Most of the affected communities were in remote areas, limiting the KRCS' access and making delivery of aid difficult.

The KRCS team required access to satellite imagery and helicopters to assess the situation from an eye-in-the-sky perspective. Aerial evaluations of the affected areas enabled the KRCS to consider access routes and priority areas, develop immediate steps in planning the response and determining the disaster level – ultimately strengthening the response on the ground and the delivery of aid.

Furthermore, two missions were supported by the Airbus Foundation and Airbus Helicopters with an H125 that performed a total of 13.5 flight hours in operation by Tropic Air Kenya. The first carried approximately two tons of shelter and non-food items to the community of Pakase in Kajiado County, where 200 households were stranded for almost two weeks. The relief aid met the immediate needs for survival.



“Thank you to the Airbus Foundation for the continued partnership that always enables us to reach those most at risk.”

**Dr. Asha Mohammed**  
Secretary General of the Kenya  
Red Cross Society

The second helicopter mission transported KRCS personnel to Garissa and Tana River to carry out the aerial assessment mission. Following this assessment, it was concluded that the damage was far beyond what had been predicted and reported earlier.



# HUMANITARIAN MISSIONS WITH AIRBUS HELICOPTERS

## Response to the COVID-19 pandemic

- Chile
- August
- H125s

The Airbus Foundation – together with the Chilean Red Cross, Servicios Aéreos Kipreos and Servicios Aéreos SumaAir – collaborated to airlift more than 600 kilogrammes of medical supplies, including facemasks, face shields, and other personal protection equipment (PPE), along with personnel to several affected communities in the COVID-19 pandemic's response.

Two missions for a total of 22 donated flight hours were performed. Servicios Aéreos Kipreos and the Chilean Red Cross carried out the first operation using an H125 to fly from Santiago to Temuco with 155 kg of supplies. The second mission, operated by Servicios Aéreos SumaAir together with the Chilean Red Cross, transported 465 kg of PPE to Antofagasta, Alto Hospicio and Iquique with an H125.

The H125-delivered medical supplies were used by Chilean Red Cross volunteers supporting frontline efforts. Supplies also were distributed to vulnerable citizens, along with other critical goods such as food and hygiene kits.





# HUMANITARIAN MISSIONS WITH AIRBUS HELICOPTERS

## ETA hurricane response

- Central America
- November
- H125, EC145 and AS350 B3 helicopters

Airbus Helicopters joined with the Airbus Foundation's efforts to provide humanitarian aid to communities affected by hurricane Eta in Central America.

**Guatemala:** The Airbus Foundation coordinated an emergency operation using an H125 helicopter. In total, 10 flight hours were donated to distribute essential supplies such as food and water to flooded villages, as well as making aerial damage assessments. This mission was requested by the CDCS (French Crisis and Support Centre) and operated by the Compañía Proveedora de Servicios, SA.



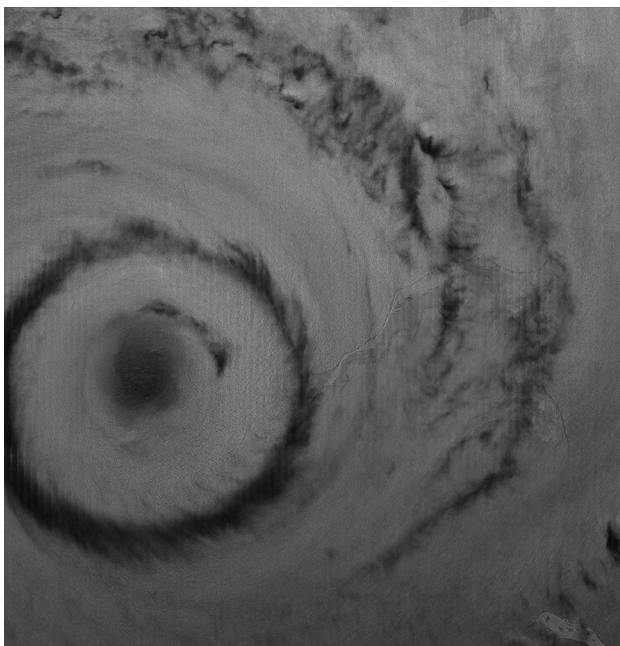
**Mexico:** Missions totalling 10 flight hours operated by Transportes Aéreos Pegaso with an EC145 helicopter were made possible by the Airbus Foundation's donation in response to a request by the CDCS. The EC145 was filled with food and blankets for delivery in Chiapas – one of the country's states most impacted by the tropical storm. The helicopter also performed aerial assessments of damage created by the hurricane.

# HUMANITARIAN MISSIONS WITH AIRBUS HELICOPTERS

## ETA hurricane response

- Central America
- November
- H125, EC145 and AS350 B3 helicopters

**Honduras:** The Airbus Foundation provided immediate support to people in Honduras affected by hurricane Eta, donating a total of 46.6 helicopter flight hours requested by the International Federation of Red Cross and Red Crescent Societies in two missions operated by an AS350 B3 from Lines Aéreas Trans Costa Rica SA. Aerial surveys were conducted for immediate lifesaving actions and emergency planning to support isolated communities with the distribution of essential items. The AS350 B3 also carried out medical transportation flights and ferry flight missions.



## Response to Typhoon Vamco

- The Philippines
- November
- EC130 T2

At the request of the IFRC (International Federation of Red Cross and Red Crescent Societies), five flight hours were donated by the Airbus Foundation for aerial assessment of the Philippines with an EC130 T2 operated by EastCoastAsia in response to urgent local needs in the wake of Typhoon Vamco.





# YOUTH DEVELOPMENT



# YOUTH DEVELOPMENT

From the COVID-19 pandemic's early days, the Airbus Foundation made a commitment to work closely with its global ecosystem of youth and STEM partners in ensuring the continuity of existing programmes – shifting some activities to different forms of interactions in keeping the link established between mentors and the mentees.

In parallel, a new youth strategy was defined. The Airbus Foundation's Board of Directors decided to integrate all our programmes under the same umbrella – focusing on STEM education through the development of engaging content on the Airbus Foundation Discovery Space (AFDS) digital portal for aerospace exploration.

This extensive shift enabled the Airbus Foundation and its partners to define a different implementation setup, responding to the digital transformation of the Airbus Foundation's youth programmes and an accelerating need for remote and digitally-oriented solutions. Therefore, the Airbus Foundation's focus during the third and fourth quarters of 2020 was on supporting its partners in a transition to more online activities.

The Airbus Foundation's strategy to integrate all the youth programmes into the AFDS platform resulted in the launch of a content creation campaign with several partners.



# YOUTH DEVELOPMENT

## The Flying Challenge

The Airbus Foundation's Flying Challenge (AFFC) programme supports our aim to promote social inclusion and inspire young people around the world through contacts with the aerospace sector. It was significantly impacted by the closure of many schools beginning in March 2020 due to the COVID-19 pandemic – including a complete freeze of activities in certain countries.

Rather than cancelling the Flying Challenge, the Airbus Foundation gathered our partners to digitalise the programme, converting it into a virtual workshop that replaced physical meetings held at different Airbus sites. This step maintained the essential link between the children and their mentors in uncertain times.

“There was a very positive ‘balance sheet’ through the mentors’ unfailing personal investment, even during the pandemic’s confinement period – and despite the crisis experienced by them and their enormous personal workloads.”

**Sylvaine Carretier**

Middle school teacher in Bellefontaine, France



# YOUTH DEVELOPMENT

From the core European Airbus countries and in Canada, creativity and agility have been key assets in exploring and maintaining new ways of carrying the Flying Challenge programme forward.

A YouTube channel was created to host videos made by Airbus volunteers supported by the NGOs in France -United Way, Traces, Face and Grands Frères Grandes Soeurs. Some newsletters were created to share useful topics such as job descriptions, soft skills, personal passions (art, science, sport...) and by conducting STEM workshops.

For @WomenScienceDay, more than 700 Spanish students felt the passion of Airbus volunteers who shared their experience from various company sites.

A digital platform was set up with the support of all the involved programme partners and the related schools, enabling digital interactions between the volunteers and student mentees.

In Germany, seven schools in the cities of Donauwörth, Friedrichshafen, Hamburg, Munich and Manching collaborated with the support of the three NGO partners -Rock Your Life!, Stadtteilbezogene Milieunahe Erziehungshilfen (SME) and the Roland Berger Foundation- thereby sustaining the Flying Challenge across the country during 2020. Over 280 people (student mentees, along with mentors and coordinators) were involved in the transition to a 100% digital programme.

The Flying Challenge remained solid in Brazil, where more than 60 students received a structured educational programme provided by 25 volunteers, including mentoring in mathematics and social behaviour presentations. The best-performing



students, from nine to 11 years of age, were rewarded with a tour of a ground-based flight simulator for the Airbus H225M helicopter in Rio de Janeiro.

Although seven schools in India faced the delivery cancellation of Ray Optics Kits (which contain a basic set of lenses and mirrors for ray and colour experiments), the programme did bring the involvement of 50 students – with more than 66% participation of girls.

In South Korea, a STEM-focused programme supported by the Young Falcon of Korea was performed in its entirety, involving 20 students from 20 different middle schools and six volunteers.

Due to the difficulty in accessing schools in the UK, programs in the country were postponed until the summer of 2021. In the U.S., the Tango Flight effort was postponed, while programme holds or postponements were made until the summer of 2021 in Mexico and Canada.

“Participating as a volunteer brought me back to my school days. The workshop’s involvement of both subject theory and practicality will help the concepts remain with children for their lifetime.

As the class was not too intense – and we had fun during the Q&A – it triggered the ability to think, while helping the children come out of their cocoons and express individual creativity. I thank the Airbus Foundation and the Deenabandhu Trust for this platform.”

**Raksha**

Airframe engineer at Airbus India



## Executive summary AFFC worldwide

(Annual report 2020)

### LOCATION



**10**  
countries



**27**  
sites

### STUDENTS



**1,886**  
mentees

### EMPLOYEES



**699**  
mentors



**79,393**  
hours spent in the program

# YOUTH DEVELOPMENT

## Airbus Foundation Discovery Space platform

The Airbus Foundation Discovery Space platform is an online portal that helps young people (ages 8 to 12) understand science through the world of aerospace. It's easy-to-navigate pages are also a science education partner for teachers and parents to engage students with STEM. They offer ready-to-use materials – designed by experts and presented in a safe and trusted virtual environment – which are split into three categories: the Science of Flight, Mission to the Moon, and Future of the Skies. This digital portal, with educational animated graphics and interactive aerospace-themed lessons in 3D design, continued its expansion in 2020.

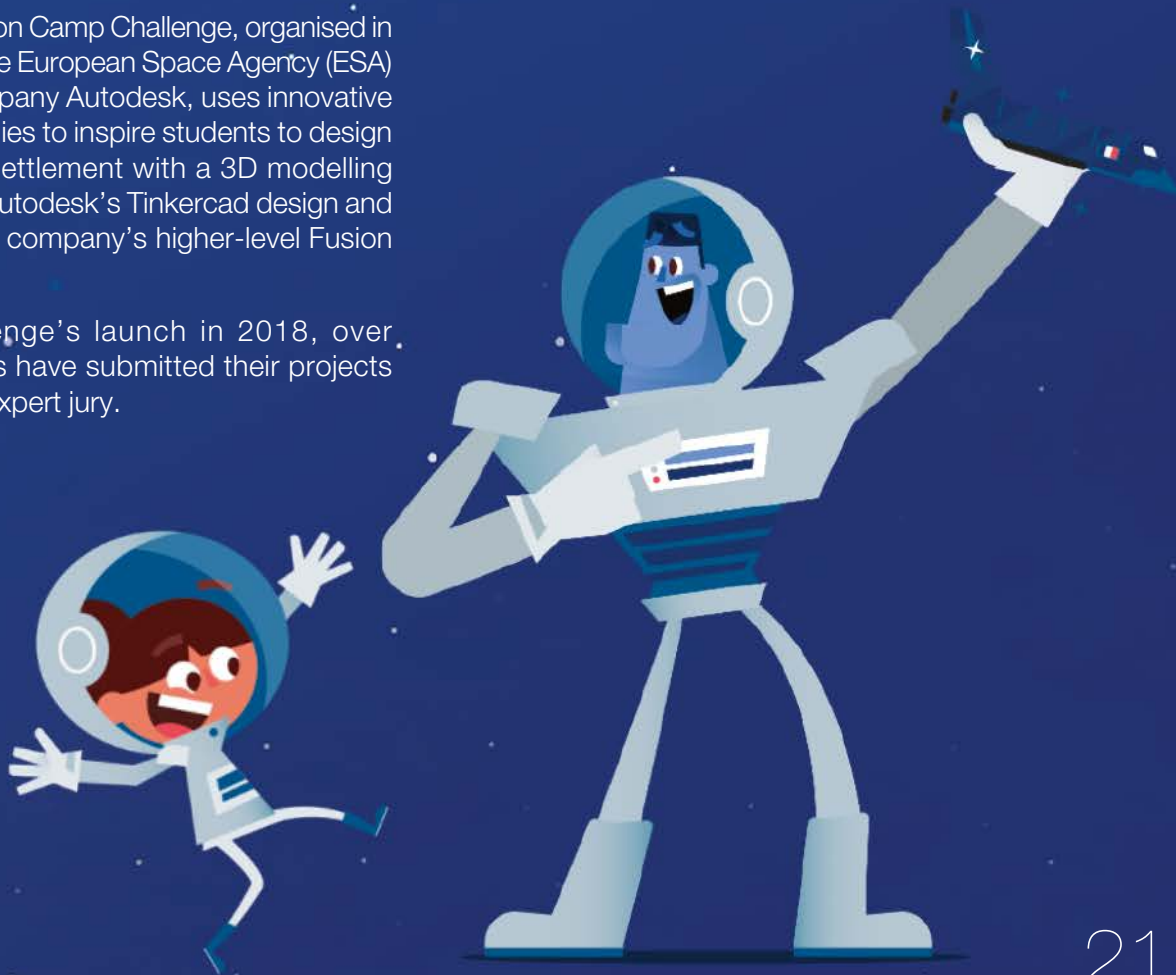
In 2020, the challenge on-boarded the participation of 1,417 students and teachers from 29 countries – adapting to deliver high-quality projects even with the COVID-19 pandemic's unprecedented disruption in schools.

Through interdisciplinary experiments, the teams engaged students to explore the extreme environment of space and understand how astronauts could live on the Moon by designing a Moon camp. The participants needed to consider the Moon's non-friendly environment and factor in the use of local resources to provide protection, shelter and working facilities for astronauts.



The platform's Moon Camp Challenge, organised in partnership with the European Space Agency (ESA) and software company Autodesk, uses innovative learning technologies to inspire students to design their own Moon settlement with a 3D modelling tool (using either Autodesk's Tinkercad design and coding app or the company's higher-level Fusion 360 software).

Since the challenge's launch in 2018, over 3,000 participants have submitted their projects to the vote of an expert jury.



# YOUTH DEVELOPMENT

## Discovery Club

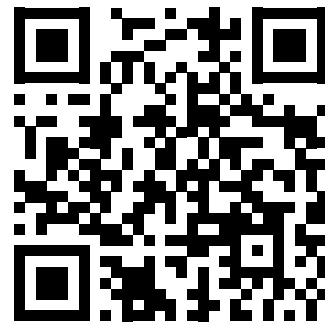
Learning Guides



### The Discovery Space Learning Guides (Discovery Club)

To inspire the next generation's interest in STEM, the Discovery Space Learning Guides were created by the Airbus Foundation. This newsletter campaign compiles entertaining videos, hands-on activities and quizzes illustrating the science that goes into the technologies of aerospace. Launched in October 2020, the e-mailed newsletters are designed for children from 8 to 12 years of age, and helps them think critically about their future. All the future-focused topics were developed in partnership with internal Airbus experts and volunteers, addressing such themes as cities, factories, skies, space, and more.

**SIGN UP NOW!**



<http://fly.airbus.com/DiscoveryClub>





# SATELLITE IMAGERY



# SATELLITE IMAGERY

The Airbus Foundation's 2020 activities included the support of humanitarian relief by providing satellite imagery to facilitate humanitarian sector assessments of major natural disasters and crises worldwide. With these satellite images and their analysis, emergency responders and disaster relief organizations were able to map out areas that otherwise could be difficult to access, determine the severity of damage, and coordinate the actions of their staff – on the ground and in the air.

The Airbus Foundation responded to 47 individual requests and delivered more than 40,000 square kilometers of satellite imagery to: ACF (Action Contre la Faim), the WFP-GLC (World Food Program - Global Logistic Cluster), the IFRC (International Federation of Red Cross and Red Crescent), and the CDCS (French Crisis and Support Centre).

## Nile river flooding

- Sudan



The CDCS requested a detailed assessment of flooding along the Nile River in Sudan, where the river's levels have risen considerably during recent years. Airbus Foundation-supplied satellite images provided highly valuable information on the impacted areas, enabling preparedness and response actions, as well as optimizing assistance to impacted communities.

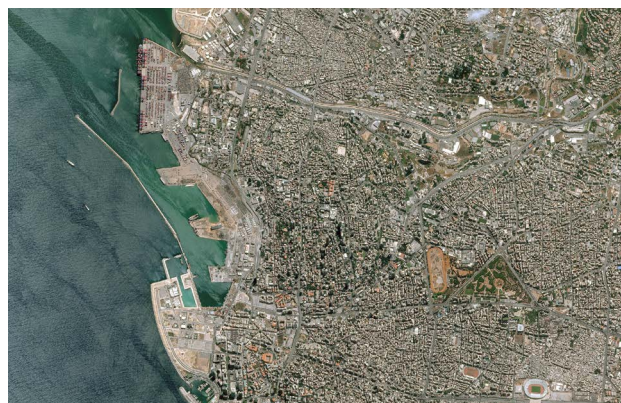
# SATELLITE IMAGERY

## Port explosion

• Beirut, Lebanon

Immediately after Beirut's massive port blast in early August, Airbus provided satellite imagery that helped personnel from governments, the IFRC, CDCS and first responders to analyse the damage of this catastrophe that caused at least 215 deaths and 7,500 injuries, while also impacting the lives of hundreds of thousands.

This imagery was from Pléiades optical satellites operated by Airbus Defence and Space, providing very high-resolution products (50 cm) with a 20 km swath coverage.



## Other satellite imagery



Satellite images enabled the Kenya Red Cross Society (KRCS) to assess the impact of substantial areas marooned by heavy rains during three months and which created floods and landslides across many parts of the country.

Airbus Defence and Space provided images taken by the Sentinel-1 and Sentinel-2 satellites, while very-high-resolution Pléiades satellite images with the related image analyses were made available through the partnership with the Airbus Foundation. The Airbus Foundation provides in-kind contributions to the humanitarian community in the form of assets and expertise via the Logistics Cluster. The Logistics Cluster is led by the World Food Programme (WFP) and is part of the coordination mechanism that is activated to ensure an efficient and effective emergency response.

In 2020, the Airbus Foundation provided imagery from SPOT Earth resources satellites to the GLC for assessments of the impact of cyclones, hurricanes and flooding in Laos, along with three requests for Pléiades satellite images of areas in Nicaragua, Cameroon and Nigeria, as well as Sudan.



The background is a complex, abstract geometric pattern. It features a dense network of thin, golden-yellow lines that form a web-like structure. Overlaid on this network are various polygons, primarily triangles and quadrilaterals, in shades of orange, yellow, and blue. The colors are vibrant and contrast sharply against the dark, almost black, background. The overall effect is one of dynamic energy and interconnectedness, suggesting themes of technology, innovation, and global networks.

# INNOVATION

# INNOVATION



**Airbus Foundation** @AirbusFdn · 5 mai 2020

We are honored to contribute to protecting healthcare professionals w/ the BRAVE solution during the transport of #Covid19 patients in helicopter ambulances. 🙏 @FAM\_fondation @Airbus\_heli engineers & all involved! @CHUDijon @DGAC @MinSoliSante, #babcock @AlerteSanitaire #SAF #MBH



“From the beginning of the crisis, the question arose regarding the safety of the teams assisting the patients. The first thing we did was to work on a protective cover that was placed on ambulance stretchers. We then wanted to make this protection available for helicopter transport.”

**Dr. Hervé Roy**

Head of the SAMU unit in Dijon

## Protection in air ambulance operations

- France
- May
- Various helicopter types

The Airbus Foundation and FAM (the Foundation of the French Academy of Medicine) joined forces to equip SAMU emergency medical helicopters in France with protective covers that keep medical professionals and helicopter crews safe during the airlift of patients that may be contagious.

The protective covers that were developed – called BRAVE – enable medical teams to transport patients in safe conditions by protecting them from airborne droplets, while also facilitating the installation of stretchers. Application of the BRAVE covers also reduces the time needed to disinfect a helicopter’s interior between missions with patients,

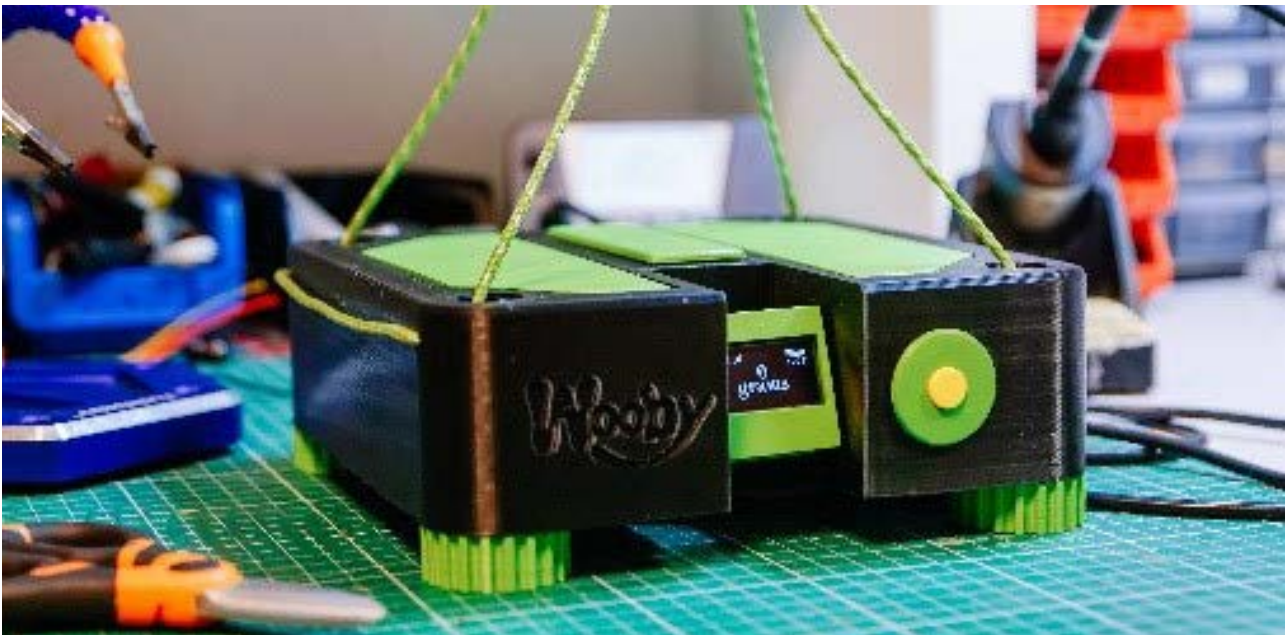
thereby increasing the number of possible flight rotations while maintaining a high level of safety for medical professionals.

The partnership was possible through the strong collaboration of many actors, including: the Airbus Foundation; engineers from Airbus Helicopters; the CHU university hospital centre in Dijon; operators (SAF, Babcock and Mont Blanc Hélicoptères); the French DGAC civil aviation agency and the French Ministry of Solidarity and Health; and FAM. A total of 28 helicopters have been equipped with this BRAVE “bubble”.



# INNOVATION

## Wooby baby weighing scale



The Airbus Foundation continues its work with the Humanity Lab – an internal Airbus organisation that facilitates public engagement and social innovation to drive progress on human development and create a more equitable world. Together, this partnership puts creativity and expertise from Airbus’ ProtoSpace global network of collaborative spaces, and fast-prototyping facilities, at the humanitarian community’s service through innovative projects.

For the past two years, Humanity Lab has been developing a high-precision, low-cost, portable weighing scale called Wooby for use with babies and young children.

This scale is designed for deployment in hard-to-reach communities in developing countries to help counter infant malnutrition, and its accuracy is sufficiently precise to measure the difference in an infant’s weight before and after breastfeeding. Wooby is connectable to a smartphone via Bluetooth. Despite the COVID-19 pandemic-related challenges of 2020, Airbus employee volunteers on the Wooby team achieved several milestones – including upgrades in the 3D design to enhance

the scale’s robustness and user experience, while also refining electronics and embedded software to extend the battery life.

Benefitting from the excellent, devoted work of the entire volunteer team, the initial Wooby scale departed on its journey to South Sudan in February 2021. Throughout 2021, the product will be improved based on feedback from the field, provided by staff members of the Medair international humanitarian organization. A further 10 units are to be produced for use in other locations.

“Wooby will be used at special inpatient units for the most severely malnourished children who require 24-hour care in order to survive. Having accurate scales to measure weight will improve an infant’s chances of surviving malnutrition and growing up to be a happy, healthy child.”

**David Verboon**  
CEO Medair



# INNOVATION

## Energy project



Action Contre la Faim (ACF) – an Airbus Foundation Partner that is present in 46 countries around the world – conducted a 2018 assessment of its buildings that identified certain degraded electrical installations with high risks for the safety of users.

A simplified electrical diagnostic tool was developed to audit the buildings' level of security, and the ProtoSpace India – through the Airbus Foundation – contributed its skills by designing and building the tool's app, as well as the data centralisation interface.

The initial project focused on graphic design and central functionalities. A second team is now working on synchronisation with the central database, aiming to minimise the necessary level of connectivity. The pilot phase is scheduled for the second quarter of 2021, and full deployment of the solution developed by ProtoSpace India is planned for September 2021.

“Converting our existing tool – which is a table filled out by hand – into a smartphone app was essential for us. This allows more precise diagnoses, and allows us to add photos to the audit reports as well as generate work recommendations based on defects found in the buildings.”

**Camille Evain**

Head of energy for ACF field sites



[Airbus Foundation](#)



[Discovery Space](#)



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