EVENT PROGRAM
February 5-7, 2020
Kigali, Rwanda
A guide to the
African Drone Forum
Symposium and Expo 2020

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WELCOME TO RWANDA
Provide location coordinates of land- and water-based targets covering around 2km² of a search area that is 20km from a droneport on the mainland in Lake Kivu, then return and land safely at the starting point.

Teams must take off from the mainland droneport and safely pick up as many 250g modules as possible from the droneport on Bugarura Island on Lake Kivu and return them to the mainland droneport.

Safely deliver an emergency package of at least 1kg from the mainland droneport to Bugarura Island in Lake Kivu and return to land safely at the starting point. The distance between the droneports is around 20km.

About the African Drone Forum

The African Drone Forum aims to support African governments to leapfrog in their industrial development by harnessing robotics, autonomy and digital technologies. Cargo drones can transform supply chains and connect hard-to-reach communities. Survey drones have the potential to transform how African land is digitized – accelerating markets for precision agriculture, land surveys, risk assessment, and infrastructure planning.

The Showcase

A three-day Symposium and Regulator’s Summit to discuss the future of the African drone ecosystem.

An Expo to showcase curated drone innovations relevant to African use cases.

The Lake Kivu Challenge flying competitions to address critical supply chain needs in the Lake region and drive innovations.

The African Drone Business Challenge to identify new business models enabled through drone technology and data.

COMPETITIONS INSPIRED BY REAL USE CASES

EMERGENCY DELIVERY

Safety deliver an emergency package of at least 1kg from the mainland droneport to Bugarura Island in Lake Kivu and return to land safely at the starting point. The distance between the droneports is around 20km.

SAMPLE PICK UP

Teams must take off from the mainland droneport and safely pick up as many 250g modules as possible from the droneport on Bugarura Island on Lake Kivu and return them to the mainland droneport.

FIND AND ASSESS

Provide location coordinates of land- and water-based targets covering around 2km² of a search area that is 20km from a droneport on the mainland in Lake Kivu, then return and land safely at the starting point.

About the Lake Kivu Challenge Flying Competitions

The Lake Kivu Challenge invites drone companies (manufacturers and operators) to help advance the safe implementation of beyond-line-of-sight operations in hard to reach communities of the Great Lakes region. The competitions are focused on electric drone technology with vertical landing or short landing capability (without need of runways nor petrol) that are low cost to operate and capable of high frequency flights. Companies must fulfill the minimum requirements in order to participate in one or several of three flying competitions that are designed to push the boundaries of and demonstrate the current state of Unmanned Aircraft Systems (UAS) technology for African markets. The aim of the flying competitions is to identify companies that are ready to provide delivery and mapping services around Lake Kivu, specifically in the Karongi District.
Government Officials

His Excellency Paul Kagame
President of the Republic of Rwanda

Hon. Claver Gatete
Minister of Infrastructure, Rwanda

Hon. Paula Ingabire
Minister of ICT and Innovation, Rwanda

Featured ADF Partners

Franz Drees-Gross
Regional Director, World Bank

Sarah Metcalf
Head of Office, World Bank Rwanda

Yasser El-Gammal
Country Manager, World Bank Rwanda

Stephen Creamer
Director Air Navigation Bureau, ICAO

Ahmareen Karim
Deputy Country Director, WFP Rwanda

Emile Nguza Arao
Executive Director, CASSOA

Yeon Myung Kim
President, Korea Institute of Aviation Safety Technology
Meet the Lake Kivu Challenge Flying Competitions Finalists

Find and Assess:
- HOJUNG SOLUTION
- senseFly (Parrot Group)
- QLEX
- LEXPR

Emergency Delivery:
- AVY
- PHOENIX WINGS
- germandrones
- WINGCOPTER
- venturi-uftech.com

Sample Pick-Up:
- VOLANSI
African Drone Business Challenge

148 Submissions

31 Countries

10 Finalists

1 Winner
DAY 1  WEDNESDAY  FEBRUARY 5

07:00  REGISTRATION

09:30  Welcome Note
Sarah Metcalf, Head of Office, DFID Rwanda

Opening Plenary “Africa’s Drone Economy”
Building out the drone ecosystem in Africa: visionary leadership and stakeholder partnerships
Moderator: Benedict Eijibergen, Practice Manager, East Africa Transport, World Bank
Hon. Paula Ingabire, Minister of ICT and Innovation, Rwanda
Terrie Ciwa, CEO, LifeBank
Leslie Cary, Chief, Remotely Piloted Aircraft Systems, International Civil Aviation Organization
Yeong Myung Kim, President, Korea Institute of Aviation Safety

10:30  Official Welcome
African Drone Forum Video
Hon. Clever Gatete, Minister of Infrastructure, Rwanda
Franz Drees-Gross, Regional Director, World Bank

Official Opening
His Excellency Paul Kagame, President of the Republic of Rwanda

11:30  TEA BREAK - Expo, Networking, Video Demos

12:00  Keynote “The 4th Industrial Revolution in Africa today”
Status and vision of African entrepreneurship, skills, and opportunities in the fourth industrial revolution.
Dr. Kamau Gachigi, Executive Director, Gearbox

12:20  Africa Updates
Africa is fast emerging as a technological frontier for drone use cases. Countries and companies are pushing the boundaries of technological performance seeking to prove the potential of drones to leapfrog services in agriculture, supply chain, disease control, rural mapping, and wildlife management. This session will present news and announcements from leading countries on their experiences and upcoming plans.

AU Perspective:
Tefera Mekonnen Tefera, Secretary General, AFCAC
Rwanda:
Isabelle Umugwaneza, Deputy Managing Director, Rwanda Airports Company
Sierra Leone:
David Manley, Policy Analyst, Directorate of Science Technology & Innovation, Office of the President
DR Congo:
Archimede Makaya, Provincial Coordinator, VillageReach
Mozambique:
Antonio José Beleza, Deputy Director of the National Emergency Operations Cer
The National Institute for Disaster Management (INGC)

DAY 1  WEDNESDAY  FEBRUARY 5

13:00  LUNCH - Expo, Networking, Training

14:00  Plenary “Unlocking the Lower Skies”
Representatives from Rwanda, Ethiopia, ICAO and AFCAC will discuss how UAS can reach its full potential in Africa.
Moderator: Isabelle Umugwaneza, Deputy Managing Director, Rwanda Airports Company
Col. Silas Udahemuka, Director General, Rwanda Civil Aviation Authority
Tefera Mekonnen Tefera, Secretary General, AFCAC
Barry Kashambo, Regional Director, ICAO ESAF
Prosper Zo’o Minto'o, Regional Director, ICAO WACAF

14:40  Ignore Talks: Introduction to Flight teams and technology
Lake Kivu Challenge finalists present a snapshot of their work and the technology that will be demonstrated during the LKC Flying Competitions.
Moderators: Denise Soesilo, ADF Industry Relations Consultant, World Bank
Jonathan Slater, Challenge Design and Management Consultant, IMC

16:10  Keynote “Korean Drone Policy and Challenges”
The story of South Korea’s industrial development and technology adoption includes a bold vision for drones for society.
Ilsan Hong, Deputy Director, Ministry of Land, Infrastructure and Transport, Republic of Korea

16:30  TEA BREAK - Expo, Networking, Video Demos

17:00  Introduction to ADF Tracks
Learn about different tracks of ADF Symposium in this session to decide which one to join!
Facilitators: Dr. Eng. George Mulamula, ADF Governments Liaison, World Bank
Dr. Eng. Jonathan Slater, Challenge Design and Management Consultant, IMC

17:20  Keynote “Droneports and Infrastructure services in Africa”
This presentation evaluates the role that vertiport infrastructure will play in the realisation of air mobility and provides recommendations for public authorities to enable the expansion of vertiports in support of passenger and cargo drones.
Simon Whalley, Head of Regulation and Policy, Skysports

17:40  Keynote “African Drone and Data Academy”
In 2020, the Government of Malawi and UNICEF launch the first African Drone and Data Academy – a facility dedicated to building skills and qualifications for the new drone economy.
Michael Scheibenreif, African Drone & Data Academy Lead, UNICEF

18:00  RECEPTION OFFERED BY THE GOVERNMENT OF RWANDA
09:00  Plenary “Drones for Agriculture – a game changer for Africa?”

Africa’s agriculture sector is being progressively transformed into a high-tech industry through digital services. Decisions are increasingly being based on real-time gathering and processing of data, feeding into gradually more effective decision support systems that are based on AI and machine learning algorithms. Unmanned aerial systems (UAS) are an integral part of this digital revolution. Benefiting from inputs from successful African operators and technology start-ups, this plenary session will review UAS innovations in the domains of crop diagnostics, pest control, fertilization and more, and will also explore service diversification as a way for the success of start-up enterprises. It will also review the role of development agencies in supporting the introduction, adoption, deployment and upscaling of UAS services across Africa’s challenging small-holder farming systems.

Moderator: Diana Mpyisi, CEO, Blue Oceans & Host, The Square
Giacomo Rambaldi, Senior Programme Coordinator ICTA, CTA
Eric Acquah, CEO, AcquahMeyer Drone Tech
Hamza Bendahou, CEO, SOWIT SAS
Eric Rutayisire, CEO, Charis UAS

10:30  Plenary “Surveys and Mapping”

The session will present progress already made to accelerate land digitization in Africa. Key applications domains include urban and rural planning, infrastructure condition surveys, land tenure and management.

Moderator: Diana Mpyisi, CEO, Blue Oceans & Host, The Square
Ibrahim Khalid Mambo, Head, Zanzibar Land Data Processing Center, COLA
Alexis Rutagengwa, Head of Department, Surveying, Land Use Planning and Mapping, Rwanda Land Management and Use Authority
Andrew Suheeko Cho, Vice President, Hujing Solution
Walter Vollmann, President, Micro Aerial Projects

12:00  Plenary “Disaster Risk Management”

UAVs are now an integral part of disaster risk management. They are used before disasters to get better prepared, during relief operations for rapid assessment and afterwards to help rebuild affected areas and communities. The session will provide an overview of the technologies deployed during the different phases of a disaster and will highlight the strengths and weaknesses of UAV integration while proposing ways to make their use more effective in disaster risk management.

Moderator: Leka Tingitana, Managing Director, Tanzania Flying Labs
Armelle Gnassou, Head of the AI Research Center, Ivory Coast Electricity Company
Col. Major Bako Boubacar, Director General of Civil Protection and Disasters, Niger
Seán Zandbergen, CTO, Shore Monitoring & Research
Philippe Hablinshuti, Director of Planning, Response & Recovery Unit, MINEMA
Tom Kim, President, Akon

14:00  Breakout sessions will run in parallel

TECHNOLOGY

Facilitator Antoine Beyeler, Co-founder, senseFly

The technology track provides an opportunity for end users, drone companies and technology providers to connect in a more intimate session. Companies will have the opportunity to elaborate on their day 1 presentations and end users may pose their questions and share their needs and expectations for future implementations.

Technology providers may also use this session to connect with drone manufacturers, present their solutions for flight planning software, hardware and services relevant to beyond visual line of sight (BVLOS) drone operations. Topics covered include business models, infrastructure, maintenance, costs, skills, training, safety, security, and operations.

Competition and demo teams may also choose to display their drones at this session and to further elaborate on the craft features.

REGULATIONS

Facilitator Harrison Wolf, Aerospace and Drones, Lead, WEF

Governments around the world are looking to enable new drone applications that provide social and economic value, but often struggle with how to approve the use of drones while maintaining public safety, security, and trust. A small group of African countries are leading the world in finding new ways to manage drones. The regulatory track of the African Drone Forum will focus on highlighting policy innovation from Africa and around the world, and will provide an opportunity for participants to review and help design new approaches to the management of drones. This track will enable participants to develop a roadmap for approving new operations using drones and to share their experiences using drones with one another. Presentations from African experts and international governing bodies in aviation will highlight the opportunity and experience of enabling these operations and highlight new guidance for review.
Airspace is both a limited natural resource and a strategic transport infrastructure. Until now, we have mainly explored and exploited our skies using manned aircraft. Thanks to the smartphone revolution, powerful, small, low power computers, combined with intelligent sensors and efficient electric propulsion systems, have been used to create a next generation of affordable flying robots, soon to be, all connected to the Internet. These “flying Internet of Things” will access low level/usage airspace and will numerically dominate our skies, transporting goods and passengers. Presentations on reliable and cyber-secure communication, navigation, surveillance and countering systems will be made by experts. How to safely and efficiently share the airspace will be discussed with traditional Air Navigation Service Providers and suppliers of new Unmanned Traffic Management services.

Drones have the potential to disrupt the health supply chain system of a country from product forecasting to order and stock management, logistics data management, and transport resource management. Human resource requirements will also be affected and health workers’ roles and responsibilities will evolve requiring new procedures and workflows. The Africa Drone Forum Logistics Track will bring together logistics and health supply chain experts to address how to integrate drone operations to transform existing health supply chains in a sustainable way. We will also discuss lessons learned from both successful or less successful international projects and have small group discussions on the operationalization of drone services resulting in the development by the participants of a roadmap for integrating drones in their supply chains.
**Plenary “Heavy lift”**

We are living in an era of unprecedented change in aviation where goods can be delivered directly to people in remote locations using cargo UAS. All combined efforts of people in aviation and related industries started to materialize in harmonized regulation allowing flights that were both safe and respectful to all participants in the air and on the ground. We started to see quick and very efficient blood transportation helping to safely deliver blood for people. We see successful efforts to vaccinate children in remote locations using cargo UAS. All this is done with drones capable of moving less than 5 kg. Moving food and medical equipment to a remote location would create one more challenge - how do we move more than 100 kg with UAS? This incremental increase in cargo weight makes principal changes in the mode of operation. Now UAS has to take-off from airports shared by manned aircraft and fly in airspace controlled by national air navigation service providers. How can we address those challenges?

**Moderator:** Oleg Aleksandrov, RPAS – UAS Project Manager, Aviation Services, WFP

**Kofi Asante,** Head of Strategy & Business Development, ElyAir

**Johann C. Dauer,** Teamleader, Research Scientist, DLR

**Sanjeev Gadhia,** CEO, Astral Aviation

**Marc Schwarzbach,** CTO & Managing Director, Phoenix Wings

**10:00**

**Plenary “Airspace Management for Unmanned Operations”**

Unmanned Traffic Service providers and connectivity providers discuss with aviation experts the future of airspace management and new service offerings for air navigation in the autonomous age.

**Moderators:**
- **Barbara Pareglio,** Technical Director, Drone Interest Group, GSMA-IoT Programme
- **David Guerin,** ADF Safety and Airspace Integration Adviser, World Bank
- **Philipp Blinks,** Head of Air Traffic Management, Attitude Angel
- **Marc Coen,** Chief Commercial Officer, Unify
- **Jae-Hyun Han,** Head of Research Team for Aviation Safety and Technology, Korea Transport Institute (KOTI)
- **Eustache Karagire,** Director for Air Navigation Services, Rwanda Airports Company
- **Braks Etta,** Representative in Africa, USA Federal Aviation Administration

**11:15**

**TEA BREAK - Expo, Networking, Video Demos**

**11:45**

**Plenary “Drone Regulations in Africa”**

As new and socially impactful opportunities for using drones emerge across the globe, Africa is already beginning to lead the drone revolution in logistics, natural resource monitoring, and humanitarian response. Leaders from the field of unmanned aviation will gather for a conversation that focuses on creating an enabling policy environment and harmonizing approaches to regulating unmanned aviation. This discussion is intended for government policymakers, drone operators, and technology experts to get an insider’s view of emerging governance models from around the world, with a special focus on the latest guidance from international organizations and leading government bodies.

**Moderator:** Harrison Wolf, Aerospace and Drones, Lead, WEF

**Emile Nguza Arao,** Executive Director, CASSOA

**Stephen Creamer,** Director Air Navigation Bureau, ICAO

**Joerg Dietrich,** Head of Department, Institute of Flight Systems, Unmanned Aircraft, DLR

**Francine Zimmermann,** Manager of Innovation and Digitalization, Swiss Federal Office of Civil Aviation

**Andrew Mutaburuka,** Head of Quality and State Safety Program, Rwanda Civil Aviation Authority

**13:00**

**LUNCH - Expo, Networking, Training**
Franz Drees-Gross  
Regional Director, World Bank
Mr. Drees-Gross has been the Regional Director for Infrastructure VP, responsible for the Latin America and Caribbean Region since July 2019. He was Practice Director in the Transport Global Practice (2017-19), Country Director for 13 Pacific island countries (2013-16), and Director of Strategy and Operations in the Office of the Chief Executive Officer (2010-16). Before this, he held various positions in the Sustainable Development (SD) Sector, including SD Sector Manager for Indonesia (2010-16), SD Sector Leader for Argentina, Chile, Paraguay and Uruguay (2007-10), and SD Sector Leader for the Andean countries (2004-07). Mr. Drees-Gross joined the Bank in 1997 as a Young Professional. Before joining the Bank in 1997, Mr. Drees-Gross worked as an engineer in Cote d’Ivoire, Peru and Yemen. He holds a Master of Science degree in Mechanical Engineering and a Master of Science degree in Management from the Massachusetts Institute of Technology (MIT).

Sarah Metcalf  
Head of Office, DFID Rwanda
Sarah Metcalf was appointed Head of DFID Rwanda in July 2017. Prior to this, she was Deputy Director for Eastern Europe and Central Asia and Head of the Joint DFID/Foreign Office Good Governance Fund. Sarah has held a range of positions in DFID, including Private Secretary to the Permanent Secretary. She has led teams developing policy and programming on security and justice and also forestry and the environment, and worked on a range of bilateral and multilateral donor programmes. She was Deputy Head of DFID’s office in Yemen and has also worked in Uganda.

Hon. Claver Gatete  
Minister of Infrastructure, Rwanda
Amb. Claver Gatete was appointed as the Minister of Infrastructure on 6 April 2018. Prior to this appointment, he served as Minister of Finance and Economic Planning since February 2013. He had previously served as the Governor of the National Bank of Rwanda (2011 to 2013), having previously served as its Deputy Governor. Amb. Gatete also served as Rwanda’s Ambassador to the United Kingdom, Ireland, and Iceland from November 2005 to December 2009. He is also currently a member of the Presidential Advisory Council. Prior to that, Amb. Claver Gatete had served successively as the Secretary General and Secretary to the Treasury in the Ministry of Finance and Economic Planning. Personal Representative of the President on NEPAD Steering Committees in the Office of the President, Coordinator of the National African Peer Review Mechanism (APRM), member of the APR National Commission; and Member of the NEPAD’s African Partnership Forum (APF) and the Director-General for Social and Economic Affairs. He also worked with the United Nations Development Programme (UNDP) – Kigali-Rwanda, as a National Economist.

George Mulamula  
ADP Government Liaison, World Bank
Dr. George Mulamula is currently the World Bank African Drone Forum Government Liaison. He is also the CEO and founder of Technoextra Advisory Services (TAS) dedicated to bringing about digital innovations and sustainable economic development with Regional Local Government Authorities. He was the founder and CEO of Dar Teknohama (DDT): a center for entrepreneurship & innovation hosted at the Commission for Science & Technology, the largest in East Africa and the only tech incubator in the country. He was managing a health delivery drone programme in the Lake Victoria Region. Prior to that he was the first Principal Deputy Chief Executive Officer of the Rwanda Development Board (RDB) and Senior Advisor in the Ministry of Commerce & Industry in Rwanda and worked on their SME and Entrepreneurship Policy. He was also the Senior ICT Advisor in the Government of Rwanda and in that capacity, the Lead Panelist for the Rwanda National Information Communication Infrastructure Policy Plan II.

Hon. Paula Ingabire  
Minister of ICT and Innovation, Rwanda
Paula Ingabire is a Rwandan technology enthusiast, who currently serves as the Minister of ICT and Innovation in the Government of Rwanda. Prior to her appointment as Minister, she served as Head of the ICT Business Development Department at the Rwanda Development Board (RDB) and coordinator of the Kigali Innovation City Project, a flagship program of the Government designed to nurture and strengthen a pan-African innovation eco-system in Rwanda. Minister Ingabire coordinated the creation of SMART Africa, an initiative that seeks to leverage broadband infrastructure as a driver for Africa’s socio-economic growth. The platform brings together Heads of Government, policymakers, and corporates across Africa to shape Africa’s digital transformation agenda. She is a graduate of the Massachusetts Institute of Technology’s School of Engineering & Sloan School of Management, in the System Design and Management program and holds a BS in Computer Engineering and Information Technology from the University of Rwanda.

Olivier Defawe  
Director, Health Systems, Drones for Health Lead, WEFAerospace and Drones, Lead, WEFAerospace and Drones, Lead, WEF
Olivier Defawe, Director Health Systems, leads the design and implementation of a broad portfolio of health innovations to improve health care delivery at the last mile with expertise in supply chain, digital health and clinical laboratory practice. Olivier leads the VillageReach Drone implementation. His innovation intend to help advance the exploration of drones as a solution to solve problems in the public health sector. In this role, Olivier manages the implementation Drone programs in Mozambique, Malawi, Democratic Republic of Congo, and the Dominican Republic. Finally, Olivier is the founder and coordinator of the UAV for Payload Delivery Working Group, a global community of over 250 stakeholders involved in the development and advancement of drones for use in public health and supply chain systems.

Benedict Eijbergen  
Practice Manager, East Africa Transport, World Bank
Mr. Eijbergen is the Practice Manager of East Africa for the World Bank’s Transport Global Practice. Previously, he held the same position for Southern Africa, Ghana, Liberia, Sierra Leone and Nigeria under the Transport & Digital Development Global Practice (2017-18). Prior to that, Mr. Eijbergen was the World Bank’s Program Leader for Economic Integration in India (2014-17) and coordinated the Transport & Digital Development, Urban Development, Social Development, Energy and PPP programs in India. Prior to joining the World Bank, he worked for the Government of Netherlands’ Ministry of Transport, Public Works and Water as Senior Policy Advisor for infrastructure. Mr. Eijbergen helped shape the restructuring of the Dutch Railways in the late 90s and was appointed Transportation Attaché for the Netherlands’ Government in Washington DC covering aviation, maritime/intermodal/imports, telecom and water management. Mr. Eijbergen has a Masters degree in Business Economics/Corporate Finance from Erasmus University Rotterdam, The Netherlands.

Harrison Wolf  
Aerospace and Drones, Lead, WEF
Harrison Wolf is a policy expert and author in the field of autonomous aerial mobility focusing on safety, security, & risk mitigation strategies. As the Lead for the Aerospace and Drones portfolio at the World Economic Forum’s Centre for the Fourth Industrial Revolution, Harrison envisions the future of autonomous flight for drones, flying cars, and beyond. Harrison published the internationally recognized Advanced Drone Operations Toolkit (ADOT) in collaboration with 30+ world governments, academic institutions, and numerous private companies. Harrison recently acted as a rapporteur for the International Civil Aviation Organization (ICAO) Task Force for the Use of Unmanned Aircraft Systems for Humanitarian and Development Aid. He continues to teach with 30+ world governments, academic institutions, and numerous private companies. Harrison recently acted as a rapporteur for the International Civil Aviation Organization (ICAO) Task Force for the Use of Unmanned Aircraft Systems for Humanitarian and Development Aid. He continues to teach with 30+ world governments, academic institutions, and numerous private companies. Harrison recently acted as a rapporteur for the International Civil Aviation Organization (ICAO) Task Force for the Use of Unmanned Aircraft Systems for Humanitarian and Development Aid. He continues to teach with University of Southern California, Aviation Safety & Security Program within the Viterbi School of Engineering where he published the world’s first safety textbook for drones entitled, Drones: Safety Risk Management for the Next Evolution of Flight.

Dr. George Mulamula is currently the World Bank African Drone Forum Government Liaison. He is also the CEO and founder of Technoextra Advisory Services (TAS) dedicated to bringing about digital innovations and sustainable economic development with Regional Local Government Authorities. He was the founder and CEO of Dar Teknohama (DDT): a center for entrepreneurship & innovation hosted at the Commission for Science & Technology, the largest in East Africa and the only tech incubator in the country. He was managing a health delivery drone programme in the Lake Victoria Region. Prior to that he was the first Principal Deputy Chief Executive Officer of the Rwanda Development Board (RDB) and Senior Advisor in the Ministry of Commerce & Industry in Rwanda and worked on their SME and Entrepreneurship Policy. He was also the Senior ICT Advisor in the Government of Rwanda and in that capacity, the Lead Panelist for the Rwanda National Information Communication Infrastructure Policy Plan II.
Isabelle Umugwaneza is currently the deputy managing director of Rwanda Airports Company. In her role, she oversees the implementation of strategic projects, and policies which aim to facilitate the growth and expansion of the aviation industry, particularly through the use of innovative digital solutions. Previously, she was involved in research, strategic planning and monitoring and evaluation of national policies.

Leslie Cary is the Chief of the Remotely Piloted Aircraft Systems (RPAS) Section in the Air Navigation Bureau at the International Civil Aviation Organization (ICAO). Leslie Cary is responsible for managing the work programme and coordinating all developments related to UAS / RPAS within the ICAO framework, including UAS traffic management (UTM). This involves working with Technical Panels, Study Groups, Advisory Groups, Task Forces and relevant external bodies on development of Standards and Recommended Practices, procedures and guidance material which will establish the basis for global interoperability and harmonization of RPAS, UAS and UTM.

Kamau Gachigi is the Founding Executive Director of Gearbox, a hardware accelerator that provides members with access to modern machines for prototyping and low volume manufacture, including electronics PCB fabrication, representing a unique window into Industry 4.0 capabilities in a developing country. Gearbox, along with the Kenya Commercial Bank Foundation, is a key partner in “Young Africa Works” project, Mastercard Foundation’s initiative to create 30 million jobs on the continent over the next five years. Dr. Kamau serves as a member of the Global Council on the Future of Production under the World Economic Forum. He is also recognized as an African Innovator by Quartz and the World Economic Forum. She is the Founder and CEO of LifeBank; Africa’s healthcare supply chain engine. The company helps hospitals discover essential medical suppliers and delivers them in the right condition and on time.

Temie Giwa is the CEO of LifeBank. Temie Giwa-Tubosun studied International Public Management from the Middlebury Institute of International Studies. She has over 10 years of health management experience with the Department for International Development (DFID), World Health Organization, UNDP, and the Lagos State Government. In 2019, the BBC listed her as one of the 100 Women-changing the world. She was also recognized as an African Innovator by Quartz and the World Economic Forum. She is the Founder and CEO of LifeBank; Africa’s healthcare supply chain engine. The company helps hospitals discover essential medical suppliers and delivers them in the right condition and on time.
**Denise Soesilo**
ADF Industry Relations Consultant, World Bank
Denise Soesilo is a world-renowned expert in unmanned aerial system (UAS) use in humanitarian and development settings, and in operationalising clean technologies. She has worked with the World Bank and other development, humanitarian and UN institutions – advising on the application and implementation of space-based systems and UAS technologies in humanitarian operations. She is currently leading the coordination of the flying operations at the upcoming African Drone Forum. Denise has led a European Union Humanitarian Aid innovation grant planning for the implementation of drones in humanitarian action globally and has authored several leading publications on UAS in development and humanitarian action.

**Michael Scheibenreif**
African Drone & Data Academy Lead, UNICEF
Michael Scheibenreif is the UNICEF lead for the African Drone and Data Academy which opened classes for its first cohort in January 2020. He is also driving UNICEF’s broader strategy on the ‘drone ecosystem’ to facilitate the provision of drones for good services in Malawi including the “harvesting” and long range autonomous drones that carry multiple sensors tailored to the agricultural sector. His interest in Africa and agriculture led him to use his skills acquired in his early days when playing professional basketball. He has launched, in 2018, a capacity-building UAS initiative in Ethiopia & SUPAERO in 2012, with degrees in “electronics & signal processing” and “aerospace & systems” at the Central University College based in Greater Accra, Ghana. Trained at the Brussels Aviation School and at the EASA-approved BAA aviation training centre in Vilnius, Lithuania, he is now a certified airline pilot and an aviation professional with over five years’ experience in aircraft sales and training of airline flight crews. Passionate about innovation, in 2017 he founded AccuahMeyer Drone Tech Ltd, in Ghana, where his company assemblies spraying drones and deploys them to serve agribusinesses and farmers cooperatives to address crop protection and fertilization, mainly on pineapple, rice, cassava, cowpea and maize. In 2019, Eric also started AccuahMeyer Robotics in Germany, using drones, robotic arms and artificial intelligence (AI) for wind turbine maintenance and repairs. Eric can implement effective aviation strategies at local and global levels. His greatest strength is business development, which is coupled with his team management skills that he acquired in his early days when playing professional basketball.

**Hamza Bendahou**
CEO, SOWIT SAS
Hamza Bendahou is the Co-Founder of SOWIT SAS, a start-up that builds decision support tools based on remote sensing to help the African farmers optimise their most critical operations. He graduated in France from ENSEEIHT & SUPAERO in 2017, with degrees in “electronics & signal processing” and “financial modelling”. After graduating, he worked in the flight test division of Airbus, then moved to Gras Savoye, where he had a five-year experience managing an actuary team. Passionate about UAVs, he designs and builds long-range autonomous drones that carry multiple sensors tailored to the agricultural sector. His interest in Africa and agriculture led him to use his skills to build algorithms that can help farmers reduce their inputs and maximize their yields. Hamza is a certified drone pilot that has trained multiple companies in the use of these technologies for precision agriculture. Hamza is fluent in English, French and Arabic.

**Col. Silas Udahemuka**
Director General, Rwanda Civil Aviation Authority
Col. Silas Udahemuka is a member of the board of directors of the EAC- Civil Aviation Safety and Security Oversight Agency which is a Regional Safety Oversight Organization (RSOO). Currently serving as the Director-General of Rwanda Civil Aviation Authority. Before being appointed to the position of the Director-General in 2014, Col. Silas deputized the Director-General in the same organization and was responsible for Airports Management and Operations. Col. Silas joined the Civil Aviation Authority in Jan 2007.

**Eric Acquah**
CEO, AccuahMeyer Drone Tech
Eric Acquah holds a degree in business, marketing and management from the Central University College based in Greater Accra, Ghana. Trained at the Brussels Aviation School and at the EASA-approved BAA aviation training centre in Vilnius, Lithuania, he is now a certified airline pilot and an aviation professional with over five years’ experience in aircraft sales and training of airline flight crews. Passionate about innovation, in 2017 he founded AccuahMeyer Drone Tech Ltd, in Ghana, where his company assembles spraying drones and deploys them to serve agribusinesses and farmers cooperatives to address crop protection and fertilization, mainly on pineapple, rice, cassava, cowpea and maize. In 2019, Eric also started AccuahMeyer Robotics in Germany, using drones, robotic arms and artificial intelligence (AI) for wind turbine maintenance and repairs. Eric can implement effective aviation strategies at local and global levels. His greatest strength is business development, which is coupled with his team management skills that he acquired in his early days when playing professional basketball.

**Giaccomo Rambaldi**
Senior Programme Coordinator ICTs, CTA
Giacomo is Senior Programme Coordinator ICTs at the Technical Centre for Agricultural and Rural Cooperation ACP-EU (CTA) in Wageningen, Netherlands. He has 37 years of professional experience in Africa, Latin America, Asia, the Pacific and the Caribbean where he worked for various international organisations including FAO and the ADII and on projects funded by the Italian Aid to Development and the EC. He is a member of the ICT for Agriculture (ICTAg) team at CTA and is coordinating a stream of activities related to the deployment of drone technology in agriculture including influencing drone governance’s policy making. Giacommo has been leading Wozio and Social Media capacity building activities at CTA and earned worldwide recognition for his work as recipient of the 2013 WSIS Project Prize in the category E-Agriculture. He also leads activities in the domain of participatory GIS where he animates a large community of practice. One of his projects earned CTA the 2007 World Summit Award in the category e-culture.

**Pierre Lucas**
Chief Air Transport Officer, WFP Ethiopia
Pierre Lucas is the coordinator of the United Nations World Food Programme (WFP) Aviation service in Ethiopia where he is managing three main activities: the United Nations Humanitarian Air Service (UNHAS), a transportation service of humanitarian workers, an Air drop operation to South Sudan and a drone project. He has launched, in 2018, a capacity building with the Federal Ethiopia in coordination with INSA (the UAS regulatory body) for the use of light UAS for food security, emergency preparedness and climate change mitigation. Under this initiative, 14 Federal Ethiopian agencies were trained in UAS flying, coordination, and data analysis. An engineer by profession (majoring in environmental health), Pierre Lucas is a commercially licensed pilot and a pilot instructor working for the last 10 years for WFP Aviation. He has extended experience in crisis management and humanitarian assistance in extreme and remote locations. Before WFP, Pierre Lucas was working for the crisis center of the French Ministry of Foreign Affairs (DIOC).
Eric Rutayisire
CEO, Xaxis UAS
Eric is the founder and CEO of Xaxis UAS. He is a holder of a master’s degree in electrical engineering from the University of Minnesota-Twin Cities. He has vast experience in R&D, service and business development. In 2014, he founded Xaxis UAS, the first drone company in Rwanda whose mission is to provide aerial imagery for intelligent decision making for various industries such as agriculture, mining, infrastructure inspection, health and construction. Now, the company has expanded and operated in 5 countries in Africa and won multiple awards across the continent. Eric has been listed on the 2019 Forbes 30 Under 30 list in technology categories and was voted top 3 All Africa Business Leader Award Young business and Innovator Award.

Diana Mpyisí
CEO, Blue Oceans & Host, The Square
Diana Mpyisí is currently the CEO of Blue Oceans, a media and communications consultancy firm. As of February 2018, Blue Oceans produces The Square, a popular, weekly current affairs English show on Rwanda Television hosted by Diana. Previous roles include Director for Communication and Protocol in the Office of the First Lady of Rwanda, and English news anchor at Rwanda Television. She is a writer and since 2002, has written for The New Times and various publications in Rwanda and on the African continent. Diana is also the Co-Founder of Spoken Word Rwanda - a platform that promotes spoken word talent amongst Rwandan youth. She is the Founding Curator for the Kigali Global Shapers Hub. Diana undertook her undergraduate studies in Journalism and Politics at the University of Johannesburg, South Africa. She has an MA in Creative and Media Enterprises from the University of Warwick in the UK. As of May 2017, Diana became an Eisenhower Fellow, awarded by Eisenhower Fellowships President George de Lama and its former Chair, Major General Collin L. Powell.

Ibrahim Khalid Mambo
Head, Zanzibar Land Data Processing Center, COLA
Ibrahim Mambo is an avid geospatial practitioner from Zanzibar. His main focus is on remote sensing and webmap application development. He has a bachelor degree in Information Technology and a Masters degree in Geographic Information Systems. He currently works as Commission for Lands in Zanzibar which is under the Ministry of Land, Housing, Water and Energy at Zanzibar Land Data Processing Center (ZLDPC), where he oversees spatial data management and maintenance. His other responsibilities include webmaps architecture, configuration and maintenance. These webmap applications are used by different departments within the Commission for Lands to facilitate their day to day operations in managing the land sector in Zanzibar. He is a member of the technical team responsible for the development of Zanzibar Spatial data Infrastructure (ZanSDI) technical framework. He also works as a geospatial expert and data manager in the Resettlement Action Plan (RAP) Team for Zanzibar Urban Services Project.

Leka Tingitana
Managing Director, Tanzania Flying Labs
Leka’s mission is to develop robotics and AI capacity in the East Africa region with a special focus on drones and related data products. He is working with urban resilience programs in Tanzania and beyond to develop accurate flood models and change detection tools. Leka is a Tanzanian Digital Changemaker with a Bachelor of Science in Electrical/Electronic Engineering from the University of Houston and an MBA from the International University in Geneva.

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Deputy Director, Ministry of Land, Infrastructure and Transport, Republic of Korea
Mr. Ilsan Hong is a Deputy Director of Advanced Aviation Division, Ministry of Land, Infrastructure and Transport, Republic of Korea (MOLIT). Previously, he worked as a Deputy Director of Aviation Industry Division and Motor Vehicle Management And Insurance Division of the Ministry of Land, Infrastructure and Transport, Republic of Korea. Mr. Ilsan Hong holds a Bachelor’s Degree in Law, Korea University, ROK.

SenseFly
Co-founder, senseFly
Antoine Beyeler is a drone technician with 16 years of experience in the industry. In 2009, he co-founded senseFly, which became the world leader in fixed-wing mapping drone solutions. He headed its research and development activities until 2018, leading the development of five generations of drone products. Antoine studied at the Swiss Institute of Technology in Lausanne (EPFL) and holds a MSc in Micro-Engineering and a PhD in Vision-Based Flying control, trajectory generation and artificial intelligence. Before active at DLR, he worked on spectral resolution x-ray detectors for computer tomography at the Philips Research Labs in Aachen, Germany. He graduated that year, to investigate and help the mobile industry to create a trusted solution for commercial unmanned aircraft. Since 2016, he has been the technical lead for the GSMA Internet of Things Programme, working on several aspects of IoT. Barbara has over 20 years of experience in the mobile industry. Before joining the GSMA, Barbara worked in R&D in several areas of telecommunications, including Intelligent Networks, IMS, Service Enabling and M2M/IoT. She also participates in, and actively contributed to several standards.

Dr. Doo Soon Lee is a CEO of Doosan Mobility Innovation, a subsidiary of Doosan Group which has $16.5 billion revenue. Hydrogen fuel cell, which is clean and with high energy density, is Doosan’s proprietary technology applied for power plant and mobile applications, and Doo Soon is leading new businesses with this innovative technology to provide clean long endurance drone solutions. He started his career as an engineer to develop gasoline and diesel engines at Hyundai Motor Company, before he established Doosan Mobility Innovation, he worked as a leader of global marketing & product management in Doosan Infracore (construction & mining equipment manufacturer).

Sean Zandbergen
CTO, Shore Monitoring & Research
Sean Zandbergen is a hydraulic engineer with extensive expertise in the field of data acquisition as input for flood risk assessments, hydrodynamic and morphological (monitoring) studies. He is the CTO of Shore Monitoring & Research, which has grown to become an internationally valued service provider in the area of data acquisition for flood risk assessments, model studies, design and implementation of monitoring strategies, analysis and impact assessments of interventions, innovation and capacity building. With his combined knowledge of the hydraulic engineering domain and a large number of survey techniques, he is an expert in translating desired model input into an efficient acquisition strategy. He is decisive and knows what it takes to collect high-quality fit for purpose data in challenging conditions.

Kofi Asante
Head of Strategy & Business Development, Elroy Air
Kofi Asante is the Head of Strategy and Business Development at Elroy air. Prior to Elroy Air, Kofi was a part of Uber’s advanced technology strategy group team which launched Uber freight. During his time at Uber freight, Kofi built an Uber entity he named “Powerloop” which maximizes utilization for truck drivers by decreasing wait time at facilities. The division is now expanding nationwide enabling drivers to seamlessly ‘loop’ to their next load by utilizing a shared pool of pre-loaded trailers. The program has helped thousands of drivers maximize their workday and come home early to their families all at the same time.

Sanjeev Gadhia
CEO, Astral Aviation
Sanjeev Gadhia is the Founder and CEO of Astral Aerial Solutions Ltd which is an Integrated UAV Service Provider which is based in Nairobi, Kenya, and is an associated with Astral Aviation which is Africa’s largest private cargo airline with a fleet of 7 aircrafts. With 20 years of Aviation and Logistics experience in Africa, Astral’s mission is to be part of the drone revolution in Africa, by adapting technology and innovation to solve Africa’s problem of poor infrastructure and accessibility, so that it can leapfrog to the future. In 2017, Astral won the prestigious ‘IATA Cargo Innovation Award’ for its UTM for Africa. In 2018, Astral was ranked as ‘Africas Top 10 Tech Startups’ and selected by Airbus to participate in Bizlab #Africa4Future Accelerator programme. In April 2019, Astral was recognized by World Bank as the Winner – Data Analytics of its Disruptive Agricultural Technology challenge.

Oleg Aleksandrov
RRAS - UAS Project Manager, Aviation Services, WFP
Senior Marketing Manager experienced with diverse technologies. Innovative strategist with proven ability to identify, launch and manage products and services in both emerging and established markets. "I have been particularly effective in technology evaluation, business modelling, and human-centered design. With a strong technical background and customer support experience, I worked 23 years with Fortune 100 firms in different countries on global projects. Recently, I have taken a new chapter in my career by moving to a global humanitarian organisation. My industry background, will help to reduce the world’s hunger. One of my strengths is developing an effective and efficient product strategy for technology driven global markets. In the current capacity I am developing RRAS-UAS and Airship options for Humanitarian Cargo delivery."

Johann C. Dauer
Teamleader, Research Scientist, DLR
Johann C. Dauer is leading a team on Safe Autonomy in the Department of Unmanned Aircraft at DLR (The German Aerospace Center). Since 2016, he has been head of the DLR project ALAADy (Automated Low Altitude Air Delivery) focusing on mid-size drones for transportation. The project covers system design and market assessment for drones with one metric ton of payload capacity applying new operational risk-based assurance concepts. Johann has been research scientist at DLR since 2008 and has been working on many systems related aspects of drone research since then. He is especially interested in methods to safely increase the level of autonomy including flight control, trajectory generation and artificial intelligence. Before active at DLR, he worked on spectral resolution x-ray detectors for computer tomography at the Philips Research Labs in Aachen, Germany. He graduated that year, to investigate and help the mobile industry to create a trusted solution for commercial unmanned aircraft. Since 2016, he has been the technical lead for the GSMA Internet of Things Programme, working on several aspects of IoT.

Barbara Pareglio
Technical Director, Drone Interest Group, GSMA-IoT Programme
Barbara has been leading the GSMA Drone Interest Group for the last four years, to investigate and help the mobile industry to create a trusted solution for commercial unmanned aircraft. Since 2016, she has been the technical lead for the GSMA Internet of Things Programme, working on several aspects of IoT. Barbara has over 20 years of experience in the mobile industry. Before joining the GSMA, Barbara worked in R&D in several areas of telecommunications, including Intelligent Networks, IMS, Service Enabling and M2M/IoT. She also participates in, and actively contributed to several standards.

Ilhan Hong
CEO, Doosan Mobility Innovation
Ilhan Hong holds a Bachelor’s Degree in Law, Korea University, ROK.
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SPEAKERS

Marc Schwarzbach
CTO & Managing Director, Phoenix-Wings

Dr. Marc Schwarzbach is CTO and managing director of Phoenix-Wings, a company focused on UAS development and services situated in Munich, Germany. Since 2004 he is actively involved in UAS, pushing systems and applications in many fields including remote sensing, aerial robotics for close interaction and high-altitude platforms (HAPS). As a researcher at German Aerospace Center DI. R, he performed flying robotics projects recognized worldwide before establishing development centers for international UAS Companies in Germany. He is author or co-author of technical publications and patents in the UAS domain.

David Guerin
ADF Safety and Airspace Integration Adviser, World Bank

David Guerin worked for 35 years in air traffic control in Australia and Ireland, air traffic management research, and safety and change management, retiring in 2016. Unmanned aircraft and their integration into airspace became an interest in 2012, leading to a sabbatical with the German Aerospace Centre, a move to Winchester England and various voluntary efforts focusing on humanitarian aid (www.dronesregulations.info, NATO, IAPCA & CTAG UAS coordinator, judge for drone competitions, etc.). Since 2017, David has provided safety and airspace integration advice to the Lake Victoria Challenge in Tanzania now called the Lake Kivu Challenge as part of the African Drone Forum, taking place in Rwanda in February 2020.

Marc Coen
Chief Commercial Officer, Unifly

Marc Coen is heading Unifly’s international sales team. Marc holds an IT degree from the Karel de Grote Hogeschool in Antwerp. Before joining Unifly Marc held different positions in the IT and BPO industry in Sales, Pre-Sales and Account Management, including Engagement and Implementation Manager Europe at Xero. Marc will be leading the commercializing of the Unifly software suite on a global scale.

Philip Binks
Head of Air Traffic Management, Attitude Angel

Philip Binks joined Attitude Angel May of 2018 to take up the newly created position of Head of Air Traffic Management. Previously, Philip worked for the UK’s largest ANSP, NATS where he held the position of RAPAS Domain Expert and Solution Architect. In this role, he was the focal point for all RAPAS activities. In addition, Philip supported several high profile programs such as the UK’s Pathfinder program, the Industry Action Group, and held a seat on the ICAO RAPAS Panel. Having begun his career in aviation as an Air Traffic Controller for the RAF, Philip has an unrivalled knowledge of ATM and airspace, and understands the complexities of integrating drones safely into our airspace.

Jae-Hyun Han
Head of Research Team for Aviation Safety and Technology, Korea Transport Institute (KOTI)

Dr. Jae-Hyun HAN graduated from Korea Aviation University for BSIC Degree and from Seoul National University for MSIC Degree of Aeronautical Engineering. He received a scholarship from the British Council to study overseas at the University of Manchester resulting in his Ph. Degree in the Department of Aeronautics and Space Engineering in 1995. He worked for Samsung Aerospace and Agency for Defense Development. In 2004, he received a scholarship from the French government to study Aerospace MBA at Toulouse Business School, France. In 2010, he joined The Korea Transport Institute. Since then, he has performed aviation transport research focusing on safety and technology. Recently, he is performing a research project on the related regulations for the safe operation of unmanned aerial vehicles in the Republic of Korea. He is working as an adviser in ICAO RPAS (Remotely Piloted Aircraft Systems) panel since January 2019.

Eustache Karagire
Director for Air Navigation Services, Rwanda Airports Company

Mr. Eustache Karagire is currently the Director of Air Navigation Services for Rwanda Airports Company, based in Kigali since April 2012. Involved in Rwanda Airspace Management and for airspace projects in the Regional. He has been involved in airspace initiatives in COMESA Airspace Integration, held position of Assistant Project Coordinator and Northern Corridor Airspace Management Initiative as Country focal Person. His involvement in regional airspace started in 2009. Since then, he has assisted the Regional to establish a roadmap seamless airspace in East African Community (EAC) in one hand and concluded in June 2019 a Seamless Airspace operation feasibility study for COMESA with clear Regulatory, Institutional and Technical framework. Beginning 2017 with Drone operation in Rwanda, he is leading a successful UAS integration in Rwanda airspace handling traffic of close to a daily hundred drone flights in a non-segregated airspace.

Braks Etta
Representative in Africa, USA Federal Aviation Administration

Braks joined American Embassy-Dakar in September 2019 as the Federal Aviation Administration’s (FAA) Senior Representative in Africa. Braks is responsible for advancing FAA’s civil aviation goals in Africa by promoting safety and efficiency through harmonization of global standards and ensuring cooperation through international alliances. Braks’ primary role is to liaise with the leadership of the International Civil Aviation Organization’s (ICAO) regional offices in Dakar and Nairobi, African Civil Aviation Commission (AFAC), International Air Transport Association (IATA), Airports Council International (ACI), Sub-Saharan Regional Safety Oversight Organizations (RSOO), Air Navigation Service Provider leadership, and the Directors General of Civil Aviation Authorities throughout Sub-Saharan Africa. Braks has over 30 years FAA experience working with communications, navigation, and surveillance programs. Braks just ended a three-year tour as the FAA Air Traffic Organization Senior Representative for Asia Pacific, based in Singapore. Braks holds a Masters Degree in International Management (MIM) from the University of Maryland University College (UMUC).

Emile Nguza Arao
Executive Director, CASSOA

Emile is a highly talented and accomplished Aviation Professional currently holding his Bachelor of Science Degree in Aircraft Engineering Technology, His Master’s Degree in Business Administration in Aviation, with a specialization in Aviation Systems Management; both obtained from Embry-Riddle Aeronautical University. He has also worked as an Airframe and Power-plant (A&P) mechanic and he holds a Kenya and USA Multi-Commercial Pilot license with an Instrument Rating. In East Africa, Emile is known as the ”Business Advisor”, considered one of the aviation industry’s leading experts on setting up business systems and optimizing high-value operations specializing in projects requiring start-up and turnaround expertise. He has been dubbed the “idea factory” by many of his colleagues as he has the ability to identify trends and focus on fast results. He is a leading expert on Strategic Planning & Analysis, Operational Planning, Regulatory Compliance and Process Improvements.

Stephen Creamer
Director Air Navigation Bureau, ICAO

Steve Creamer has served as Director of the Air Navigation Bureau at ICAO since April 2015. Steve previously held a number of executive and managerial positions at the U.S. Federal Aviation Administration with over 33 years experience in the Air Traffic and International Aviation organizations. They include serving as FAA Regional Office Director for Alaska and the Middle East; and serving as a member of the ICAO Air Navigation Commission. Steve began his career in air traffic operations, eventually managing Alaskan and North Pacific airspace, pioneering new airspace use techniques that improved capacity and access for all operators. More recently his work has broadened to the international implementation of procedures and technology systems that improve aviation safety, with a careful eye toward retaining capacity and efficiency.

Mary Wildes
Director, IATA

Mary Wildes is the Director of IATA’s Global Distribution Solutions group. In this role, Mary has responsibility for overseeing the delivery of IATA standards and specifications that enable the efficient and seamless exchange of air transport data across the global airline network. She is also responsible for the delivery of IATA’s Universal Project, an industry led initiative to enable seamless, real-time electronic booking for air transport. Under Mary’s leadership, IATA has developed a number of key tools to support airlines and e-commerce partners in their transition to e-B booking, including the Implementation Guide, a free online resource designed to support airlines and their partners as they develop an end-to-end solution to enable e-B. Mary joined IATA in 2004 as the Business Analyst for the IATA Travel Agency Agreement Project. Prior to joining IATA, she worked at American Airlines in the Business Planning group. Mary holds a B.S. in Finance from the University of Maryland College (UMUC).
Eric Peck
CEO, Swoop Aero
Eric Peck is the Chief Executive Officer of Swoop Aero. Eric commenced his career as an Air Force Pilot, where he was a qualified C130 Hercules Captain, & led combat and humanitarian missions from the Pacific islands to the Middle East. Following nine years as a pilot, Eric worked as a management consultant at a boutique consulting firm focused on value chain strategy, then at Deloitte in Strategy and Operations team. Eric has overseen all business operations at Swoop Aero, including commercial fundraising, development of the supply chain integration strategy, and deployment of autonomous air transport operations in three countries. He is a graduate of the Australian Defence Force Academy and holds both a Bachelor’s Degree in Technology and a Master of Business Administration.

Joerg Dittrich
Head of Department, Institute of Flight Systems, Unmanned Aircraft, Swiss Federal Office of Civil Aviation
Mr. Joerg Dittrich has a background of more than 19 years in academic and institutional research on Unmanned Aircraft Systems. He is the department head for Unmanned Aircraft at the DLR Institute of Flight Systems in Braunschweig, Germany, guiding a team of over 60 scientists and engineers in the fields of advanced and verifiable autonomy, automated situational awareness, risk and airworthiness analysis and flight test design and integration. He is an expert for risk assessment methods and their impact on future unmanned aircraft design, which he applies as an advisor to JARUS work group 6 for the development and verification of the SORA (Specific Operation Risk Analysis) methodology. He serves the drone community as a member of the ICAO Task Force on Unmanned Aircraft Systems for Humanitarian Aid and Development, which has prepared the material for ICAOs recent U-AID guidance document.

Andrew Mutabaruka
Head of Quality and State Safety Program, Rwanda Civil Aviation Authority
Andrew Mutabaruka is the Head of Quality and State Safety Program (SSP) Administration at RCAA. He was an Air Traffic Controller at Rwanda Civil Aviation Authority and a Safety Manager for Air Navigation Services (ATS) from 2014 to 2018. Mr. Mutabaruka participated in the Development of Air Navigation Services Regulations in Rwanda Civil Aviation Authority and in the Development of Performance-based Regulations for UAS in Rwanda CAA. He is a member of Drone Technical Advisory Committee of Rwanda and a Member and Focal person of Rwanda in Joint Authorities for Rulemaking in Unmanned Systems (JARUS). Mr. Mutabaruka was nominated by ICAO to be an ICAO RIAS panel as a member.

Francine Zimmermann
Manager of Innovation and Digitalization, Swiss Federal Office of Civil Aviation
Francine Zimmermann is responsible for developing policy and international regulations for emerging technologies such as civil drones and UTM. She co-leads the FOCA Innovation and Digitalization Unit, creating cutting edge frameworks for seamless and safe integration of advanced technologies in the digital airspace of tomorrow. Prior to assuming her current role, Francine led the coordination and representation of Swiss interests in the field of civil aviation safety, overseeing and supporting development of international strategy and decision-making processes. Francine holds a master degree in Economics and Social Sciences from the University of Fribourg, Switzerland, and an experienced professional in international relations, policy development and governmental affairs. She developed her skills first at the Directorate for European Affairs, before joining the State Secretariat for Economic Affairs.

Catalina Ochoa
Senior Transport Specialist, World Bank
Catalina is a Senior Transport Specialist at the World Bank working at the intersection of transport, data and technology. Catalina manages several urban transport initiatives in the East Africa region, while also serving as global lead for innovations platforms and disruptive tech in the sector. Prior to moving to East Africa, Catalina managed the WBI urban transport portfolio in Mexico and Argentina and worked in operations in Latin America and Asia. Catalina has substantial experience in the tech/development space. With Amazon she worked on their supply chain and logistics strategy, and at Uber she was Strategy Manager and General Manager in Latin America, Africa and the Middle East. Catalina is a recognized voice in the transport community and has published on transport and open data, jobs accessibility, clean technology, logistics, climate change, gender, etc. Catalina is an engineer with a Masters in City and Regional Planning and a Masters in Transport Engineering from the University of California at Berkeley and an MBA from INSEAD.

Ashley Greve
Project Manager, USAID Global Health Supply Chain Program - Procurement Supply Management
Ashley Greve joined Chemonics in 2016 on the USAID Global Health Supply Chain-Procurement and Supply Management project. After three years on a project management unit, she now works as a Warehousing and Distribution Analyst on the project’s Health Systems Strengthening team. Her current work spans a variety of global health supply chain initiatives in the areas of temperature monitoring throughout health commodity supply chains, transportation management activities, and support of unmanned aerial vehicle (UAV) applications. Prior to Chemonics, she worked as a data analyst for Planned Parenthood of the Rocky Mountains, as director of advocacy at a center for human trafficking research, and served two years in the Peace Corps Ukraine. Ashley holds an M.A. in International Studies with a focus on human rights and forced labor.

Abdoulaye Gueye
Senior Program Officer, PATH Senegal
Abdoulaye GUEYE obtained a master’s degree in Natural Sciences / Biology at Cheikh Anta Diop University in Dakar and an MBA in Organizational Management at the Institut Supérieur de Management de Dakar (ISM). He currently works with PATH (one of the world’s largest international nongovernmental organizations) since January 2013 as a Senior Program Officer in the field of supply chain management and cold chain management for vaccines. He has field tested several vaccine conservation devices such as Arktek (passive long term vaccine conservation device designed by the Intellectual Ventures / Global Good laboratory based in Seattle, USA), LTVC vaccine conservation device designed by Sure Chill company based in the UK), B-Medical ex DOMETIC EHC (vaccine conservation device coupled with a kit to recover excess energy from solar panels for use in non-electrified health facilities). Prior to his collaboration with PATH, Mr. Gueye also worked with ADEMAS, a USAID agency based in Senegal that deals with HIV prevention and family planning, for 5 years as Program Supervisor and Logistics Manager. Abdoulaye has nearly 15 years of experience in the management of health programs in Senegal.

Cleopa Timon Otieno
Managing Director, Kenya Flying Labs
Cleopa Timon Otieno, Managing Director of Kenya Flying Labs is certified drone pilot and a drones data specialist with a keen interest in humanitarian drone applications. He has a background in computer science and extensive experience working within non profit settings promoting use of technologies in rural communities in Kenya.
Eduardo Rodríguez
Enterprise Product Manager, DJI
Eduardo Rodríguez works as Enterprise Product Manager at DJI, the world’s leading manufacturer of civilian drones. He provides technical guidance to R&D, Sales and Business Development teams, and is responsible for the design, development and customisation of enterprise drone solutions so they can be adjusted to customers’ requirements. Eduardo has worked on multiple projects with industry-leading stakeholders in different areas such as Public Safety, “Drones for Good” or SDK development. Eduardo has recently returned from a pioneering project in Zanzibar where he teamed up with a number of entomologists and helped to develop a revolutionary technique in the fight against malaria, using a DJI drone.

Melissa Rusanganwa
Public Affairs Lead, Zipline Rwanda
Melissa started at Zipline as Public Affairs Lead to handle Governmental Affairs. After joining the team in Rwanda she has continued to solidify relationships with different Governmental stakeholders and regulators to smooth operations and Zipline’s integration into the national airspace. Melissa holds a double degree in Political Science with a concentration in Global Governance and International Studies with a concentration in Diplomacy from Bishop’s University in Canada. She previously lived and worked in Canada in Specialty Pharmacy and interned at the International Civil Aviation Organization. Upon an internship at the Rwanda Civil Aviation Authority and her urge to go back home, she decided to move back to Rwanda and be part of the development of the country and that is how she joined the team of Zipline.

Tom Verbruggen
CEO, IDRONET
As a Master in Science, specialized in aviation sciences, he started his aeronautical career in 1997 as a Boeing and Airbus Maintenance Manager. His passion for aviation led him further to reach a childhood dream of being an airline pilot. He flew several types of aircraft, and is still current on the Falcon 900. As a safety and compliance consultant, he identified an increased need for new digital solutions in the aviation industry to support management and safety processes. Especially the emerging market of drones proved to be in need of digital assistance. Out of this insight, IDRONET was born. IDRONET was created in 2015 as a digital tool to help drone pilots fly safe and legal in a very easy way. Today IDRONET is the most complete UAV management tool worldwide, for professional pilots and enterprise drone users.

Carla Blauvelt
Director of Programs, VillageReach Malawi
Ms. Blauvelt has been at VillageReach for 4 years. As Director, Programs, Ms. Blauvelt supports the Vice President in the oversight of program quality and development of standards for program management across VillageReach programs. She also leads the multi-country Skoll Grant - Exiting/Transitioning Well initiative for the seamless transfer of ownership of identified programs from VillageReach to Governments and other partners across programs. Prior to her role as Director, Programs, Ms. Blauvelt held the position of Country Director for VillageReach in Malawi, providing management and strategic guidance for over 70 employees and various country programs in supply chain, mHealth, maternal and child health, human resources, and community health. While Country Director, she also led VillageReach’s role in two drone studies including the cost analysis for a Government of Malawi and Unicef. Flights in March 2016 and a Malawi Ministry of Health and Population and VillageReach study on the use of drones for transporting blood and oxygen for maternal emergencies. She also served as a coordinating member of the secretariat for the Department of Civil Aviation Remotely Piloted Aircraft Steering Committee.

Yves Barthélémy
Geospatial and Resilience Expert, World Bank
Yves Barthélémy is a specialist in geospatial information and resilience at the World Bank. He has been working in many African countries over the past 20 years (Madagascar, Nigeria, DRC, Tanzania, Rwanda, Mozambique, Ivory Coast and more). Most recently he has been leading Drone for Development study tour in Seychelles, Zambia and team leader for the Zanzibar Mapping Initiative project, the largest drone mapping project in the world. For more than 10 years, he has been working for UNDP – Post Conflict and Disaster Management Branch as Geoinformation expert. He has been a guest lecturer at Science-Po, World Maritime University, Paris XII, and the State University of Zanzibar. He was part of the organizing team of Understanding Aisle – West and Central Africa 2019, of the Organizing Committee of the Global FOSS4G 2019 in Dar Es Salaam and of the ZANSEA Drone conference in 2018 in Zanzibar. Yves holds a Master in Tropical Ecology and a Master in Geoinformation.

Christian Struwe
Director of Public Policy – Europe, the Middle East and Africa, DJI
Christian Struve heads DJI’s policy work in Europe, the Middle East and Africa. As such he is responsible for all interactions between DJI and government stakeholders in the region and helps drive DJI’s efforts to make drones increasingly safe to use. Since joining DJI in 2016, Christian has in particular been working closely with EASA and the European Commission on shaping the future European Drone rules and creating a safe, viable and fair market for the drone industry in Europe. Christian is also DJI’s representative in ICAO, JARUS and Global UTM Association (GUTMA). With a background in consultancy in the Air Traffic Management industry and a national drone association, Christian is experienced in the aviation and drone industries from both a policy, technical and business angle.

Alexis Rutagengwa
Head of Department, Surveying, Land Use Planning and Mapping, Rwanda Land Management and Use Authority
Alexis Rutagengwa is Head of Surveying, Mapping and Land Use Planning Department of Rwanda Land Management and Use Authority (RLMUA) with profound experience in land management, surveys and mapping. His work includes, among others, coordination and supervision of land surveys, mapping, geodetic, topographic, hydrographic and cadastral surveys as well as coordination of the national land use planning and Management. He worked previously as a senior specialist in Geospatial Information at the Rwanda’s National Mapping Authority (IGN) and also at the National Land Management and Survey Coordination of the national land use planning and Management. He worked previously as a senior specialist in Geospatial Information at the Rwanda’s National Mapping Authority (IGN) and also at the National Land Management and Survey Coordination and of the ZANSEA Drone conference in 2018 in Zanzibar. Alexis holds a Master in Tropical Ecology and a Master in Geoinformation.

Jonathan Slater
Challenge Design and Management Consultant, IMC
Jonathan Slater is a highly experienced innovation consultant, keynote speaker and board member with over 15 years’ experience in international development and humanitarian innovation in emerging markets. Throughout this time, he has researched, designed and delivered over 450 innovation programmes with a focus on social innovation and decentralisation of energy and adaptation. He currently advises and supports several large-scale global innovation programmes and works to identify the best working practices in the open innovation field. Outside the innovation realm, Jonathan has mentored several start-ups, in both the UK and East Africa, on sustainable and ethical business development. As part of this work, he has been a critical partner in raising the largest ethical investment in the world for a single Hydro Electrical installation in Europe through Triodos Bank.

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Edward Anderson has a career focus on science, technology and innovation for sustainable development. He serves as a Senior Disaster Risk Management as well as Technology and Innovation Specialist for the World Bank stationed in Dar es Salaam, Tanzania. His work is at the nexus of urbanization and climate risks and leverages emerging technologies and methods to integrate resilience into urban planning systems. Current programs include the use new geospatial approaches in urban mapping and community feedback, Internet of things sensor networks in environmental monitoring, machine learning and artificial intelligence for tracking informal urbanization, and drones in risk assessment. Edward also participates on various international boards and committees – such as European Space Agency’s Open Science Committee and EU's Drones in Humanitarian Action Expert Working Group. Prior to joining the Bank he worked at the Inter-American Development Bank, the European Space Agency, UN Office for Outer Space Affairs and founded a start-up company on epidemic surveillance. In 2003, he moved to the Center of Applied Aeronautical Research and most recently he developed robotic systems for the MRO field. Since 2019, he has been Managing Director of Synergiston GmbH. Motivation for aerial solutions: The aviation context has accompanied Christoph for a long time. There are many solutions around an aircraft. Since drones disrupt the aerial ecosystem, Christoph is fascinated with artificial intelligence systems with drone data to be part of the solution. In Christoph’s opinion, it is necessary to bring professional competences and partners together to develop reliable and innovative solutions in this young market of unmanned aerial systems.

Philippe Habinshuti holds a Masters degree in Economics from Jomo Kenyatta University of Agriculture and Technology. A Post-Graduate Professional Certificate in Disaster and Emergency Management from the Disaster Management Center of the University of Wisconsin Madison; he also hold a Bachelor’s degree in Development studies. Philippe has 10 years working experience in Disaster Management and Humanitarian aid with The Rwanda Ministry in charge of Emergency Management where he occupied different posts including the Director Response and Recovery (current), The Director of Disaster Management and Program Coordination and the Disaster Preparedness Operations officer. Being the Chairperson of the National Platform for Disaster Management since July 2013 he has a working experience with different government institutions, UN agencies and international NGOs especially for interventions related to disaster risk reduction and management related and for coordination of humanitarian assistance.

Serge Tuyihimbaze is Co-founder and Managing Director at Leapar Labs, where he has devoted 90 percent of his practice to supporting ICT Innovators for the last 20 years. He has extensive experience in unusual and innovative Problem Solving Techniques. His recent activities include Running flying robots, fellowships with more than 150 students to design and build drones, incubating 20 Startups under 200Startups project. In 2014, he attended University majoring in Information Management then, he was awarded “Recognition of excellence in promoting innovative ICT Solutions with social impact, 2015 Entrepreneurship award” by the International Telecommunication Union – ITU. He served FabLab Rwanda as community and Innovation Manager and enrolled in the “how to make almost anything” FabAcademy 2017 class of Professor Neil Gershenfeld the director for MIT Center for Bits and Atoms, to become the Fab Master. In 2019, He completed the Mastering Design Thinking from MIT Sloan School of Management.

Klaus Scho is the CEO of Germandrones. He is an entrepreneur and technology executive with more than 20 years working experience in the technology and financial services industry. His professional career began as an investor and CEO of Germandrones and responsible for marketing and sales.
Patrique Zaman
Founder, Avy
Patrique Zaman is an out-of-the-box thinker and a self-made entrepreneur. He is the founder of Avy, an innovative drones-for-good manufacturer based in Amsterdam. Founded in 2015 (supported by the European Space Agency and the Technical University of Delft), Avy’s goal is to develop life-saving technology in the field of aviation. Avy developed an innovative electric wing drone. Both a helicopter and an airplane, the autonomous wing drone combines the best of both worlds: flying over 100 km with the capability to land and take-off vertically from anywhere. The aircraft has a modular payload bay, making it suitable for a wide range of applications: choose a cooled cargo box to transport 15kg of medical goods (medicines, vaccines, and blood samples), or easily switch to a gimballed camera with infrared, to gain situational awareness and analyze affected areas through real-time data.

Tom Plummer
CEO, Wingcopter
Tom is the CEO of Wingcopter. A great part of his family has lived for years in many countries across Africa to work on different development projects and Tom spent his voluntary year in West Africa working with young people. His time there had a great impact on him but the bad roads, insufficient health care and weak supply chains remained in his memory. The solution to this was, in his view, an efficient drone that can take off and land vertically anywhere and still fly far as well as transport a lot of urgently needed payload. Once he met Jonathan, who was working on one of the first, and to date, the best eVTOLs, they founded their startup Wingcopter together with a third friend. Since then, the team is growing fast and is driven by the will to apply Wingcopter technology to civil and life saving applications all around the world.

Simon Whalley
Regulatory & Policy Manager, Skycorps
Simon Whalley is the Regulatory & Policy Manager at Skycorps. Skycorps is a pioneer in Urban Air Mobility (UAM) and the first mover in locating, building, operating and managing the take-off and landing infrastructure for aerial taxis in major cities around the world, as well as being a drone operator focusing on deliveries with the healthcare, logistics and e-commerce sectors. Simon leads the company’s regulatory and safety compliance for its drone delivery and infrastructure operations. He also leads Skycorps’ involvement in international standards and certification development for passenger and cargo eVTOLs. Simon has more than a decade’s experience in the aviation and aerospace industry, previously holding policy, legislation and regulation roles with the Royal Aeronautical Society, London Gatwick Airport and the Institution of Civil Engineers. He is a Member of the Royal Aeronautical Society.

Sejin Oh
Director of Research, FineVT Co., Ltd.
Sejin Oh is a Director of Research of FineVT Robotics Lab. He is also an Adjunct Professor at Asia Aviation Vocational College. Sejin Oh previously worked as a Director, The Korean Society of Disaster Information; Director, Korea Defense Security Forum; Technical Advisor, National Institute of Disaster Safety; Technical Advisor, Korea Radio Promotion Association; Technical Advisor, Incheon International Airport Corporation; Policy Development Commissioner, Korea Army. His research fields include Unmanned Air Platform, Data Processing / Tactics Data Processing and Aircraft Flight Software.

Joseph Nd&gijimana
General Manager, Zipline Rwanda
Joseph Nd&gijimana leads the Rwanda team at Zipline, a technological and logistics company that delivers medical products to hospitals in remote areas using autonomous drones. He holds a master’s degree in global health delivery from the University of Global Health Equity and a degree in pharmacy from National University of Rwanda. Prior to Zipline, he received the prestigious Global Health Corps fellowship and worked on implementing international procurement processes for pharmaceuticals and medical equipment to hospitals in rural districts of Rwanda. Nd&gijimana has extensive experience in medical supply chains in both government, private, and nonprofit institutions, including the Medical Procurement and Production Division of the Rwanda Biomedical Center, and the non-profit, Partners In Health.

Wilson Kagabo
Managing Director, Locus Dynamics Ltd
Wilson Kagabo is the Current Managing Director of Locus Dynamics Ltd. – a Ngali Holdings Ltd Company. LD is a Systems Engineering Company with a specific focus in the areas of aerospace, robotics, and advanced information technology. He is also a board director at Akagera Aviation Ltd. Kagabo is an active member of the Rwanda drone industry – he sits on various national technical committees and working groups. Previously, Kagabo has served in different roles namely: Acting CEO of Ngali Holdings, university lecturer, researcher, writer, actor, journalist, and photographer among others. He holds a Bachelor and Master degrees in Mechanical Engineering with a focus on Aerospace Systems and is currently pursuing a Doctorate degree in Unmanned Systems Engineering.

Sven Wlach
Lead Systems Engineer, Phoenix Wings
Sven Wlach is lead systems engineer at Phoenix Wings, a company focused on UAS development and services situated in Munich, Germany. He has been involved in UAS activity for more than 10 years starting at the University of Stuttgart, where he also received his degree in aerospace engineering in 2014. At the German Aerospace Center DLR, he focused on high altitude UAS covering multiple domains, including aircraft design, systems, software as well as management. As UAS operator and safety pilot he was constantly involved in flight operations.

Maximilian Laiacker
Systems Engineer, Germandrones
Maximilian is working as a systems engineer at Germandrones for two years now. He has been working in drone related research and development for almost 14 years. From 2011 till 2017 at German Aerospace Center DLR
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