

EU-South Asia Aviation Partnership Project (EU-SA APP)

Strengthening the partnership in aviation between the EU and South Asia

This project is funded by the European Union and implemented by the European Union Aviation Safety Agency

EU-SOUTH ASIA AVIATION PARTNERSHIP PROJECT

General Overview

Carlos Menéndez
Operations Manager, International Cooperation Department, EASA,
Delhi (India), 07-08 November 2019



EU-SOUTH ASIA APP

Your safety is our mission.

South Asia

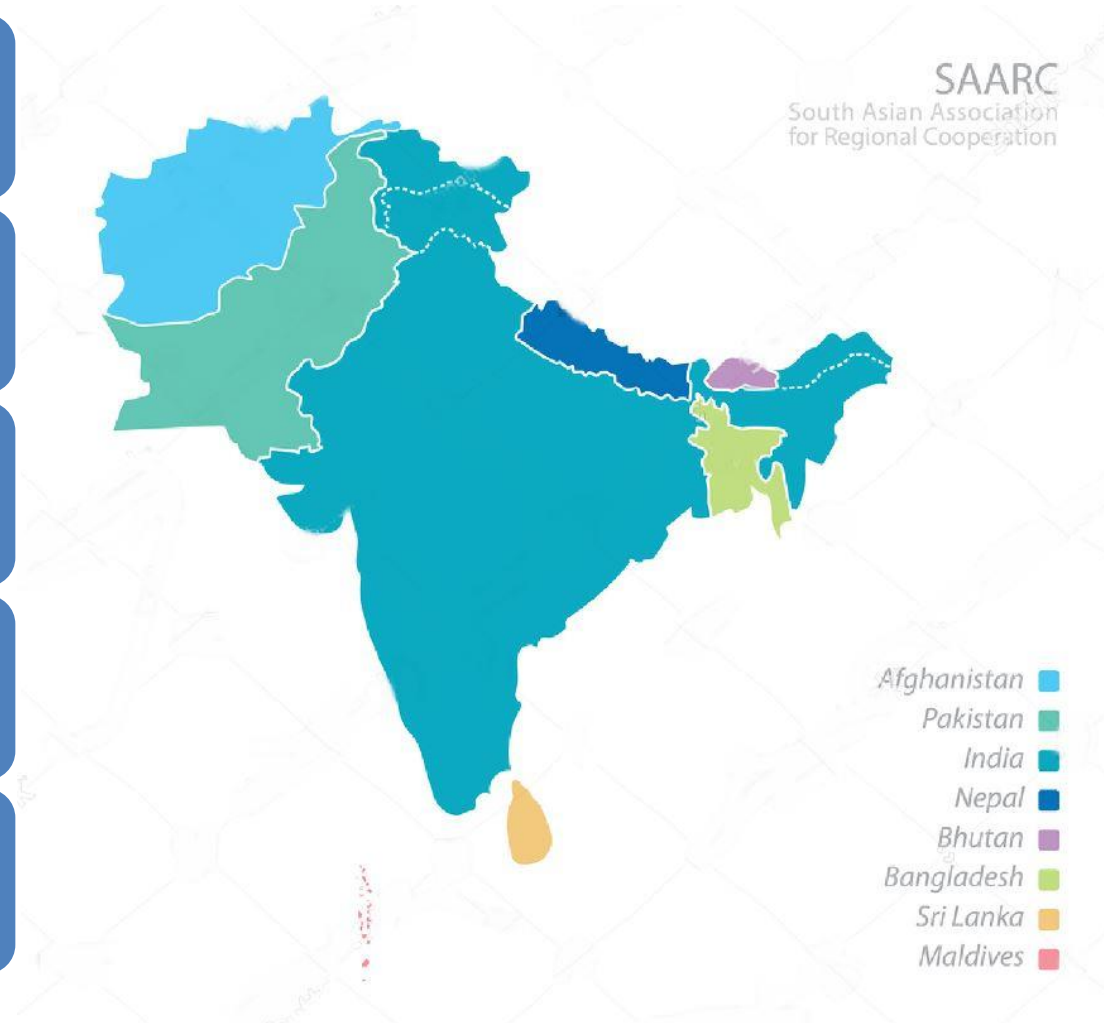
Home to over 24% of world's population

Traffic forecast 8.6% per year over next 20 years

Demographics favourable to growth of air transportation

Regulatory convergence towards EASA well underway

Opportunities to collaborate regionally (RSOO, CORSIA)



Overall project objectives

Enhance relations between South Asian and European institutions in the field of civil aviation



Increase technical exchanges between the South Asian and European aviation industries



Support South Asia in developing its capacity for safety oversight



Improve the environmental performance of the South Asian aviation sector



Project Partners

EASA supported by various European partners including:

| | |
|--|-------------------|
| Aviation authorities | UK CAA |
| | DGAC France |
| | AESA Spain |
| Accident investigation bodies | UK AAIB |
| | [BEA] |
| Training, Consultancy and Logistics support organisations | NTU international |
| | Bureau Veritas |
| | IATA |
| | Vertis... |

Full scope of aviation



Accident investigation



Big Data



Cybersecurity



Drones



Environment...

Advantages of EASA rules

- ✓ System not task oversight
- ✓ Flexible and proportionate
- ✓ Supported by EASA
- ✓ Scalable and structured
- ✓ Facilitates regional cooperation
- ✓ Open to comment / transparent

Agenda overview

Agenda review



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Drones Workshop UAS Regulatory Framework and Airspace Integration

Delhi, 07-08/11/2019

Drones Workshop - UAS Regulatory Framework and Airspace Integration

Indian Aviation Academy

Delhi, 07 to 08/11/2019

Day 1 – Thursday, 07 November 2019

| | |
|-------------------|---|
| 08:15 H – 09:30 H | Registration <i>All attendees</i> |
| 09:30 H – 09:50 H | WELCOME SPEECH DGCA India <i>Mr Edwin Koekkoek (Counsellor - Energy and Climate Action, EU delegation to India)</i> |
| 09:50 H – 10:15 H | EU-South Asia Aviation Partnership Project Introduction Speakers Names & Bio, Company Review and agreement of agenda, practical arrangements <i>Mr Carlos Menéndez (Operations Manager, International Cooperation Department, EASA)</i> |
| 10:15 H – 10:20 H | Group photo |
| 10:20 H – 10:45 H | Tea/coffee break |
| 10:45 H – 11:30 H | Current Regulatory situation for drone operations in India <i>Mr Hillol Biswas (DGCA India)</i> |
| 11:30 H – 12:30 H | Indian vision & efforts on new drone developments: BVLOS, Digital Sky <i>Mr Ashutosh Kumar Singh (DGCA India)</i> |
| 12:30 H – 13:30 H | The European regulatory framework for civilian drone operations <ul style="list-style-type: none">Introduction and general frameworkThe Implementing and Delegated Acts on the Open and Specific Categories of operation <i>Mr Antonio Marchetto (RPAS Technologies Expert, EASA)</i> |
| 13:30 H – 14:25 H | Lunch break |
| 14:30 H – 15:40 H | Regulations and experience in South Asia (PART 1) Bangladesh, Maldives, Nepal, Sri Lanka (TBC) <i>Mr Imranur Rahman Wing Commander (Director (Flight Safety & Regulations), CAAB)</i> <i>Capt Shokeeb Nasrulla (Senior Flight Operations Inspector, MCAA)</i> <i>Major Ahmed Shafieq (Commander of Aviation Security Command (AVSECOM), MNDF¹)</i> <i>Mr Subhosh Jha (Deputy Director, CAAN)</i> |
| 15:40 H – 16:00 H | Regulations and experience in South Asia (PART 2) Q&A session with the panellists <i>All delegates</i> |
| 16:00 H – 16:25 H | Tea/coffee break |
| 16:30 H – 17:00 H | Overview of ongoing and planned EASA activity on drones <i>Mr Antonio Marchetto (RPAS Technologies Expert, EASA)</i> |
| 17:00 H – 17:30 H | Q&A panel session – first day <i>All</i> |
| 17:30 H | End of first day |

¹ Maldives National Defence Force



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Strengthening the partnership in aviation between the EU and South Asia

Regulations Mutual
exchange Industry

Short introduction of speakers (Day 1)

Hillol Biswas (DGCA India)



- Aeronautical Engineering.
- Joined DGCA (India) in the year 1990. Since then continuing in DGCA.
- Currently holding the designation of 'Director (Aircraft Engineering Directorate)' in DGCA.
- Responsible for Type Certification (TC)/ Validation/ Type acceptance of large airplane (Part 25 class). Also, Supplemental Type Certification (STC) of the same class of aircraft.
- Additionally, looking after certain areas of 'International cooperation', and
- Remotely Piloted Aircraft System or RPAS (civil drones).

Ashutosh Kumar Singh (DGCA India)



- Aeronautical Engineering.
- A total of 14 years experience in design and development of aeronautical product. He has been working in DGCA for last three & half years.
- Currently holding the designation of 'Assistant Director' in Aircraft Engineering Directorate, DGCA.
- Responsible for Type Certification (TC)/ Validation/ Type acceptance of transport category airplane.
- Also working on certification aspects of Remotely Piloted Aircraft System (RPAS).

Antonio Marchetto (EASA)

- Antonio Marchetto holds the position of RPAS Technologies Expert at the Certification Directorate of EASA.
- He is Project Certification Manager for three UAS certification Projects and expert for some others.
- He has been deeply involved in all stages of UAS rulemaking for the Open, Specific and the Certified category of operations, supports standardisation activities and international cooperation and is focal point for some research domains on drones.
- Before joining EASA he developed a long experience in Leonardo in UAs design, and for several years he held the position of Chief Engineer of the NEURON UCAV project.

Imranur Rahman (CAAB)



- Born in 1976, Wing Commander Imranur Rahman joined Bangladesh Air Force (BAF) in Jan 1995.
- In his long military illustrious carrier, he has flown a variety of fixed wing jet aircraft including MiG-29.
- He also served as commander of Jet Squadron and performed staff duties at Air Headquarters. He is widely acclaimed in BAF and beyond for his dynamism, professionalism and compassion.
- He also served as both Chief Aviation Safety Officer and Chief of Air Ops at UN mission in Sudan.
- Despite having huge experience on military aviation, he is quite new in Civil Aviation. He just took over the appointment of Director Flight Safety and Regulations of CAAB.
- Beside professional job, the Director takes keen interest in aerial photography and IT. He is happily married and blessed with one son.

Subhash Jha (CAAN)



- Subhash Jha is deputy director in CAAN.
- He joined the Civil Aviation Department as an Air Traffic Controller in 1996.
- He has worked as AIS officer, Communication Officer, Chief officer, Airport Manager, Terminal Manager, Deputy Director in Accident Investigation Division.
- Now he is working as Chief of Air Transport Division in Civil Aviation Authority of Nepal.

Capt Shakeeb Nasrulla (MCAA)

- Senior Flight Operations Inspector
- A youthful Commercial Airline Pilot with over 12 years of work experience who is keen to find a position to use both operational and regulatory background into the workplace.
- He has an indefinite enthusiasm to work hard and achieve objectives. Good caliber as a leader and a team worker. Demonstrated to be organised, efficient, meticulous, extremely competent and have an excellent rapport with people of all ages.
- His communication skills, both written and verbal are excellent.

Major Ahmed Shafeeg (MNDF)

- Major Ahmed Shafeeg is currently working at the Aviation Security Command of the Ministry of Defence of the Maldives.
- His past postings include working for the Marine Deployment Unit, Basic Training School and Central Area Command. He was enlisted the Maldives National Defence Force on 26th November 2002, and was commissioned on 08th February 2009 upon graduation from the Indian Military Academy, India.
- He was graduated with Masters of Aviation Management from Griffith University, Queensland, Australia. He has also completed junior command course at War College, India. In addition, He took part in Comprehensive Crisis Management course at Daniel K. Inouye Asia Pacific Center for Security Studies, USA (Hawaii).
- During his 18 years' career to date he has served for various command and staff positions including Deputy Commander at Aviation Security Command, Commander Marine Deployment Unit-4, Operation Officer at Central Area Command, Platoon Leader in Basic Training School and also worked as different instructional appointments at College of Defence and Security Studies.
- The Major is decorated with Good Conduct Ribbon twice, Defence Force Service Ribbon, Skill Ribbon, Special Duty Ribbon and SAARC Medal.
- Major Ahmed Shafeeg is married and blessed with three child.

Praveen Wijesinghe (CAASL)

→ Assistant Manager (Aviation Safety Monitoring)

Julia Sanchez (EUROCONTROL)



- Julia Sanchez has always worked in aviation related business: in Ground Handling for IBERIA L.A.E for six years and also in Finance in Singapore Airlines for another six years.
- She joined EUROCONTROL in 2002 in Bretigny (France), dedicating support administrative efforts to assuring research and development projects have the right coordination and structure.
- In 2009, Julia Sanchez joined EUROCONTROL Headquarters in Brussels (Belgium) to work for the Deputy Director of the Cooperative Network Design directorate – CND-CoE (Centre of Expertise) and in 2012 she adhered to EUROCONTROL's mission of supporting any drones' related projects.
- She has been part of the Joint Authorities for Rulemaking of Unmanned Systems (JARUS) Secretariat and active member of the JARUS Working Group 2 Operations, at this moment part of the European Network of Demonstrators Support Cell and the SESAR Joint Undertaking Very Large Demonstration Projects Support Unit.
- She has recently joined the Counter UAS drones activities within and outside EUROCONTROL.
- She holds a Diploma in Aviation Management from the University of New South Wales, Australia

Pasi Nikama (ANS Finland)

- Pasi became an Air Traffic Controller in 1994.
- He was ATC instructor / chief instructor from 1999 until 2007 at Avia College.
- He held the position of Traffic manager from 2007 to 2009 at Oulu Airport (Finland).
- After that, he became Chief of ACC Finland and he stayed in that position from 2009 to 2014.
- He also was Vice President of ANS development from 2015 to 2017.
- From 2017, he is Senior Vice President of marketing and customer relations of ANS Finland.
- He still keeps his ATCO license valid as ACC controller and supervisor



Fabien Nestmann (Volocopter)



- Truly passionate about moving people and giving them time back for the important things in life, Fabien joined Volocopter to achieve exactly that.
- While building up Uber in Germany as General Manager, he realised that innovation continues to challenge regulation and that cooperation is crucial for developing new mobility products and services.
- At Volocopter he works with cities, governments and legislators to enable air taxi services globally.
- Before dedicating his work to the future of mobility, Fabien gained broad experience in the tech, consulting, and VC industries.

Leo Jeoh (Airbus Urban Air Mobility)



- Leo was recently appointed as the Head of UTM Lab under Airbus UTM and as part of Airbus Urban Air Mobility. He also supports UAM regulatory development in the Asia Pacific region.
- Leo joined Eurocopter, the predecessor company to Airbus Helicopters, in Singapore in August 2009. There he has served as Head of Design, Head of Aviation Safety, and Deputy Vice President for Support Engineering for the Asia Pacific region.
- A trained Rotary-Wing Flight Test Engineer, Leo started his career as an Airforce Engineering Officer in the Republic of Singapore Air Force (RSAF) in 1999.
- Leo is a graduate and Dunlop Trophy winner (top Flight Test Engineer) of the UK Empire Test Pilots' School (ETPS). He also holds a B.Eng in Solid-State Engineering Physics and a M.Sc. in Material Science and Engineering from the Stevens Institute of Technology, USA.

Siddharth Shetty (iSPIRT Foundation)



- Siddharth Shetty is a fellow at iSPIRT Foundation, a non-profit technology think tank, where he works on India Stack, allowing governments, businesses, startups and developers to utilise a unique digital infrastructure to solve India's hard problems in financial inclusion.
- As part of India Stack, his primary focus is on empowering every Indian with control of their financial, health, telecom, skills, and education data through the Data Empowerment and Protection Architecture (DEPA).
- He is also working on the technology for the Public Credit Registry by Reserve Bank of India; for the Digital Sky, the digital infrastructure that would enable safe operations of millions of drones in Indian airspace, and the National Health Stack.

Rahul Singh (ideaForge Technology)



- Rahul Singh is the Co-Founder & VP-Engineering of ideaForge, a next generation drone company that manufactures advanced Unmanned Aerial Vehicles (UAVs) for defence, homeland security enterprise and agricultural applications.
- At ideaForge, Rahul has been leading the engineering department. Today, ideaForge has become an acknowledged global technology leader in the VTOL Micro and Mini UAV space.
- Rahul, an IIT-Bombay alumnus, is highly passionate about technology and has 8 patents to his name. The ability of ideaForge's drones to perform in extreme environments is a testimony of the rigorous engineering and testing standards set by Rahul.
- Rahul's selfless approach and passion to build a credible and lasting product continues to power the entire engineering team at ideaForge as they toil hard to help Indian forces and businesses find greater safety and success while using its products.

Practical arrangements

Network: IAA

Password: IAA_Secure#123

Cooperation

Feedback

Interaction with the audience



Sli.do



Event code: **#EASADronesDelhi2019**

Please put your mobile phones in silent mode

Respect the agenda times

Be open to different perspectives

Be active

We are here to help

And enjoy the
event!!

Thank you for your attention!

<https://www.eu-southasia-app.org/>



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An Agency of the European Union

