EASA
European Union Aviation Safety Agency

EU-CORSIA
Africa & Caribbean

This project is funded by the European Union
and implemented by EASA.

# CORSIA Africa and Caribbean

## Capacity building for CO2 mitigation from international aviation (phase II)

**Dakar, 14 – 16 June 2022**

**Working for quieter and cleaner aviation.**

**Your safety is our mission.**

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# PROJECT PRESENTATION

This project is funded by the European Union
and implemented by EASA.

| Capacity building for CO2 mitigation from international aviation Africa and the Caribbean | |
|---|---|
| **Location(s) of the action:** | Sub Saharan Africa and the Caribbean |
| **Financed by** | The European Union |
| **Implementing partner** | European Union Aviation Safety Agency |
| **Termination** | 18 January 2024 |

# PROJECT HIGHLIGHTS

This project is funded by the European Union
and implemented by EASA.

- Project signed on 18 December 2019
  - Project implementation starts on 19.12.2019 – termination date 18.01.2024
- Inception Phase: January - June 2020
  - Extended due to COVID-19 pandemic and the change of all the EASA and EC reference points to July 2021
- Contracts with suppliers significantly delayed due to COVID-19 pandemic
  - Lead Environmental Expert + 2 ENV experts
  - CORSIA Expert
  - NAB Expert

  - ISO Expert
  - AeDMS expert

EUROPEAN COMMISSION

EASA

# WHY?

This project is funded by the European Union
and implemented by EASA.

The **overall objective** of this project is to mitigate greenhouse gas emissions from the civil aviation sector,

more specifically:
to assist specific states to meet their obligations under the Chicago Convention with regard to the United Nations Sustainable Development Goal (SDG) № 13— Take urgent action to combat climate change and its impacts.

# GOALS

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States' abilities to monitor, report and verify (MRV) their civil aviation emissions are strengthen and meet international quality standards

States apply CORSIA methodology, meet its registry requirements and apply CORSIA as early as possible

States' awareness, understanding and knowledge of aviation's climate impacts and of the policies to address them is improved

# STRATEGIES

This project is funded by the European Union
and implemented by EASA.

Contributes to global climate change action, to the decarbonisation of the aviation sector, to the work of ICAO and sectors to net zero target in the interest of citizens and industry.

- This is done by supporting the state aviation authorities and and/or the DGCA/DGC of the ministry of transport

Promotes international environmental standards and expertise

- This is done by
  - assisting civil aviation authorities in their implementation of international environmental standards and recommended practices and strategies
  - assisting National Accreditation Bodies from the region in lauching the GHG scheme and CORSIA aligned with ISO and ICAO specific standard

# Presentation of Project Team

This project is funded by the European Union and implemented by EASA.

## EASA HQ (Cologne)

- Project Manager: **Eleonora Italia**
- Project Assistant: **Gabriella Garaffa**

## EASA experts

- Environmental expert – Market-based Measures: **Joonas LAUKIA**

## External experts

- Lead ENV Expert: **Monica Bonfanti**
- 3 ENV Experts: **Mathias Grossman** **Maria de la Rica** **Africa Abajas**
- NAB Expert: **John Shideler** **Louis Militana**
- ISO Expert:
- IT Expert:

# Selection of countries – 3 regions

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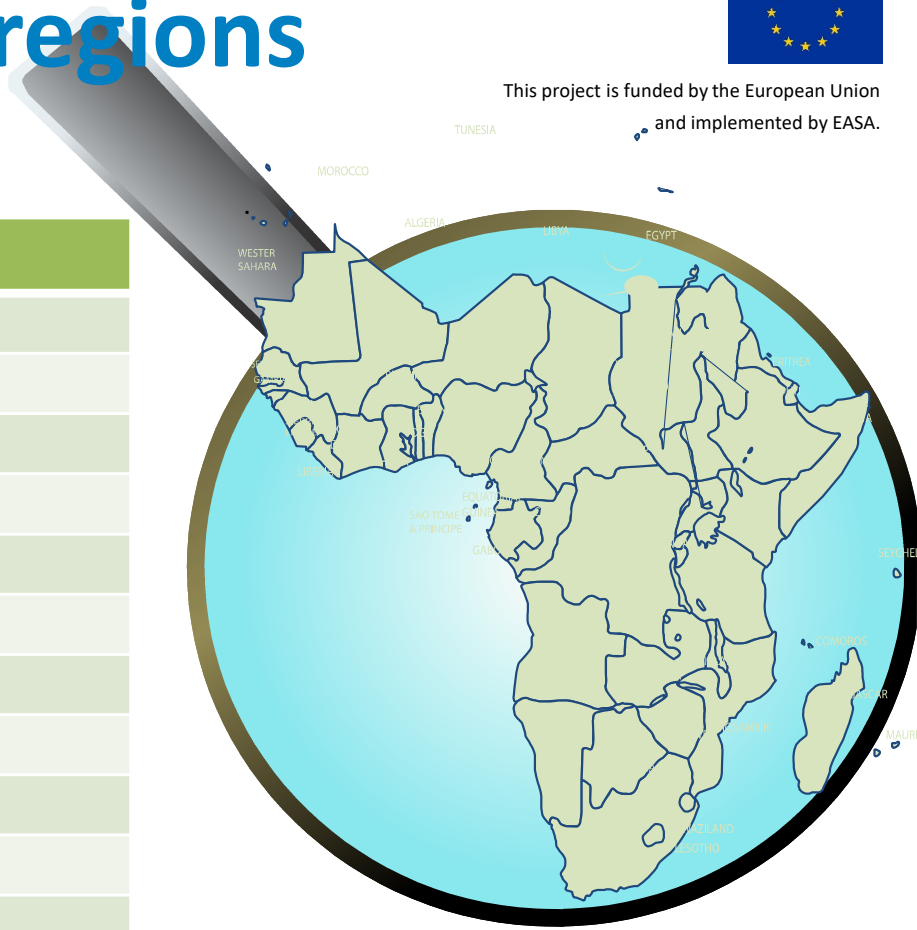
and implemented by EASA.

| # | Africa English speaking countries | |
|---|---|---|
| 1 | Angola | Nigeria |
| 2 | Botswana | Rwanda |
| 3 | Cape Verde | Seychelles |
| 4 | Ethiopia | South Africa |
| 5 | Ghana | Sudan |
| 6 | Kenya | UR of Tanzania |
| 7 | Malawi | Uganda |
| 8 | Mauritius | Zambia |
| 9 | Mozambique | Zimbabwe |
| 10 | Namibia | The Gambia |
| 11 | | South Sudan |



# Selection of countries – 3 regions

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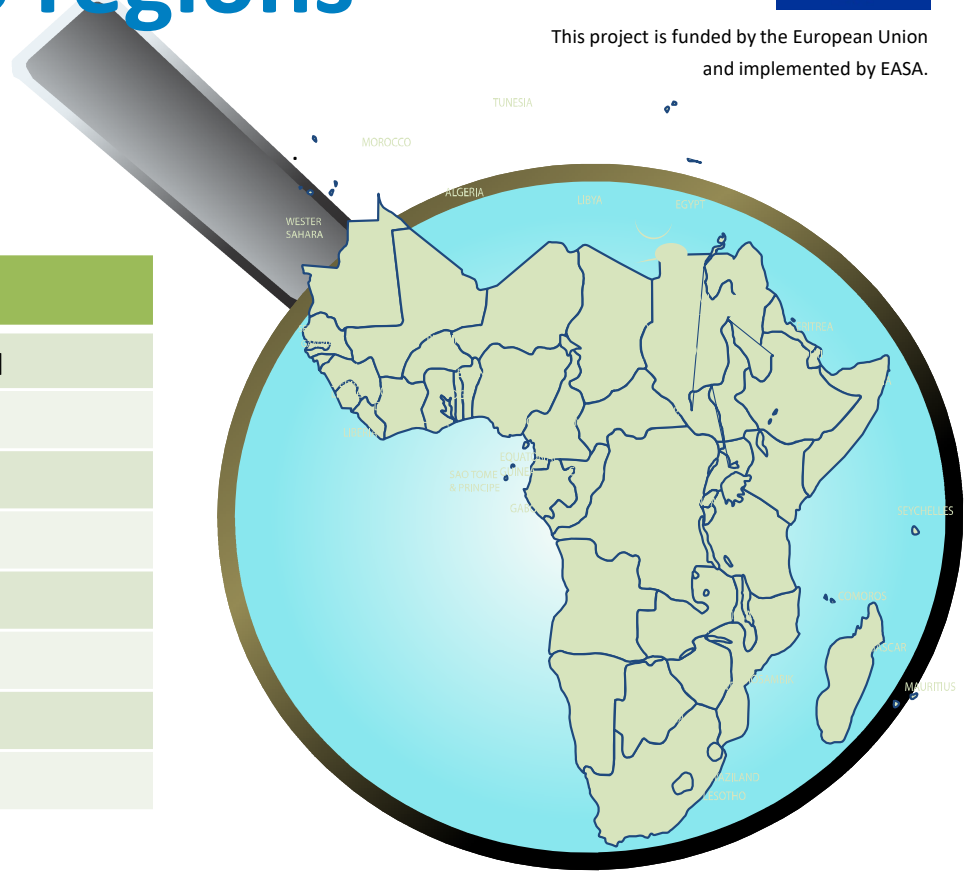
and implemented by EASA.

| # | Africa Francophone countries | |
|---|---|---|
| 1 | Benin | Guinea-Bissau |
| 2 | Burkina Faso | Mali |
| 3 | Cameroon | Mauritania |
| 4 | Union of the Comoros | Madagascar |
| 5 | Côte d'Ivoire | Niger |
| 6 | DR Congo | Senegal |
| 7 | Equatorial Guinea | Togo |
| 8 | Gabon | |



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- → 37 states:
- → 18 joined CORSIA since jan 2021
- → 3 joined since Jan 2022
- → 1 will join since Jan 2023
- → 15 still to join

# First on site Regional event 2022

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## Regional workshops on aviation's climate change impacts and related policy measures

Latin American Civil Aviation Commission

EU-CORSIA Africa & Caribbean

Raise knowledge and understanding and promote engagement with national transport/aviation and environment/climate entities as well as regional participation

To provide a broader understanding of aviation climate impacts and associated policy measures

# On going activities

This project is funded by the European Union
and implemented by EASA.

Angola
Botswana
Uganda
South Sudan
Cameroon
Mali
Burkina Faso

## A 2.1. Support countries in creating the legal regulatory framework required to implement CORSIA

Desktop review of primary aviation legislation, specific operating regulations, and regulatory framework in partner states

Desktop review of the organisation in place for the MRV implementation in partner states

Readiness assessment (e.g. resources available, training, policy and procedures )

# On going activities

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and implemented by EASA.

Angola
Cabo Verde
Kenya (AEMS)
Namibia
Tanzania
Zambia
Gabon
Rwanda
South Sudan
Uganda
Mozambique
Cameroon
Cote d'Ivoire
Mali (AEMS)
Burundi

## A 2.2. Support countries in designing the MRV system and the related EMP and ER. Support in designing and upgrading AES as per CORSIA requirements

Review of the national legal MRV framework implemented and enforceable to handle Emission Monitoring Plans (EMP) and Emissions Report (ER) in partner states

Review the criteria and procedures in place at national level on eligible emission units in partner states

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# On going activities

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Mozambique
Nigeria
South Africa
Cote d'Ivoire
Senegal

**A 2.3. Support in designing the required legal framework for accreditation system at the national level. Support in creating national and/or regional verifiers for the purposes of CORSIA verification process. Training, capacity engagement and capacity building for DGCAs and national accredited verification entity on CORSIA verification system**

Review of the status of the national accreditation system

# Follow us

This project is funded by the European Union and implemented by EASA.

**Project web site**

**Project logo**

EU-CORSIA
Africa & Caribbean

EU-CORSIA
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EASA
European Union Aviation Safety Agency

EU-CORSIA
Africa & Caribbean

# OBJECTIVE AND STRUCTURE OF THE WORKSHOP

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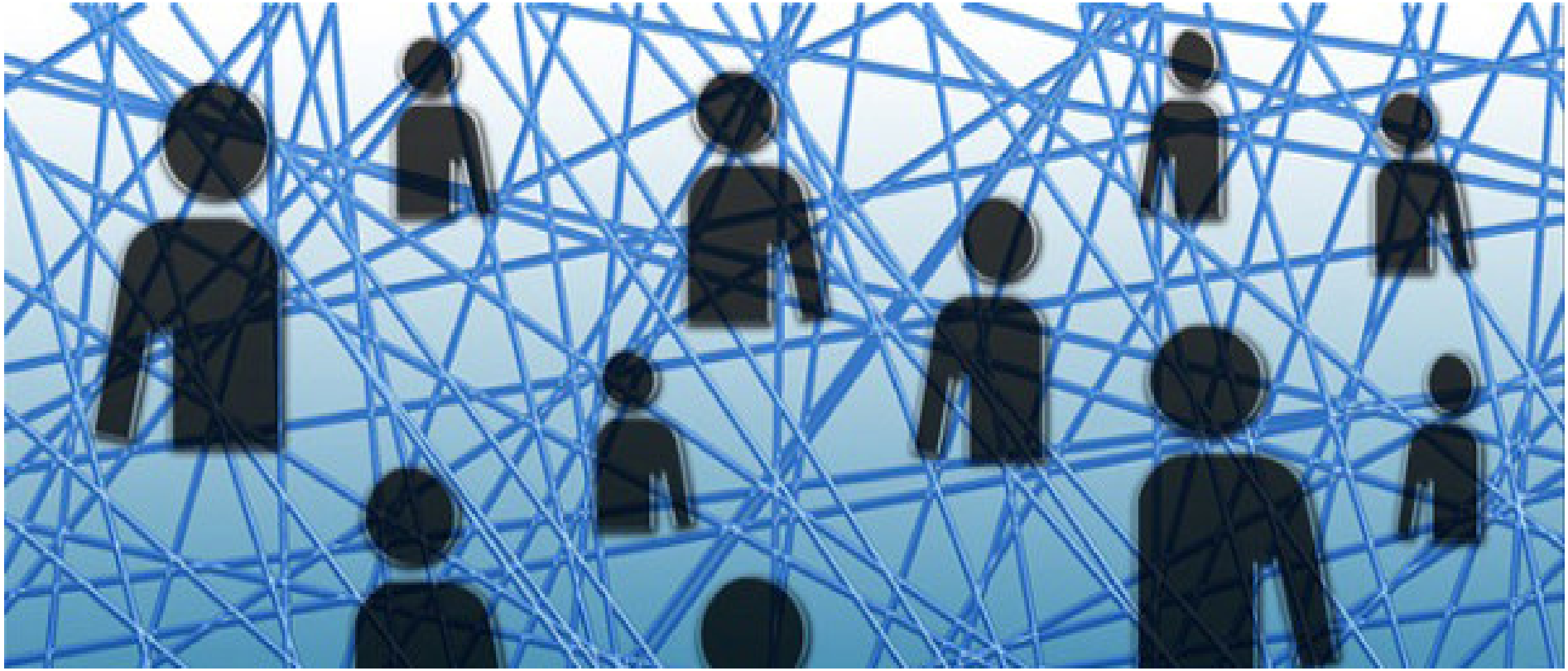
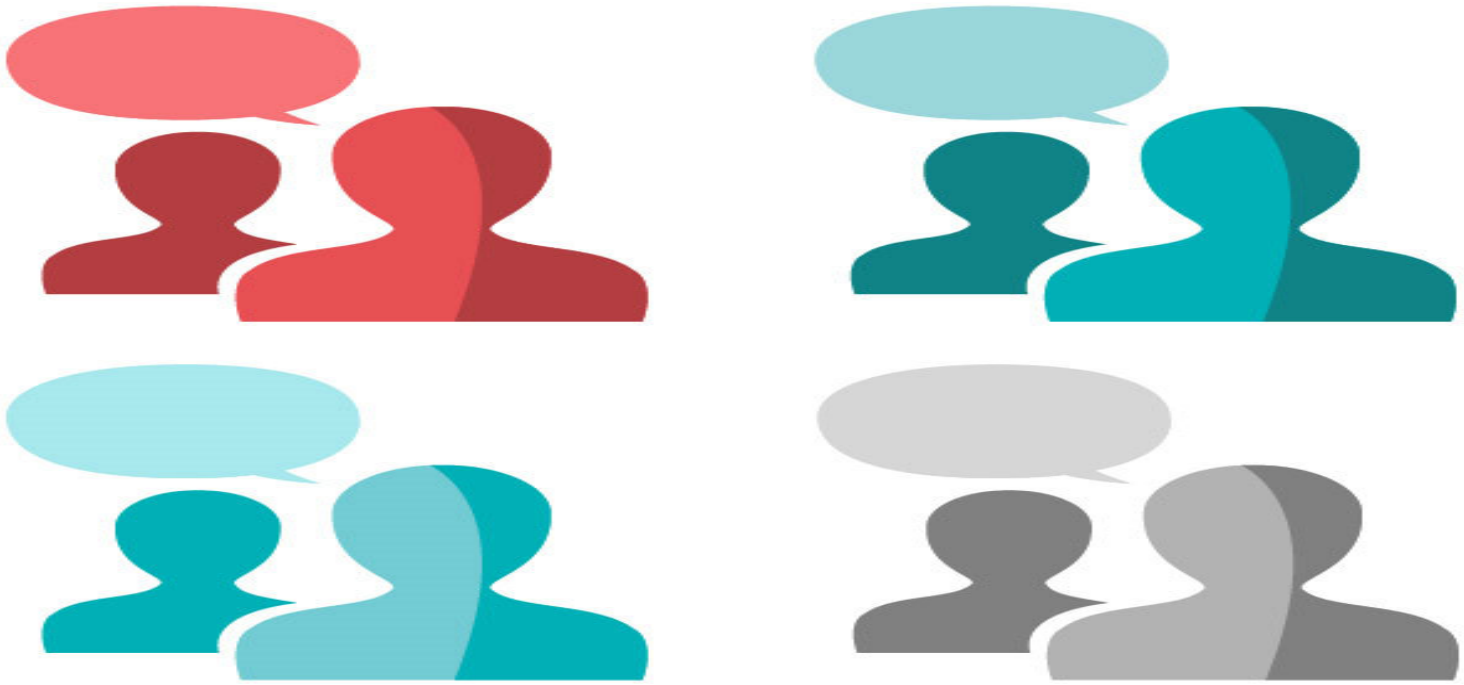
# CLIMATE AND AVIATION IN THE AFRICAN REGION



# REGIONAL DIMENSION OF THE PROBLEMS

# SHARE STORIES AS A REGION



# SHARE STORIES AS A REGION

**CORSIA STORIES from the REGION from the AFCAC and the SA perspective**

- Autorité Nationale de l'Aviation Civile de Côte d'Ivoire,
- Cameroon Civil Aviation Authority
- Kenya Civil Aviation Authority,
- South African Civil Aviation Authority
- Nigerian Civil Aviation Authority

# SHARE STORIES AS A REGION

**CORSIA STORIES from the REGION from the AO perspective**

- RwandAir- AO attributed to Rwanda
- Kenya Airways- AO attributed to Kenya
- Arik Air- AO attributed to Nigeria
- Solenta Aviation Group

# SHARE STORIES AS A REGION

## SAF ROADMAP FROM THE REGION

Ethiopia's experience on SAF Roadmap will be presented

Representatives from the multistakeholder steering committee will outline their challenges and their modus operandi to promote the use of SAF in Ethiopia and the work they have been doing to identify potential feedstock and applicable conversion technology.

# SHARE STORIES AS A REGION

**OPERATIONAL MEASURES TO ACHIEVE MID AND LONG TERM DECARBONISATION GOALS- better infrastructure, efficient operations-**

ASECNA

ACI AFRICA: Success stories and achieved results by ACI Africa members (e.g. ABIDJAN AIRPORT CLIMATE STRATEGY, MOMBASA AIRPORT SOLAR AT GATE PROJECT, LA REUNION AIRPORT FACING CLIMATE CHANGE)

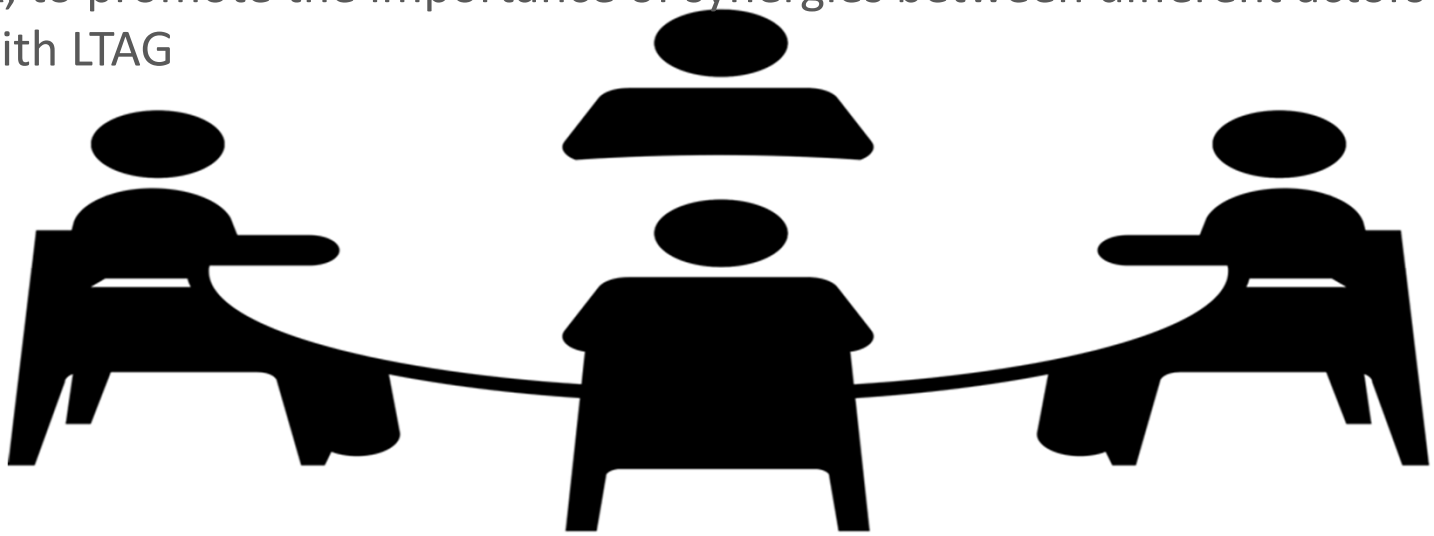
AFRAA

# STORIES FROM OTHER REGION

→ To scale up the engagement towards climate change: EU, US, UK

# Session on discussion

→ Discussions on the ongoing work to progressively scale up the accuracy of work in CORSIA, to promote the importance of synergies between different actors to support ICAO with LTAG



# CLIMATE CHANGE IN THE AVIATION SECTOR IN THE REGION FOR THE AFRICAN REGION

## DAY 1-CLIMATE CHANGE IN AVIATION SECTOR AT A GLANCE

- Overview of climate impacts: general and aviation oriented
- International and regional policy frameworks to address aviation climate impact
- CORSIA: a global carbon offsetting scheme in the ICAO basket of measures (Overall role of CORSIA, functioning, updates and latest developments)
- CORSIA Implementation in Africa: Challenges and sharing experiences

# CLIMATE CHANGE IN THE AVIATION SECTOR IN THE REGION FOR THE AFRICAN REGION

## DAY 2- AVIATION SECTOR EFFFORTS TO ADDRESS CLIMATE CHANGE

- → Aviation technology measures to achieve mid- and long-term decarbonization goals -Part 1- new airframe/engine technologies
- → Aviation - Operational measures to achieve mid- and long-term decarbonization goals-Part 2- better infrastructure, efficient operations
- → Sustainable Aviation Fuels to achieve mid- and long-term decarbonization goals -Part 3- Energy transition (SAF, Hydrogen, Electric)
- → Airline's efforts towards addressing climate change (experiences from Airlines: compliance with carbon schemes, voluntary offsetting, SAF and sustainable operations)

# CLIMATE CHANGE IN THE AVIATION SECTOR IN THE REGION FOR THE AFRICAN REGION

## DAY 3- CORSIA MOVING FORWARD

- Showcasing the Ethiopian SAF Roadmap
- Role of Carbon Markets in CORSIA
- Role of SAF in CORSIA (SAF requirements to reduce CORSIA offsetting requirements)

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THANK YOU

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