Overview of Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) Implementation

In-person Seminar

Second Phase of the ICAO Assistance Project with the EU Funding: "Capacity Building for CO₂ Mitigation from International Aviation — Development of ICAO States' Action Plans for 10 States"



Blandine Ferrier, Regional Officer, ICAO

Chinga Mazhetese, Regional Officer, ICAO

Praia, 28 & 29 July 2022

Cabo Verde

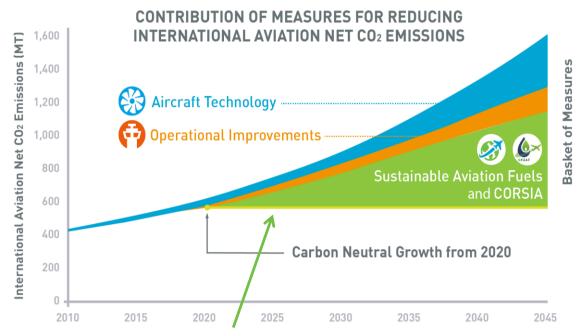




The first global market-based measure for any industry sector

To achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020), CORSIA is one complementary element in the basket of measures to:

- aircraft technology
- operational improvements
- sustainable aviation fuels



CORSIA addresses the remaining "emissions gap" to achieve CNG2020

Context of CORSIA Agreement

- CORSIA is the harmonized global solution to prevent an inappropriate impact from a patchwork of duplicative State or regional MBMs
 - High degree of recognition as ICAO global solution to all
 - Certainty of environmental benefits to States and aeroplane operators, while keeping the simplicity of the scheme
 - Key design elements phased implementation, route-based approach, distribution of offsetting requirements
 - Fully harmonized CORSIA CO₂ Monitoring, Reporting and Verification (MRV)
 - CORSIA eligible fuels and CORSIA eligible emissions units are the same to all operators
 - CORSIA to complement the CNG2020*
 - * ICAO Member States will discuss the feasibility of a long-term aspirational goal (LTAG) at the upcoming Assembly (27 September 7 October 2022)



CORSIA Phased Implementation

All ICAO Member
States with aeroplane
operators conducting
international flights
are required to
monitor, report and
verify CO₂ emissions
from these flights
every year from 2019,
independent of their
participation in
CORSIA



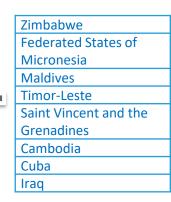
All Member States are encouraged to participate in the pilot and first phase of the CORSIA



Applicability of CO₂ Offsetting Requirements

	, .pp.						
Afghanistan	El Salvador	Kenya	Republic of Korea				
Albania	Equatorial Guinea	Latvia	Republic of Moldova				
Armenia	Estonia	Lithuania	Romania				
Australia	Finland	Luxembourg	Rwanda				
Austria	France	Madagascar	San Marino				
Azerbaijan	Gabon	Malaysia	Saudi Arabia				
Belgium	Georgia	Malta	Serbia				
Benin	Germany	Marshall Islands	Singapore				
Bosnia and	Ghana	Mexico	Slovakia				
Herzegovina	Gilalia	IVIEXICO	Siovakia				
Botswana	Greece	Monaco	Slovenia				
Bulgaria	Guatemala	Montenegro	Spain				
Burkina Faso	Guyana	Namibia	Sweden				
Cameroon	Honduras	Netherlands	Switzerland				
Canada	Hungary	New Zealand	Thailand				
Costa Rica	Iceland	Nigeria	Turkey				
Côte d'Ivoire	Indonesia	North Macedonia	Uganda				
Croatia	Ireland	Norway	Ukraine				
Cyprus	Israel	Papua New Guinea	United Arab Emirates				
Czechia	Italy	Philippines	United Kingdom				
Democratic Republic	Jamaica	Poland	United Republic of				
of the Congo	parrialca	roiailu	Tanzania				
Denmark	Japan	Portugal	United States				
Dominican Republic	Kazakhstan	Qatar	Zambia				

Bahamas
Grenada
Palau
Trinidad and Tobago
Barbados
Kiribati
Saint Kitts and Nevis
Tuvalu
Belize
Mali
South Sudan
Vanuatu
Cook Islands
Nauru
Suriname
Gambia
Oman
Tonga
Uruguay



19 additional 88 States for 2021

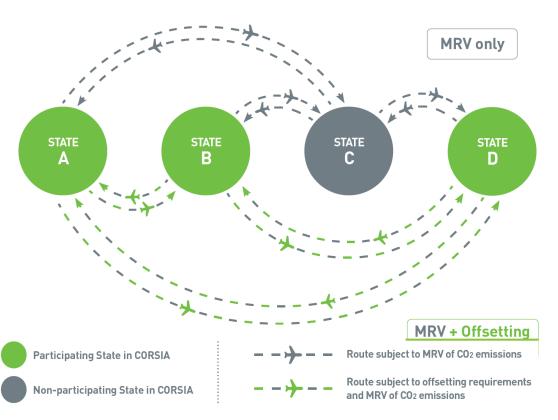
States for 2022 making a total of 107 States

8 additional States for 2023 making a total of 115 States





CORSIA Route-based Approach



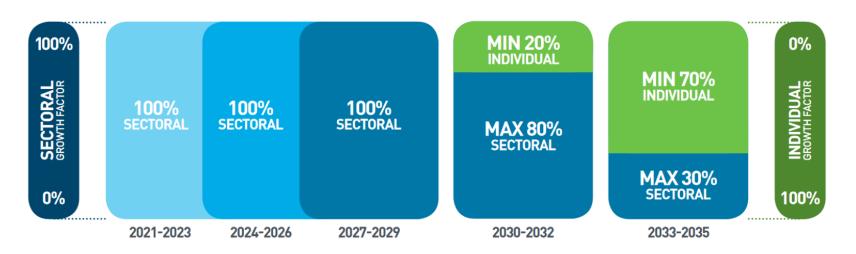
What if State C also decides to participate in CORSIA?

All routes between State C and other participating States A, B, D (i.e. routes A-C, C-A, B-C, C-B, D-A, A-D) also become subject to CORSIA offsetting requirements



CORSIA Offsetting Requirements

Operator's annual emissions X Growth Factor = CO₂ offset requirements



Cancellation of eligible emissions units to meet offsetting requirements: every 3 years



2 Status of CORSIA Implementation



CORSIA Implementation Package



Assembly Resolution A40-19



Annex 16, Volume IV (CORSIA SARPs)



Doc 9501 (ETM), Vol.
IV (CORSIA)
(2nd edition)



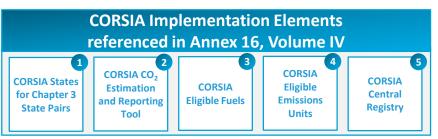
CORSIA Implementation
Elements
(ICAO documents)



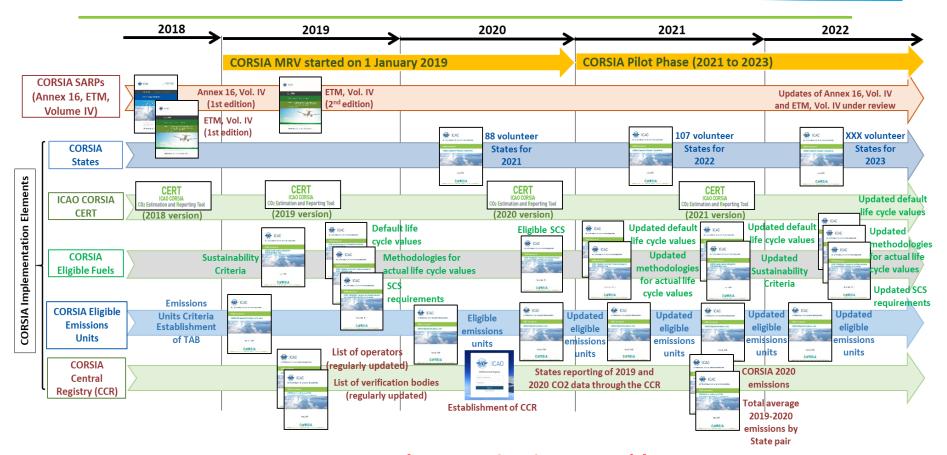
CORSIA Implementation Elements

- 5 CORSIA Implementation Elements...
- ... reflected in 14 ICAO documents

- Directly referenced in Annex 16, Volume IV
- Contain material approved by the ICAO
 Council for publication by ICAO to support
 Annex 16, Volume IV, and essential for the implementation of CORSIA







CORSIA Implementation is On Track!



ESAF/WACAF States' CORSIA Voluntary Participation for 2023

Benin	Botswana	Burkina Faso				
Cameroon	Côte d'Ivoire	Democratic Republic of the Congo				
Equatorial Guinea	Gabon	Gambia				
Ghana	Kenya	Madagascar				
Mali	Namibia	Nigeria				
Rwanda	South Sudan	Uganda				
United Republic of Tanzania	Zambia	Zimbabwe				

21 ESAF/WACAF States volunteered to join CORSIA for 2023



ESAF/WACAF States' reporting to CORSIA CCR

Status as of 19 July 2022

- 43 ESAF/WACAF Member States have nominated CORSIA Focal Points with CCR accounts
- 21 ESAF/WACAF Member States have submitted 2019 CO2 emissions data
- 17 ESAF/WACAF Member States have submitted 2020 CO2 emissions data
- 19 ESAF/WACAF Member States have reported 2021 aeroplane operators
- 1 ESAF/WACAF Member States have reported 2021 accredited verification bodies

2 States are reporting the 2021 CO₂ emissions data Deadline for submission is 31 July 2022



3 Capacity Building for CORSIA Implementation



ICAO ACT-CORSIA programme

ICAO <u>Assistance</u>, <u>Capacity-building and <u>Training on CORSIA</u> (<u>ACT-CORSIA</u>):</u>

ACT CORSIA is a **coordinated approach** to harmonize and bring together all relevant actions and promote **coherence to capacity building efforts for CORSIA implementation** – also enabling the **monitoring of global progress / transparency**

CORSIA Buddy Partnerships

Seminars, Online Tutorials

Brochures, Leaflets, Videos

Frequently Asked Questions

CORSIA Monthly Newsletters



www.icao.int.corsia

ACT-CORSIA Buddy Partnerships

- Cornerstone of ACT-CORSIA to support States to prepare for CORSIA implementation
- No expertise or resources for training available at the start of CORSIA
- Technical experts from supporting States voluntarily helping CORSIA Focal Points of requesting States, by providing on-site training and closely monitoring the required actions
- Considerations on languages, time-zones/locations, existing relations









ACT-CORSIA Buddy Partnerships

Different phases with specific focus areas in order to support necessary actions by States with different timelines

Phase I (Sep 2018 – Apr 2019): 15 supporting States and 98 requesting States

- Development and approval of Emissions Monitoring Plans
- Establishment of national/regional regulatory frameworks

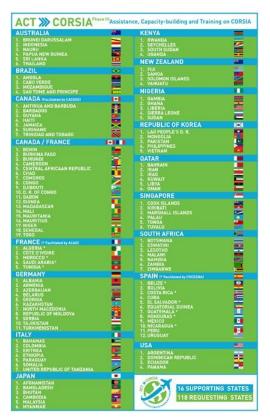
Phase II (May 2019 – Apr 2020): 16 supporting States and 114 requesting States

CO2 Emissions reporting and verification

Phase III (April 2020 - 2021): 16 supporting States and 118 requesting States

Use of the CORSIA Central Registry (CCR)

The focus areas of each Phase can form the basis for checklist to assess the progress made and milestones achieved in order to determine the need for a tailored approach to training.



ACT-CORSIA Buddy Partnerships – ESAF/WACAF

Kenya	Nigeria	South Africa	Angola Benin		
Cabo Verde	Mozambique	Sao Tome and Principe			
Burkina Faso	Burundi	Cameroon	Central African Republic		
Chad	Comoros	Congo	Côte d'Ivoire		
Democratic Republic of the Congo	Djibouti	Gabon	Guinea		
Madagascar	Mali	Mauritania	Mauritius		
Niger	Senegal	Togo	Eritrea		
Ethiopia	Somalia	United Republic of Tanzania	Rwanda		
Seychelles	South Sudan	Uganda	Gambia		
Ghana	Liberia	Sierra Leone	Botswana		
Eswatini	Lesotho	Malawi	Namibia		
Zambia	Zimbabwe	Equatorial Guinea			

3 States are participating as supporting States 44 States are participating as requesting States





CORSIA - Timeline and Actions (2022)

Timeline	Responsibility	Action
1 May 2022 to 31 July 2022	State	Conduct order of magnitude check of verified Emissions Report
31 July 2022	State	Submit aggregate 2021 CO ₂ emissions data to ICAO through the CCR
1 August 2022	State	Obtain and use the ICAO document entitled "CORSIA States for Chapter 3 State Pairs" applicable for the 2023 compliance year
31 October 2022	State	Obtain and use the Sector's Growth Factor (SGF) for 2021 from the ICAO document entitled "CORSIA Annual Sector's Growth Factor (SGF)"
30 November 2022	State	Submit to ICAO through the CCR: - List of operators attributed to the State - List of verification bodies accredited in the State
30 November 2022	State	Calculate and inform operators of offsetting requirements for 2021
31 December 2022	ICAO	Publish list of aeroplane operators and list of verification bodies

CORSIA Periodic Review

- <u>Periodic review</u> of the CORSIA every three years starting in 2022
- Periodic review will allow the Council to make informed decisions on whether it is necessary to make adjustments to the next phases of the scheme
- Special review by the end of 2032 on termination of the scheme, its extension or any other improvements of the scheme beyond 2035

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
		$\bigg)$													
Phases	Pilot Phase		First Phase		Second Phase										
	(voluntary, 3 years)			(voluntary, 3 years)		(all non-exempted States, 9 years)									
Compliance cycles	Cycle 1 (3 years) Cycle 2 (3 years)		Cycle 3 (3 years) Cycle 4 (3 years)				Cycle 5 (3 years)								
Periodic reviews		Review 1			Review 2			Review 3			Review 4	Special		Review 5	
Assemblies		A41			A42			A43			A44			A45	

2022 CORSIA Periodic Review

- In June 2020, the Council decided to safeguard against inappropriate economic burden on aeroplane operators
 - During the CORSIA pilot phase, to use 2019 emissions values for 2020 emissions, for CORSIA design features, including the CORSIA baseline.
- In March 2021, the Council agreed on the process and TOR for 2022 CORSIA periodic review
 - SL consultation followed to collect States' experiences regarding CORSIA implementation
- Information on COVID-19 impacts and 2022 CORSIA periodic review are keep updated on the dedicated website
 - https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-and-Covid-19.aspx



The 2022 Assembly will consider the outcome of the 2022 CORSIA periodic review, including the definition of the CORSIA baseline after the pilot phase



