

Session 4: CORSIA CO₂ Information Flow and Registry System Practical Demonstration on Actions and Timelines

ICAO Secretariat





- Provide an overview of the CORSIA CO₂ Information Flow
 - Chronological actions by stakeholders (what and to whom)
 - Monitoring (from Session #2 of this seminar)
 - Reporting and Verification (from Session #3 of this seminar)
 - Timeframes (when)



SECOND PHASE

CORSIA PHASED IMPLEMENTATION DIAGRAM

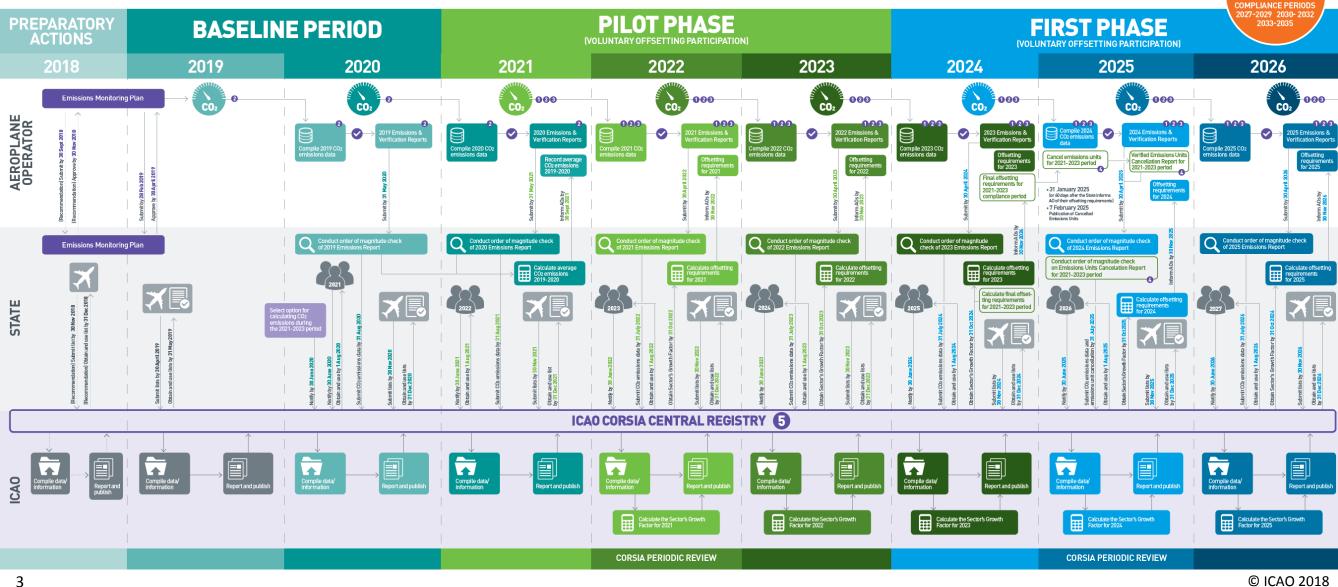
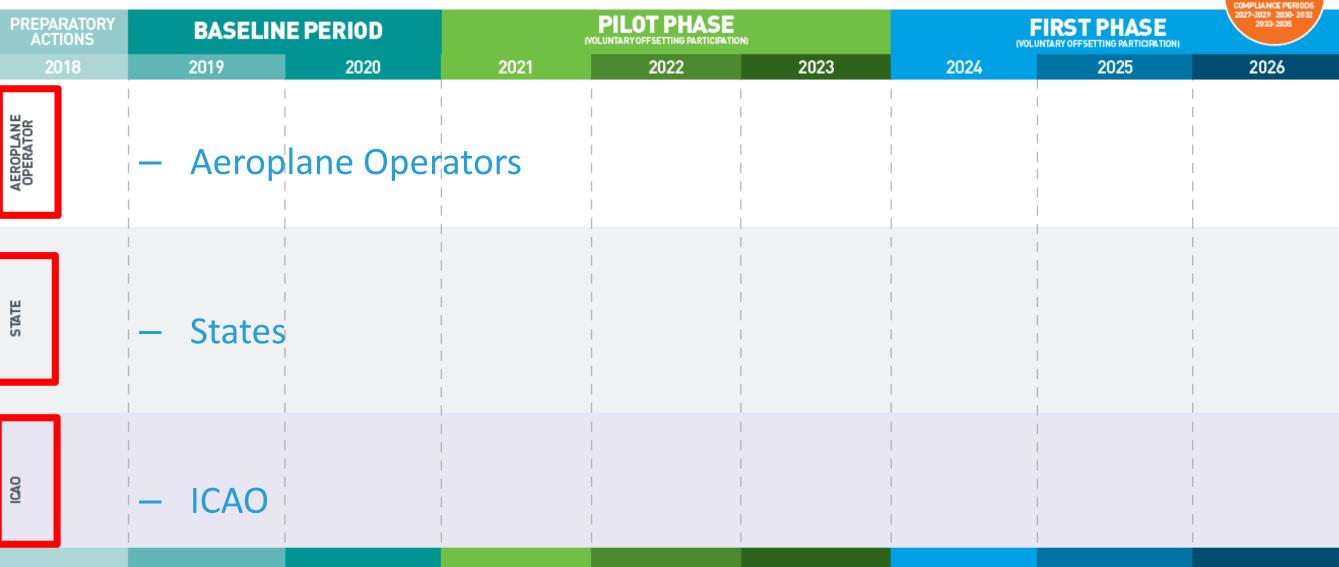




Diagram Description





SECOND PHASE



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Diagram Description

© ICAO 2018

Phases or time periods: SECOND PHASE **BASELINE PERIOD** PREPARATORY PHASE ACTIONS 2018 2019 2020 2021 2022 2023 2024 2025 2026 AEROPLANE OPERATOR **Preparatory Actions (2018)** Baseline Period (2019-2020) Pilot Phase (2021-2023) STATE First Phase (2024-2026) Second Phase* (2027-2035) CAO

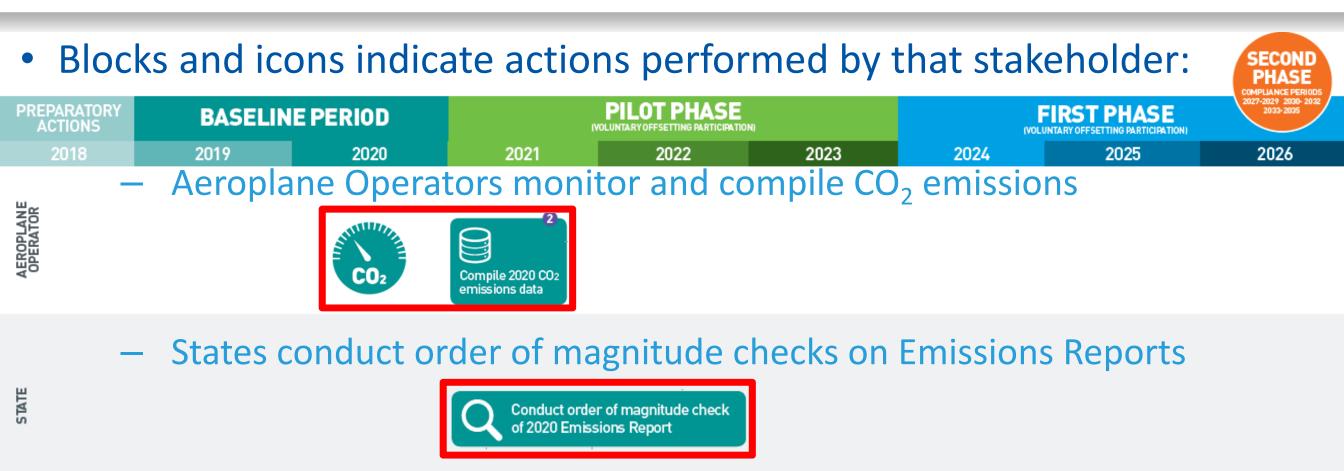
* CORSIA's Second Phase (2027-2035), follows similar process timelines as the First Phase, and its steps are not outline in the diagram.



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Diagram Description

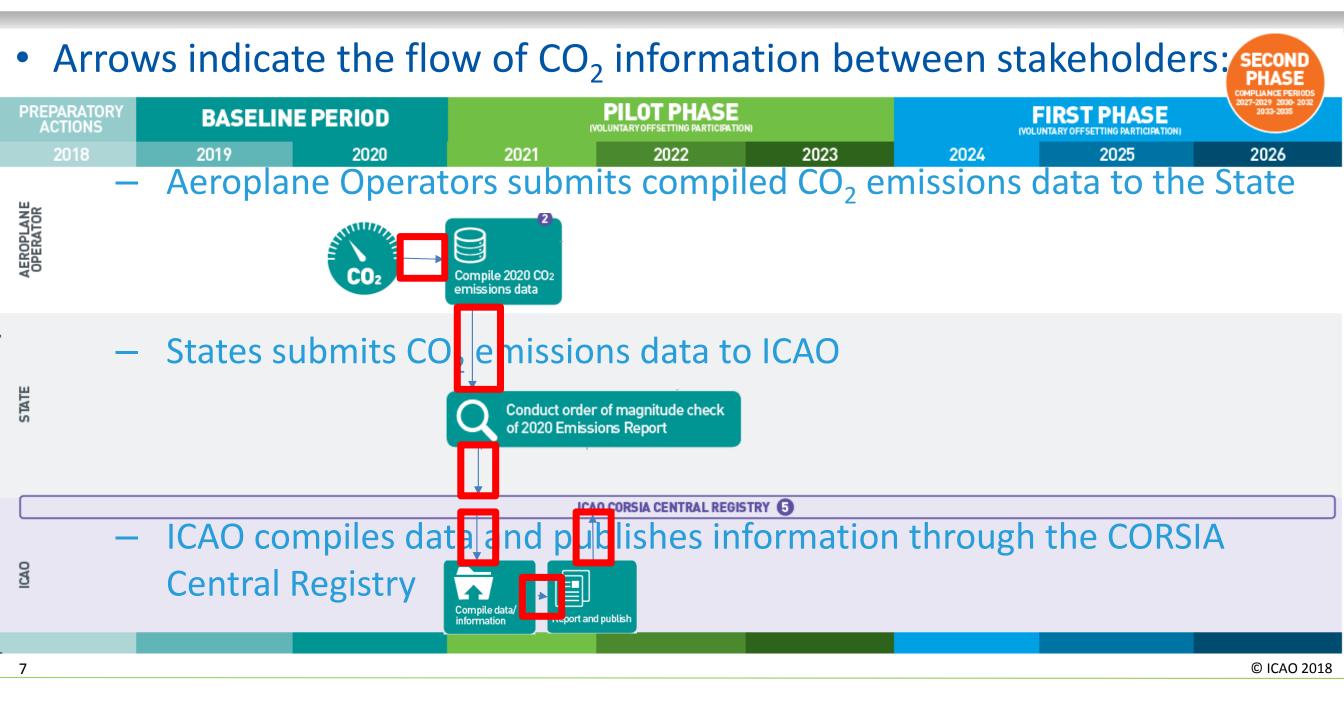


ICAO compiles data and publishes information

Compile data

Report and publish







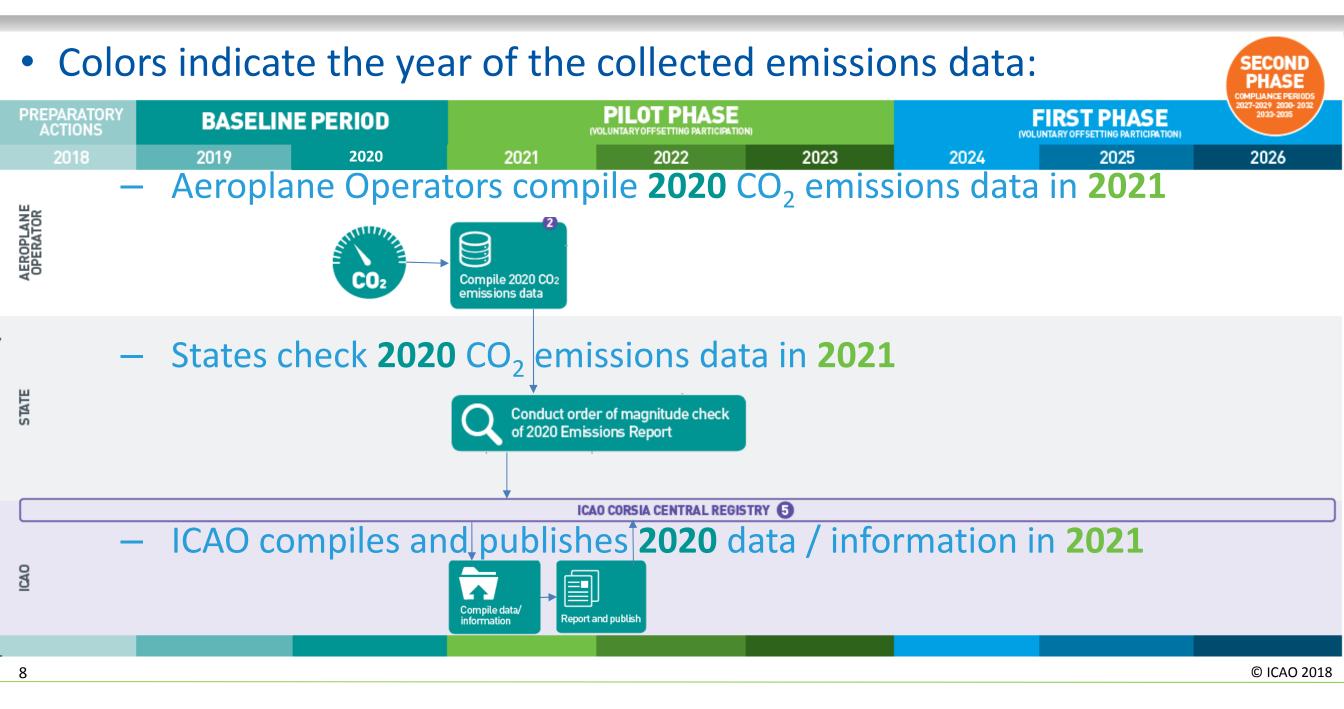
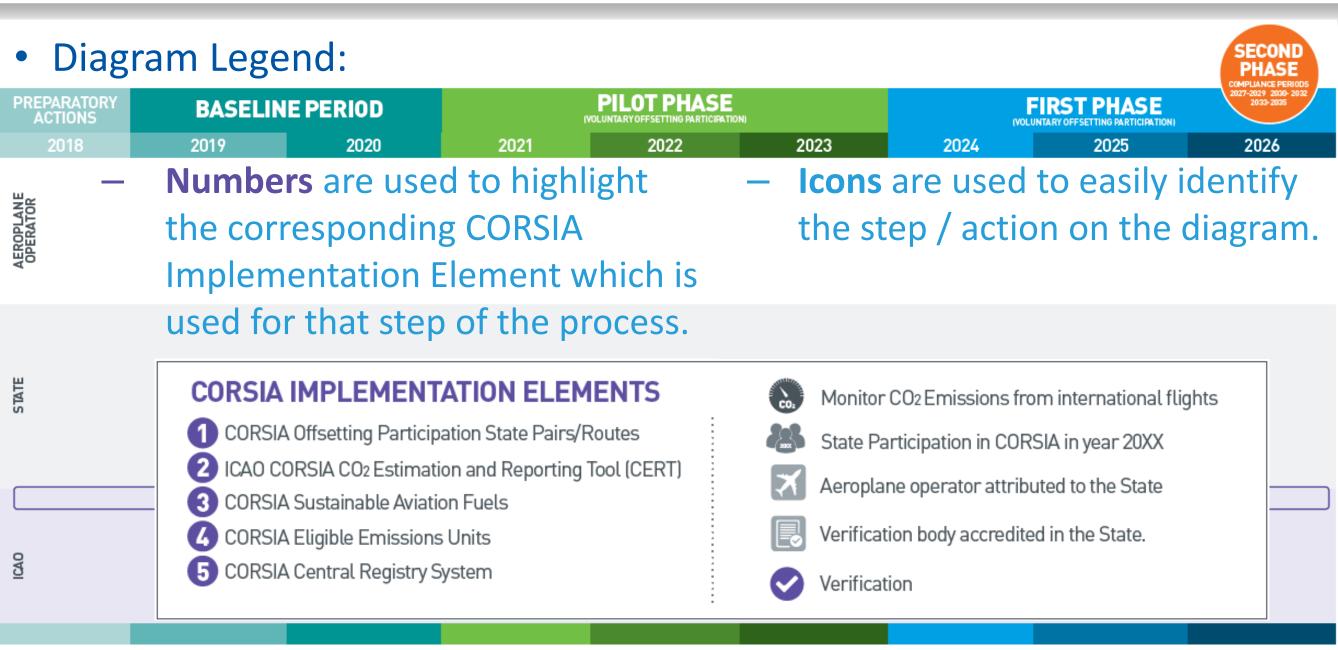


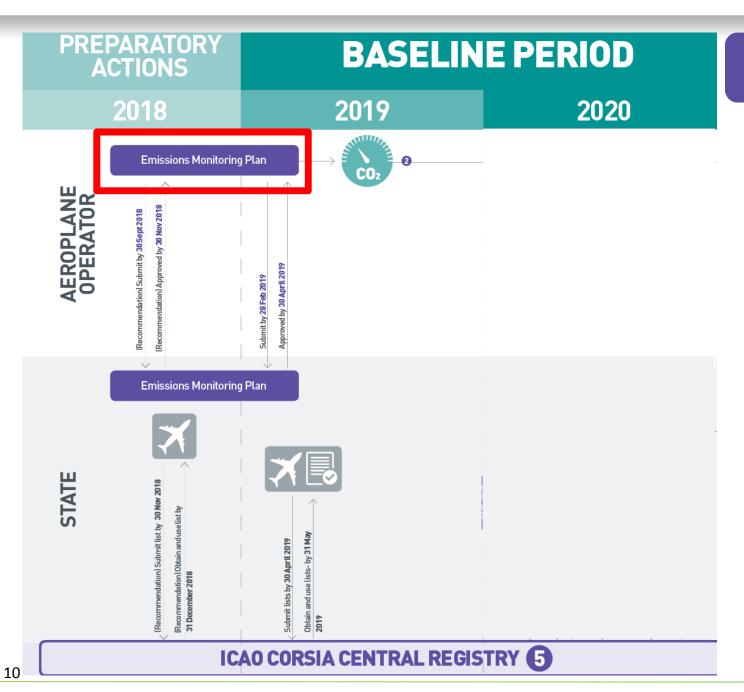


Diagram Description





2018 / 2019: Aeroplane Operator to State



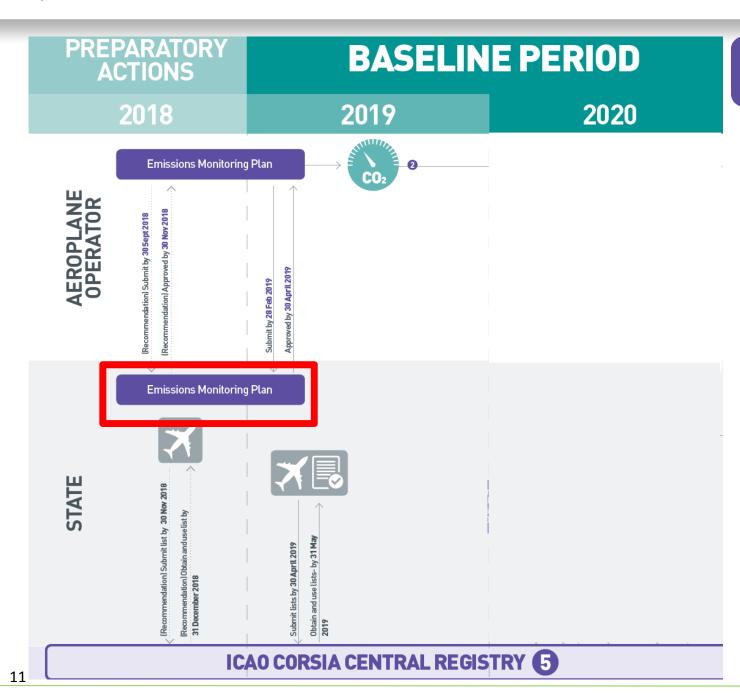
Emissions Monitoring Plan

Prepare and Submit:

An *aeroplane operator* prepares and submits an Emissions Monitoring Plan for review and consultation by the State to which it is attributed.

- -*Recommended timeframe*: submit **by 30 September 2018**.
- -*Mandatory timeframe*: submit **by 28 February 2019**.





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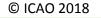
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Emissions Monitoring Plan

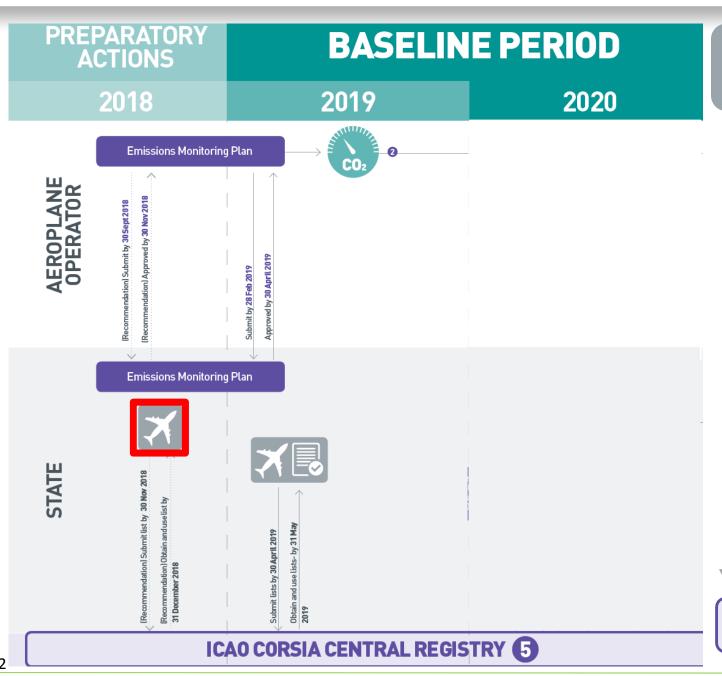
Review and Approve:

The *State* reviews and approves the Emissions Monitoring Plan.

- -*Recommended timeframe*: submit **by 30 November 2018**.
- -*Mandatory timeframe*: submit **by 30 April 2019**.







Aeroplane Operator Attributed to the State

<u>Submit</u>:

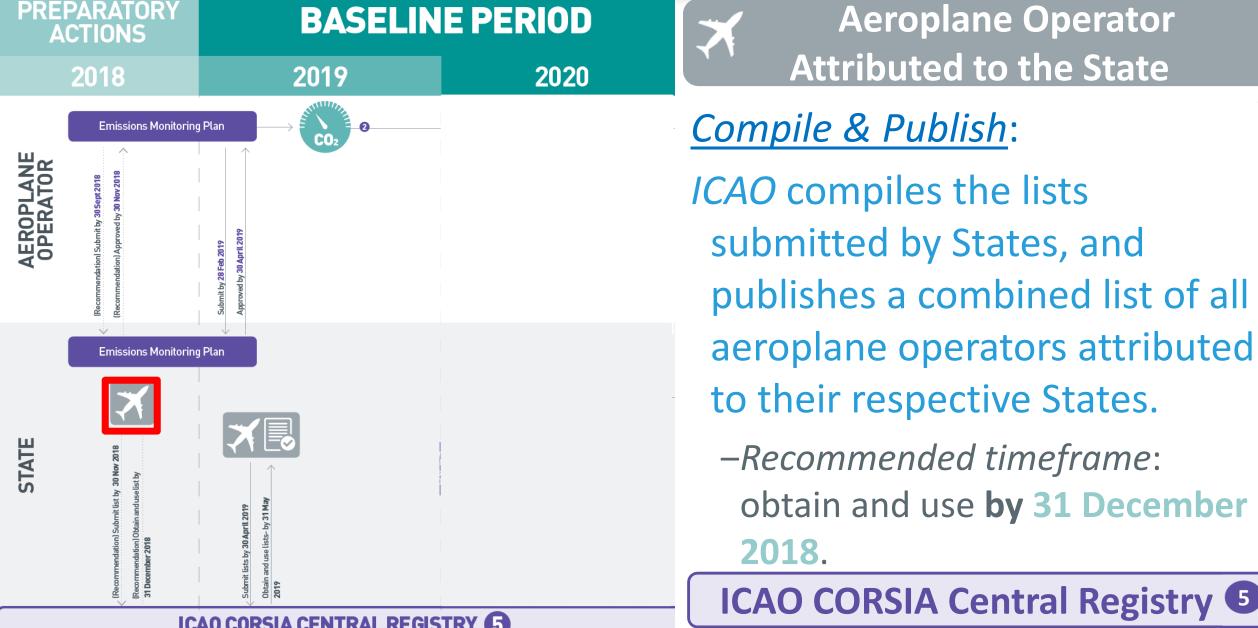
States submit to ICAO a list of all aeroplane operators (AO) attributed to the State.

-*Recommended timeframe*: submit **by 30 November 2018**.



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2018: ICAO to State



ICAO CORSIA CENTRAL REGISTRY 5



2019: Aeroplane Operator

PREPARATORY **BASELINE PERIOD** ACTIONS 2020 2019 2018 **Emissions Monitoring Plan AEROPLANE OPERATOR Emissions Monitoring Plan** X STATE ICAO CORSIA CENTRAL REGISTRY 5

Emissions Monitoring Plan

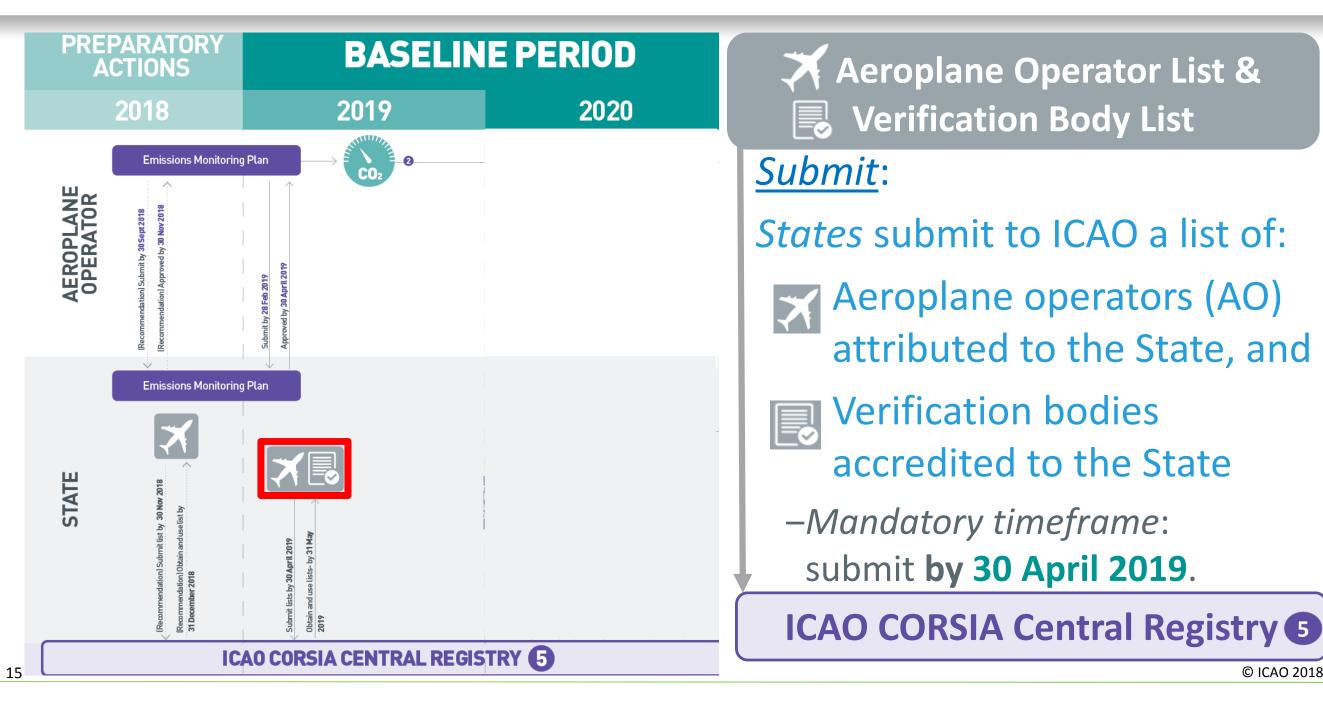
Monitor 2019 CO₂ Emissions

Monitor:

- <u>All</u> aeroplane operators shall monitor CO₂ emissions from international flights.
 - Mandatory timeframe: Starting
 1 January 2019 through 31
 December 2019.

Aeroplane operators can use the ICAO CORSIA CO₂ Estimation and Reporting Tool (CERT) **2**





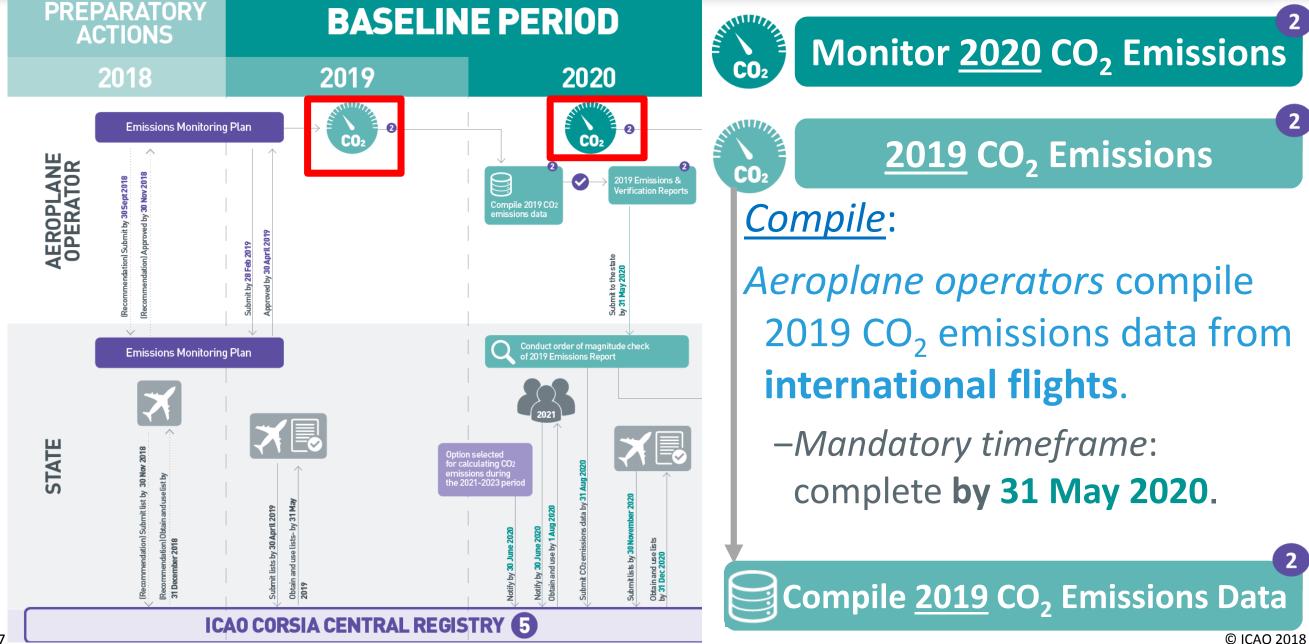


2019: ICAO to State





2020: Aeroplane Operator

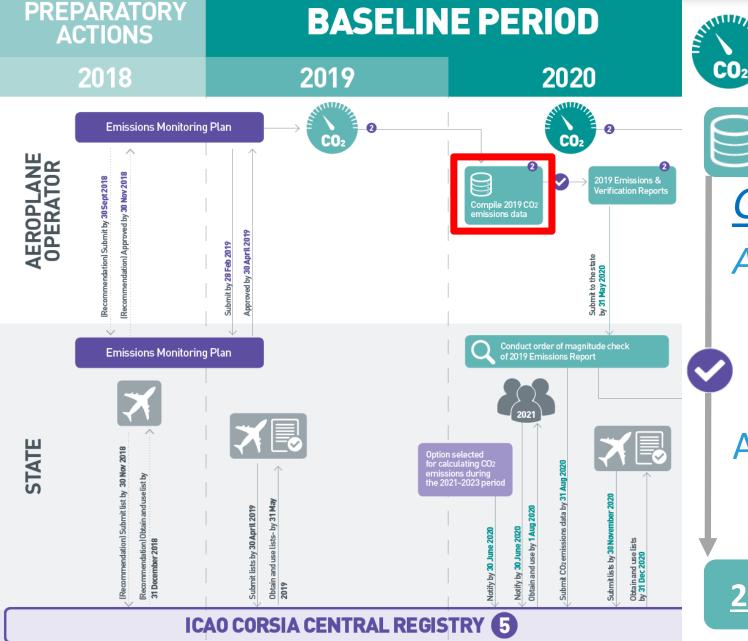


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2020: Aeroplane Operator



Monitor 2020 CO₂ Emissions

Compile 2019 CO₂ Emissions Data

Generate & Verify:

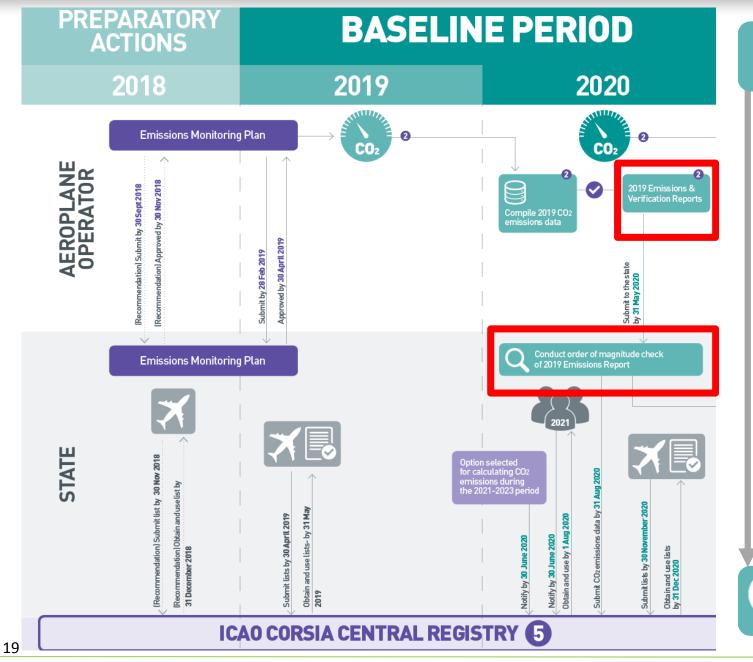
Aeroplane operators generate their **2019 Emissions Report** and engage a Verification Body to verify the report.

A Verification Body performs a verification and generates a Verification Report

2019 Emissions & Verification Reports



2020: Aeroplane Operator to State



2019 Emissions & Verification Reports

<u>Submit</u>:

Aeroplane operators submit their 2019 Emissions Report and Verification Report to the State.

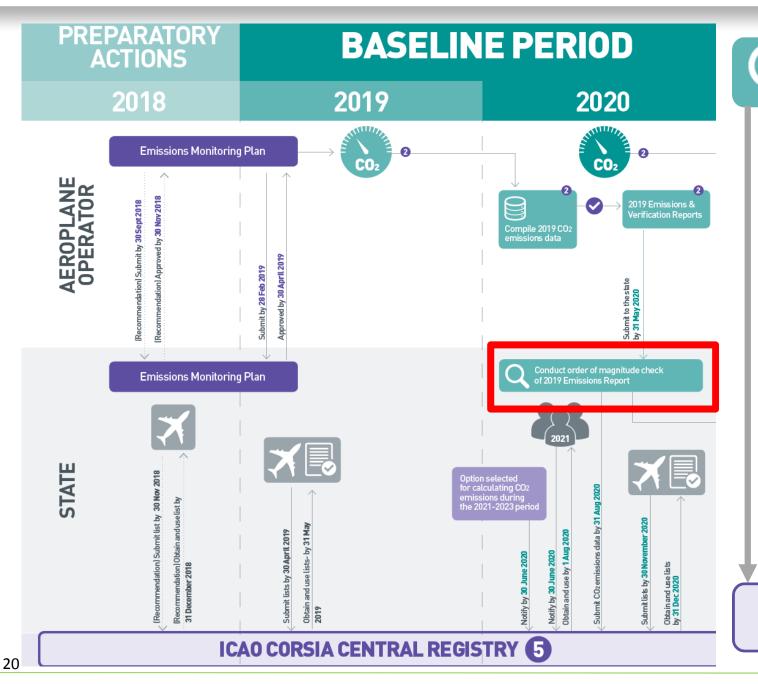
Mandatory timeframe:
 submit by 31 May 2020.

<u>Check</u>:

The *State* conducts an Order of Magnitude check of the Reports

Order of Magnitude Check





Order of Magnitude Check

<u>Submit</u>:

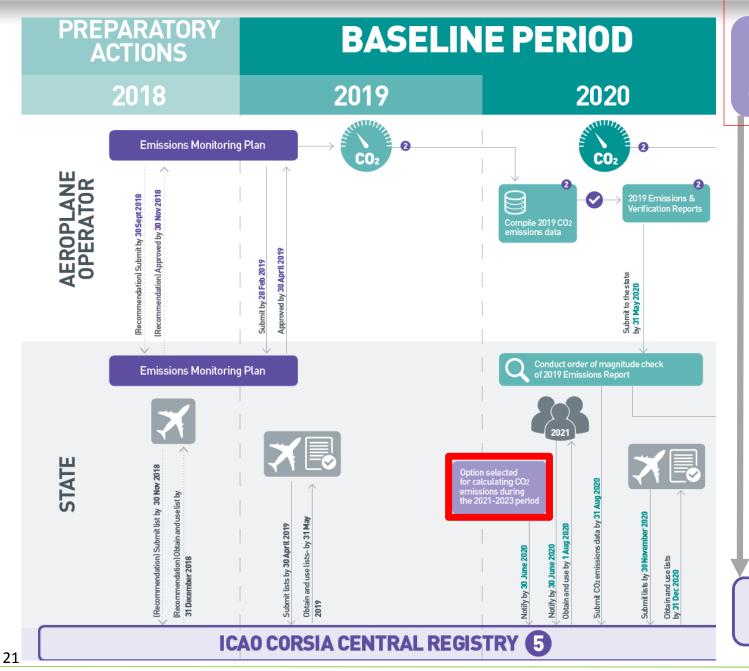
States submit the requisite CO₂ emissions data to ICAO.

Mandatory timeframe:
 submit by 31 August 2020.

Compile:

ICAO compiles the States' data to use as a component for the CORSIA baseline.





Select option for calculating CO₂ emissions during 2021-2023 period

Select:

Covered in session #5

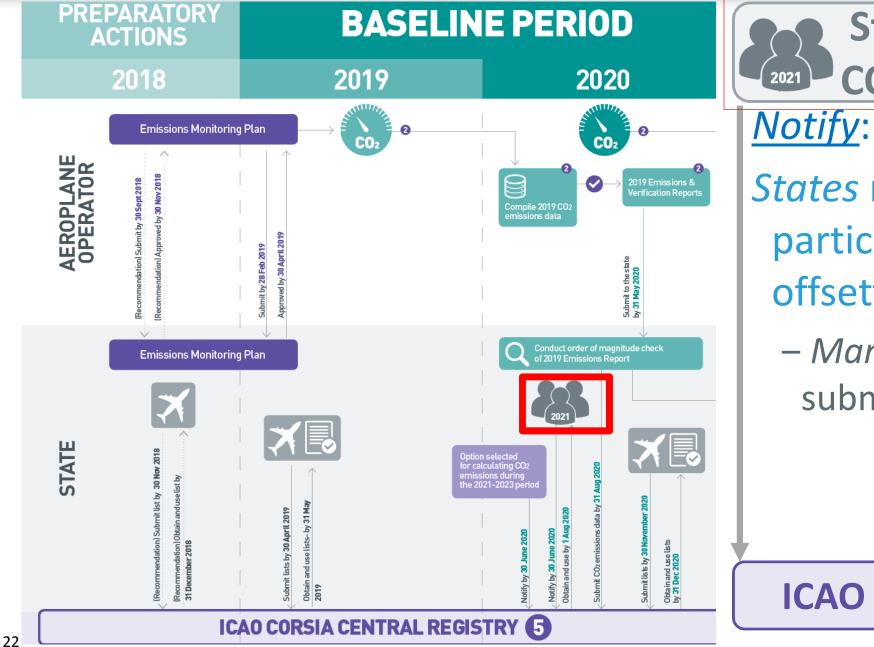
States select which option they will use to have their baseline calculated during the 2021-2023 period (Pilot Phase).

Notify:

States notify ICAO of their option.

Mandatory timeframe:
 notify by 30 June 2020.





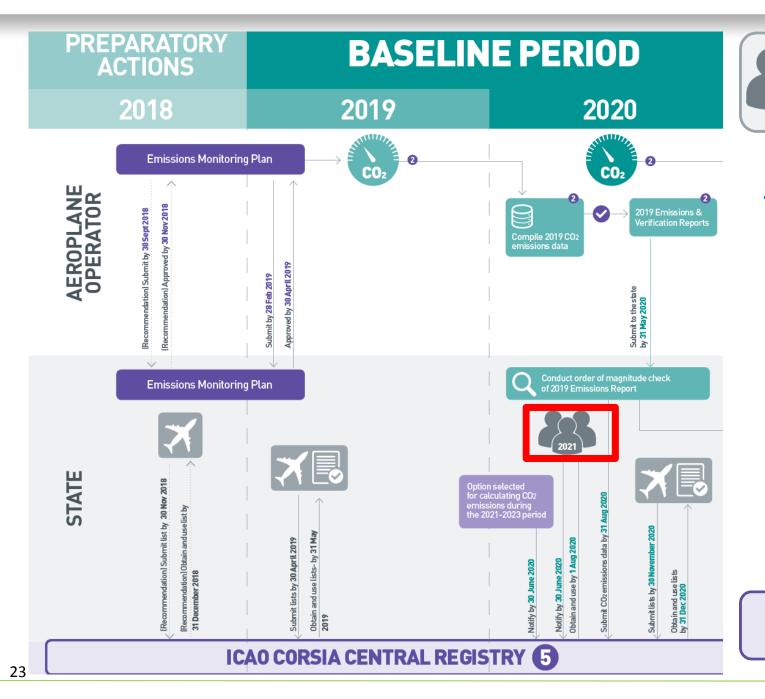
State Participation in CORSIA in year 2021

States notify ICAO of their participation in CORSIA offsetting in year 2021.

Mandatory timeframe:
 submit by 30 June 2020.



2020: ICAO to State



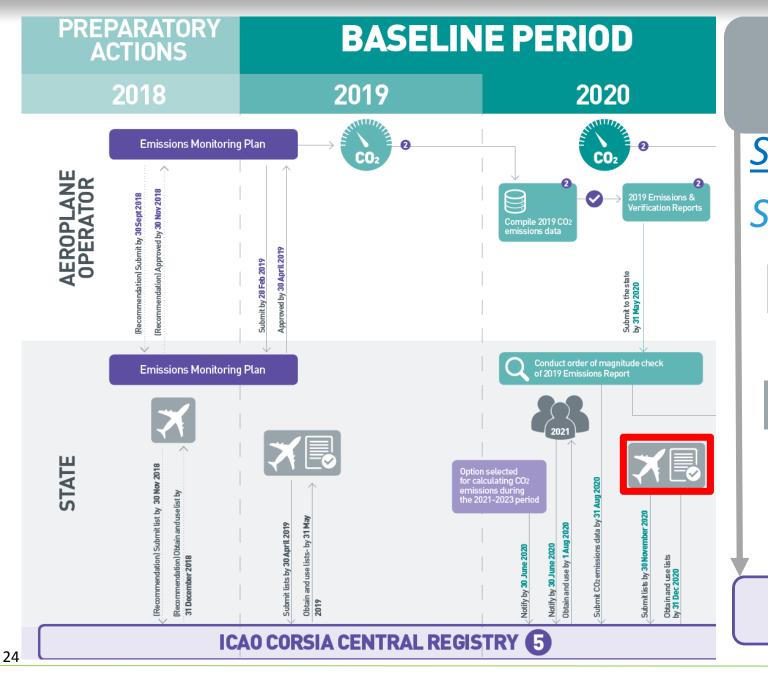
State Participation in CORSIA in year 2021

Compile & Publish:

ICAO compiles a list of States participating in CORSIA for 2021 (), and publishes the list for use by all States.

-Mandatory timeframe: States
obtain and use by 1 August
2020.





Verification Body List
 <u>Submit</u>:
 States submit to ICAO a list of:
 Aeroplane operators (AO) attributed to the State, and

Aeroplane Operator List &

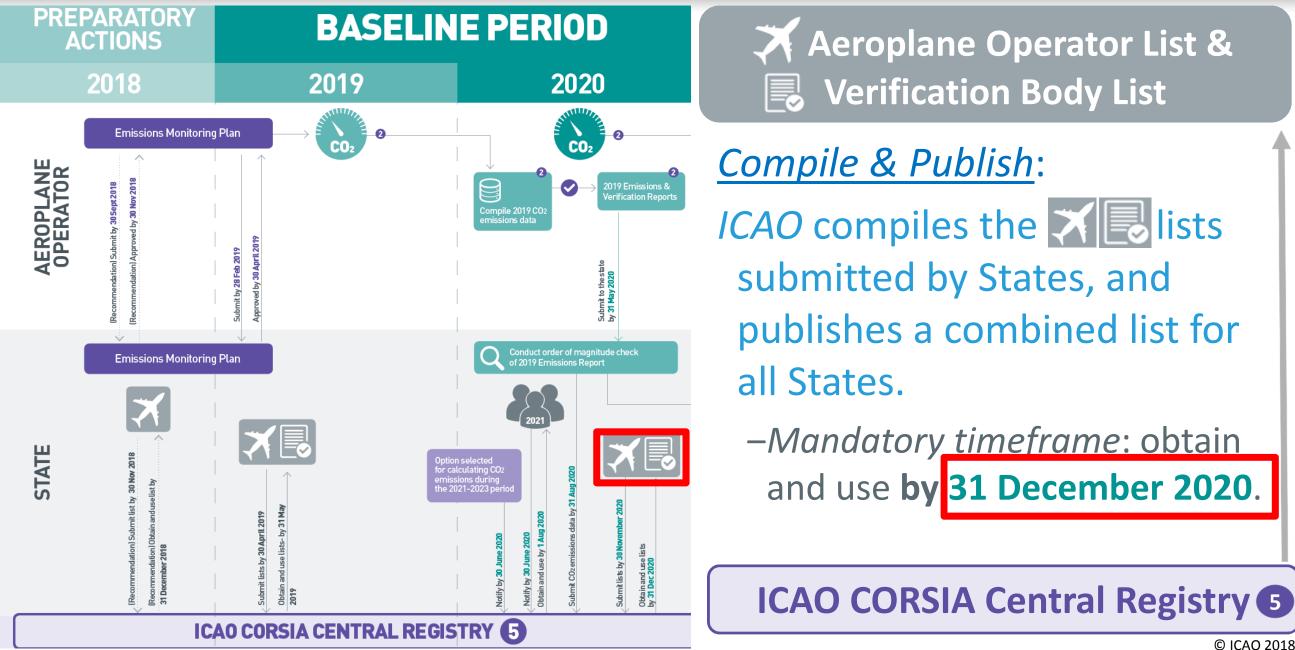
Verification bodies accredited to the State

-Mandatory timeframe:

submit by 30 November 2020.



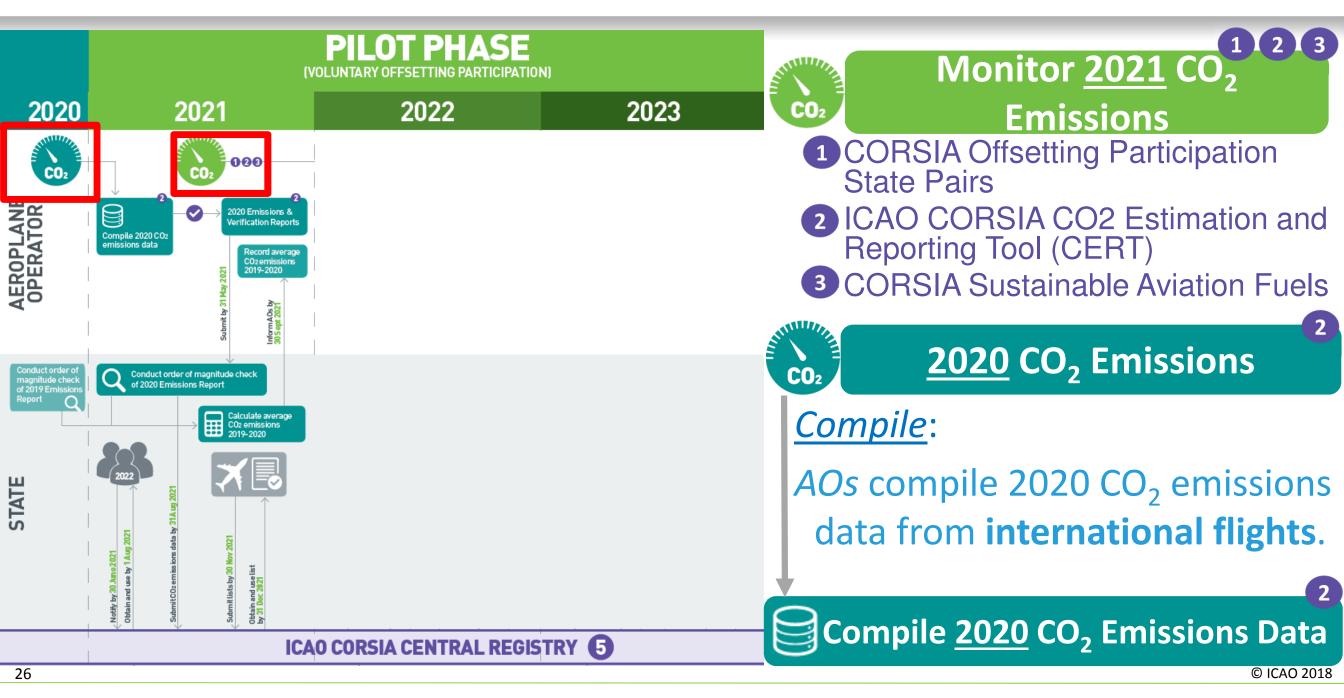
2020: ICAO to State



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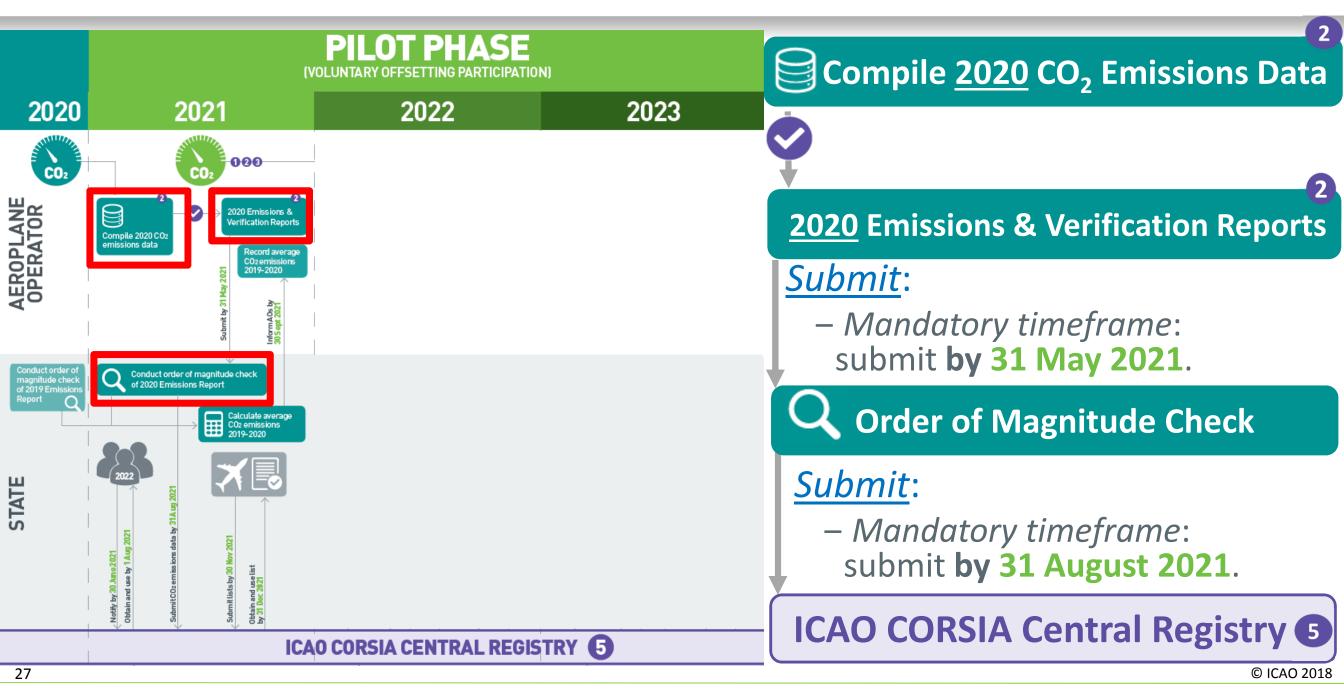


2021: Aeroplane Operator



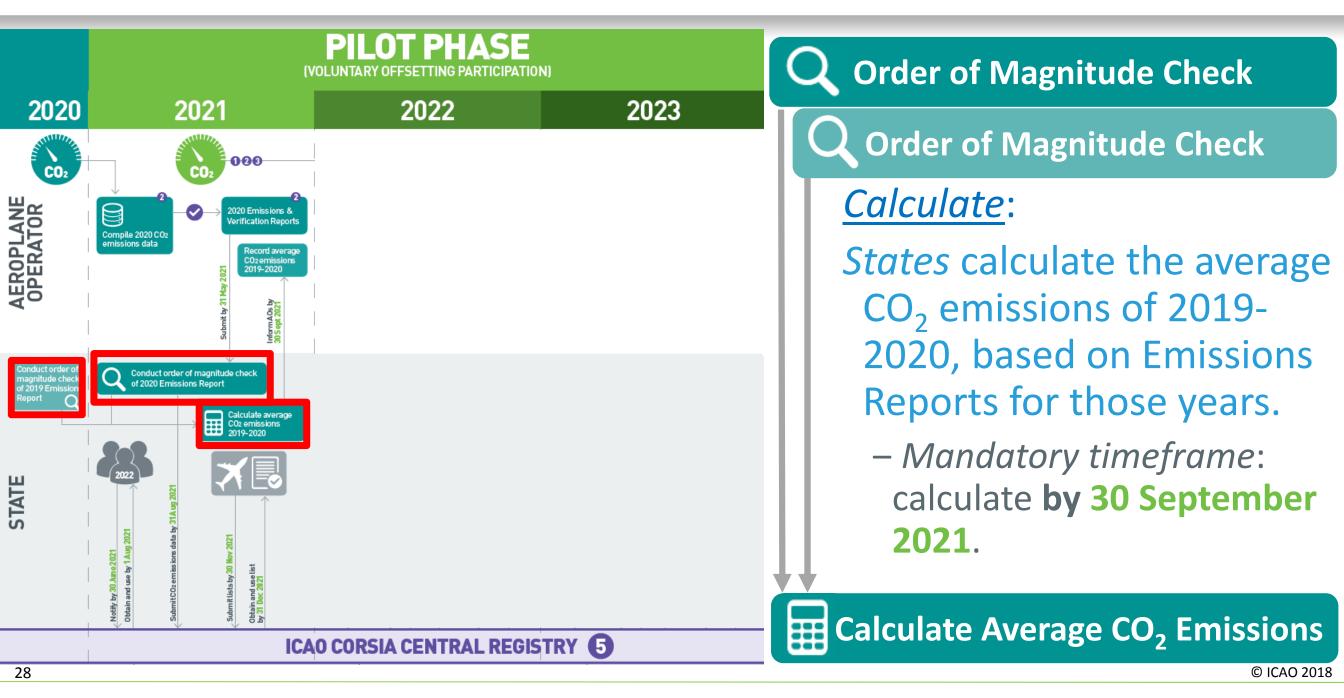


2021: Aeroplane Operator





2021: State



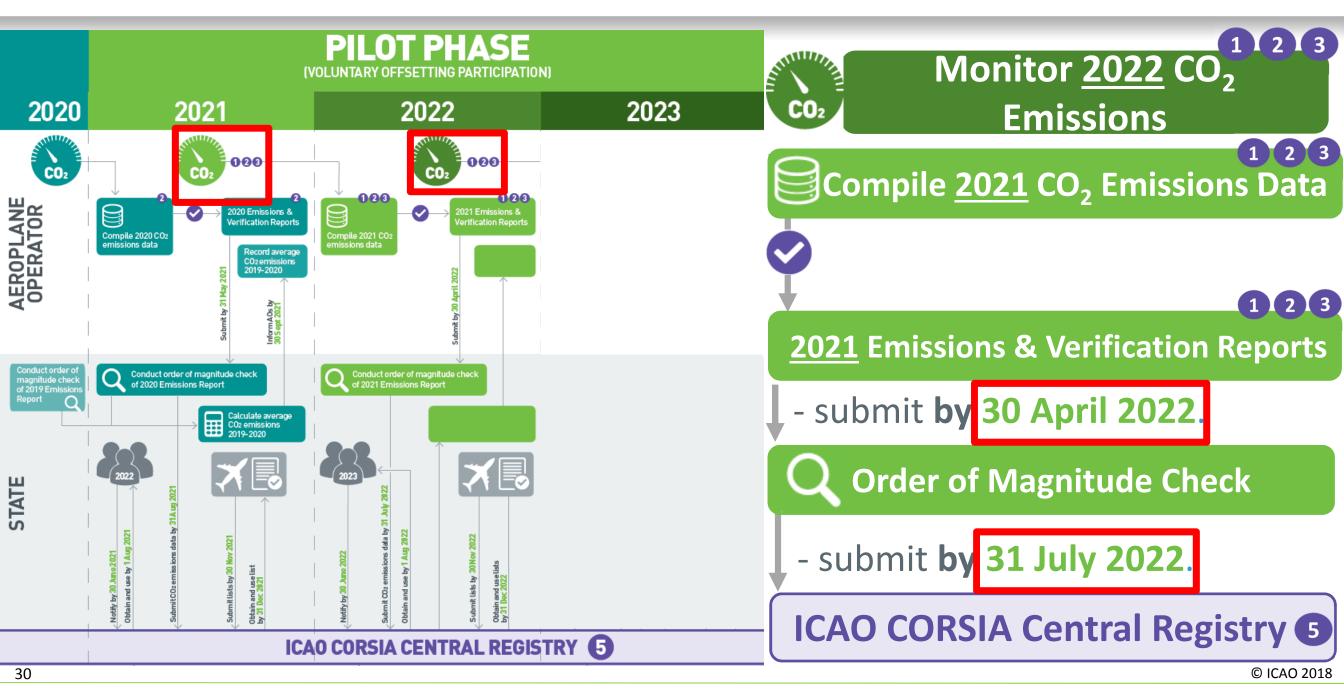


2021: State to Aeroplane Operator

	PILOT PHASE (VOLUNTARY OFFSETTING PARTICIPATION)			Record Average CO₂ Emissions
2020	2021	2022	2023	Inform and Record:
AEROPLANE OPERATOR	Compile 2020 CO2 emissions data			States inform aeroplane operators of their average CO ₂ emissions for the period of 2019-2020.
Conduct order of magnitude check of 2019 Emissions Report	Conduct order of magnitude check of 2020 Emissions Report			 Mandatory timeframe: calculate by 30 September 2021.
STATE	Notify by 30 June 2021 Obtain and use by 1 Aug 2021 SubmitCO2 emissions data by 31 Aug 2021 SubmitLists by 30 Nov 2021 Submit lists by 30 Nov 2021			Aeroplane operators record their average CO ₂ emissions for the period of 2019-2020.
		O CORSIA CENTRAL REGIS	Calculate Average CO ₂ Emissions	

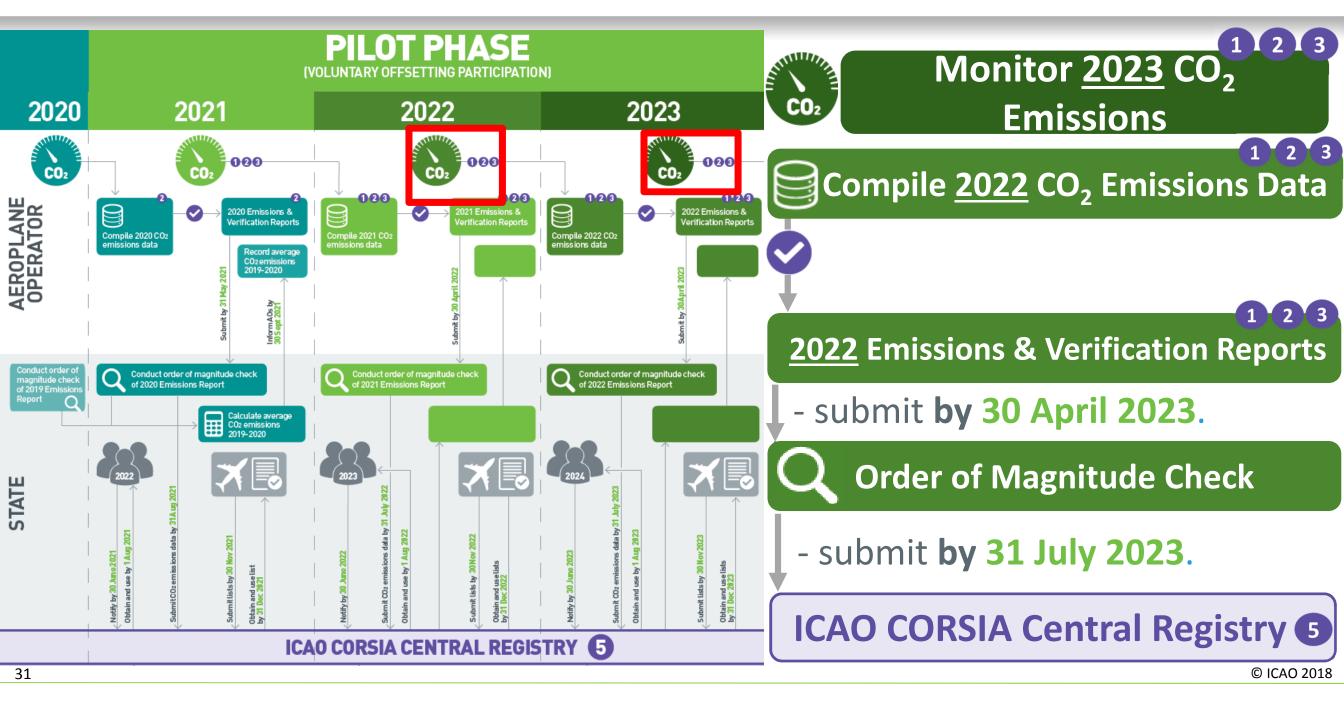


2022: Aeroplane Operator to State to ICAO





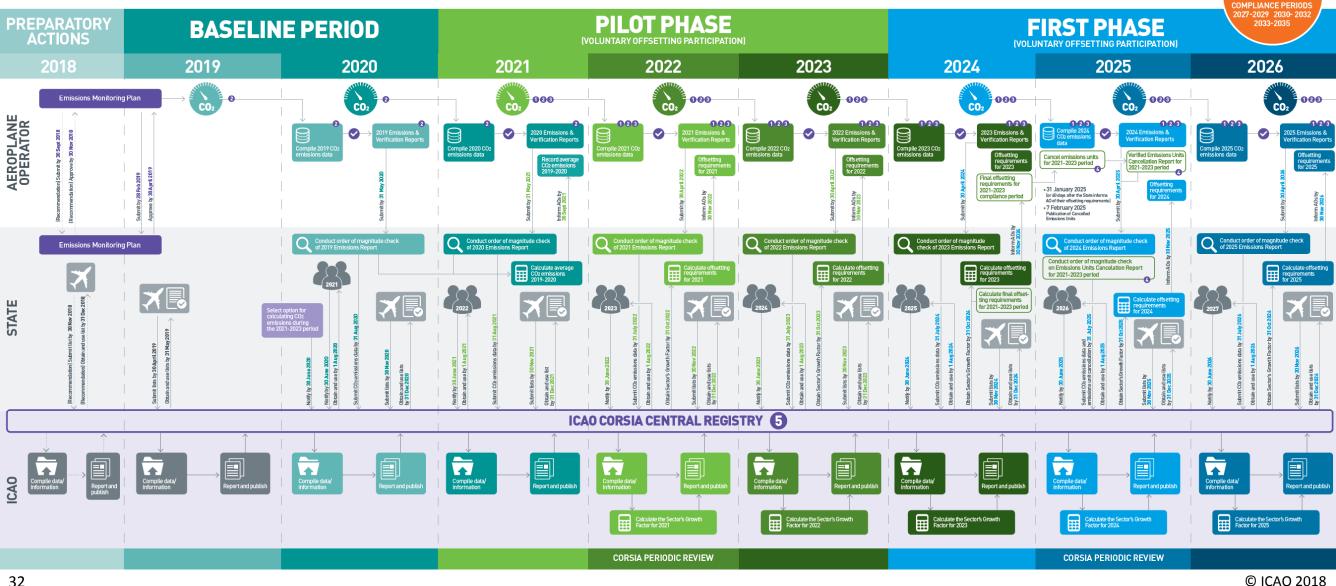
2023: Aeroplane Operator to State to ICAO



CORSIA Actions and CO2 Information Flow

SECOND PHASE

CORSIA PHASED IMPLEMENTATION DIAGRAM



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Questions?



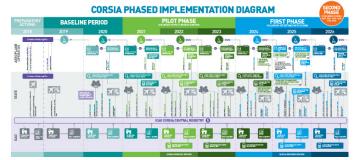
Session 4 Small Group Exercise

CORSIA CO₂ Information Flow



Thank you!





For more information, please visit our website: <u>http://www.icao.int/env</u>