



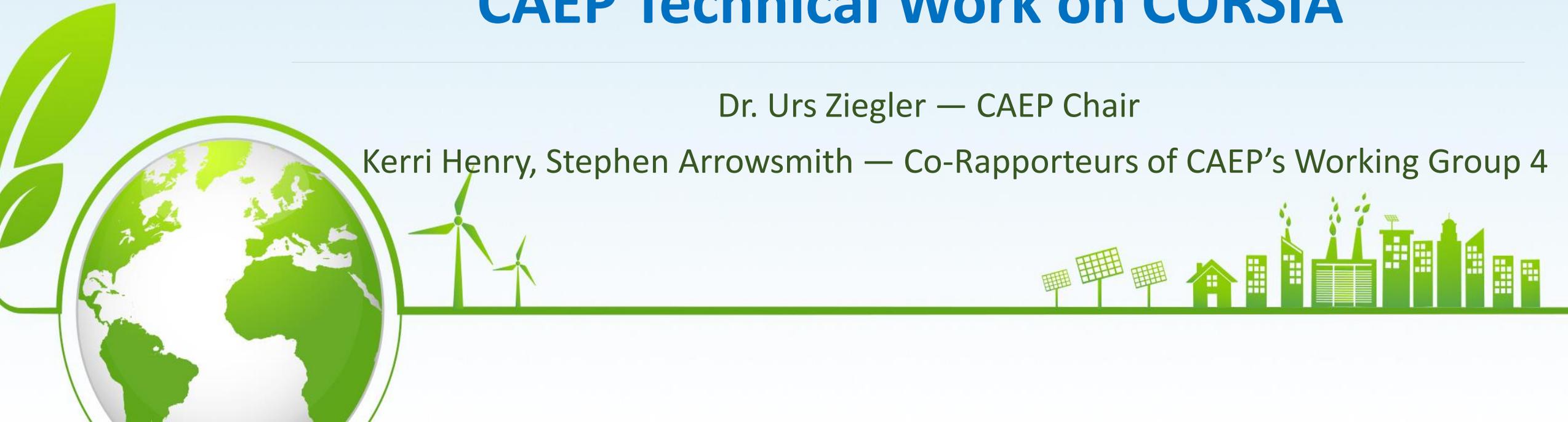
Carbon Offsetting and Reduction  
Scheme for International Aviation

ICAO CORSIA Forum – Session 1

# CAEP Technical Work on CORSIA

Dr. Urs Ziegler — CAEP Chair

Kerri Henry, Stephen Arrowsmith — Co-Rapporteurs of CAEP's Working Group 4



- Committee on Aviation Environmental Protection (CAEP) is a Technical Committee of the ICAO Council
  - CAEP assists the ICAO Council in formulating new policies and adopting new SARPs on environmental matters in the international civil aviation sector
  - The Council establishes the Terms of Reference and the Work Programme of CAEP



# CAEP Membership

- CAEP currently consists of 31 Members and 21 Observers
  - CAEP Members are experts nominated by their States to participate in and contribute substantially to the committee's work
  - CAEP Observers are experts nominated by States, international non-governmental organizations, United Nations bodies and regional State organizations to bring their specific views that would not otherwise be available to the work of CAEP

- 31 CAEP Members

Argentina	India	Singapore
Australia	Indonesia	South Africa
Brazil	Italy	Spain
Canada	Japan	Sweden
Chile	Kenya	Switzerland
China	Netherlands	Ukraine
Cote d'Ivoire	Nigeria	United Arab Emirates
Egypt	Poland	United Kingdom
France	Qatar	United States
Germany	Russian Federation	
Greece	Saudi Arabia	

- 21 CAEP Observers

- 6 CAEP Observers from States

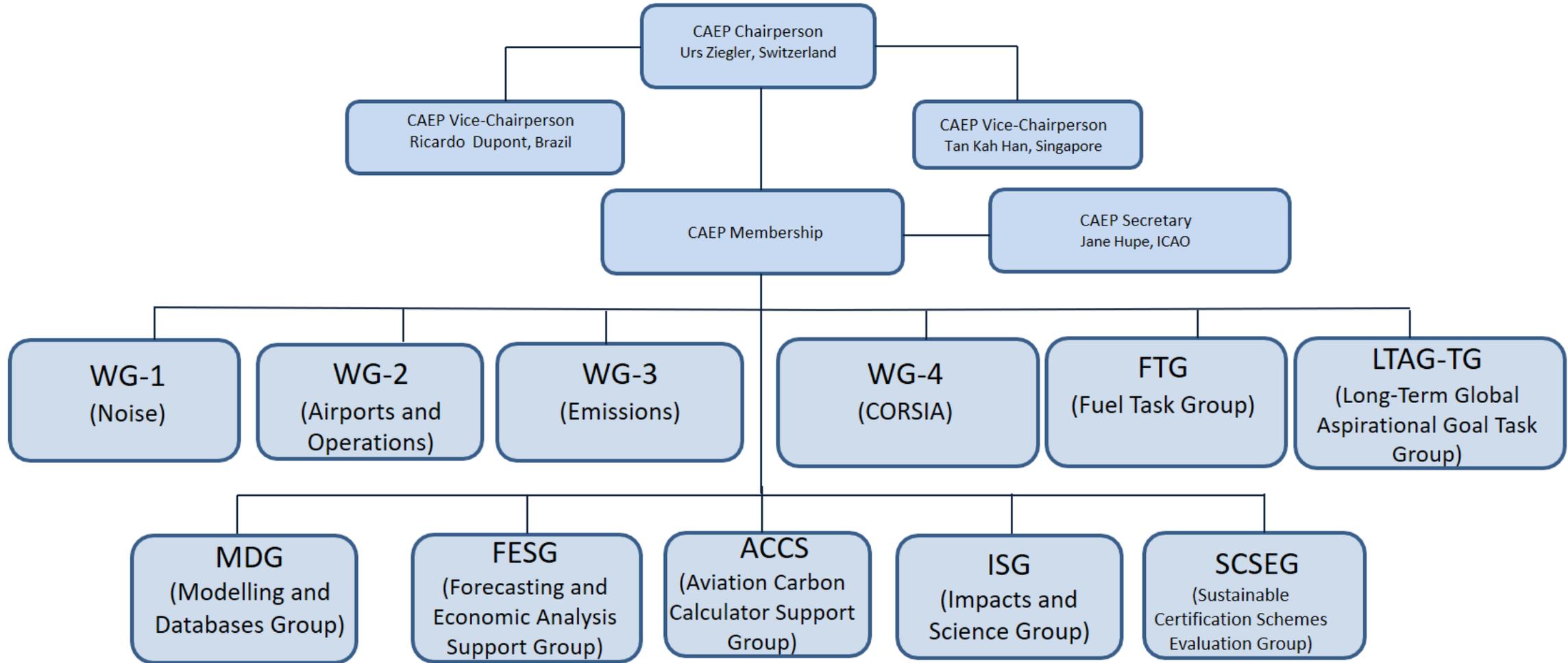
Austria	Norway	Portugal
Malaysia	Peru	Turkey

- 15 CAEP Observers from International Organizations

ABFA	EU	IFALPA
ACAO	IATA	IPIECA
ACI	IBAC	UNEP
AFCAC	ICCAIA	UNFCCC
CANSO	ICSA	WMO

- CAEP works under the stewardship of a Chairperson and two Vice-Chairpersons, elected by CAEP from its Members
- Sub-groups led by rapporteurs are established by CAEP as necessary

# CAEP Structure (2019-2022)



# CAEP's Role in Preparatory Work on CORSIA

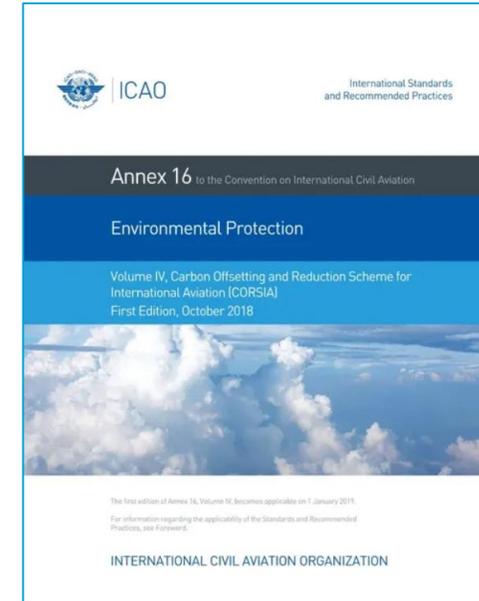
- On the way to the landmark CORSIA agreement at the 39th ICAO Assembly, CAEP supported the Council by undertaking a series of technical tasks and analyses related to the development of a global MBM scheme
- The 39th ICAO Assembly in 2016 requested the Council, **with the technical contribution of CAEP:**
  - **To develop the SARPs and related guidance material for the implementation of CORSIA, to be applicable from 1 January 2019**
  - **To establish a Technical Advisory Body (TAB) to make recommendations to the Council on the eligible emissions units for use in CORSIA**



- CAEP's contribution to the development of CORSIA SARPs and guidance:
  - CAEP delivered an initial draft of Annex 16, Volume IV at the 2017 Meeting of its Steering Group, which served as the basis for the consultative process that led to the adoption by the Council of the **first edition of Annex 16, Volume IV in June 2018**
  - CAEP developed guidance on CORSIA as included in the **Environmental Technical Manual (Doc 9501), Volume IV, whose first edition was published in 2018, followed by a second edition published in 2019**
  - CAEP delivered the necessary elements to facilitate the initial steps in CORSIA implementation (e.g. 2018 version of the ICAO CORSIA CERT; basic functionalities of the CORSIA Central Registry)

- CAEP's contribution to the establishment of the Emissions Unit Criteria and TAB:
  - CAEP developed draft criteria and established a Programme Testing Group (PTG) in September 2017, to undertake the **informal testing of some programmes against these emissions units criteria (EUC)**. This process produced a set of key findings and related recommendations for the Council in November 2018
  - CAEP subsequently developed a series of recommendations toward the establishment of the EUC and TAB, including the Terms of Reference. The **EUC and TAB TOR were approved by the Council in March 2019**

- **Maintenance of Annex 16, Volume IV and related guidance in the ETM, Volume IV**
  - CAEP will propose amendments that aim at **clarifying existing MRV provisions with corresponding guidance**, and propose additional provisions if needed
  - **The CAEP/12 Meeting (February 2022) will consider proposed amendments for recommendation to the Council**



- Work on **CO<sub>2</sub> monitoring-related matters** includes the following:
  - Use of the fuel allocation with block hour methodology
  - Identification of flights outside of the scope of applicability
  - Clarity on when an operator should be classified as a “new entrant”
  - Data gap filling by States with the CERT
  - Recommendations for operators falling outside the scope of applicability
  - Error corrections

- Work on **CO<sub>2</sub> reporting-related matters** includes the following:
  - Template of the Emissions Unit Cancellation Report (EUCR) from aeroplane operator to State, and related guidance
- Work on **CO<sub>2</sub> verification-related matters** includes the following:
  - Guidance to operators on identifying an eligible verification body
  - Guidance on remote verification in CORSIA
  - Update of CORSIA verification procedures in light of revised applicable ISO Standards

- Development of the annual versions of the **ICAO CORSIA CO<sub>2</sub> Estimation and Reporting Tool (CERT)**
  - Addition of functionalities to allow for the implementation of requirements as per the timeline in Annex 16, Volume IV, including determination of CO<sub>2</sub> emissions subject to offsetting requirements
  - Periodic updates of background data
  - Improvements in ease of use / correction of issues identified in previous versions of the tool



**CERT**  
**ICAO CORSIA**  
**CO<sub>2</sub> Estimation and Reporting Tool**  
(accessible through the ICAO CORSIA website)

- Support to Council on the **management of CORSIA Eligible Emissions Units:**
  - Guidance on how to monitor and review the continued eligibility of emissions unit programmes that the Council has determined to be eligible under CORSIA
  - Recommendations on a “Emissions Unit Programme Registry Attestation” approach for the operationalization of the programme registry requirements to facilitate application of the SARPs
- Recommendations, when approved by the Council, are **integrated in TAB procedures for implementation by TAB and the ICAO Secretariat**

- **Technical support to Council's work on the 2022 CORSIA periodic review:**
  - Development and regular update of a scenario-based analysis of potential impacts of COVID-19 on CORSIA
  - Technical inputs on the supply of emissions units and estimates on the price of emissions units from 2021-2026
  - Assessment of CORSIA's market and cost impact on States and aeroplane operators and on international aviation, including analysis of possible market distortions
- CAEP inputs are periodically delivered to the Council and made available in the ICAO CORSIA website

# Next Steps of CAEP's Work on CORSIA

- CAEP will take stock of work undertaken on CORSIA at the CAEP/12 Meeting (February 2022)
- CAEP/12 will develop a Work Programme for 2022-2025 for consideration by the ICAO Council, considering continuation of existing tasks and proposed new tasks if required
- CAEP continues to support the Council's work on the 2022 CORSIA periodic review, on the basis of Council's requests and related timeline



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THANK YOU