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

Gilles Bourgeois

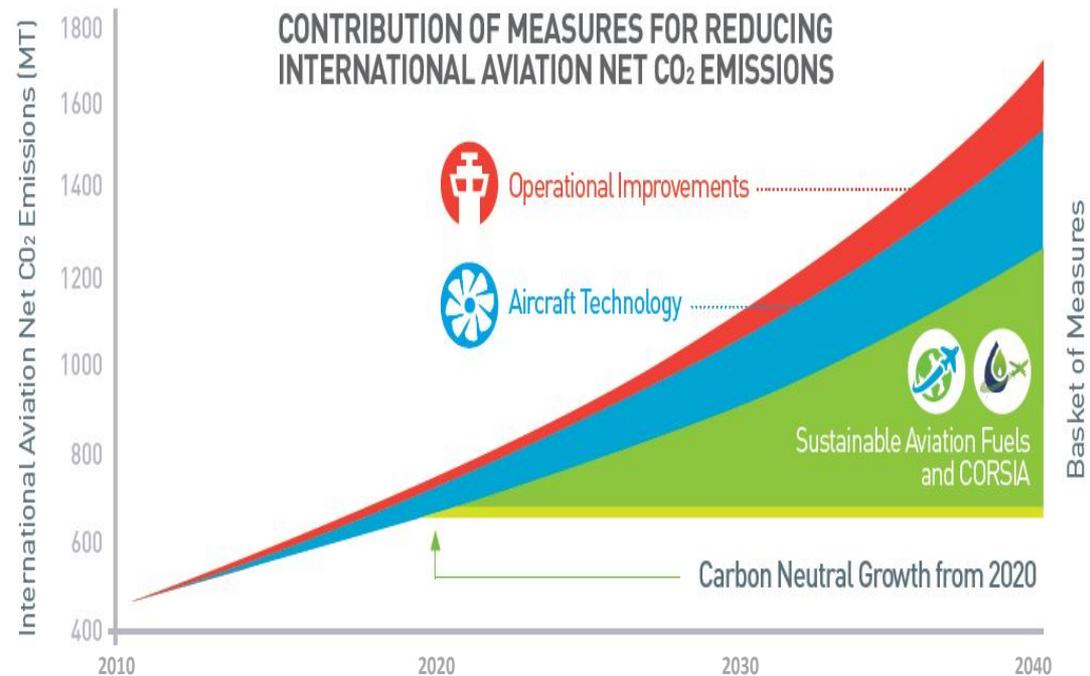**Chief, Environmental Protection and Standards, Transport Canada**

CORSIA

CORSIA was adopted by the 39th ICAO Assembly in 2016 through ICAO Assembly Resolution 39-3
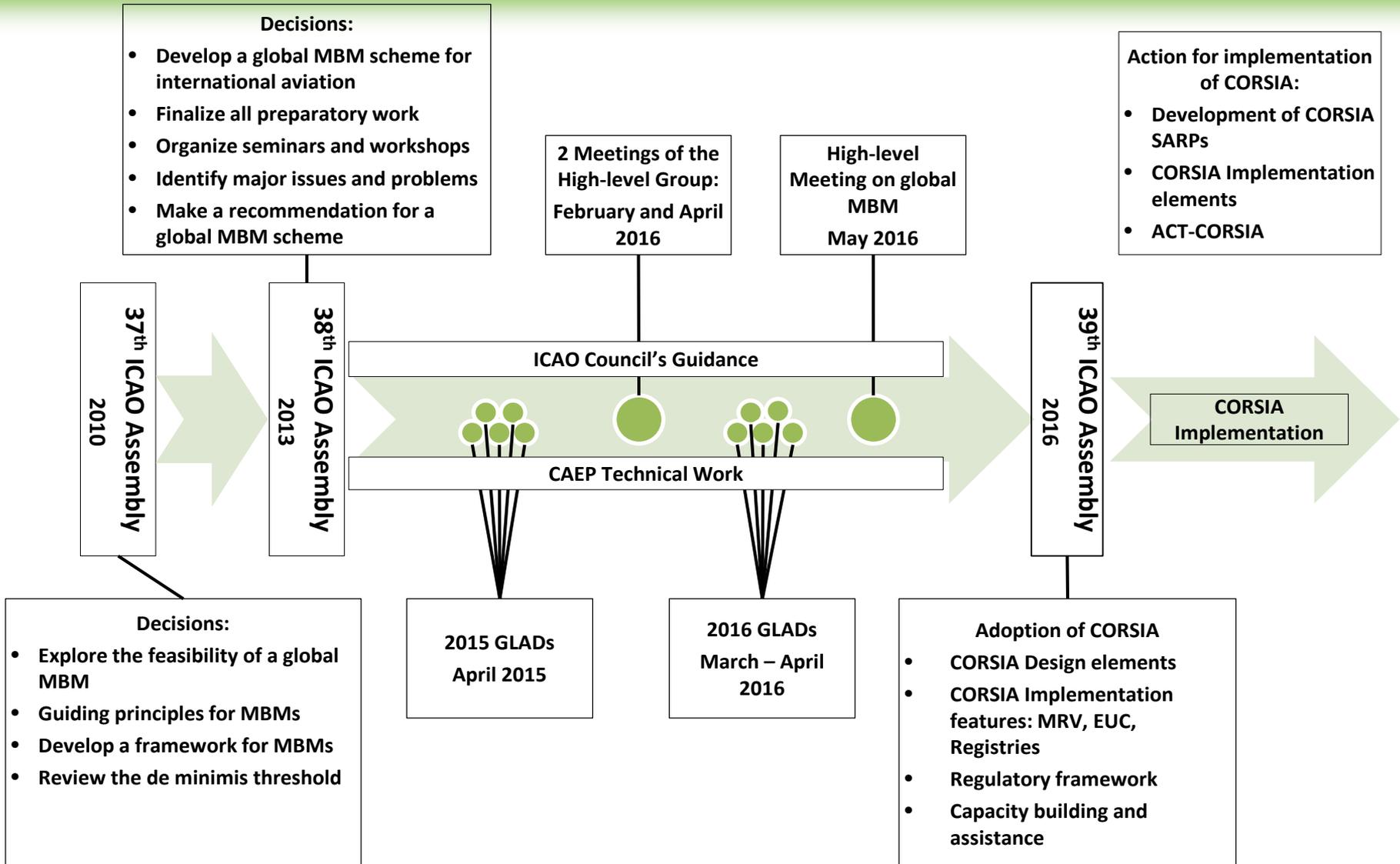## The **first global MBM scheme** for any industry sector

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**

CONTRIBUTION OF MEASURES FOR REDUCING INTERNATIONAL AVIATION NET CO_2 EMISSIONS

International Aviation Net CO_2 Emissions (MT)

- Operational Improvements
- Aircraft Technology
- Sustainable Aviation Fuels and CORSIA

Carbon Neutral Growth from 2020

Basket of Measures

2010 2020 2030 2040

400 600 800 1000 1200 1400 1600 1800

- CORSIA Design used a Staged Approach over Time:
  – Choice of Mechanism
  – Select the Goal
  – Define CORSIA Key design elements
  – Outreach for Global Awareness
  – Development CORSIA Technical Elements
  – Approval Process
  – Outreach for Global Implementation (since 2018)
  – Implementation (NOW)

Decisions:
- Develop a global MBM scheme for international aviation
- Finalize all preparatory work
- Organize seminars and workshops
- Identify major issues and problems
- Make a recommendation for a global MBM scheme

Action for implementation of CORSIA:
- Development of CORSIA SARPs
- CORSIA Implementation elements
- ACT-CORSIA

2 Meetings of the High-level Group: February and April 2016

High-level Meeting on global MBM May 2016

37th ICAO Assembly 2010

38th ICAO Assembly 2013

ICAO Council's Guidance

CAEP Technical Work

39th ICAO Assembly 2016

CORSIA Implementation

Decisions:
- Explore the feasibility of a global MBM
- Guiding principles for MBMs
- Develop a framework for MBMs
- Review the de minimis threshold

2015 GLADs April 2015

2016 GLADs March – April 2016

Adoption of CORSIA
- CORSIA Design elements
- CORSIA Implementation features: MRV, EUC, Registries
- Regulatory framework
- Capacity building and assistance

- CORSIA Key design elements:
  - Phased implementation
  - Emissions coverage: route-based approach
  - Offsetting requirements and offsetting reduction options
  - New entrants
  - Technical exemptions
  - Review mechanism

- CORSIA Technical features:
  - Monitoring, Reporting and Verification
  - Emissions Unit Criteria
  - Use of CORSIA Eligible Fuels to Reduce Obligations

- CORSIA leverages of the marketplace
  - Carbon Markets
  - Fuels Industry
  - Industry Support and Engagement
  - Special circumstances and respective capabilities of States

1. **Adoption of Annex 16, Volume IV, and Environmental Technical Manual, Volume IV**

2. **Progress on CORSIA Implementation Elements**

   - **ICAO CORSIA CO_2 Estimation and Reporting Tool (CERT)**
   - **CORSIA Central Registry (CCR)**
   - **CORSIA Eligible Emissions Units**
   - **CORSIA Eligible Fuels**

3. **CORSIA Outreach and Capacity Building**

   - **ICAO Regional/HQ Seminars**
   - **Outreach Materials (Videos, Brochure/Leaflets, FAQs, etc)**
   - **ACT-CORSIA Buddy Partnerships**

www.icao.int/corsia

ACT ≫ CORSIA Phase I — Assistance, Capacity-building and Training on CORSIA

AUSTRALIA
1. BRUNEI DARUSSALAM
2. INDONESIA
3. NAURU
4. PAPUA NEW GUINEA
5. SRI LANKA
6. THAILAND

CANADA / FRANCE
1. BURKINA FASO
2. CAMEROON
3. CHAD
4. COMOROS
5. CONGO
6. COTE D'IVOIRE
7. D. R. OF CONGO
8. DJIBOUTI
9. GABON
10. HAITI
11. MADAGASCAR
12. MALI
13. MAURITANIA
14. MAURITIUS
15. NIGER
16. SENEGAL
17. TOGO

CANADA / FRANCE / SPAIN
1. ALGERIA
2. EGYPT
3. IRAQ
4. JORDAN
5. MOROCCO
6. SAUDI ARABIA
7. TUNISIA

GERMANY
1. JAMAICA
2. TAJIKISTAN
3. TRINIDAD & TOBAGO

GERMANY / ECAC
1. ALBANIA
2. ARMENIA
3. AZERBAIJAN
4. REPUBLIC OF MOLDOVA
5. SERBIA
6. NORTH MACEDONIA
7. TURKEY

ITALY
1. ANTIGUA AND BARBUDA
2. BAHAMAS
3. ERITREA
4. ETHIOPIA
5. GUYANA
6. SOMALIA
7. SURINAME
8. UNITED REPUBLIC OF TANZANIA

ITALY & BRAZIL
1. ANGOLA
2. CABO VERDE
3. COLOMBIA
4. MOZAMBIQUE
5. PARAGUAY
6. SAO TOME AND PRINCIPE

JAPAN
1. AFGHANISTAN
2. BANGLADESH
3. BHUTAN
4. CAMBODIA
5. MALAYSIA
6. MYANMAR

KENYA
1. RWANDA
2. SEYCHELLES
3. SOUTH SUDAN
4. UGANDA

MEXICO / SPAIN / USA
1. BELIZE
2. COSTA RICA
3. EL SALVADOR
4. GUATEMALA
5. HONDURAS
6. NICARAGUA

NEW ZEALAND
1. FIJI
2. SAMOA
3. SOLOMON ISLANDS
4. VANUATU

NIGERIA
1. GAMBIA
2. GHANA
3. LIBERIA
4. SIERRA LEONE
5. SUDAN

REPUBLIC OF KOREA
1. LAO PEOPLE'S D. R.
2. MONGOLIA
3. PAKISTAN
4. PHILIPPINES
5. VIETNAM

SOUTH AFRICA
1. BOTSWANA
2. LESOTHO
3. MALAWI
4. NAMIBIA
5. ZAMBIA
6. ZIMBABWE

SPAIN
1. BOLIVIA
2. CUBA
3. PERU
4. URUGUAY

USA
1. ARGENTINA
2. DOMINICAN REPUBLIC
3. ECUADOR
4. PANAMA

15 DONOR STATES
98 RECIPIENT STATES

- Donor States provide assistance to recipient States to build their national capacity to implement CORSIA

- Assistance in the form of donor States offering expert(s) on CORSIA to provide individual training and necessary follow-up with the CORSIA focal points of the recipient States, in close coordination with the ICAO Secretariat

- Involving 15 donor States and 98 recipient States (as of June 2019)

Cameroon

30 Oct-1 Nov 2018

- Cameroon
- Chad
- Gabon

Togo
5-7 Nov 2018
- Burkina Faso
- Cote d'Ivoire
- Mali
- Niger
- Senegal
- Togo

La Reunion

19-20 Nov 2018

- Comoros
- Madagascar
- Mauritius

Morocco*
6-8 Dec 2018
- Iraq
- Morocco
- Saudi Arabia

*Collaboration with France, Spain & ACAO

- Plan is to continue Canada-France collaboration

- Priority to States not yet trained, but partnership established

- Focus of Phase 2: Emissions Reporting and Verification

CORSIA
EMISSIONS REPORT (ER)

CONTENTS

1 Aeroplane operator identification and description of activities
2 Underlying basic information of the Emissions Report
3 Aeroplane fleet and fuel types
4 Fuel density
5. Reporting
5.1 Reporting - State pairs
5.2 Reporting - Aerodrome pairs
6 Data gaps

Template Information

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Note: For the purpose of this template, international flight is defined as in Annex 16, Volume IV, Part II, Chapter 1, 1.1.2, and Chapter 2, 2.1.

CORSIA
Verification Report Template (VRT)

CONTENTS
SCOPE OF VERIFICATION REPORT
IDENTIFICATION
TIME ALLOCATION AND SCOPE OF THE VERIFICATION
GENERAL INFORMATION
PROCESS AND ANALYSIS
CONCLUSIONS
CONCLUDING VERIFICATION STATEMENT

Template Information

Template provided by:	
Version (publication date):	