



Carbon Offsetting and Reduction  
Scheme for International Aviation

ICAO CORSIA Forum – DAY 1 - Session 1

# CORSIA introduction and overview: CORSIA MRV implementation experiences and challenges in Spain & ACT-CORSIA Activities

Raul Martin & Juan Hermira



- CORSIA implementation in Spain
  - CORSIA legislative process
  - MRV implementation
  - Overcoming challenges
- Spain in ACT-CORSIA activities
  - MRV implementation (mainly LATAM)
  - CORSIA legislative process: different approaches
  - Lessons learned and overcoming challenges
  - More capacity-building needs

- CORSIA legislative process
  - Commission Delegated Regulation 2019/1603 of 18 July 2019
  - Proposal for a Directive of the European Parliament and of the Council amending Directive 2003/87/EC as regards aviation's contribution to the Union's economy-wide emission reduction target and appropriately implementing a global market-based measure (Fit for 55).
- MRV implementation
  - The same monitoring rules apply for the monitoring of CORSIA flights as apply for the EU-ETS (different scope)
  - New templates for both schemes
  - Some figures from CORSIA in Spain
    - 14 AOs in 2019-2020
    - 2 verifiers

- Overcoming challenges
  - Differences between application of CORSIA and ETS (for example emissions factor, estimation tools, fuel use monitoring method, etc.)
  - AOs and Verifiers level: CORSIA and ETS are not the same
  - High turnover of environmental teams in AOs
  - COVID-19

# Spain in ACT-CORSIA activities

- Spain in all ACT-CORSIA Phases

**ACT » CORSIA<sup>Phase I</sup>** Assistance, Capacity-building and Training on CORSIA

<b>AUSTRALIA</b> 1. BRUNEI DARUSSALAM 2. INDONESIA 3. NAURU 4. PAPAIA NEW GUINEA 5. SRI LANKA 6. THAILAND	<b>JAPAN</b> 1. AFGHANISTAN 2. BANGLADESH 3. BHUTAN 4. CAMBODIA 5. MALAYSIA 6. MYANMAR
<b>CANADA / FRANCE</b> 1. BURKINA FASO 2. CAMERODN 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	<b>KENYA</b> 1. RWANDA 2. SEYCHELLES 3. SOUTH SUDAN 4. UGANDA
<b>CANADA / FRANCE / SPAIN</b> 1. ALGERIA * 2. EGYPT 3. IRAQ 4. JORDAN 5. MOROCCO * 6. SAUDI ARABIA * 7. TUNISIA *	<b>MEXICO / SPAIN / USA</b> 1. BELIZE 2. COSTA RICA 3. EL SALVADOR 4. GUATEMALA 5. HONDURAS 6. NICARAGUA
<b>GERMANY</b> 1. JAMAICA 2. TAJIKISTAN 3. TRINIDAD & TOBAGO	<b>NEW ZEALAND</b> 1. FIJI 2. SAMOA 3. SOLOMON ISLANDS 4. VANUATU
<b>GERMANY / ECAC</b> 1. ALBANIA 2. ARMENIA 3. AZERBAIJAN 4. REPUBLIC OF MOLDOVA 5. SERBIA 6. NORTH MACEDONIA 7. TURKEY	<b>NIGERIA</b> 1. GAMBIA 2. GHANA 3. SIERRA LEONE 4. SUDAN 5. LIBERIA 6. SIERRA LEONE
<b>ITALY</b> 1. ANTIGUA AND BARBUDA 2. BAHAMAS 3. ERITREA 4. ETHIOPIA 5. GUYANA 6. SOMALIA 7. SURINAME 8. UNITED REPUBLIC OF TANZANIA	<b>REPUBLIC OF KOREA</b> 1. LAO PEOPLE'S D. R. 2. MONGOLIA 3. PAKISTAN 4. PHILIPPINES 5. VIETNAM
<b>ITALY &amp; BRAZIL</b> 1. ANGOLA 2. CABO VERDE 3. COLOMBIA 4. MOZAMBIQUE 5. PARAGUAY 6. SAO TOME AND PRINCIPE	<b>SOUTH AFRICA</b> 1. BOTSWANA 2. LESOTHO 3. MALAWI 4. NAMIBIA 5. ZAMBIA 6. ZIMBABWE
	<b>SPAIN</b> 1. BOLIVIA 2. CUBA 3. PERU 4. URUGUAY
	<b>15 DONOR STATES</b> <b>98 RECIPIENT STATES</b>

**ACT » CORSIA<sup>Phase II</sup>** Assistance, Capacity-building and Training on CORSIA

<b>AUSTRALIA</b> 1. BRUNEI DARUSSALAM 2. INDONESIA 3. NAURU 4. PAPAIA NEW GUINEA 5. SRI LANKA 6. THAILAND	<b>KENYA</b> 1. RWANDA 2. SEYCHELLES 3. SOUTH SUDAN 4. UGANDA
<b>BRAZIL</b> 1. ANGOLA 2. CABO VERDE 3. MOZAMBIQUE 4. SAO TOME AND PRINCIPE	<b>NEW ZEALAND</b> 1. FIJI 2. SAMOA 3. SOLOMON ISLANDS 4. VANUATU
<b>CANADA (Facilitated by CASSOS)</b> 1. ANTIGUA AND BARBUDA 2. BARBADOS 3. GUYANA 4. HAITI 5. JAMAICA 6. SURINAME 7. TRINIDAD AND TOBAGO	<b>NIGERIA</b> 1. GAMBIA 2. GHANA 3. SIERRA LEONE 4. SUDAN 5. LIBERIA 6. SIERRA LEONE
<b>CANADA / FRANCE</b> 1. BENIN 2. BURKINA FASO 3. BURUNDI 4. CAMERODN 5. CENTRAL AFRICAN REPUBLIC 6. CHAD 7. COMOROS 8. CONGO 9. D. R. OF CONGO 10. GABON 11. GUINEA 12. MADAGASCAR 13. MALI 14. MAURITIUS 15. NIGER 16. SENEGAL 17. TOGO	<b>REPUBLIC OF KOREA</b> 1. LAO PEOPLE'S D. R. 2. MONGOLIA 3. PAKISTAN 4. PHILIPPINES 5. VIETNAM
<b>FRANCE (* Facilitated by ACAO)</b> 1. ALGERIA * 2. EGYPT 3. IRAQ 4. JORDAN 5. MOROCCO * 6. SAUDI ARABIA * 7. TUNISIA *	<b>QATAR</b> 1. SAUDI ARABIA * 2. ESWATINI 3. LESOTHO 4. MALAWI 5. NAMIBIA 6. ZAMBIA 7. ZIMBABWE
<b>GERMANY</b> 1. ALBANIA 2. ARMENIA 3. AZERBAIJAN 4. BELARUS 5. GEORGIA 6. KAZAKHSTAN 7. NORTH MACEDONIA 8. REPUBLIC OF MOLDOVA 9. SERBIA 10. TAJIKISTAN 11. TURKMENISTAN	<b>SINGAPORE</b> 1. COOK ISLANDS 2. KIRIBATI 3. MARSHALL ISLANDS 4. PALAU 5. TONGA 6. TUVALU
<b>GERMANY / ECAC</b> 1. ALBANIA 2. ARMENIA 3. AZERBAIJAN 4. BELARUS 5. GEORGIA 6. KAZAKHSTAN 7. NORTH MACEDONIA 8. REPUBLIC OF MOLDOVA 9. SERBIA 10. TAJIKISTAN 11. TURKMENISTAN	<b>SOUTH AFRICA</b> 1. BOTSWANA 2. ESWATINI 3. LESOTHO 4. MALAWI 5. NAMIBIA 6. ZAMBIA 7. ZIMBABWE
<b>ITALY</b> 1. BAHAMAS 2. COLOMBIA 3. ERITREA 4. ETHIOPIA 5. PARAGUAY 6. SOMALIA 7. UNITED REPUBLIC OF TANZANIA	<b>SPAIN (Facilitated by COCESMA)</b> 1. BELIZE * 2. BOLIVIA 3. COSTA RICA * 4. CUBA 5. EL SALVADOR * 6. GUATEMALA * 7. HONDURAS * 8. NICARAGUA * 9. PERU 10. URUGUAY
<b>ITALY &amp; BRAZIL</b> 1. ANGOLA 2. CABO VERDE 3. COLOMBIA 4. MOZAMBIQUE 5. PARAGUAY 6. SAO TOME AND PRINCIPE	<b>16 DONOR STATES</b> <b>114 RECIPIENT STATES</b>

**ACT » CORSIA<sup>Phase III</sup>** Assistance, Capacity-building and Training on CORSIA

<b>AUSTRALIA</b> 1. BRUNEI DARUSSALAM 2. INDONESIA 3. NAURU 4. PAPAIA NEW GUINEA 5. SRI LANKA 6. THAILAND	<b>KENYA</b> 1. RWANDA 2. SEYCHELLES 3. SOUTH SUDAN 4. UGANDA
<b>BRAZIL</b> 1. ANGOLA 2. CABO VERDE 3. MOZAMBIQUE 4. SAO TOME AND PRINCIPE	<b>NEW ZEALAND</b> 1. FIJI 2. SAMOA 3. SOLOMON ISLANDS 4. VANUATU
<b>CANADA (Facilitated by CASSOS)</b> 1. ANTIGUA AND BARBUDA 2. BARBADOS 3. GUYANA 4. HAITI 5. JAMAICA 6. SURINAME 7. TRINIDAD AND TOBAGO	<b>NIGERIA</b> 1. GAMBIA 2. GHANA 3. SIERRA LEONE 4. SUDAN 5. LIBERIA 6. SIERRA LEONE
<b>CANADA / FRANCE</b> 1. BENIN 2. BURKINA FASO 3. BURUNDI 4. CAMERODN 5. CENTRAL AFRICAN REPUBLIC 6. CHAD 7. COMOROS 8. CONGO 9. DJIBOUTI 10. D. R. OF CONGO 11. GABON 12. GUINEA 13. MADAGASCAR 14. MALI 15. MAURITANIA 16. MAURITIUS 17. NIGER 18. SENEGAL 19. TOGO	<b>REPUBLIC OF KOREA</b> 1. LAO PEOPLE'S D. R. 2. MONGOLIA 3. PAKISTAN 4. PHILIPPINES 5. VIETNAM
<b>FRANCE (* Facilitated by ACAO)</b> 1. ALGERIA * 2. EGYPT 3. IRAQ 4. JORDAN 5. MOROCCO * 6. SAUDI ARABIA * 7. TUNISIA *	<b>QATAR</b> 1. SAUDI ARABIA * 2. ESWATINI 3. LESOTHO 4. MALAWI 5. NAMIBIA 6. ZAMBIA 7. ZIMBABWE
<b>GERMANY</b> 1. ALBANIA 2. ARMENIA 3. AZERBAIJAN 4. BELARUS 5. GEORGIA 6. KAZAKHSTAN 7. NORTH MACEDONIA 8. REPUBLIC OF MOLDOVA 9. SERBIA 10. TAJIKISTAN 11. TURKMENISTAN	<b>SINGAPORE</b> 1. COOK ISLANDS 2. KIRIBATI 3. MARSHALL ISLANDS 4. PALAU 5. TONGA 6. TUVALU
<b>GERMANY / ECAC</b> 1. ALBANIA 2. ARMENIA 3. AZERBAIJAN 4. BELARUS 5. GEORGIA 6. KAZAKHSTAN 7. NORTH MACEDONIA 8. REPUBLIC OF MOLDOVA 9. SERBIA 10. TAJIKISTAN 11. TURKMENISTAN	<b>SOUTH AFRICA</b> 1. BOTSWANA 2. ESWATINI 3. LESOTHO 4. MALAWI 5. NAMIBIA 6. ZAMBIA 7. ZIMBABWE
<b>ITALY</b> 1. BAHAMAS 2. COLOMBIA 3. ERITREA 4. ETHIOPIA 5. PARAGUAY 6. SOMALIA 7. UNITED REPUBLIC OF TANZANIA	<b>SPAIN (* Facilitated by COCESMA)</b> 1. BELIZE * 2. BOLIVIA 3. COSTA RICA * 4. CUBA 5. EL SALVADOR * 6. GUATEMALA * 7. HONDURAS * 8. NICARAGUA * 9. PERU 10. URUGUAY
<b>ITALY &amp; BRAZIL</b> 1. ANGOLA 2. CABO VERDE 3. COLOMBIA 4. MOZAMBIQUE 5. PARAGUAY 6. SAO TOME AND PRINCIPE	<b>16 SUPPORTING STATES</b> <b>118 REQUESTING STATES</b>

- MRV implementation (mainly LATAM)
  - Evolution form ACT-CORSIA phase I, II and III
  - Phase I: activities in collaboration with CANADA and USA
  - Phase I and II mainly in LATAM countries in collaboration with COCESNA

- CORSIA legislative process
  - Different approaches
    - Legal Framework within Aeronautical Authority
    - Environmental legal framework
  - Use of ICAO template for legal framework
  - Only MRV in legal framework at the moment

- Lessons learned
  - The importance of training in the native language
  - The key of monitoring and continuing activities in time
  - Integrate training activities into the ICAO reporting calendar
  - Some countries join CORSIA voluntary phase Belize & Uruguay

- Overcoming challenges
  - Continuing activities in the time
  - Changes in CFP
  - COVID-19 (training all in remote is challenging)

- More capacity-building needs
  - The importance of continuing activities in the time
  - New training for CORSIA Pilot phase (2021-2023)
    - CERT new versions
    - CORSIA Eligible Fuels
    - CORSIA Eligible Emissions Units



ICAO

North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU