



Introduction (Part 2)

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- ✔ a) Objectives of the Seminar
- ✔ b) 39th ICAO Assembly and CORSIA
- ✔ c) Overview of the 2017 ICAO Regional Seminars on CORSIA
- d) ICAO States' Action Plans Initiative
- e) Overview of the CORSIA

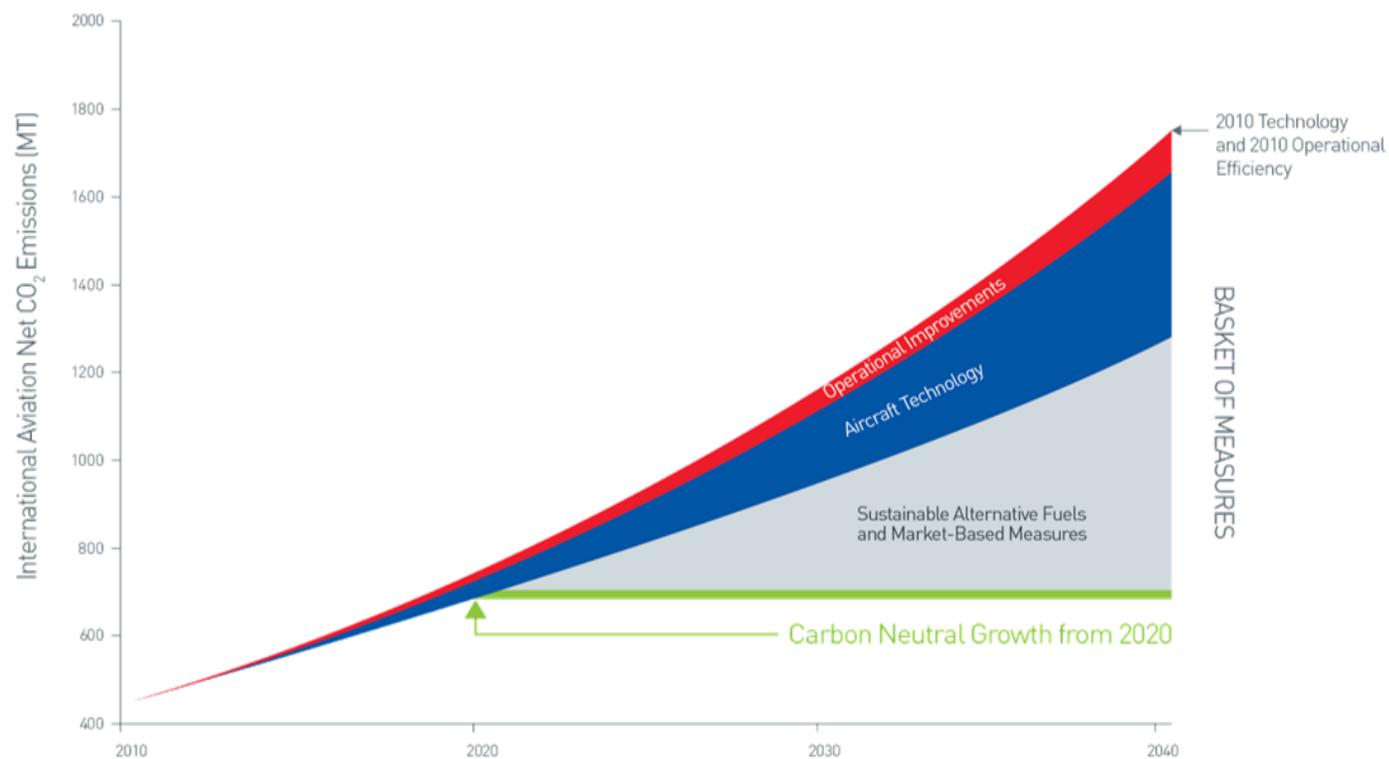
- For States

- Opportunity to identify measures that will improve fuel efficiency and reduce emissions

- For ICAO

- Assess future progress toward the achievement of ICAO global aspirational goals

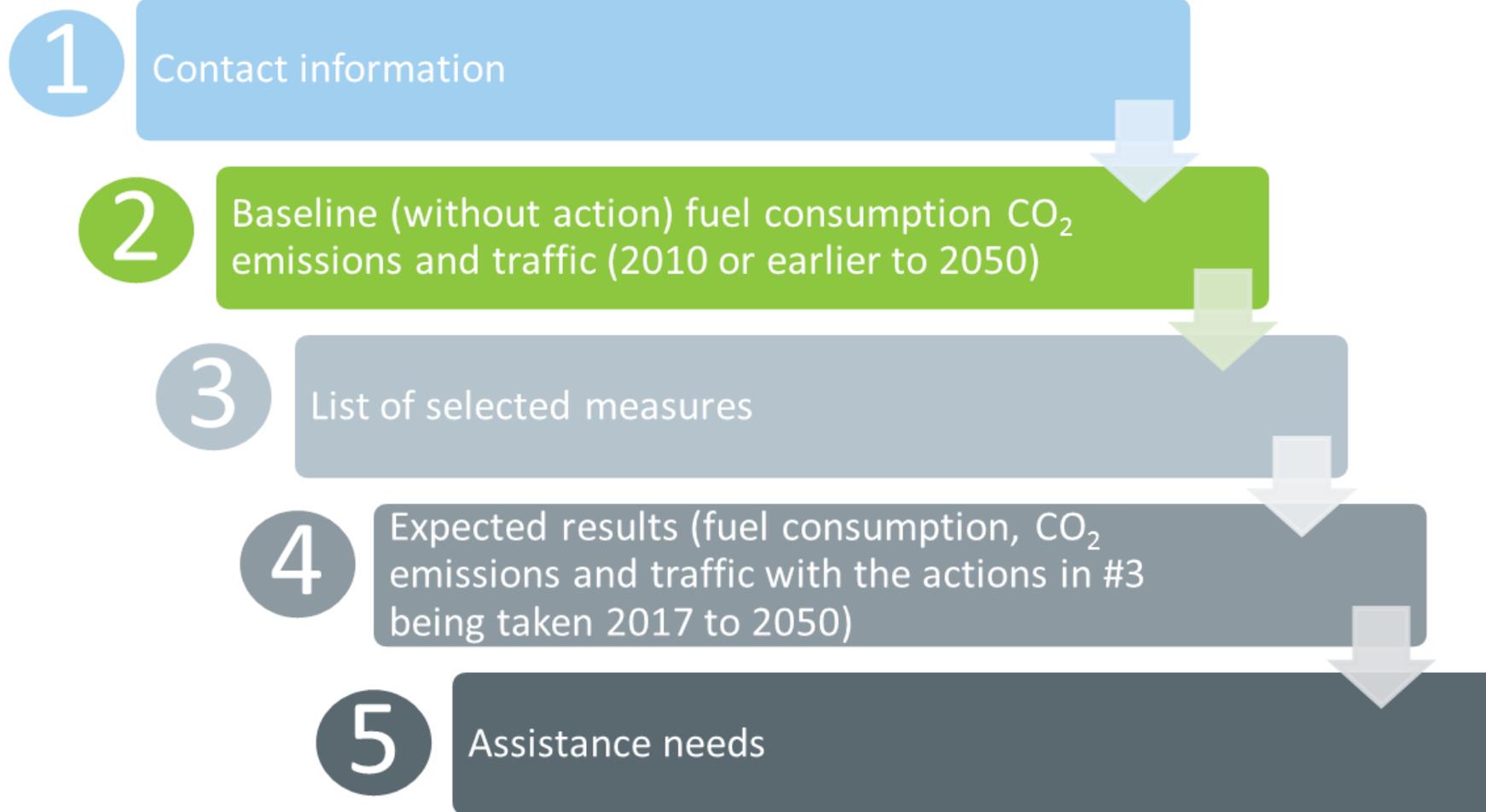
Contribution of Measures for Reducing International Aviation Net CO₂ Emissions



No Country should be Left Behind

Cooperation and coordination between all stakeholders that can reflect on State's Action Plans to reduce aviation CO₂ emissions

- The group provides an opportunity to bring multiple stakeholders around the table
 - Opens and maintains the communications channels between multiple players in governments, aviation industry, etc.
 - Facilitate decision-making and data collection, while avoiding possible duplication of work



ICAO's State Action Plan Initiative - Today



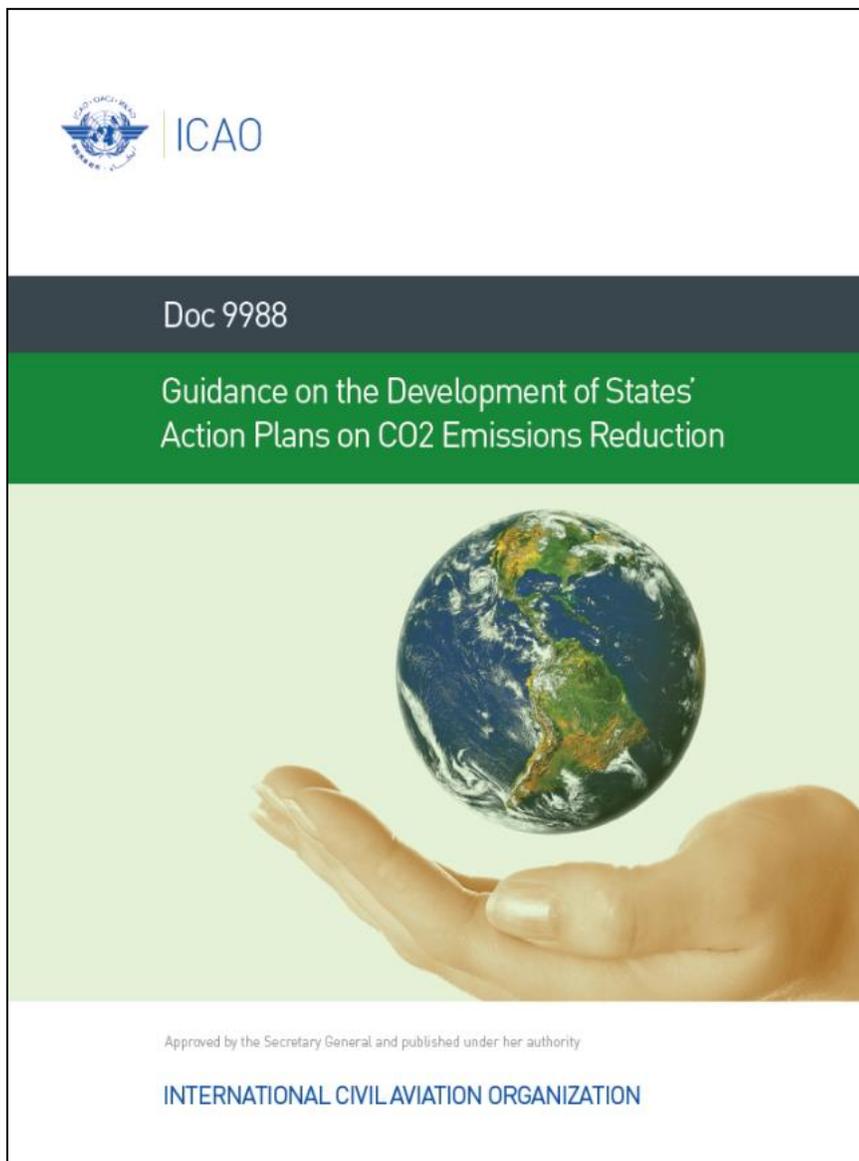
103 States representing **90.1%** of international RTK (2015) have submitted an action plan to ICAO.

More than **400** direct contacts with States established

More than **700** experts from **116** States trained

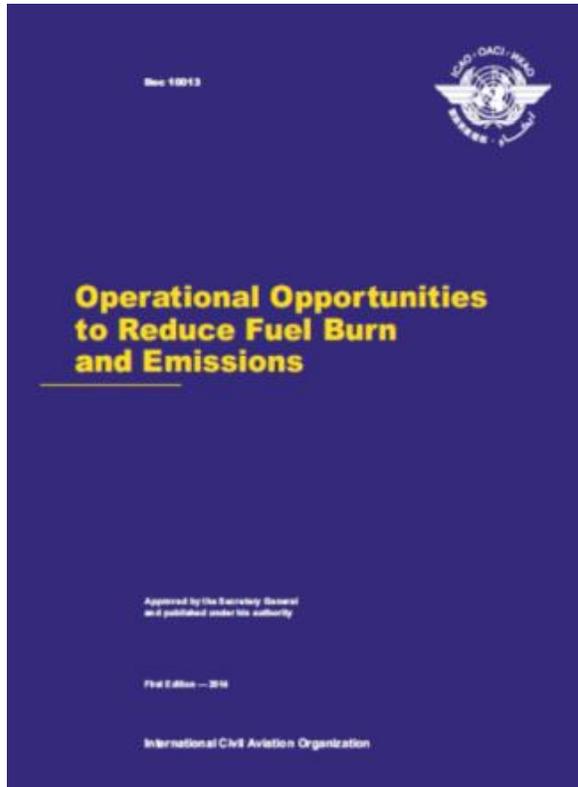
3 ICAO Buddy Partnerships

2 joint assistance projects



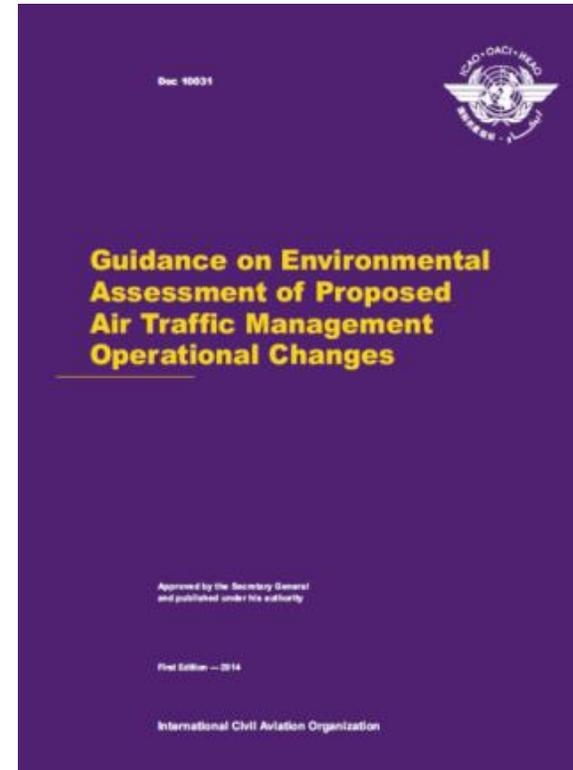
Describes what an Action Plan should include and a step-by-step guide on how to develop it

- Overview and introduction
- Baseline calculation
- Mitigation measures and expected results
- Implementation and assistance
- Appendices with examples and detailed information



ICAO Doc 10013

Operational opportunities to reduce fuel burn and emissions (operations, ATM, airports, etc.)



ICAO Doc 10031

Guidance on assessment of environmental effects from ATM operational changes

Public ICAO Environmental Tools:



ICAO Carbon Emissions Calculator

Allows passengers/cargo to estimate CO₂ emissions from air travel



ICAO Fuel Savings Estimation Tool (IFSET)

Assists States in estimating fuel savings from operational improvements



ICAO Green Meetings Calculator

Supports decision making in minimizing CO₂ emissions from air travel to attend meetings

Additional tools to facilitate the preparation of State's Action Plans:

- *ICAO Environmental Benefit Tool*
Helps States to develop their Action Plan (Baseline, Mitigation Measures, Expected Results)
- *ICAO Aviation Environmental System (AES)*
Allows CAAs to monitor CO₂ emissions from international aviation at State level

Synergies between States' Action Plans and CORSIA

- State Action Plans provide a big picture
- Progress in all elements of a basket of mitigation measures should be reflected in State Action Plans (Resolution A39-3 paragraphs 6 and 7)
- State Action Plans containing a robust data collection, monitoring and reporting mechanism provide a good basis, from which the CORSIA MRV can be derived
- State Action Plans can reflect the results of CO₂ emissions offsetting under CORSIA by participating States
- Very important to have compatible tools for use under CORSIA and State Action Plans

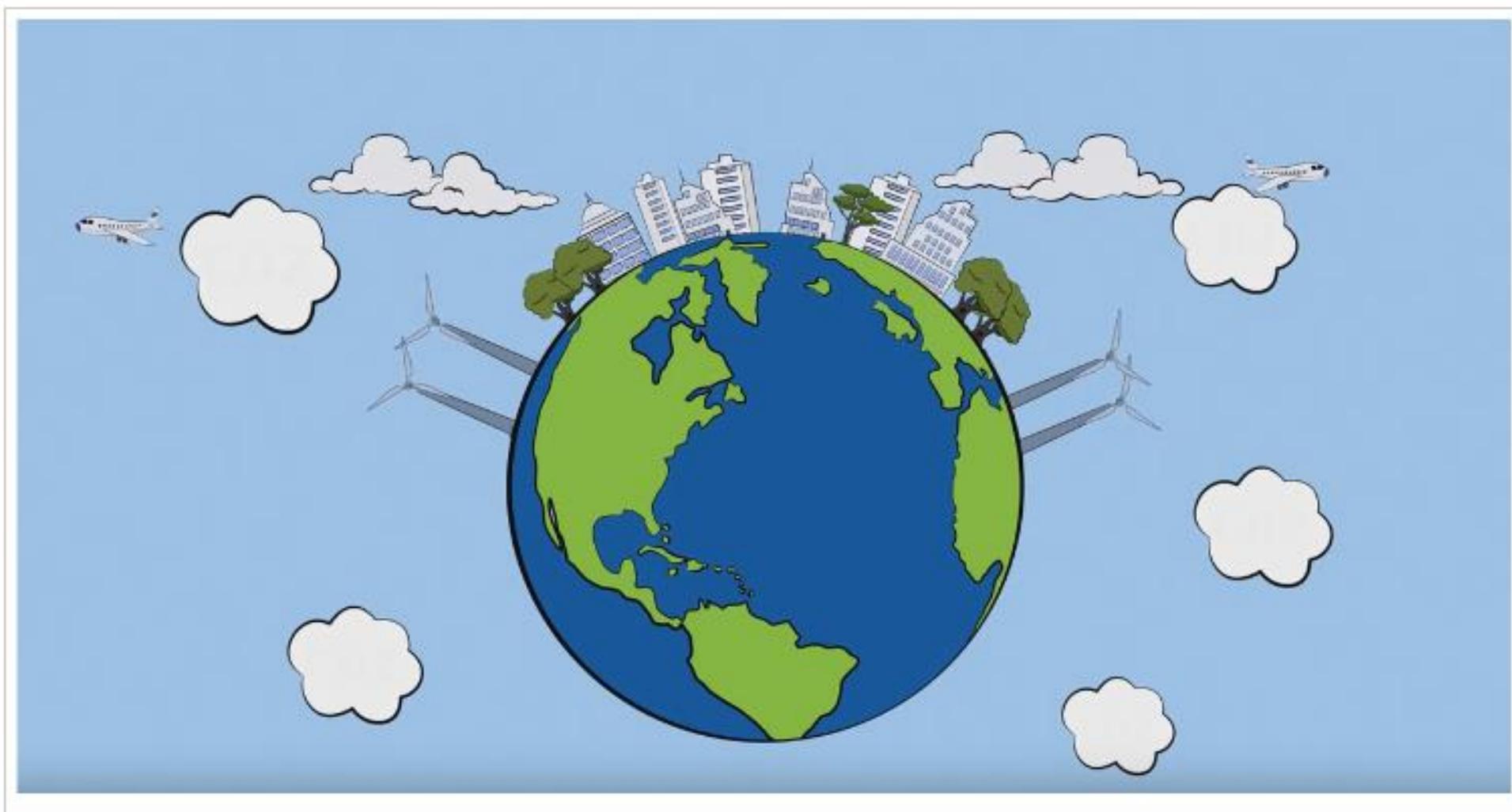
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- CORSIA is the **first global MBM scheme** for any industry sector
- CORSIA is **one element in the basket of measures** to achieve ICAO's global aspirational goal of carbon neutral growth from 2020 (CNG 2020)
- CORSIA is a **complementary measure** to a broader package in the basket of measures – **preference is for non-MBM measures** to reduce aviation emissions (i.e. through aircraft technology, operational improvements, sustainable alternative fuels)
- CORSIA is one of the measures **to be included in States' Action Plans** – all elements in the basket should be progressed

Introduction to CORSIA



<http://www.icao.int/environmental-protection/Pages/market-based-measures.aspx>

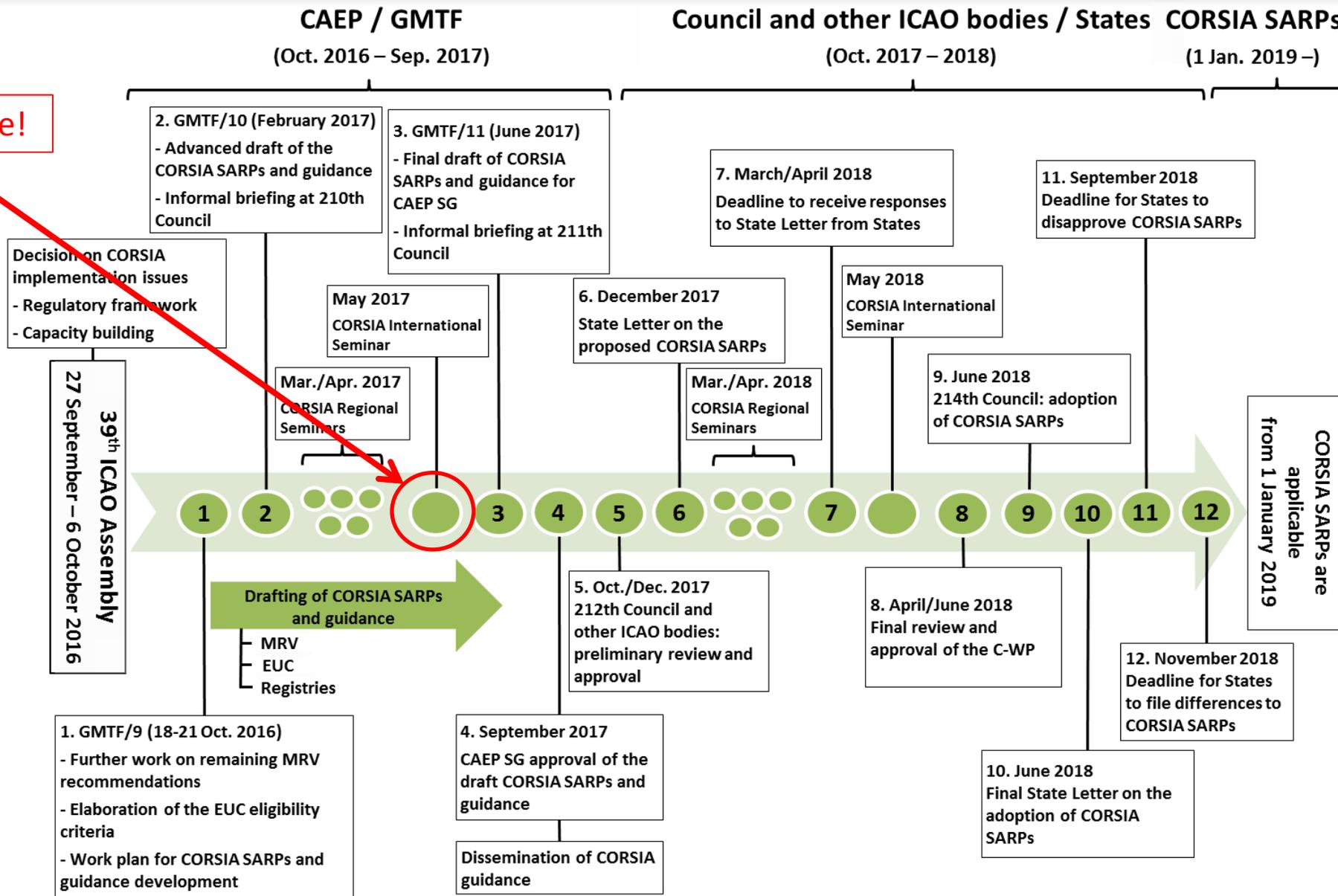


- Standards and Recommended Practices (SARPs) and guidance
 - Monitoring, Reporting and Verification (MRV) system
 - Emissions Unit Criteria (EUC)
 - Registry Architecture for CORSIA
- Capacity Building
 - ICAO and Member States are to take all necessary actions in providing the capacity building and assistance and building partnerships for CORSIA implementation
 - Capacity building includes seminars/training, and support for the development of national regulatory framework and the establishment of necessary infrastructure (e.g. IT hardware/ software)



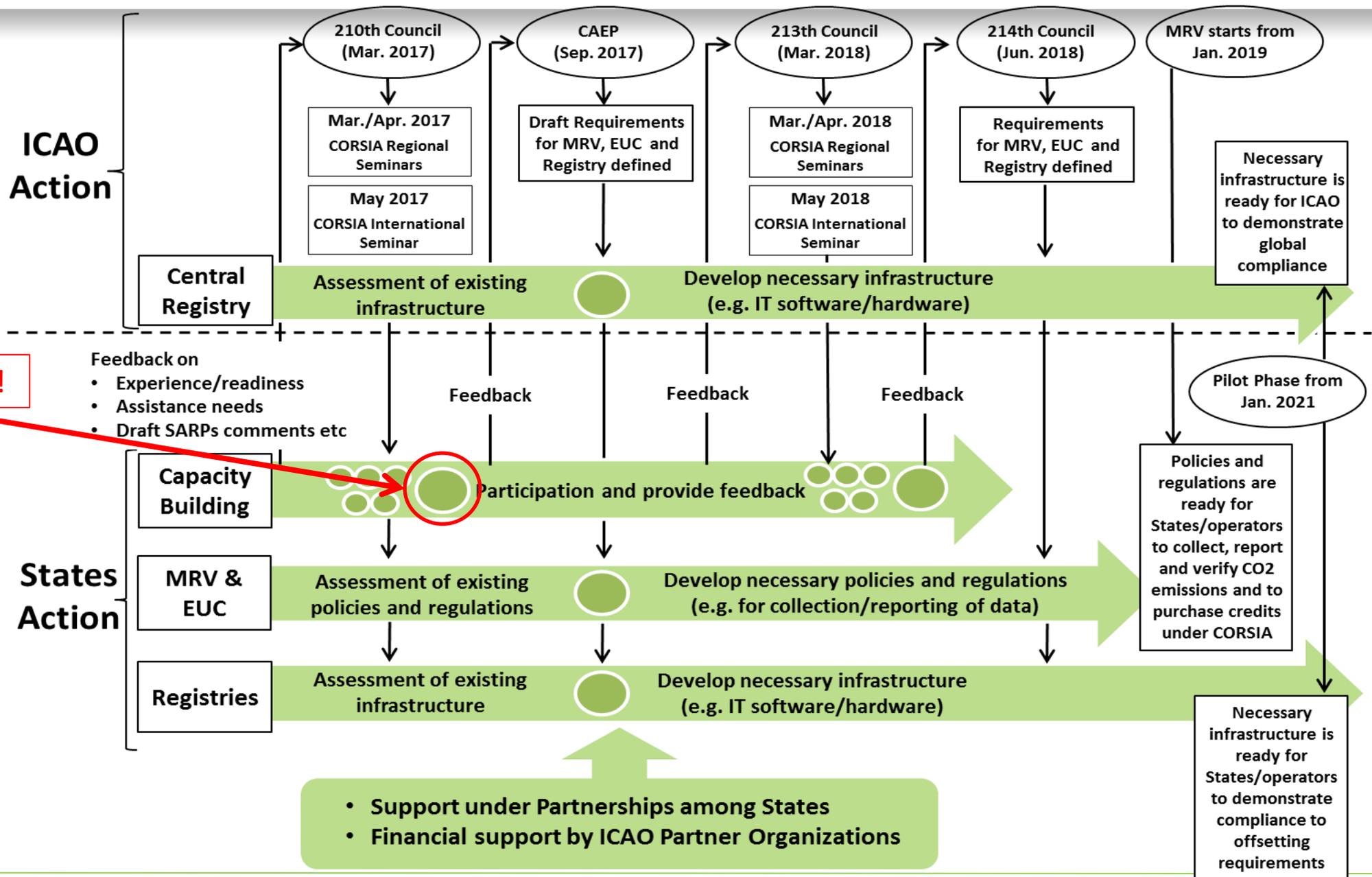
CORSIA SARP and Guidance Development Timeline

We are here!





CORSIA Capacity Building and Assistance Timeline



We are here!

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THANK YOU

More information on the CORSIA:

- ICAO web site <http://www.icao.int/env>
 - CORSIA Video
 - CORSIA FAQs
 - CORSIA voluntary participation
 - Environment Report 2016

