



The 10th Anniversary of the ICAO State Action Plan on CO₂ Emissions Reduction

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UAE SAP – Lesson Learned

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ICAO MID





UAE SAP First Edition 2012

Contents:

- Context of the UAE's
 - The UAE's commitment to stabilize climate change
 - The UAE's aviation sector
- Context of the UAE's aviation sector
 - Importance of aviation to the UAE economy
 - Growth prospects
 - Investments in aircraft and airports
 - Dependence on global and regional cooperation to improve the management of airspace.
 - The UAE's commitments to sustainability





UAE SAP First Edition 2012

Actions – Basket of Measures:

- Aircraft-Related Technology Development
- Alternative Fuels (currently SAF and LCAF)
- Improved air traffic management and infrastructure use
 - More efficient ATM planning, ground operations, terminal operations (departure, approach and arrivals), en-route operations, airspace design and usage, aircraft capabilities
 - The UAE ATM Strategic Plan 2012 – 2030 (13 strategic objectives)
 - Global and Regional cooperation.
 - Terminal operations (SZC)
 - More efficient use and planning of airport capacities.
- More Efficient Operations
 - Fuel Management
- Economic / Market-Based Measures



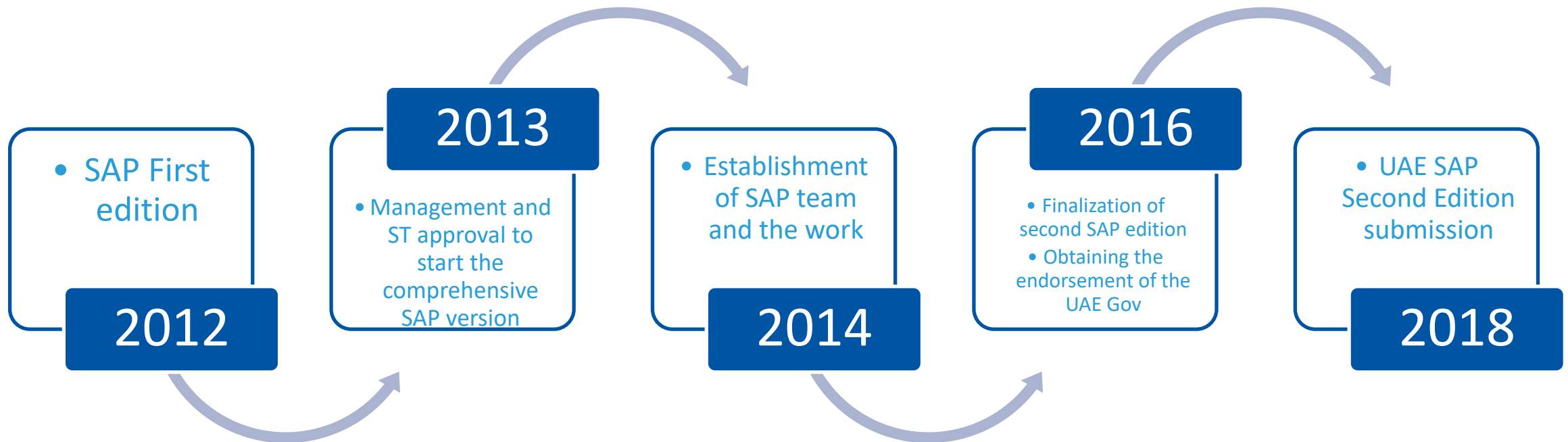


Challenges UAE SAP First edition

- Data Availability and accessibility
- Data sensitivity and confidentiality
- Multiple stakeholder and active engagements.
- Some improvements couldn't be quantified or estimated at this stage due to data constraints.



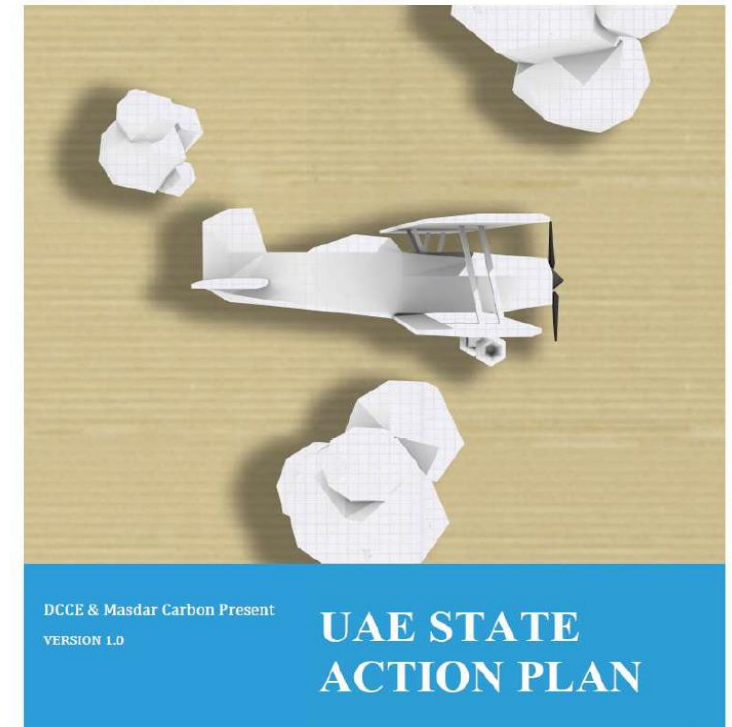
UAE SAP First Edition to Second Edition





UAE SAP Second edition

- During the development of First UAE SAP, the UAE aviation Stakeholders were heavily engaged to facilitate access to data and information required for the fulfillment of the various activities under the UAE SAP such as the creation of the baseline, basket of measure's identification and quantification of emission reduction.
- UAE reaffirms its commitment to sustainable development of its aviation sector and to the global approach to mitigate aviation's impacts on climate change.



GCAA
UAE STATE ACTION PLAN
Version of 2016
Endorsed in 2018

Page 1



SCOPE OF THE UAE'S STATE ACTION PLAN

- In line with the UAE's vision for green economy and sustainable development, GCAA has assigned the consultant to start the activities of the UAE SAP project. The SAP project aimed to provide a study of the UAE's aviation sector activities, contribution to the economy and environmental impact that will be the basis for the various UAE Government entities responsible for environment protection and climate change and later on for the final SAP to be submitted to ICAO.

UAE'S BASELINE, SCENARIOS AND CONTRIBUTION TO ICAO'S GOALS

- Considering growth forecasts for UAE based carriers, the emissions associated with international aviation are expected to Double in 2020 compered to 2012.



UAE SAP Second Edition 2018

Contents:

- **CURRENT STATE OF THE UAE AVIATION SECTOR**
 - THE UNITED ARAB EMIRATES (UAE) AND AVIATION
 - UAE'S HIGH CONNECTIVITY
 - AVIATION CONTRIBUTION TO UAE'S GROSS DOMESTIC PRODUCT (GDP)
- **UAE'S BASELINE AND EXPECTED RESULTS**
 - METHODOLOGY
 - UAE INTERNATIONAL AVIATION CARBON FOOTPRINT
 - UAE'S AVIATION BAU BASELINE
- **EMISSION REDUCTION BASKET OF MEASURES**





UAE SAP Second Edition 2018

Actions – Basket of Measures:

- **EMISSION REDUCTION BASKET OF MEASURES**
 - AIRCRAFT RELATED TECHNOLOGY DEVELOPMENT
 - ALTERNATIVE FUELS
 - IMPROVED AIR TRAFFIC MANAGEMENT AND INFRASTRUCTURE USE
 - IMPROVED AIR TRAFFIC MANAGEMENT(ATM)
 - AIR SPACE OPTIMIZATION
 - ARRIVAL AND DEPARTURE MANAGEMENT
 - INTERNATIONAL COLLABORATIONS/ PARTNERSHIPS





Challenges UAE SAP second edition

- Data Availability and accessibility
- Data sensitivity and confidentiality
- Multiple stakeholder and active engagements.
- Different data gathering methods and metrics used by each stakeholder.



CAEP 11 - 2019

By 2 November 2018, 110 Member States out of 192, representing 91.8 per cent of international aviation Revenue Tonne Kilometres (RTK) had voluntarily submitted action plans to ICAO.

An initial assessment of the Action Plans shows that:

- **46 States, representing 38.7 per cent of global RTK included quantified baseline and expected emissions;**
- 6 States, representing 7.3 per cent of global RTK provided partially quantified information; and
- 58 States, representing 45.8 per cent of global RTK did not provide data or sufficient information to allow a quantified analysis.

State	Action Plan submitted with data for analysis	Action Plan submitted with partial data, analysis based on further estimations	Action Plan without data for analysis
United Arab Emirates	X		





second Edition 2018



Third Edition 2021 *Under revision*



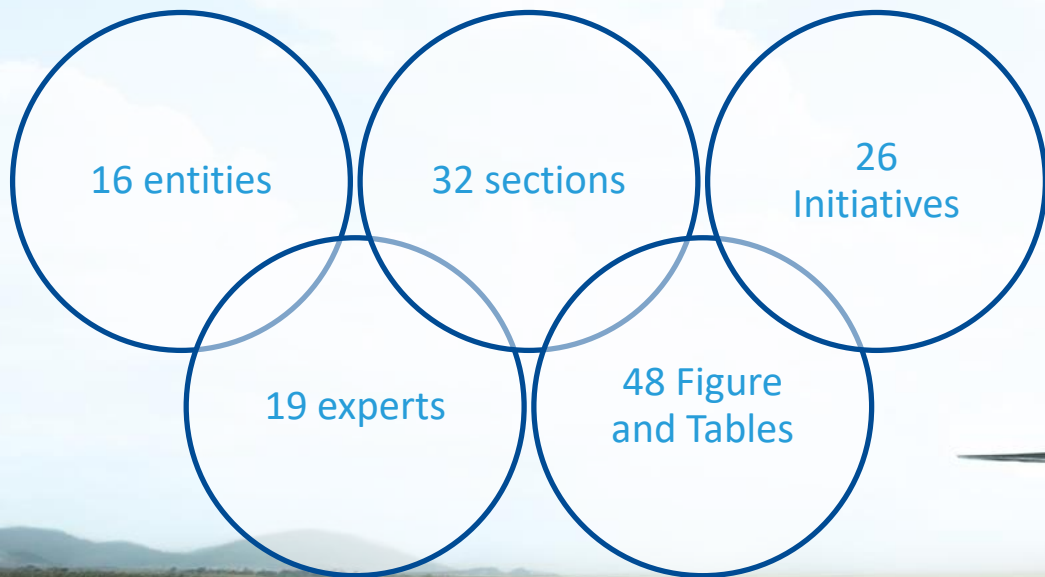


Third Edition 2021

- **Third Edition strategy:**
 - Active stakeholder engagement and enrolment of new stakeholders.
 - Creation of UAE SAP Team (with involvement of various local sectors and stakeholders)
 - Location of Data sources.
 - Direct consultation and communication with SAP team within secretariat.
 - Defined timeframe and objectives.

Third Edition 2020

Under revision



UAE SAP revision Team objectives:

1. Revised UAE State Action Plan Report.
2. Validate UAE State Action Plan Report.
3. Update UAE State Action Plan Report.



Challenges UAE SAP Third edition

- Data Availability and accessibility
- Data sensitivity and confidentiality
- Budget limitations..
- Impact of Covid 19



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