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APAC Office Webinar for the 10th Anniversary of the ICAO State Action Plan (SAP) Initiative on CO₂ Emissions Reduction

Sharing Experience:

THE STATE ACTION PLAN of THAILAND

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Head of Aviation Environment Division

The Civil Aviation Authority of Thailand

22 April 2021





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CAAT

สำนักงานการบินพลเรือนแห่งประเทศไทย
The Civil Aviation Authority of Thailand

Pasavi RATCHAPONGSIRIKUL

Head of Aviation Environment Division/ CAAT

- Thailand's State's Action Plan Focal Point
- Thailand's CORSIA Focal Point

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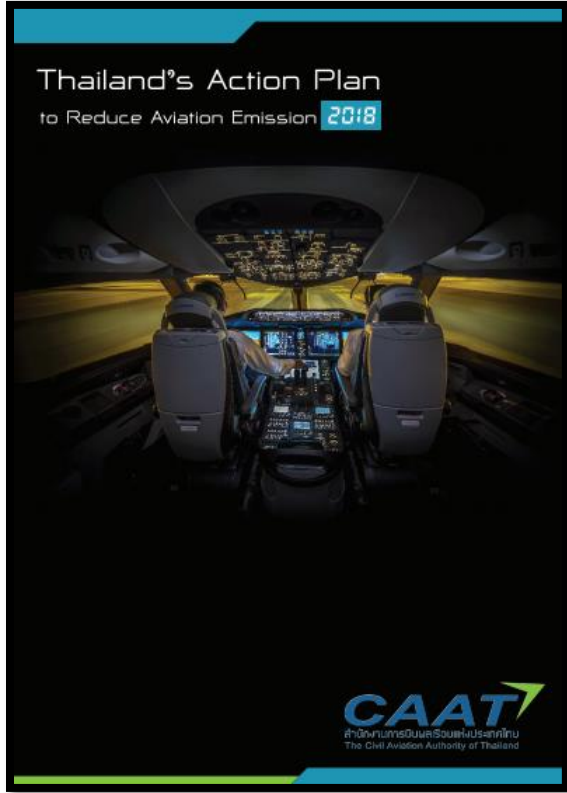




THE CURRENT VERSION

THAILAND'S ACTION PLAN

TO REDUCE AVIATION EMISSIONS



2013

2018

2021

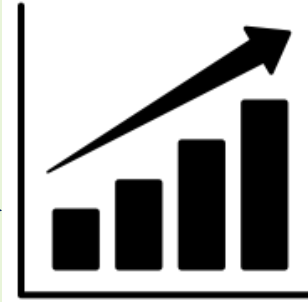


STATE ACTION PLAN (SAP)



The Completed SAP

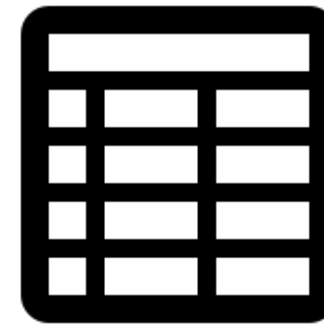
data



Emissions Statistic /
Baseline/Trend line

- Collected data
- Data generation

measure



Mitigation Measures

- Description (How to)
- Emissions reduction potential/
calculation
- Stakeholder/Responsible
person



THAILAND'S SAP



v2013

- 4 Aircraft operators
- 11 Mitigation Measures



v2018

- 11 Aircraft operators
- 11+10 Mitigation Measures



v2021

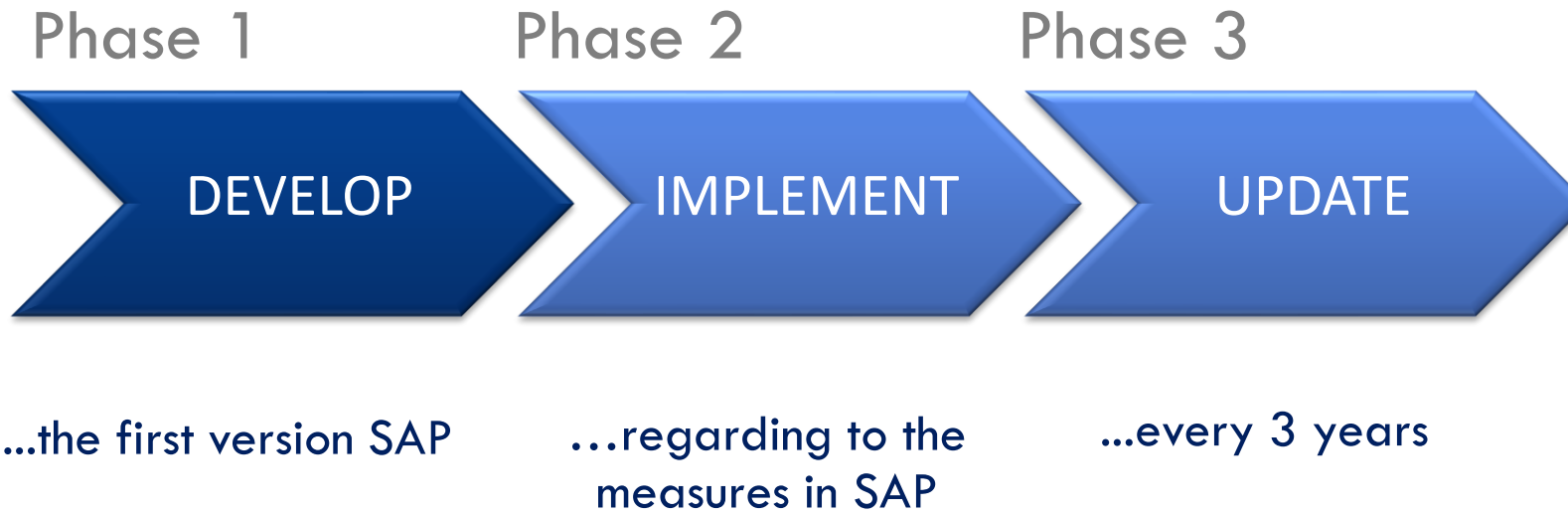
-Aircraft operators
- ...Mitigation Measures

UPDATING

MEET SAP CRITERIA

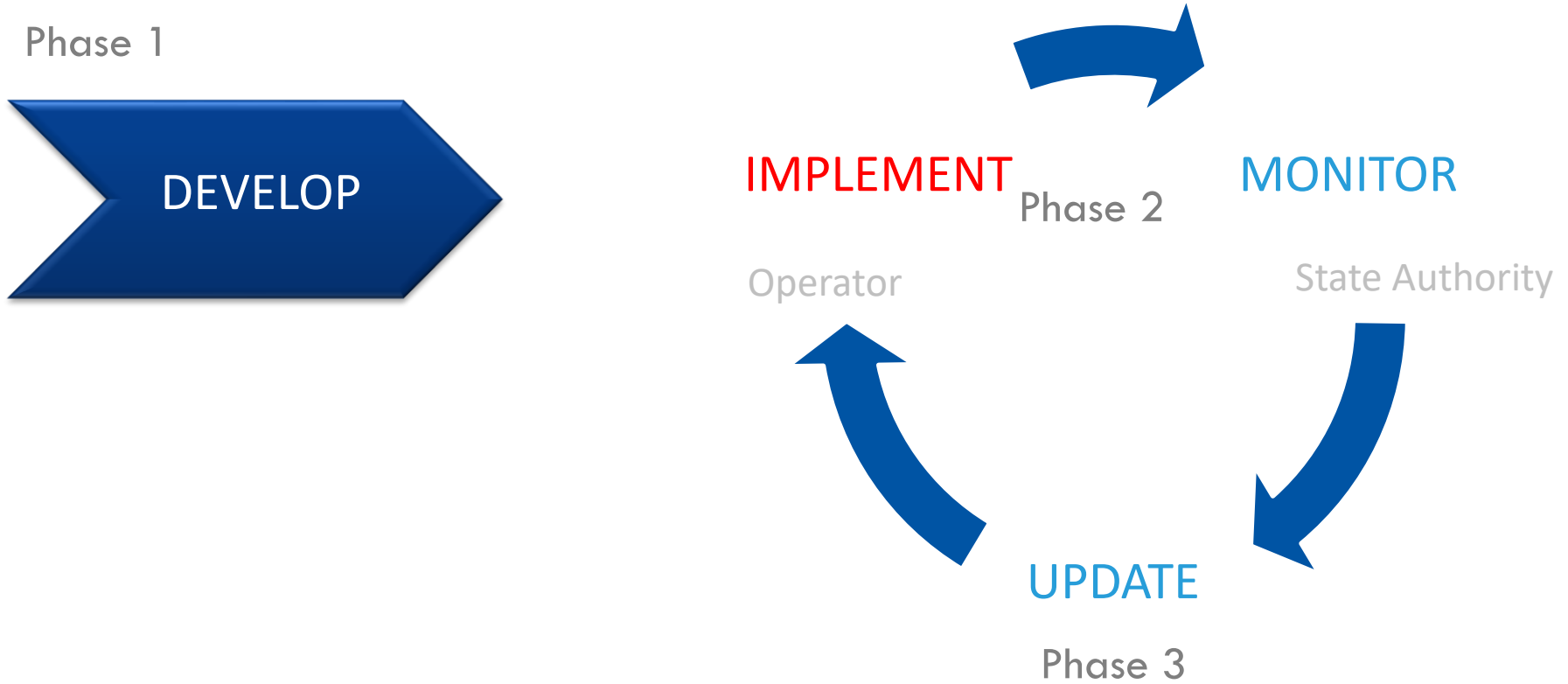


Management of SAP





Management of SAP





Phase 1: SAP-Development

- DATA : Fuel Consumption and RTK
- Baseline Emissions and Forecasted Emissions with Mitigation Measure
- Mitigation Measure



- Stakeholder Identification and Engagement
- Data Collection → ICAO Form M
- Data processing using EBT (ICAO's Environmental Benefit Tool)
- Proposed Mitigation Measures* → To be agreed with the stakeholder



Phase 2: SAP- Implementation

- Collect data : Fuel Consumption & RTK
- Monitor and Collect data : Mitigation Measure Implementation



- CAAT determined the timeline for FORM M / mitigation measure data submission.
- CAAT monitor emission data and the implementation of the measures on annual basis.
- The data is reviewed annually by the Committee.
- Problem & challenge would be raised and discussed in the Committee s meeting.



Phase 3: SAP- Update

- Update data / Action Plan



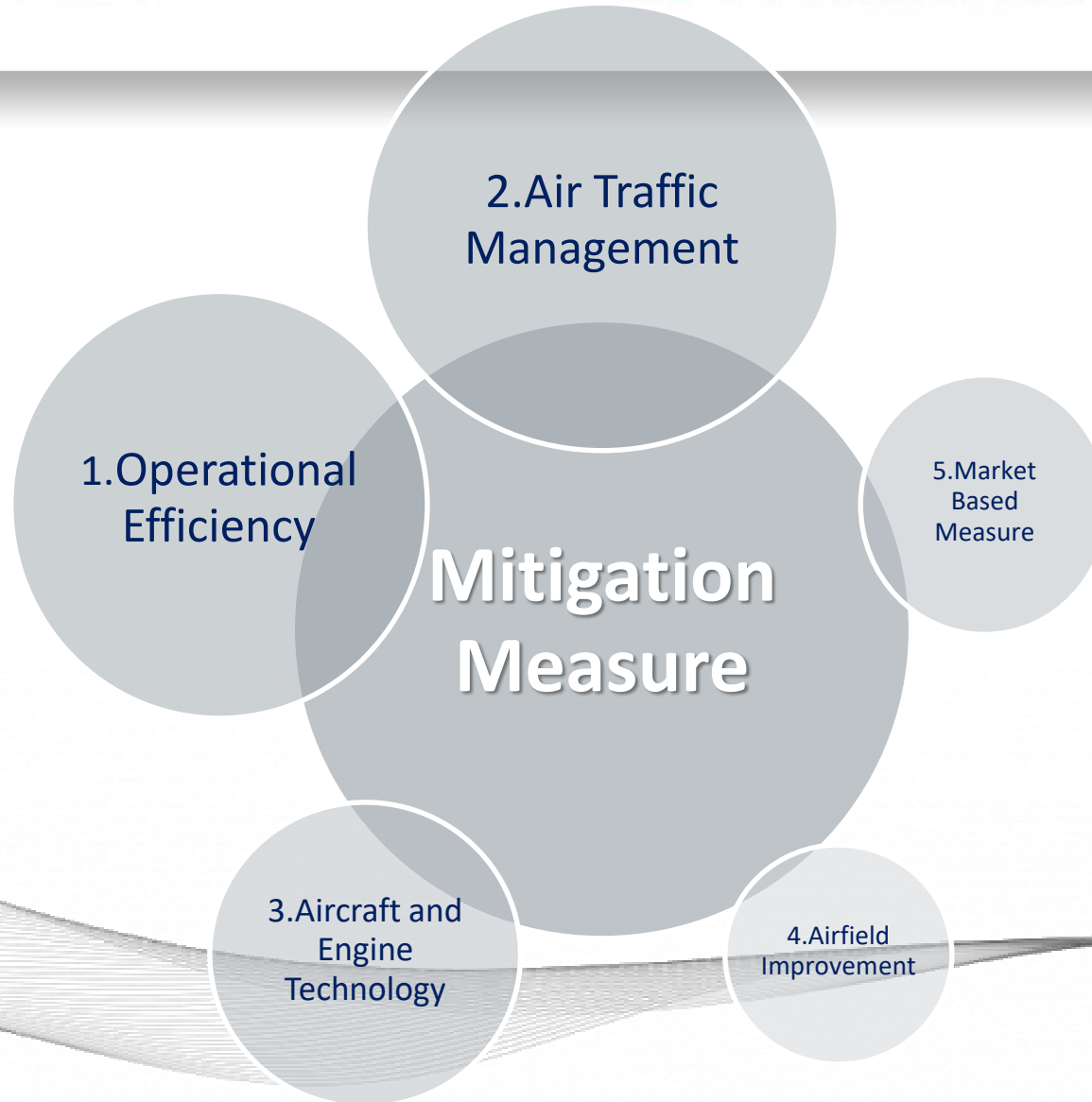
- The data collected along the period (3 years) would be reviewed & analyzed in order to improve the Action Plan.
 - Appropriate Mitigation Measures and New Mitigation Measures
- The Action Plan would be updated by using the new set of data and information.



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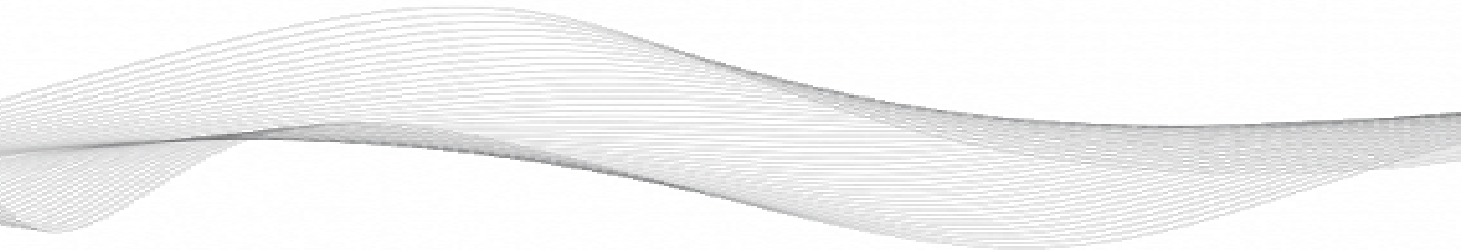




1. Operational Efficiency/Improvement

(by Aircraft Operator)

- Weight Optimization
- Aircraft and Engine Wash
- One Engine Taxiing
- Reduced Flap Landing

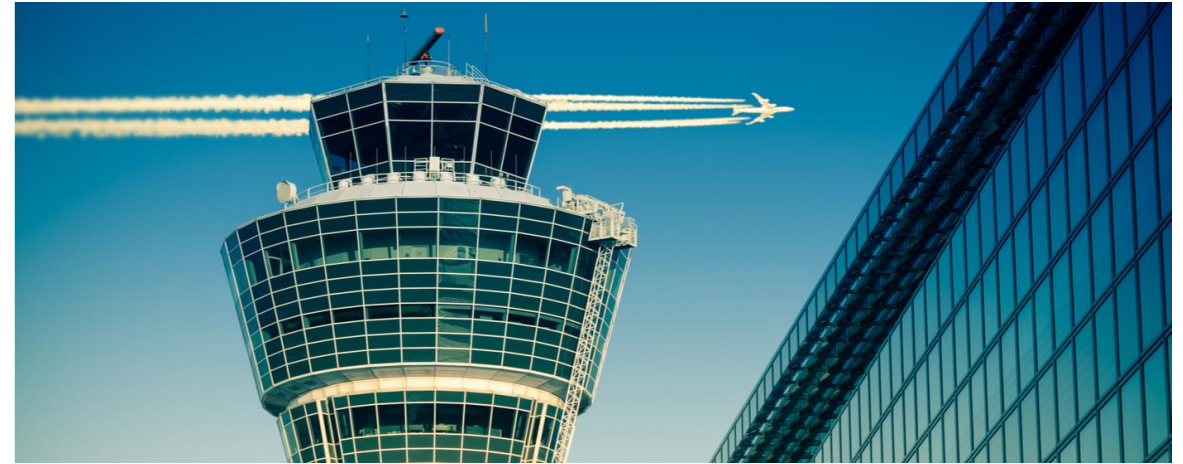




2. Air Traffic Management

(by ANSP)

- Airport CDM
 - Gate hold Procedure to improve ground operations
 - Intelligent Departure Enhancement
- Parallel route/Flexible use of airspace





3. Aircraft Technology

(by Aircraft Operator)

- Introduction of new aircraft/new technology aircraft





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4. Airfield Improvement

(by Airport Operator)

- Construction of New Runway





5. Market Based Measure

(by State Authority and Aeroplane Operator)

- Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)



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CORSIA



From our experiences and lesson learned.....

- Cooperation between SA and Stakeholders is the KEY to SUCCESS of SAP Management
- Turn Proposed Mitigation Measure to be Appropriate Mitigation Measure





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South American
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Lima

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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