

Environmental Management System (EMS) for ASEAN airports

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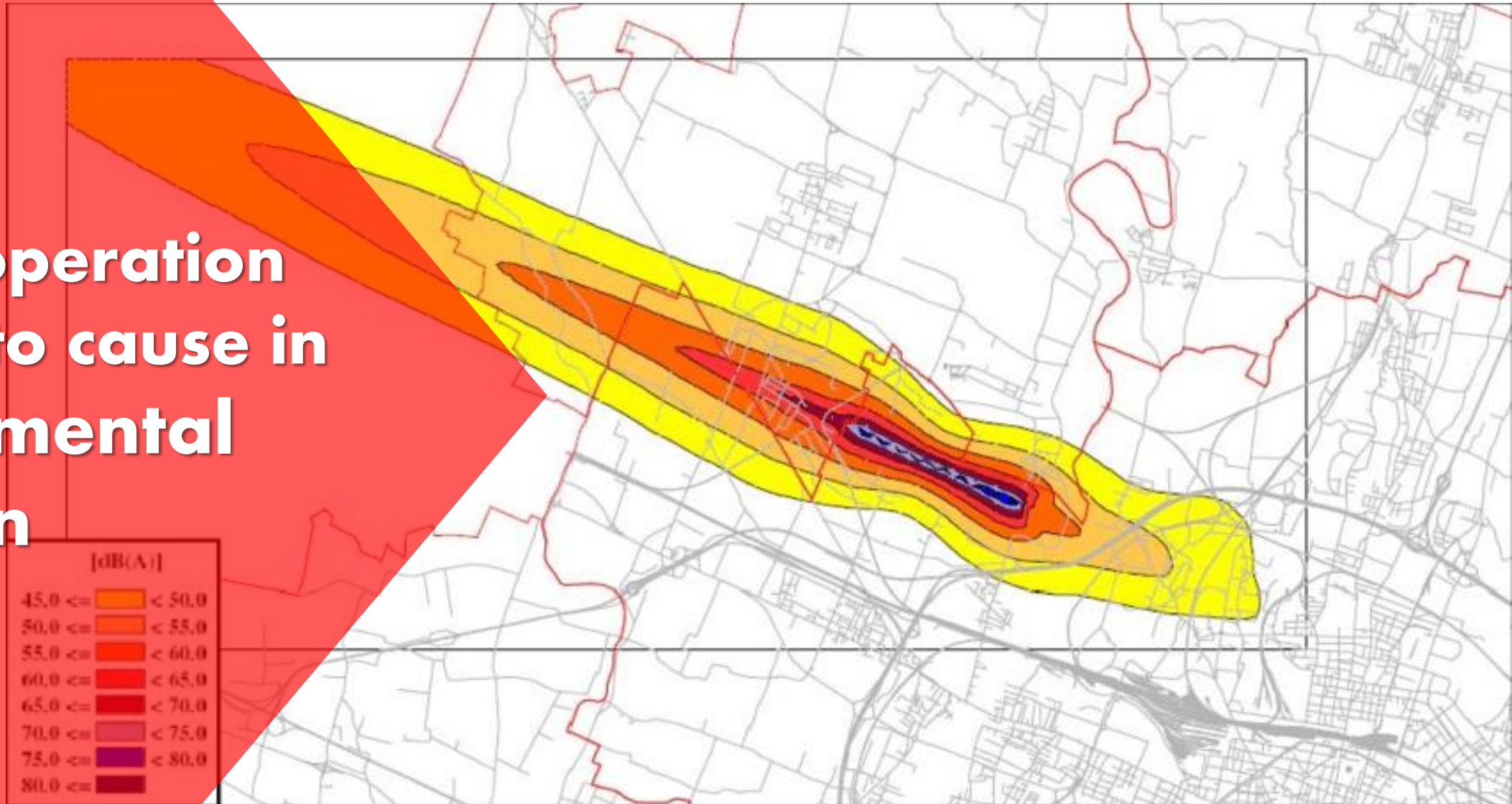






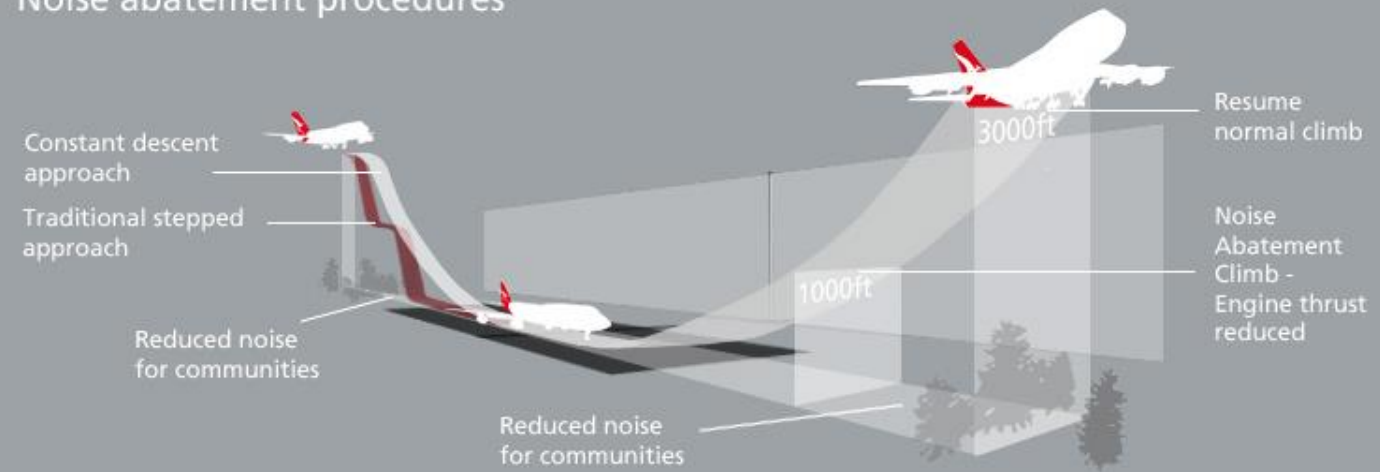
**Airport operation
is likely to cause in
Environmental
Pollution**

Airport operation is likely to cause in Environmental Pollution



Airport has power to cope these environmental issues

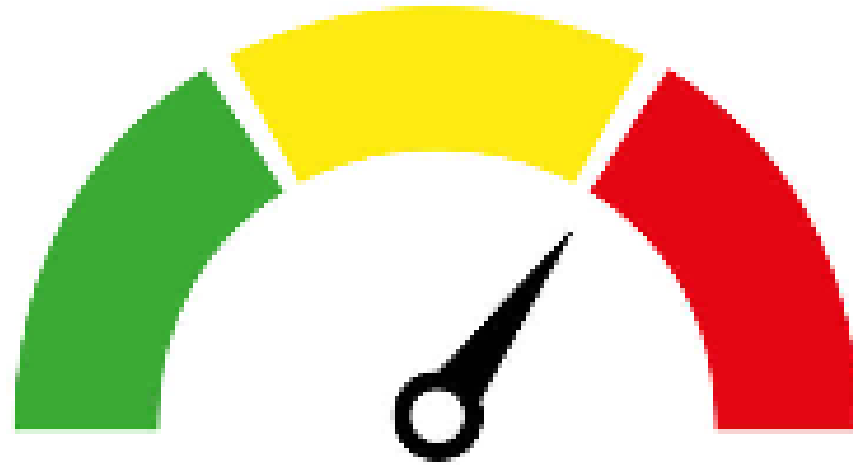
Noise abatement procedures



Environmental Obligation

- The requirement of **Environmental Authority**
- The requirement related to the environment of **Aviation Authority**
 - Airport Planning
 - Aircraft noise mitigation e.g. the balanced approach
 - Etc.
- The requirement related to the environment of **Local Authority**
 - Waste & disposal
 - Wastewater Discharge
 - Etc.

Environmental Performance



- A systematic management practice
- Reduce the impacts of an airport's activities on the environment effectively
- Ensure the compliance with environmental legislation
- Self-monitoring

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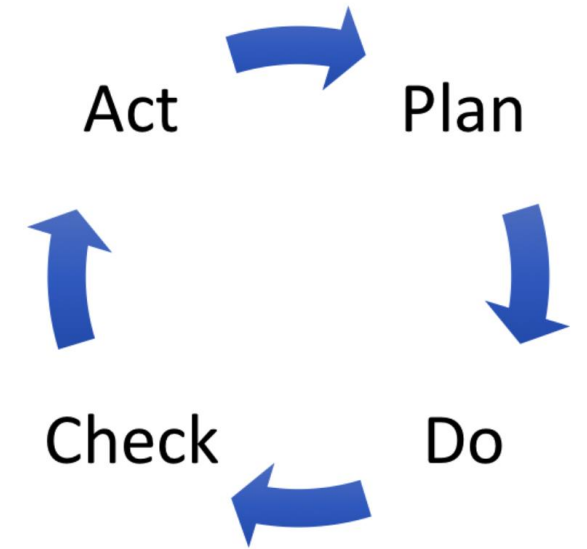
Report on Environmental Management System (EMS) Practices in the Aviation Sector



ENVIRONMENT

An Environmental Management System for Airports

ECO AIRPORT TOOLKIT



“An Environmental Management System (EMS) provides a methodology and framework to systemically identify and cost-effectively manage significant environmental aspects of aviation organizations’ operations and have proven effective across a wide range of organizations, including airports, air carriers, manufacturers and government agencies.”

Ref : ICAO Doc. 9968: “Report on Environmental Management System (EMS) Practices in the Aviation Sector” page 1-2.

International EMS Standards

- ISO 14001: 2015 Standard

- As part of the ISO 14000 “family of standards” that focuses management of an organization’s environmental responsibilities, regardless of its type of activity. Specifically, ISO 14001:2015 is based on implementing environmental systems to achieve its objectives while other standards in the family focus on specific solutions such as audits, communications, labelling and life cycle analysis, as well as environmental challenges such as climate change

- EMAS European Standard

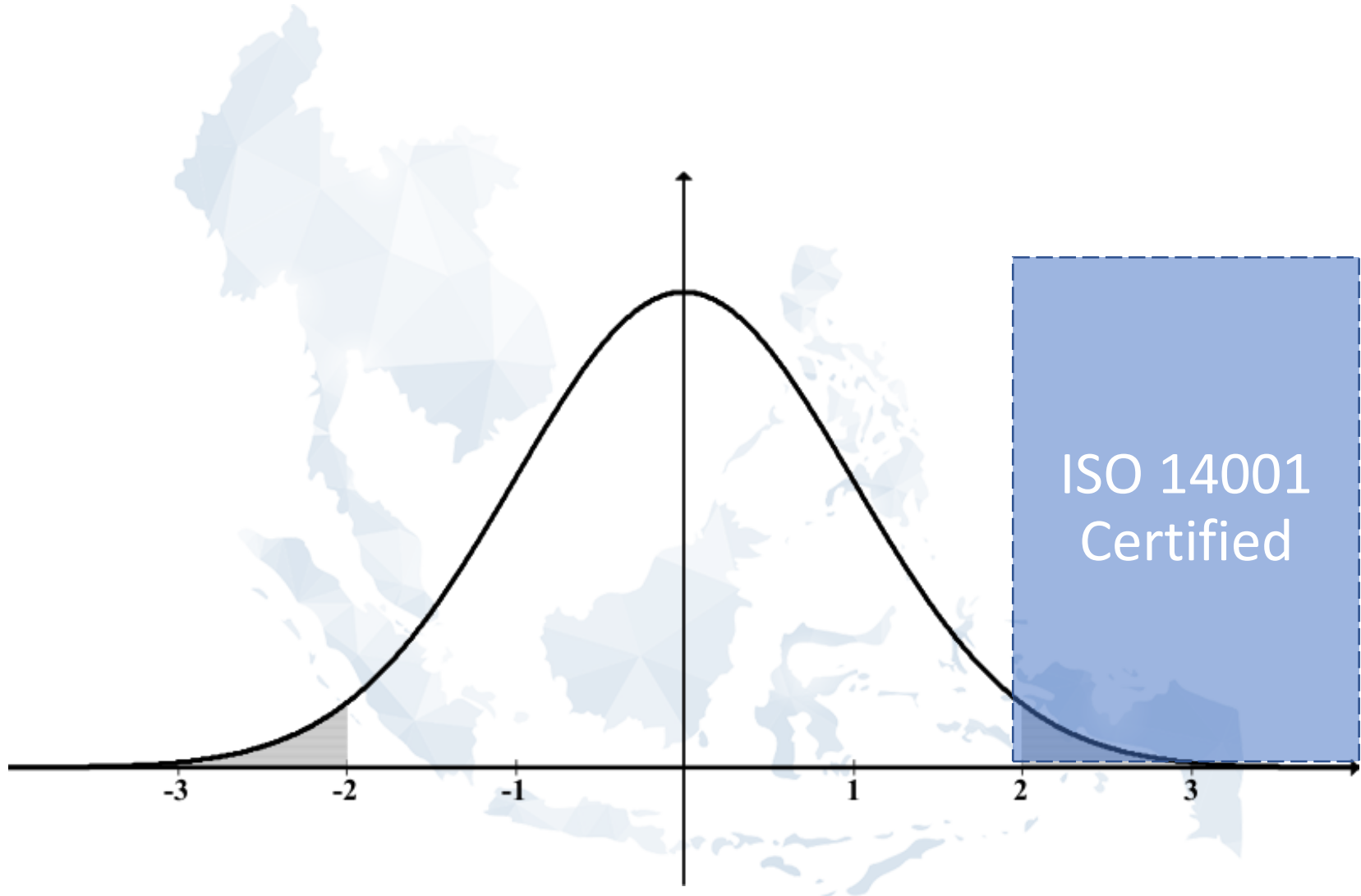
- The European Union Eco-Management and Audit Scheme (EMAS) is the EMS standard developed by the European Commission to evaluate, report, and improve an organization’s environmental performance.
- EMAS is also considered stricter than ISO 14001



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“To develop ASEAN Standard of Airport Environmental Management Systems in accordance with ASEAN contexts and circumstances”



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MANAGEMENT REVIEW

PLANNING



AIRPORT EMS

CHECKING

IMPLEMENTATION



1. PLANNING

1. Context of The Airport

2. Environmental policy

3. Role, responsibilities and authorities in Airport
EMS

4. Legal and other requirements

5. Environmental aspects identification

6. Environmental Program



2. IMPLEMENTAION

7.Operational Control

8. Documented Information

9.Complaint handling



3. CHECKING

10. Evaluation of compliance and environmental performance

11. Internal Audit

12. Nonconformity and Corrective Action



4. MANAGEMENT REVIEW

13. Management Review





**Sufficient for
managing the
environment
effectively**

- Systematic approach
- Cost –effective (less burden)
- Emphasize to
 - The compliance with environmental legislation
 - Responsibility and accountability
- Aware the other environment aspect(s)
- Self monitoring and taking action



REGIONAL Standard

Airport Environmental Management System (AIRPORT EMS)

- Adopted by ASEAN Air Transport Working Group (ATWG) (Oct 2022)
- Endorsed by ATM and STOM (Nov 2022)




National Standard (THAILAND)

Workshop agreement 4003-2565 Airport Environmental Management System



- **Public consultation** in Thailand (Workshop Agreement)
 - Agreed by all Thai public airport operators (15 JUNE 2022)
- Endorsed by Thai Industrial Standards Institute (TISI)

An aerial photograph of an airport terminal and tarmac. The terminal building has a distinctive white, curved roof. Several aircraft are parked at gates or on the tarmac. The background shows a dense residential area. A large red semi-transparent overlay covers the left side of the image, containing the title text.

GUIDELINE
for managing the
environment of airport
in ASEAN countries