

ASEAN Ten Countries Communication Site EMS Intelligent Solution



AI Overview

The ASEAN EMS Intelligent Solution is a regional framework integrating environmental management and digital technologies to enhance operational efficiency and sustainability across ASEAN member states.

Overview of ASEAN EMS

The ASEAN Airport Environmental Management System (Airport EMS) is a structured framework designed to improve environmental performance at airports across the ten ASEAN countries. It follows the Plan-Do-Check-Act model, providing a flexible, cost-effective approach for managing environmental impacts, ensuring regulatory compliance, and implementing monitoring processes. Initiated by Thailand and endorsed by ASEAN transport officials in 2022, the system began implementation in 2023 with support from Japan's Ministry of Land, Infrastructure, Transport and Tourism (MLIT) and other technical cooperation programs. The EMS framework is developed collaboratively by aviation authorities, airport operators, and national standards authorities from all ASEAN member states.

Integration with Digital and Intelligent Solutions

ASEAN's broader digital transformation agenda under the ASEAN Digital Masterplan 2025 and the ASEAN Connectivity Strategic Plan emphasizes high-speed connectivity, cloud computing, AI, and IoT technologies to enable intelligent solutions across sectors. The EMS platform leverages these digital capabilities to:

- Facilitate real-time monitoring of environmental parameters.
- Enable data-driven decision-making for sustainable operations.
- Support cross-border communication and coordination among ASEAN countries.
- Integrate with smart infrastructure and Industry 4.0 technologies for predictive analytics and operational efficiency.

Strategic Benefits

Implementing the EMS Intelligent Solution across ASEAN provides multiple benefits:

- Environmental sustainability:** Reduces carbon footprint a...

Article Content

Bridging Disparities to Bolster Digital Transformation in ASEAN

This article is published in collaboration with the Economic Research Institute for ASEAN and East Asia. ASEAN has seen progress in advancing its vision of a digitally integrated regional

Framework for Improving ASEAN Infrastructure Productivity

The Framework for Improving ASEAN Infrastructure Productivity under the Master Plan on ASEAN Connectivity (MPAC) 2025 is a timely initiative to strengthen our infrastructure planning, delivery, and

MASTER PLAN ON

MASTER PLAN ON ASEAN CONNECTIVITY 2025 The ASEAN Secretariat Jakarta The Association of Southeast Asian Nations (ASEAN) was established on 8 August 1967. The Member States are

Digital policy action areas for a connected ASEAN

The ASEAN Digital Master Plan 2025 (ADM 2025) stands as a visionary blueprint for the future of the ASEAN region. Recognizing the pivotal role of technology in

Digital policy action areas for a connected ASEAN

Recognizing the pivotal role of technology in shaping the socio-economic fabric of the region, ADM 2025 charts a course towards a more connected, innovative and inclusive ASEAN.

Advanced Air Mobility (AAM) and emergency services: The

Abstract: The research paper explores the potential benefits of integrating electric Vertical TakeOff and Landing (eVTOL) aircraft into emergency medical services (EMS) in the ASEAN-5 countries

ASEAN Guide on

The ASEAN Guide on AI Governance and Ethics is an ASEAN-endorsed framework for organisations in the region to refer to when designing, developing, and deploying traditional AI technologies.

Airport EMS

Initiated by Thailand at the 41st ASEAN Air Transport Working Group (ATWG), it evolved through expert collaboration and was endorsed in 2022 by ASEAN

Harnessing 5G and AI convergence for transformative

The Lee Kuan Yew School of Public Policy has released a report outlining how ASEAN can harness 5G and AI for transformative economic growth.

Advanced Air Mobility(AAM)and emergency services: The Association

This research paper explores the operational benefits of eVTOL emergency medical services (EMS), specifically focusing on their potential to overcome urban traffic constraints and

ASEAN takes major step toward landmark digital

Southeast Asian nations reached a milestone in negotiations for a regional digital economy pact, setting the stage for digital integration across a

ASEAN Socio-Cultural Community Policy Brief No. 19 (2025) ASCC

Objectives This Policy Brief aims to assess the current state of digital literacy and transformation in ASEAN's education sector. It will measure the diffusion of digital transformation through an analysis

ASEAN Digital Sector

In October 2019, the sectoral name was officially changed from ICT to Digital, in line with the vision to position ASEAN as a leading digital community and economic bloc, powered by secure and

Lee Kuan Yew School of Public Policy Releases

The LKYSPP study, drawing from extensive stakeholder interviews and survey responses from over 400 professionals across eight ASEAN

STUDY ON THE ELECTRONIC INVOICING (E-INVOICING) LANDSCAPE IN ...

Based on these conditions, countries in the ASEAN region have a strong drive to transform their invoice transactions using the E-Invoicing system in B2B and B2G sectors.

South East Asia Ambulance Services Market Report, 2030

This report forecasts revenue growth at Southeast Asia, regional, & country levels as well as provides an analysis on the latest industry trends in each of the sub-segments from 2018 to 2030.

Where Next? Priorities for the ASEAN Economic Community Post 2025

This dual approach ensures that the benefits of digital transformation are fully realised, leading to more intelligent, efficient, and resilient connectivity solutions.

Digital Economic Integration Under RCEP: China-ASEAN

Current Status of Digital Economic Development Between China and ASEAN Digital economic cooperation is a key component of the China-ASEAN Comprehensive Strategic Partnership and an

Lee Kuan Yew School of Public Policy Releases Strategic Roadmap

The LKYSPP study, drawing from extensive stakeholder interviews and survey responses from over 400 professionals across eight ASEAN countries, identifies ten critical imperatives for

Lee Kuan Yew School of Public Policy Releases Strategic Roadmap

New Research Reveals US\$130 Billion Economic Opportunity and Outlines Policy Framework to Accelerate Regional Digital Leadership by 2030 SINGAPORE - Media OutReach

ASEAN Digital Sector

The ASEAN Digital sector was formerly known as the ASEAN Information and Communications Technology (ICT) sector and covers cooperation of ICT infrastructure, telecommunications

Shaping ASEAN's Future: Strategies for Regional

ASEAN is a diverse region with multiple languages spoken across its member countries. Proficiency in English, as well as local languages, can

Digital policy action areas for a connected ASEAN

Abstract This report assesses the level of readiness of digital policy, legal and governance frameworks for digital transformation in the Association of Southeast Asian Nations (ASEAN) member states and

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With bold insights, proven expertise and tech that moves business forward, we help you drive your company to the leading edge.

ASEAN stepping up its green and digital transition

That makes it extremely important for countries to have a strong capacity in both basic and applied research. Most ASEAN countries have a

Intelligent System for Transportation Mode Selection in

The results of research will lead to the design of an intelligent transportation system program that will not only illustrate solution for the trading

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