KOMITE NASIONAL KESELAMATAN TRANSPORTASI
REPUBLIK INDONESIA

# Enhancing the Investigation Cooperation Mechanism Through an Updated APAC AIA Capability Database

Presented by: Indonesia | APAC-AIG/14 | Bangkok, 7–9 October 2026

# APAC Investigation Cooperation Mechanism

- Established through APAC cooperation since 2013 and evolved into the Investigation Cooperation Mechanism (ICM)
- Form of assistance:
  - expertise, manpower, facilities, equipment, training, technical advice
- The ICM complements — not replaces — national investigation capability

≈ 66% participation (August 2026)

- Demonstrates regional commitment to investigation cooperation
- Opportunity to increase participation and utilization of the mechanism

# Benefit of ICM

| 2021 | 2023 | 2024 | 2026 |
|---|---|---|---|
| **Recorder assistance** | **USOAP preparation** | **Basic training** | **OJT** |
| Readout toolkits + expertise (Singapore & Australia) | Sharing session (Singapore) | Initial investigation training (Lao PDR & Cambodia) | OJT participation in Indonesia (Lao PDR & Cambodia) |

*Effective implementation of the ICM depends not only on the commitment of participating States/Administrations, but also on the ability to identify in a timely manner, the expertise, facilities, equipment, and other resources available within the region*

# APAC AIA Database

- Existing database provides basic AIA information.
- Detailed capability information may still require bilateral enquiries
- Time is spent identifying:
  - specialist expertise
  - facilities / equipment
  - recorder readout capability

***The issue is not only whether assistance exists – but whether we can identify it quickly***

# Finding the Appropriate Assistances

- Since 2024, KNKT has not had permanent investigator with flight operations (e.g. Pilot)
- Apart from relying on assistance from Accredited Representatives, KNKT establish MoU with pilot association
  - Seconded investigators from non-investigation authorities requires additional training
  - Investigators from other AIAs would generally already possess the competencies required to support investigations
  - Knowing other AIAs area of expertise will help

# Finding the Appropriate Assistances

In 2025, KNKT Indonesia lacked specific recorder readout toolkits during an investigation,

- KNKT Indonesia had to conduct a series of bilateral enquiries with other AIAs

*Maintaining up-to-date and accessible detailed regional database would improve the efficiency of obtaining appropriate assistance from other State AIAs*

# Reference Model

- European Network of Civil Aviation Safety Investigation Authorities (ENCASIA)
  - cooperation mechanism implemented since 2011
- ENCASIA has strengthened the investigation capabilities of Member States
  - in particular by developing and managing a framework for sharing resources.

# Reference Model – ENCASIA Resource Map

| Safety Investigation Authority Ability | | Key Capabilities | | |
|---|---|---|---|---|
| **IIC/A-IIC** | **Skill Or Group Leaders** | **Evidence Gathering & Analysis** | | **Recovery** |
| • Major Event<br>• Limited CAT Event<br>• GA Event<br>• Other | • Operations<br>• Engineering (System /Structure)<br>• Engineering (System /Avionics)<br>• HAFCS<br>• Lawyer<br>• UAV<br>• SMS | **CV/DFDR**<br>• Non-Damaged Download<br>• Damaged Download<br>• Full Analysis | • 3D Imagery<br>• Memory readout – component level<br>• Metallurgy laboratory<br>• Flight path recon. | • CV/FDR UWR Detection<br>• CV/FDR UWR Recovery<br>• Wreckage recovery |

# Proposed Enhanced AIA Database

KNKT Indonesia proposes adopting the **ENCASIA Resource Map as a reference** for enhancing existing APAC AIA database

**Area of Particular Expertise**

- Wreckage
- Organizational
- Flight Operation
- RPAS
- Meteorological
- Air Traffic Services
- Aerodrome
- ….

**Investigation Facilities and Equipment**

- Flight Recorders Readout
  - List of recorder capability (non-damaged), e.g. L3 FA2100 FDR, Honeywell HFR5-V
  - List of accident investigation kit (AIK)
- Flight Recorders Analysis
  - List of analysis software
- Material Failure Laboratory
- ….

**Training Capability**

- Initial Formal Training
- OJT Training
- Advanced Formal Training
- Specialty Training

**Complete the form and return to ICAO Asia and Pacific Office no later than 6 March 2026**

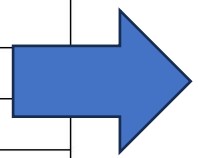
**To:** **Regional Director**
**ICAO Asia and Pacific Office**
**Email address: APAC@icao.int; apac.flightsafety@icao.int;**

**Section 1:** **Asia Pacific Accident/Incident Investigation Bodies Database**

☐ The Asia Pacific Accident/Incident Investigation Bodies Database [Link] is up to date.

☐ The Database should be revised as follow:

| | |
|---|---|
| **State/Administration** | |
| **Name of Investigation Agency:** | |
| **Multi-modal (details, if applicable):** | |
| **Reporting to:** | |
| **Address:** | |
| **Phone:** | |
| **Fax:** | |
| **Website:** | |
| **24 hours x 7 days Contact:** | |
| **Point of Contact (Name/designation/e-mail):** | |
| **Database Focal Point (Name/designation/email):** | |
| **Independence from the Civil Aviation Authority (CAA):** | ☐ Fully Independent from CAA<br>☐ Within the CAA<br>☐ Other, please specify:_____ |
| **Number of Staff:** | |
| **Area of particular expertise:** | |
| **Facilities:** | |



| | |
|---|---|
| **Area of particular expertise:** | |
| **Facilities:** | |

| | |
|---|---|
| **Availability of other specialized equipment: (e.g. site survey equipment, RPAS):** | |
| **Availability of training:** | |

# Action by the Meeting

The Meeting is invited to:

a) Encourage States/Administrations that have not yet done so to pledge their support to the APAC ICM; and

b) Endorse the enhancement of the existing APAC AIA database and request the ICAO APAC Regional Office, in coordination with participating States/Administrations, to implement the enhancement:

   i. Phase 1: Develop a standardized process for the collection and periodic updating of the detailed information

   ii. Phase 2: Establish and maintain database containing detailed information, to facilitate the timely identification of appropriate assistance under the ICM

# THANK YOU

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