



ICAO

ICAO APAC & EUR/NAT CMAC/FUA WORKSHOP

One-step forward



Bangkok, Thailand
19 – 23 January 2026

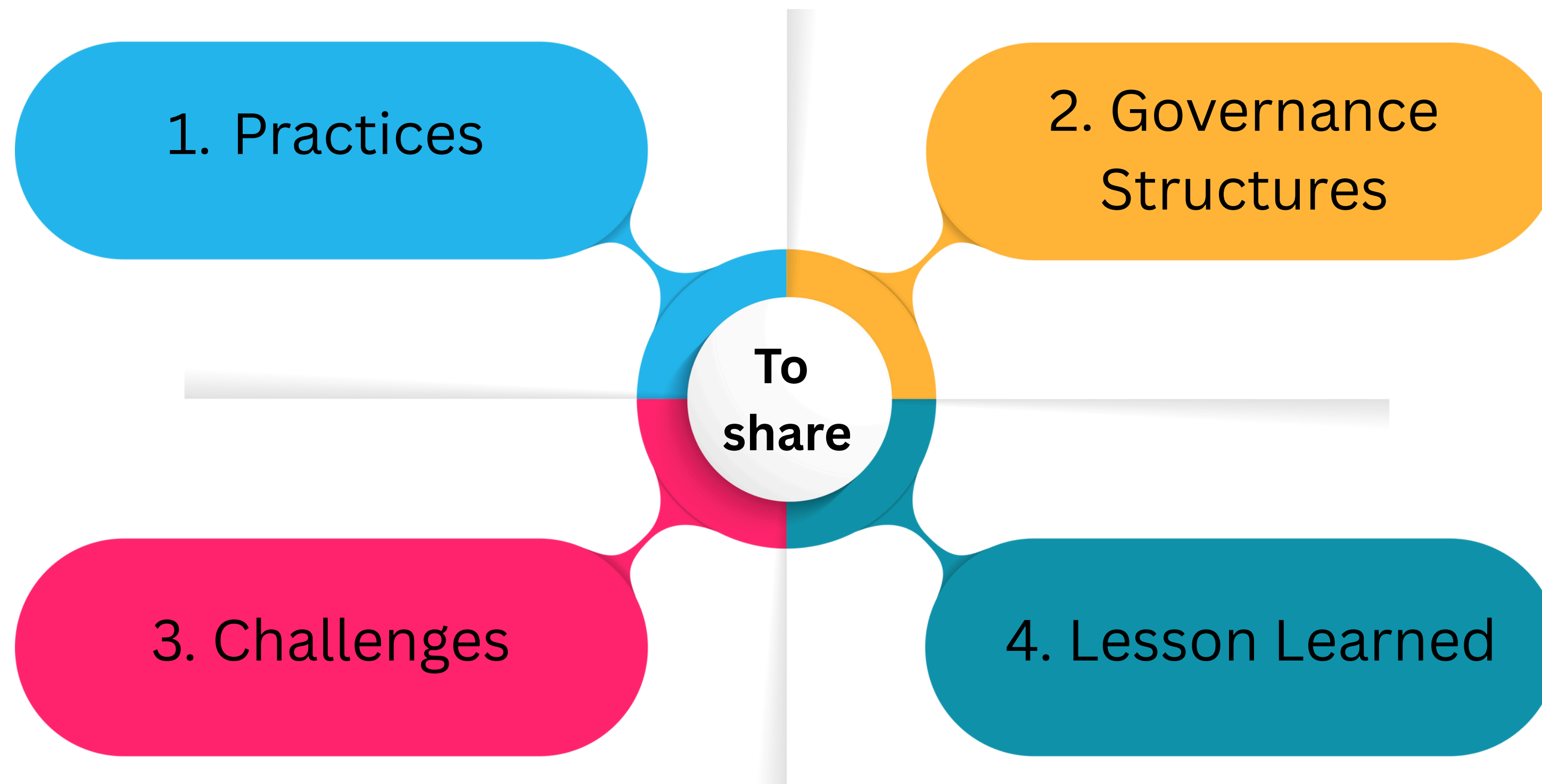
MALAYSIA CIVIL AND MILITARY COOPERATION

by

Muhammad Firdaus Bin Ismail (CAAM)

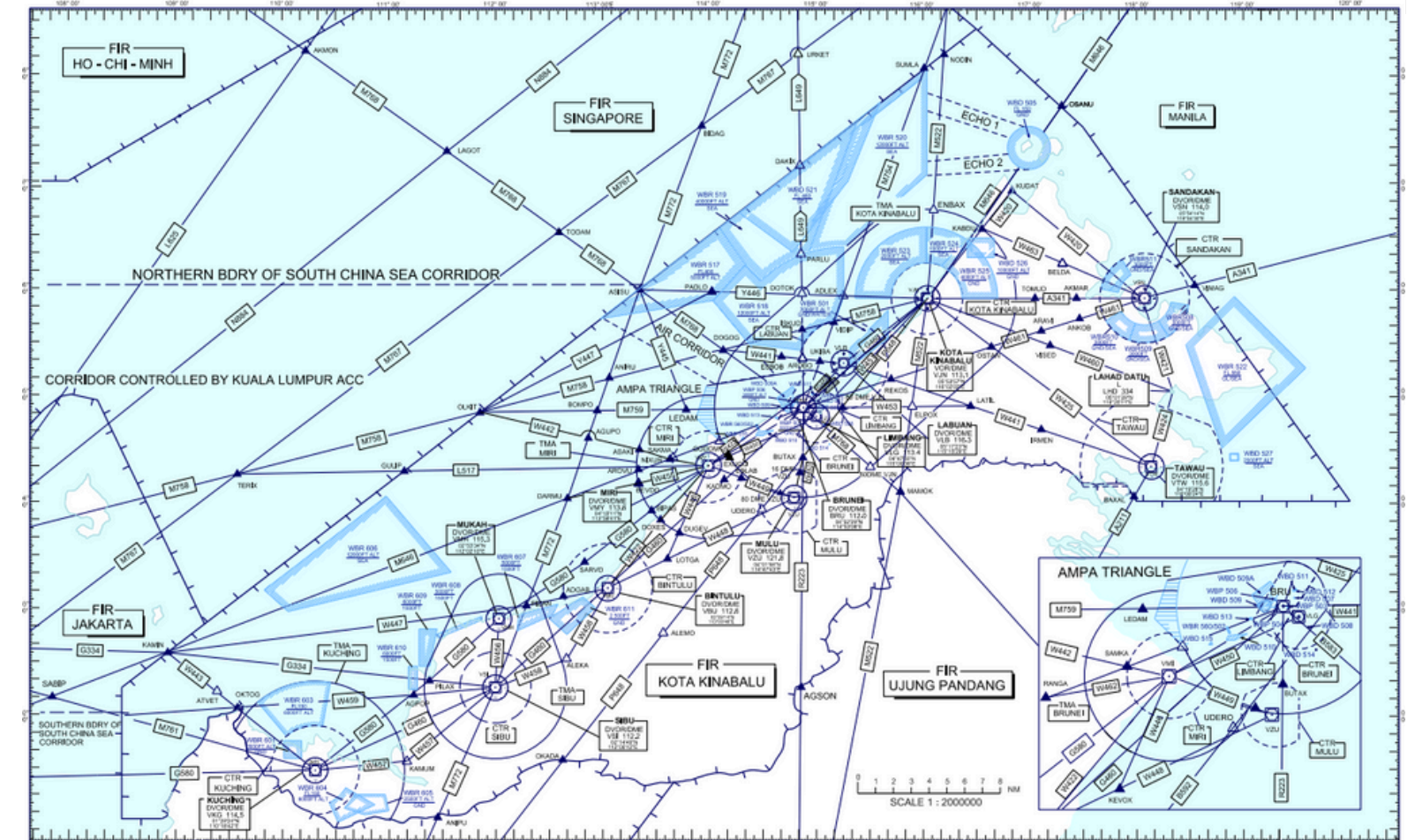
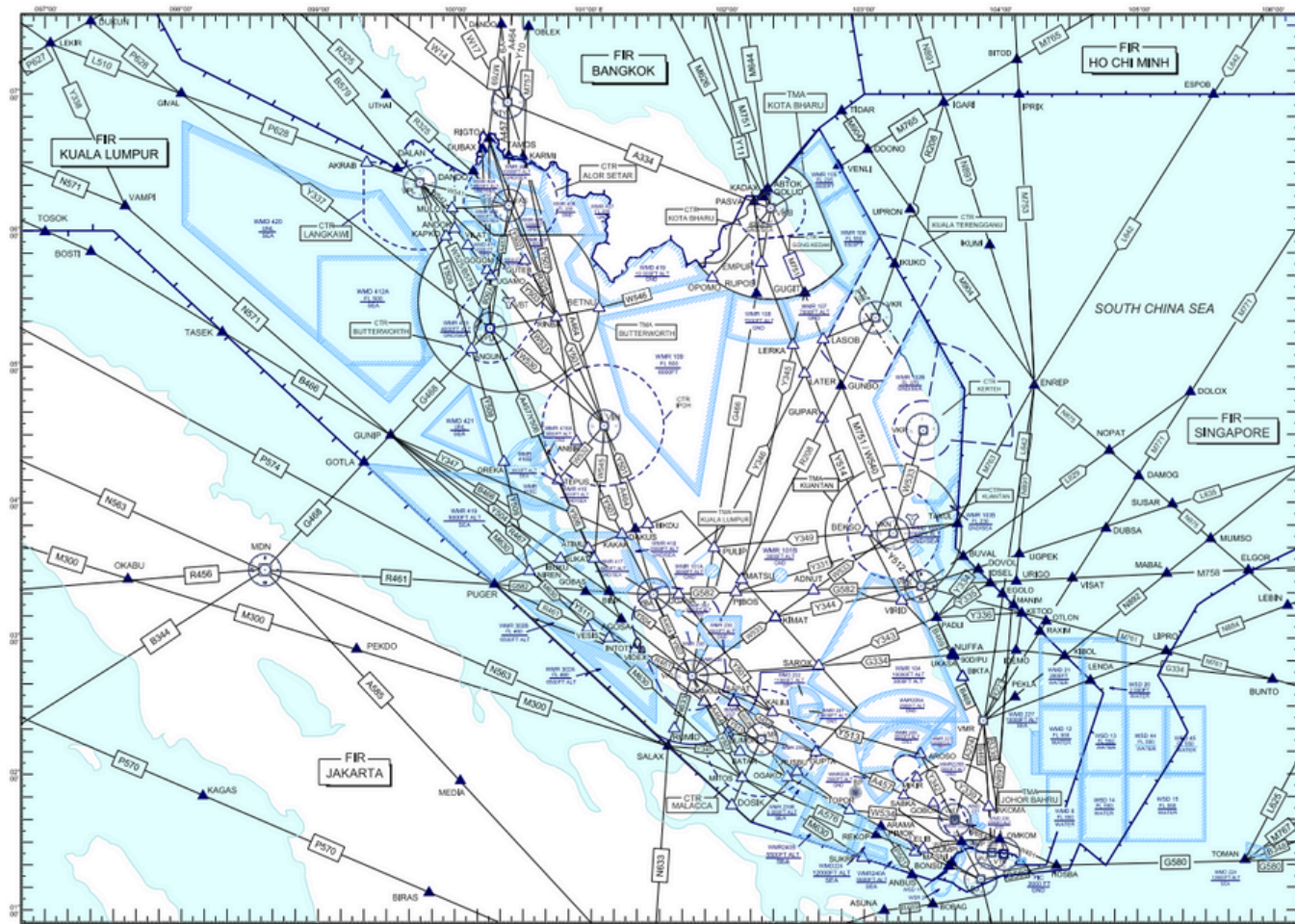
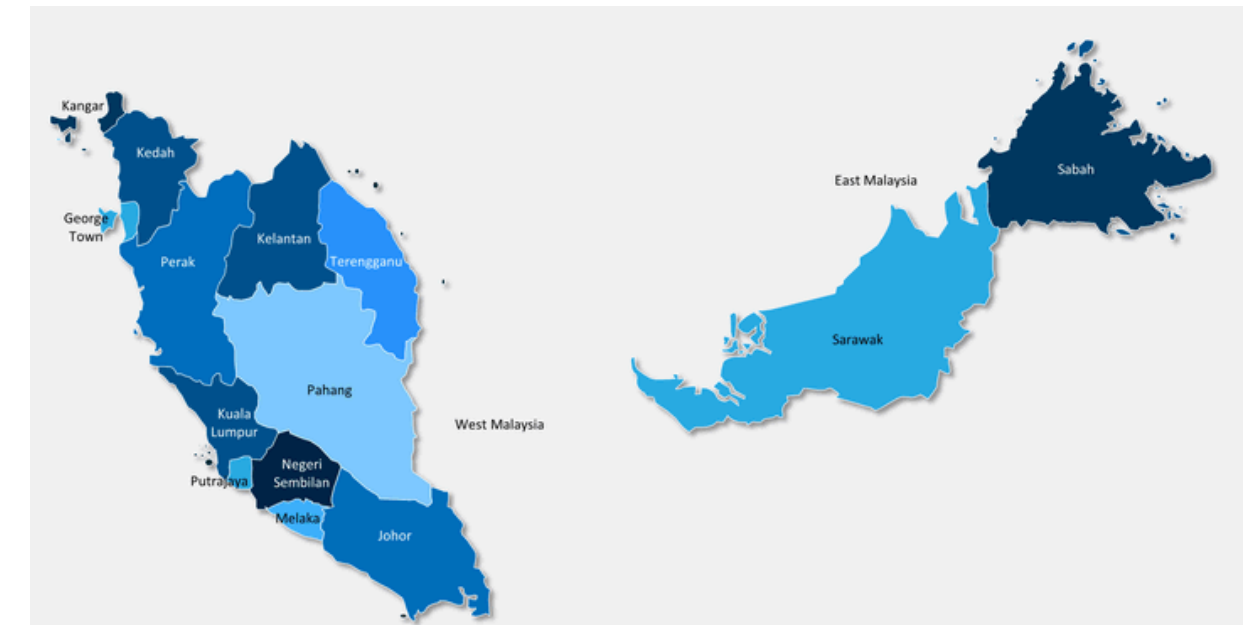


OBJECTIVES



OVERVIEW OF MALAYSIA'S AIRSPACE ENVIRONMENT

- TWO FIRS: KUALA LUMPUR FIR AND KOTA KINABALU FIR
- HIGH DENSITY CIVIL TRAFFIC AND STRATEGIC MILITARY TRAINING AREAS



IMPORTANCE OF CIVIL MILITARY COOPERATION

- **SAFETY** - The paramount, it ensures seamless operation and reduces the risk of accidents
- **CAPACITY OPTIMIZATION** - Both civil and military can maximize the usage of shared airspace.(efficient flight paths and reduce congestion).
- **AIRSPACE FLEXIBILITY** - Adapting quickly to a change

ALIGN WITH ICAO GANP AND ASBU MODULES (BO-FUA AND B1-FUA)

REGULATORY AND GOVERNANCE FRAMEWORKS

Institutional roles

- Civil Aviation Authority of Malaysia (CAAM) as civil aviation regulator and ANSP
- Royal Malaysian Air Force (RMAF) as military airspace authority

Two-Tier committee framework established to ensure structured coordination

- **Strategic Level:** Jawatankuasa Induk Pengurusan Ruang Udara (JIPRUA) is formal escalation and decision-making mechanisms on policy and strategic issues
- **Technical Level:** Jawatankuasa Teknikal Ruang Udara (JTRUA) to address technical matters

CIVIL-MILITARY AIRSPACE MANAGEMENT CONCEPT IN MALAYSIA

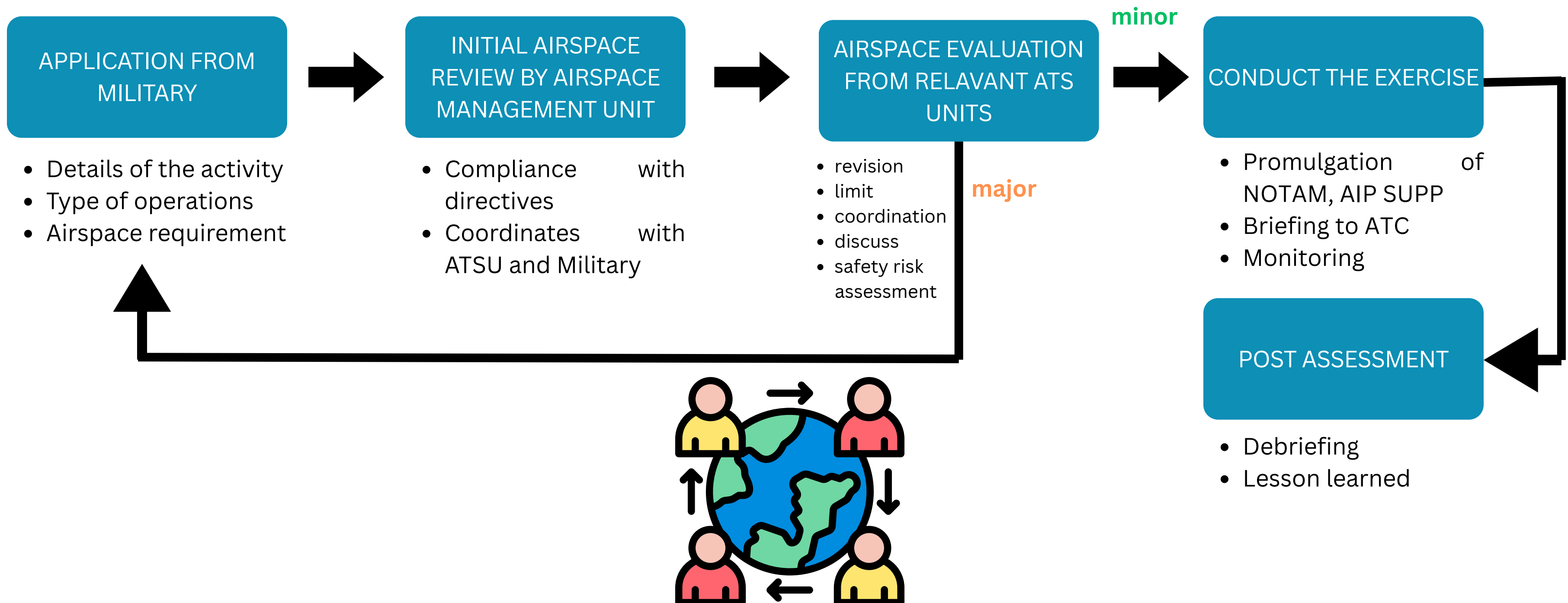
Application of Flexible Use of Airspace (FUA) principles :

- **Strategic Level** : Airspace design and allocation
- **Pre-Tactical Level** : Daily / weekly planning
- **Tactical Level** : Real time activation and release

Use of :

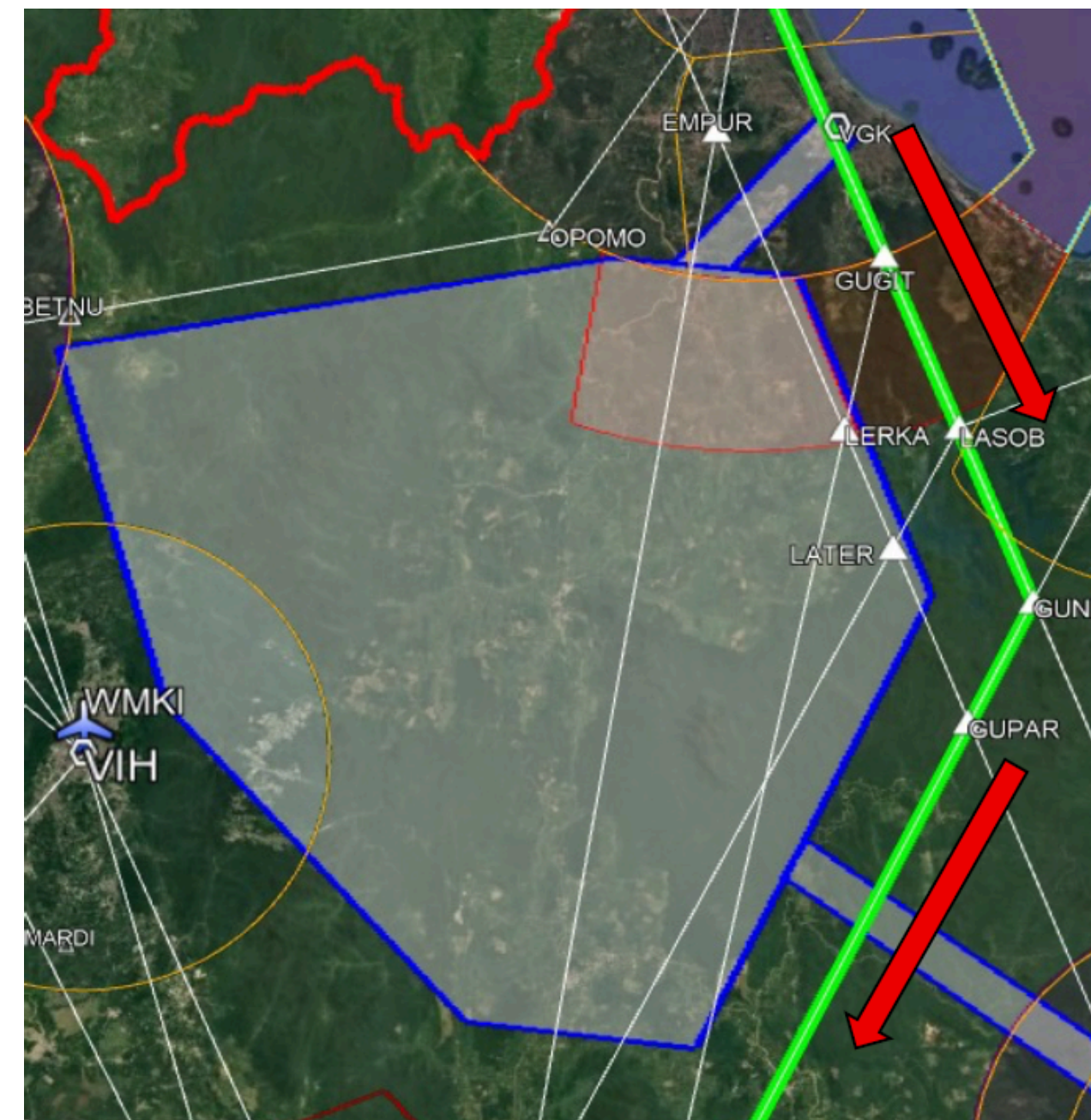
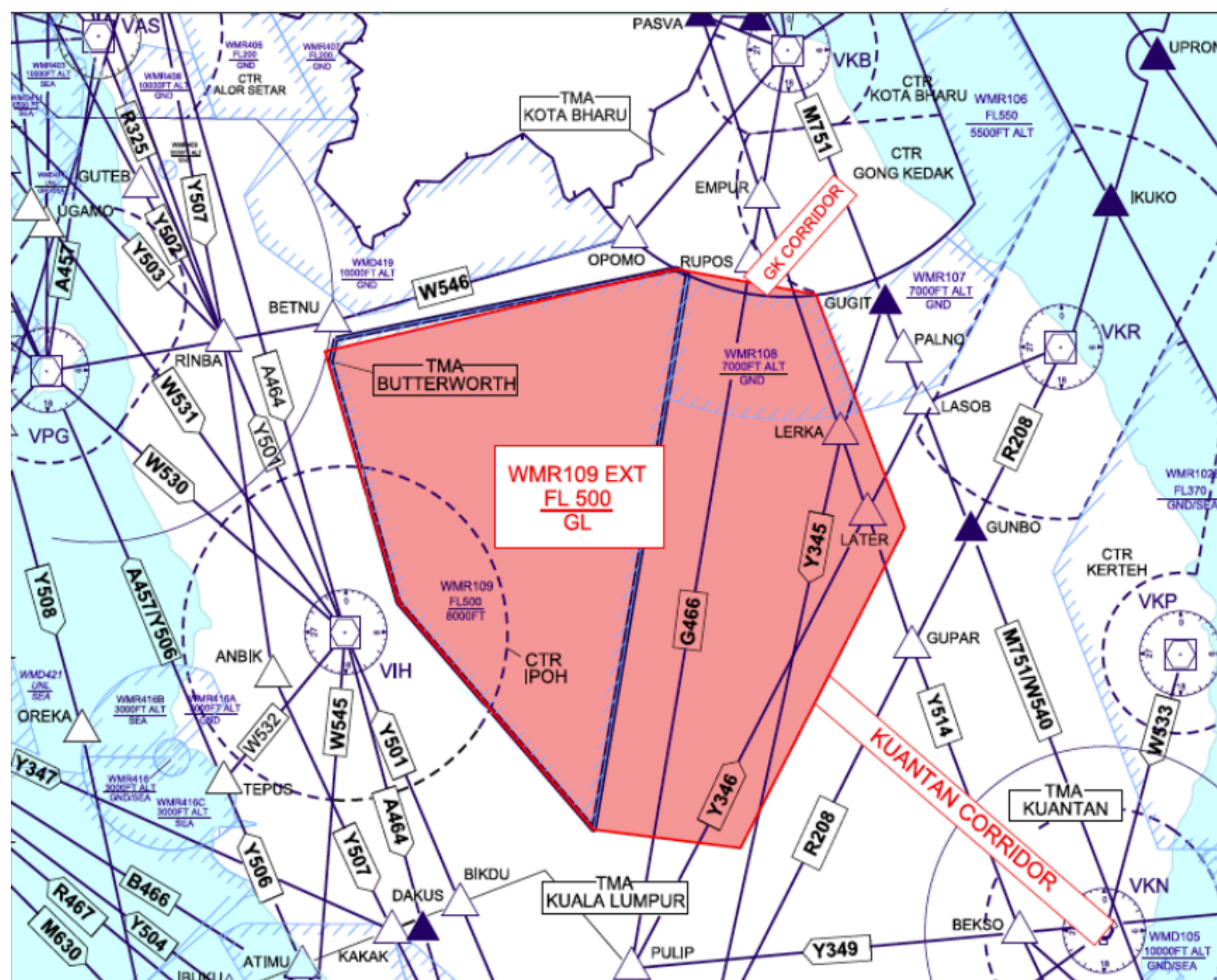
- Temporary Reserved Areas (TRA)
- Danger / Restricted Areas

AIRSPACE RESERVATION PROCESS

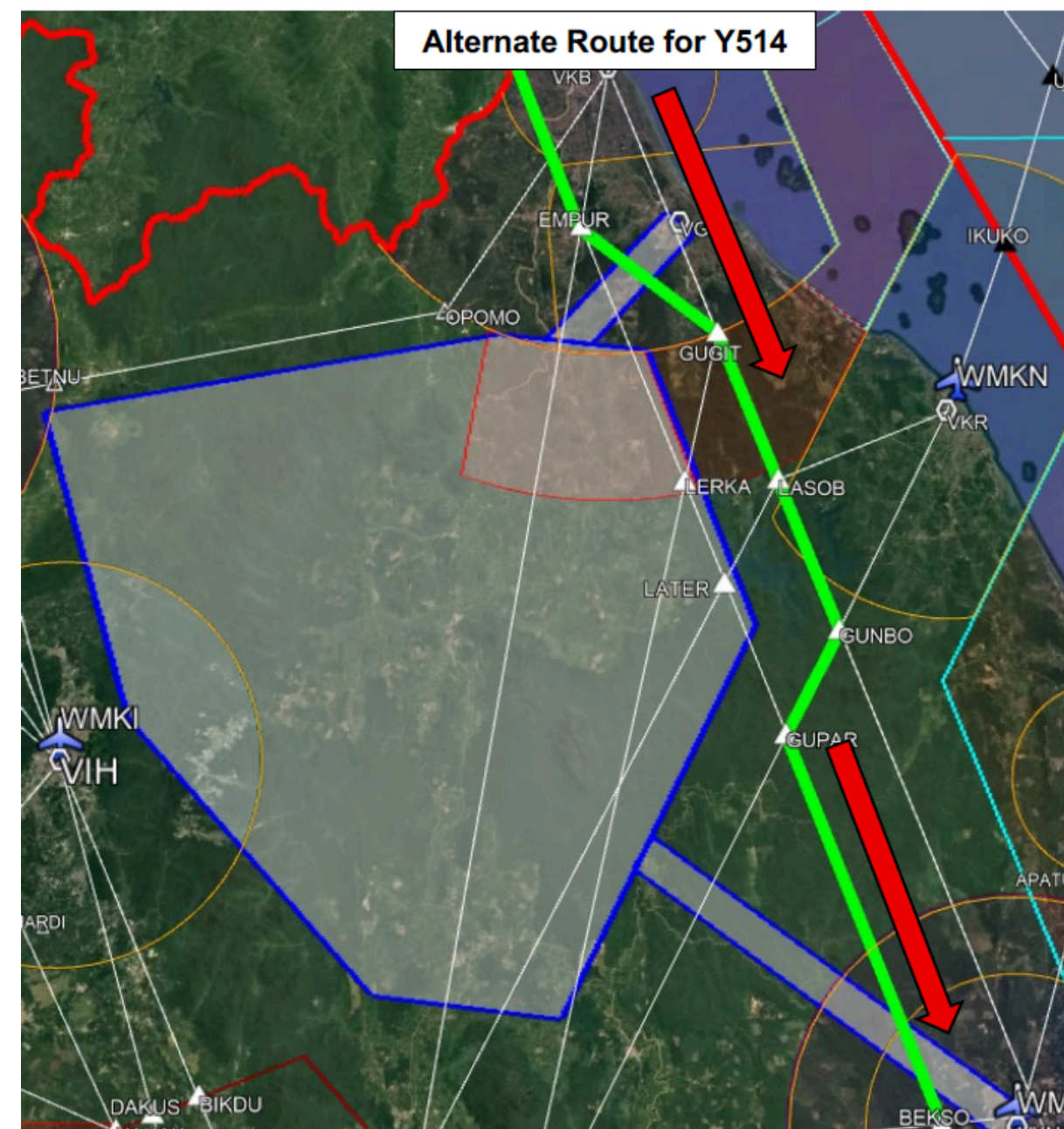
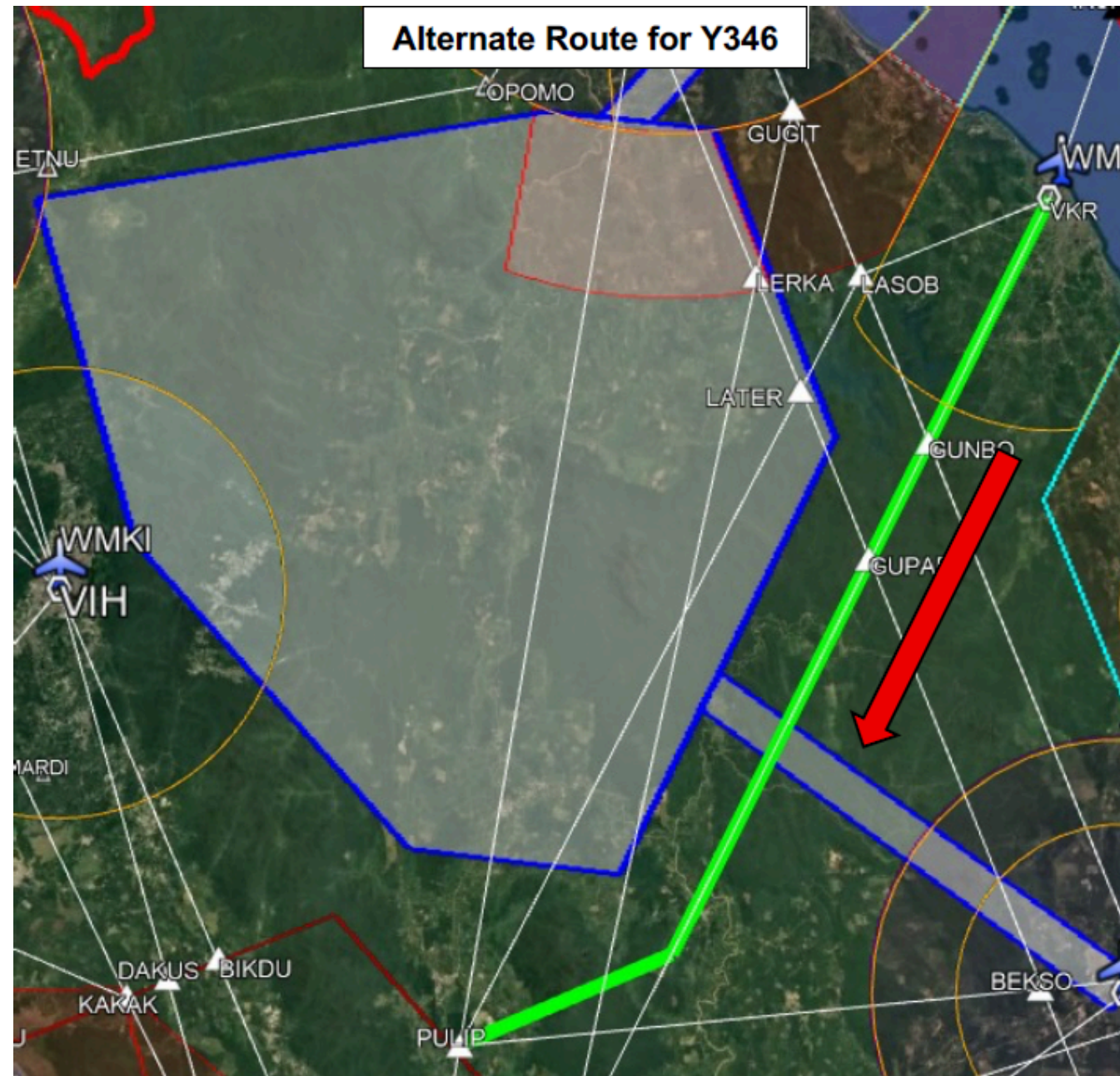


EXAMPLES OF ACTIVITIES

1. EXERCISE ELANGAROO 25

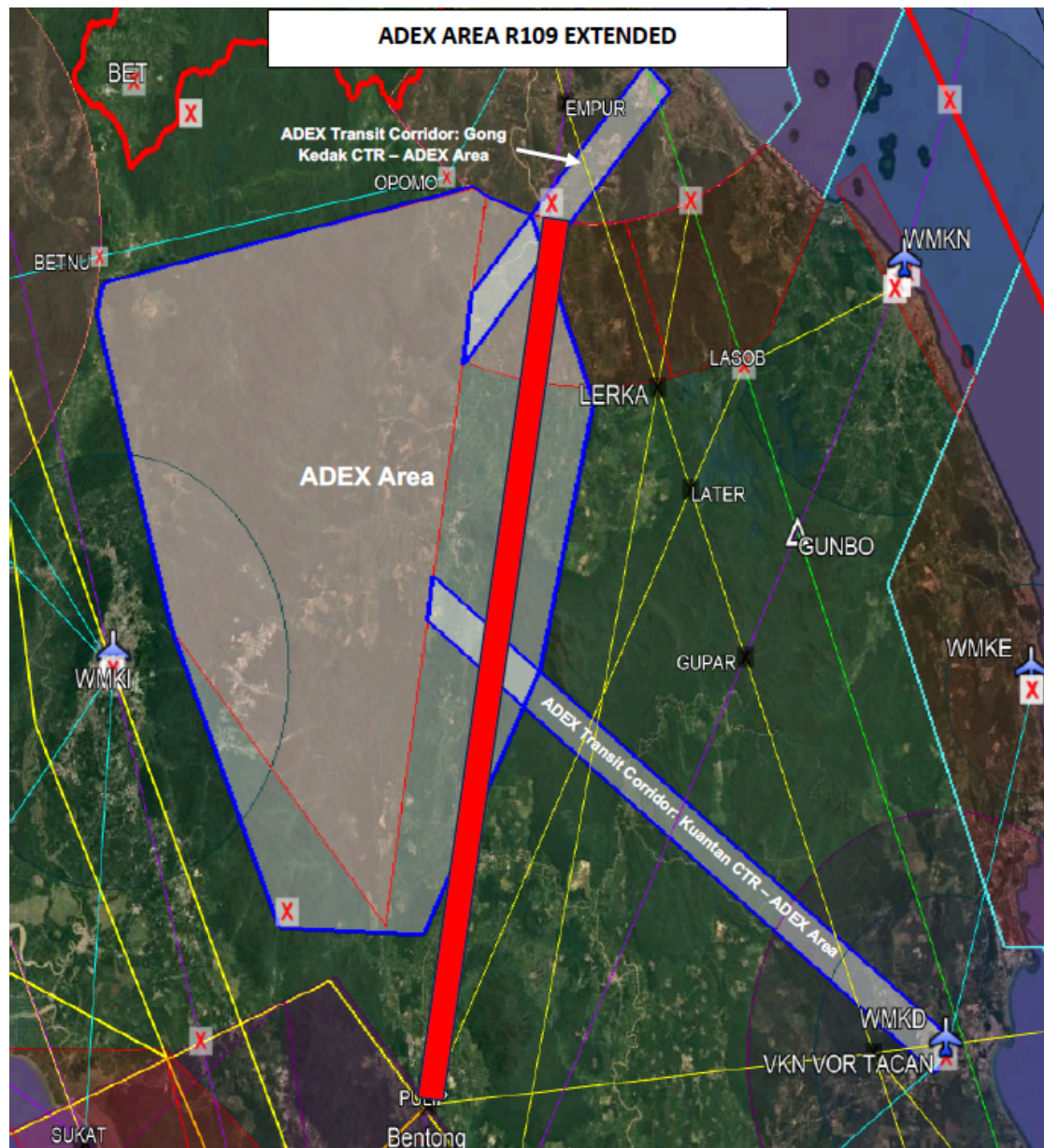



EXAMPLES OF ACTIVITIES



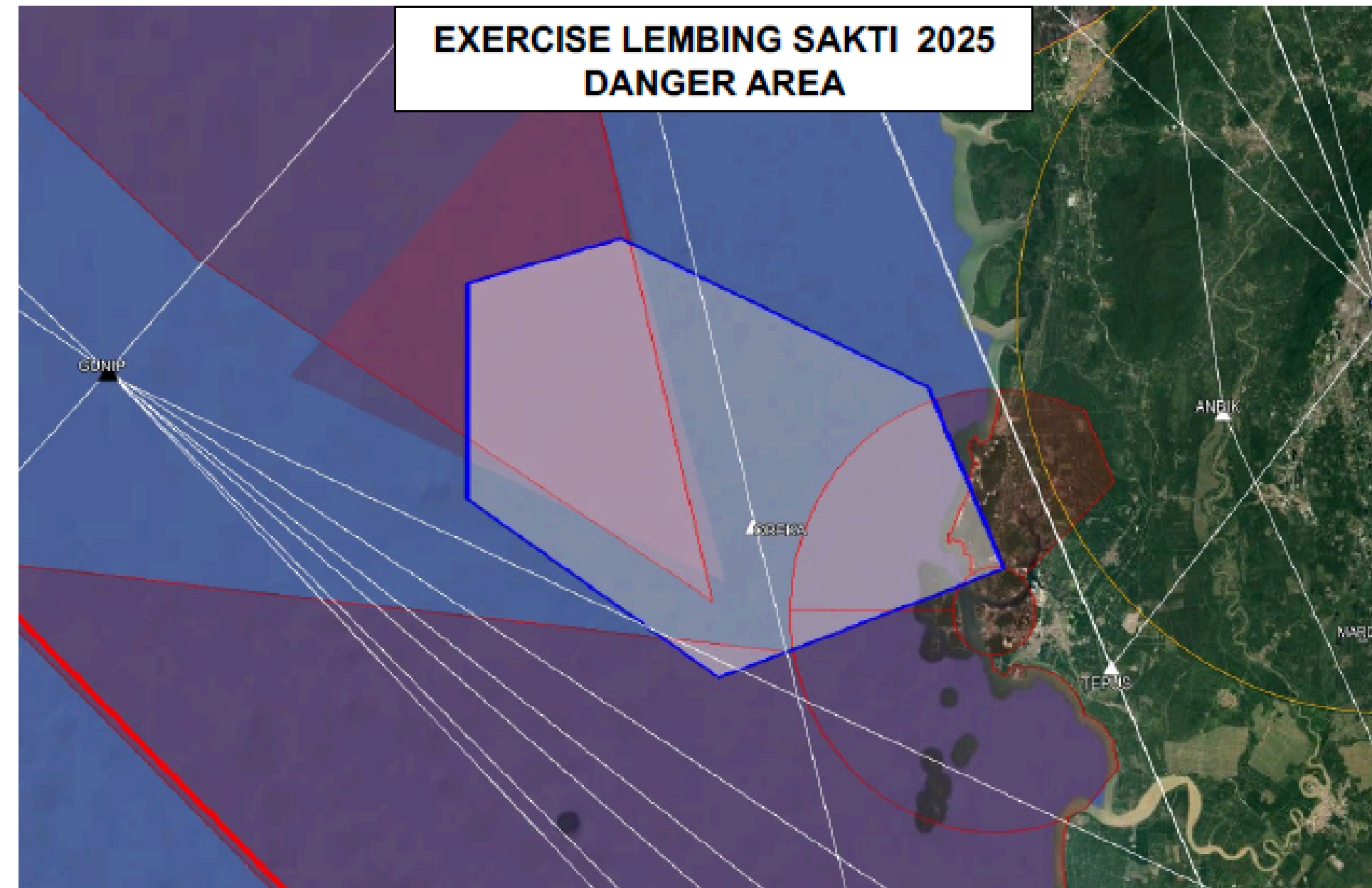
EXAMPLES OF ACTIVITIES

2. JOINT FLEET TRAINING 1/25



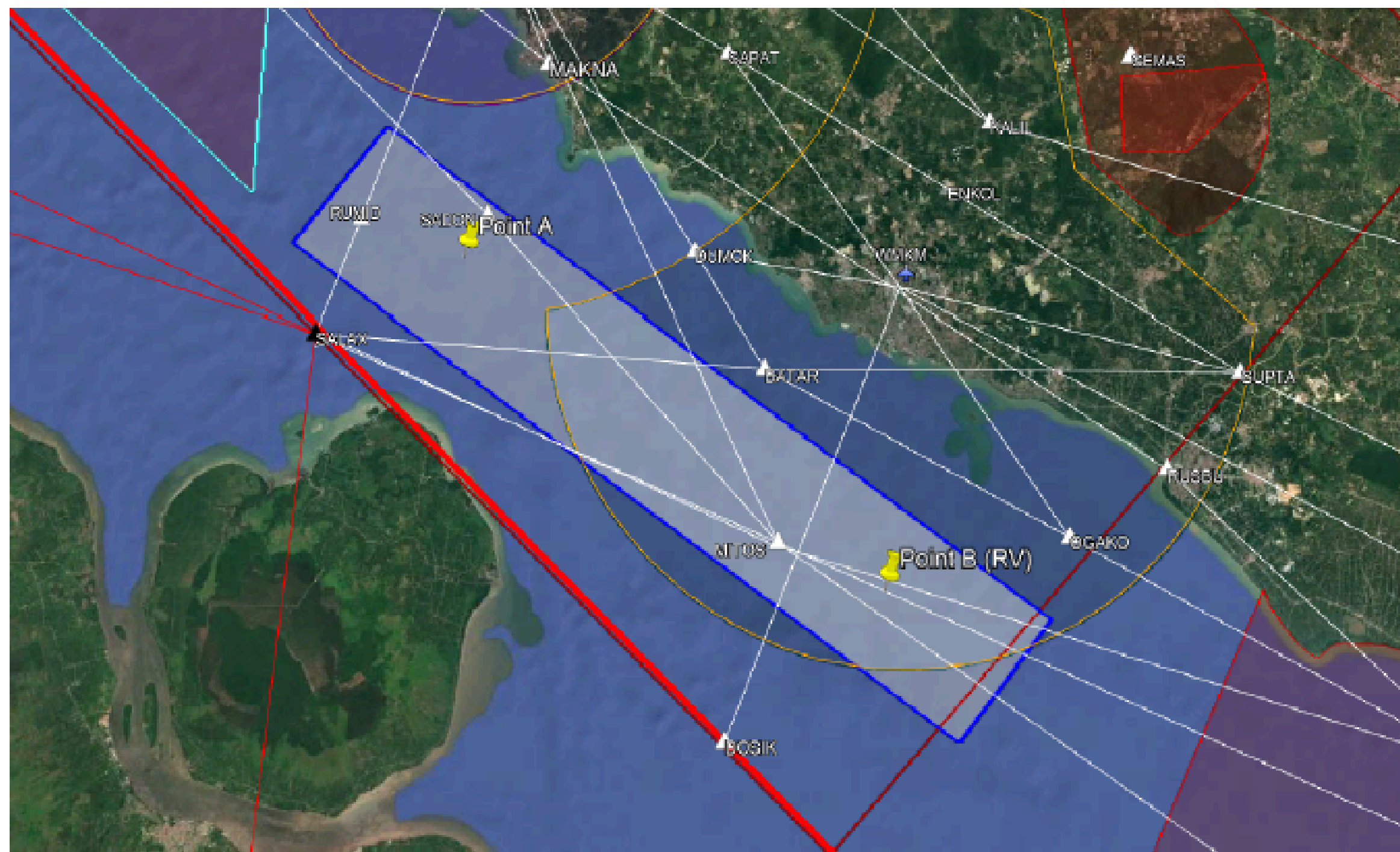
 Portion of ATS route G466 not available during the ADEX window period.

3. EXERCISE LEMBING SAKTI 2025



EXAMPLES OF ACTIVITIES

4. JOINT AIR PATROL COORDINATION 2025



BENEFITS ACHIEVED THROUGH COOPERATION

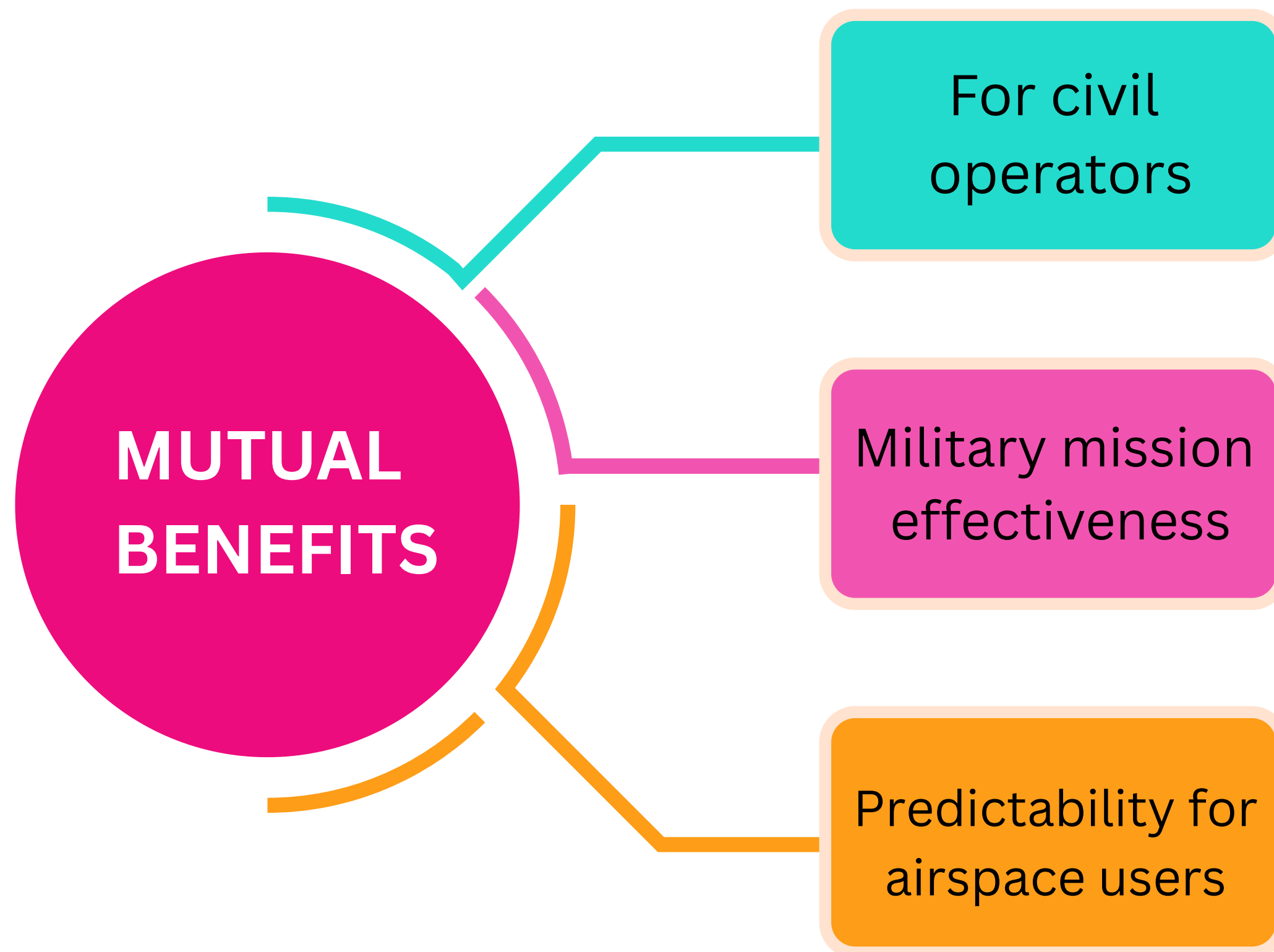
SAFETY IMPROVEMENTS

- Reduced conflict risk
- Clear responsibilities and procedures

CAPACITY AND EFFICIENCY GAINS

- Increased civil route availability
- Reduced track miles and delays

BENEFITS ACHIEVED THROUGH COOPERATION



CHALLENGES AND CONSTRAINTS

- Balancing National defense requirements vs the civil traffic growth.
- Real time coordination limitations.
- System interoperability.
- Cultural and operational differences between civil and military environments.

LESSON LEARNED AND GOOD PRACTICES

- Early and continuous engagement between civil and military stakeholders.
- Importance of clearly defined roles and SOP.
- Need for joint training and awareness programmes.

CONCLUSION

- Civil and Military is a strategic enabler, not a constraint.
- Safety, efficiency and sovereignty can co-exist.
- Commitment to continuous improvement and regional cooperation.



MOMENT OF COOPERATION



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Thank You

