

**FASA 1: PERANCANGAN
(PRE-FLIGHT PLANNING)**



Penentuan Objektif Kerja

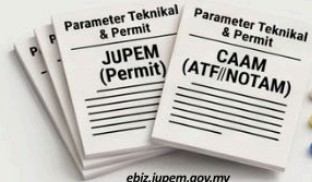
- Ortofoto
- DSM
- DTM
- Kontur
- Volume



Semakan Ruang Udara & Risiko



Aplikasi myCuaca / UAV Forecast



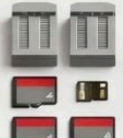
ebiz.jupem.gov.my
drone.atf@caam.gov.my

- Zon Terhad (Merah)
- Zon Amaran (Kuning)
- Altitude
- Overlap
- Sistem Koordinat (GDM2000/WGS84)

FASA 2 & 3: PENYEDIAAN PERALATAN & LAPANGAN



UAS



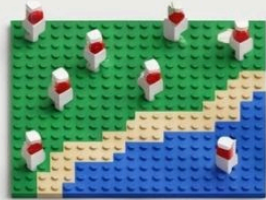
Battery Memory Card



Safety Equipment



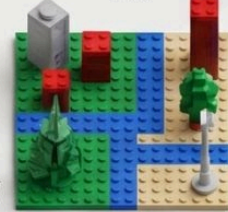
CAAM Licensed Pilot



Penandaan Titik Kawal Bumi (GCP)



GNSS Receiver (RTK/MyRTKNet/ PPK)



Tinjauan Tapak

- Bangunan Tinggi
- Pokok
- Tiang Komunikasi



Misi Penerbangan Automatik (Laluan Penerbangan Grid/Area/Linear Route)



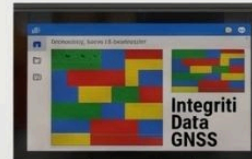
Pemantau Visual (Visual Observer)

PROSEDUR PENGOPERASIAN PEMETAAN UAS (DRONE MAPPING)

FASA 4: OPERASI PENERBANGAN (FLIGHT OPERATION)

Senarai Semak Pra-Penerbangan (Pre-Flight Checklist)

- Log Penerbangan UAS
- Butiran Juruterbang
- Model Pesawat
- Status Perkakasan



Semakan Data & Peralatan



Pemprosesan Data Digital

Aplikasi Pemprosesan Data



DJI Terra / Leica Infinity

Pix4DMapper / Agisoft Photoscan

Semakan Kualiti & Ketepatan



Nilai GSD



RMSE (Root Mean Square Error)



Peraturan Ukur Geomatik 2021



Ortofoto



Digital Surface Model (DSM)



Digital Terrain Model (DTM)



Pelaporan Rasmi