



KETENTUAN PENGOPERASIAN, PENGAWASAN, REGRISTASI, dan SERTIFIKASI DRONE DI INDONESIA

DIREKTORAT KELAIKUDARAAN DAN
PENGOPERASIAN PESAWAT UDARA

DIREKTORAT JENDERAL PERHUBUNGAN UDARA



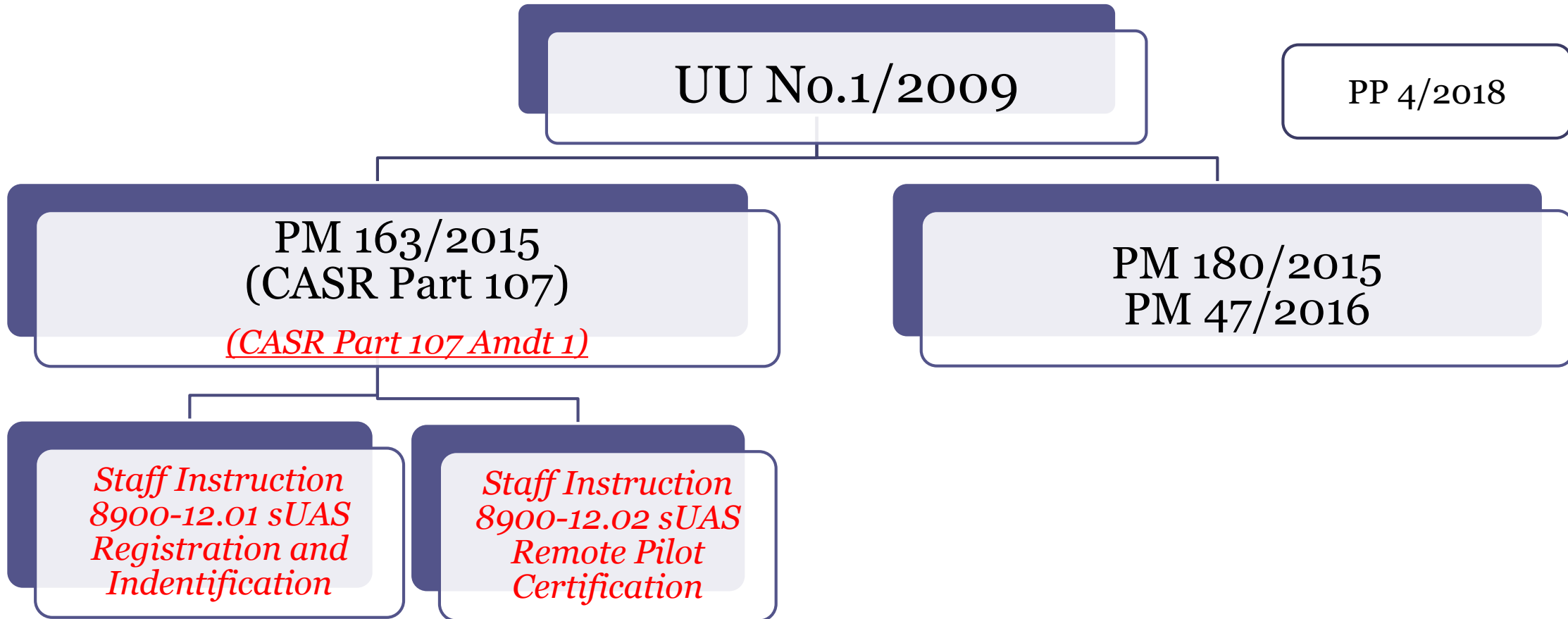
Indonesian Regulations

- UU No.1 Tahun 2009 tentang Penerbangan
 - Pasal 4 (a)
 - Undang-undang ini berlaku untuk semua kegiatan penggunaan wilayah udara...pesawat udara...di wilayah Negara Kesatuan RI
 - Pasal 308 (1)
 - Menteri bertanggung jawab terhadap keselamatan penerbangan nasional

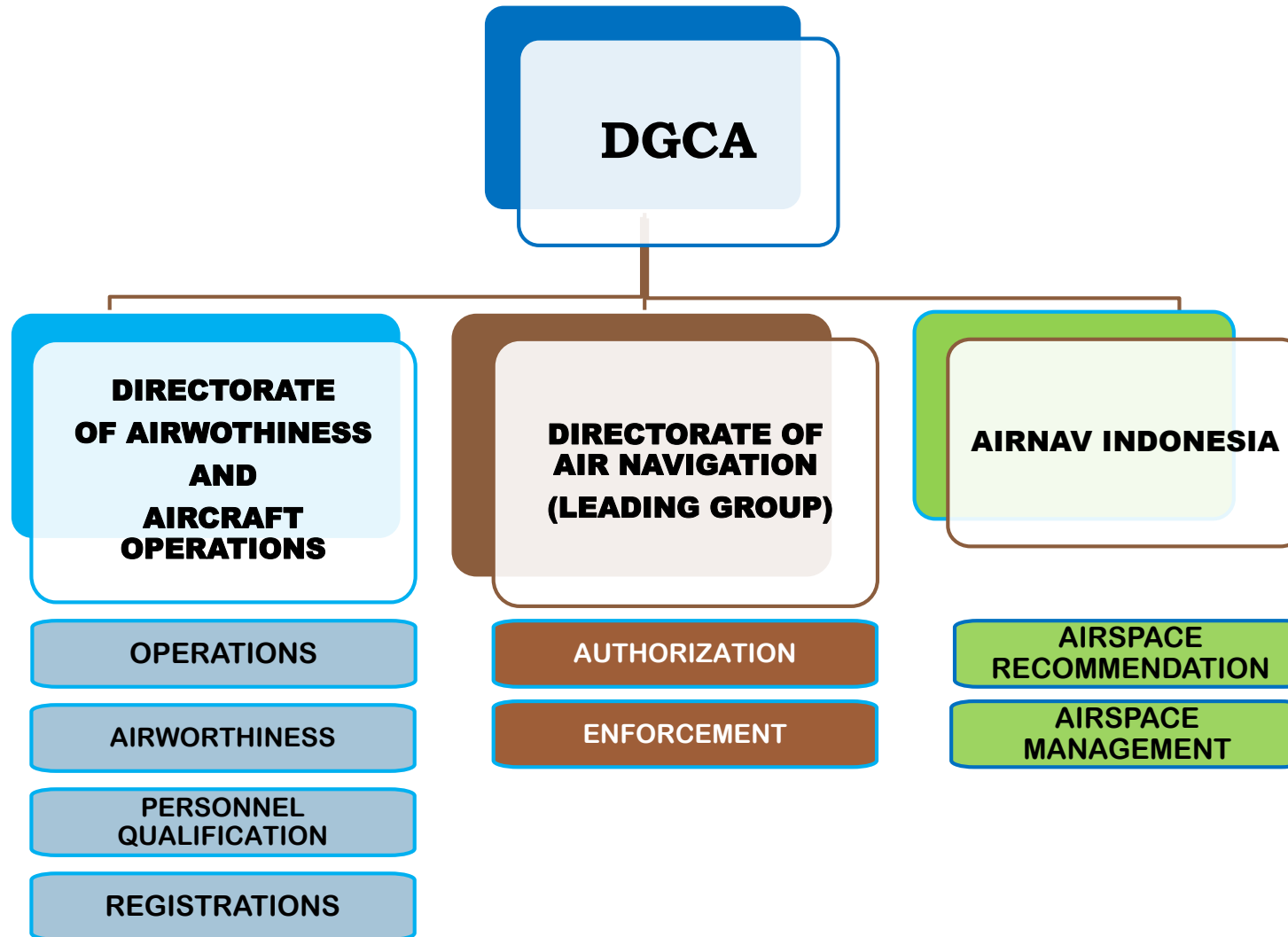
Usulan revisi UU No.1 Tahun 2009:

Menambahkan Bab VIII Bagian Kesembilan – Sistem Pesawat Udara Tanpa Awak.

Indonesian UAS Regulatory framework



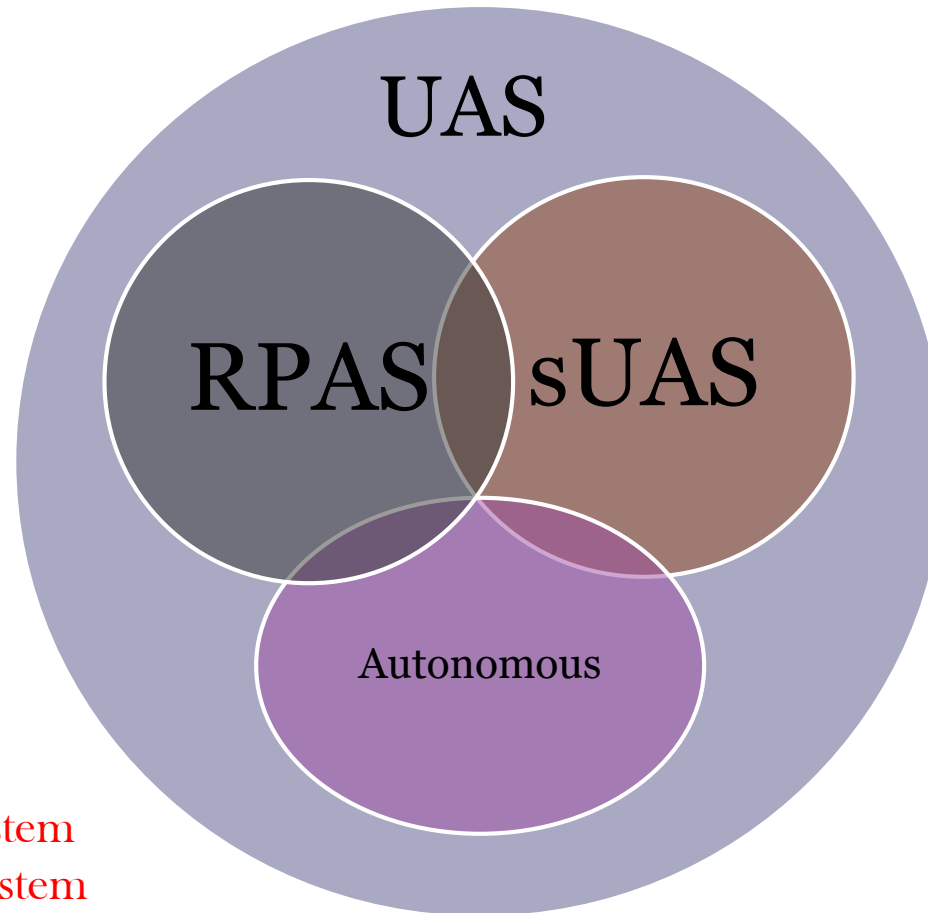
DGCA UAS MANAGEMENT



Scope of regulation

- Exclude State Unmanned Aircraft System
- Unmanned Free Balloons (CASR Part 101)
- Model / Hobby / Recreational Purpose (CASR Part 107; 107.2)
- Remotely Piloted Aircraft System (CASR Part 21)

Classification



Note :
Ref from ICAO Doc 10019
UAS = Unmanned Aircraft System
RPAS = Remotely Piloted Aircraft System
sUAS = Small Unmanned Aircraft System
Autonomous = An unmanned aircraft that does not allow pilot intervention in the management of the flight.

UAS Category

UAS		Operasi	Aturan	Output
≤ 55 Lbs	Small	Hobi & Rekreasi	Pasal 107.2 (CASR 107)	Community based
≤ 55 Lbs		Selain hobi & rekreasi	CASR Part 107	Operator Certificate, Registration Certificate
≤ 55 Lbs		Sesuai 21.25(b)	Pasal 21.25 (b)	Restricted Category
> 55 Lbs	RPAS	R&D, crew training, market surveys	Pasal 21.193 (CASR 21); 91.319 (CASR 91)	Experimental certificate C of A
> 55 Lbs		Production flight testing, new production aircraft	Pasal 21.199 (CASR 21); CASR 91	Special flight permit C of A

Operating Rules

- Hold UAS Operator / Remote Pilot
- UA must be registered
- Visual Line Of Sight (VLOS)
- Not operate in moving vehicle / aircraft
- Daylight Operation
- No multiple sUAS operation

Operating Rules

- No operation near aircraft
- No operation over people (unless direct participant)
- Certain airspace follow PM 180/2015 (Uncontrolled Airspace)
- Max speed operation ≤ 87 kt
- Visibility during operation ≥ 3 nm (4,8 km)
- Operation Altitude ≤ 500 ft MSL

UAS Operator / Remote Pilot

- WNI
- At least 17 Years Old
- English language (unless medical reason)
- Pass initial knowledge test
- Fit on physical or mental condition
- Recurrent knowledge test every 2 years

Small UA registration

- Not registered in other country
- Owned by Indonesian
- Evidence of ownership
- Insurance 3rd parties
- Importation into Indonesia have been paid
- Display identification dan registration marks

Applicable Guidance

Waiting approval:

- CASR Part 107 Amdt 01. “Small Unmanned Aircraft System”
- Staff Instruction 8900-12.01 “sUA Registration and Identification”
- Staff Instruction 8900-12.02 “Remote Pilot Certification”

On Process:

- Staff Instruction 8900-Xx.Xx “Specific Operation Risk Assessment”
- CASR Part 61 for RPAS Remote Pilot License
- Regulation on Remote Pilot Training Center



Update references

References:

- JARUS Recommendation for Operation Category A
- JARUS Recommendation for Operation Category B
- FAA FAR 107 “Small Unmanned Aircraft System”
- EASA NPA 2017-05 (b)
- ICAO Doc 10019 “RPAS”
- Draft ICAO APAC Guidance Material



https://imsis-djpu.dephub.go.id/portalDev/

80%



Kementerian Perhubungan
Republik Indonesia

Selamat Datang di Portal DKPPU

Welcome to DAAO Portal

Regulasi Terkini
Latest Regulations



Laporan Kinerja
DAAO Dashboard



Tentang DKPPU
About DAAO



Internal DKPPU
Internal Menu



Portal Operator & Stakeholder
Civil Aviation Org.



Koresponden Ditjen Hubud
DGCA Correspondent



Layanan Pengaduan
Complaint Service



Permintaan Informasi
Information Request



Registrasi Drone
Sign Up



Publikasi Data CAR
Civil Aircraft Register



Kerjasama International
International Cooperation



PUBLIC HEARING CASR 91, CASR 121, 135

[Lihat Selengkapnya →](#)



WORKSHOP PENCEGAHAN BAHAYA NARKOBA
DKPPU, BADAN NARKOTIKA NASIONAL (BNN) DAN POLDA METRO
JAYA MELAKUKAN KERJASAMA WORKSHOP PENCEGAHAN
BAHAYA NARKOBA

[Lihat Selengkapnya →](#)



**AIRWORTHINESS AND AIRCRAFT MAINTENANCE
PROGRAM WORKSHOP**

[Lihat Selengkapnya →](#)



UPSET PROTECTION AND RECOVERY TRAINING

[Lihat Selengkapnya →](#)



**TOWARDS CORSIA (CARBON OFFSETTING AND
REDUCTION SCHEME FOR INTERNATIONAL
AVIATION) IMPLEMENTATION**

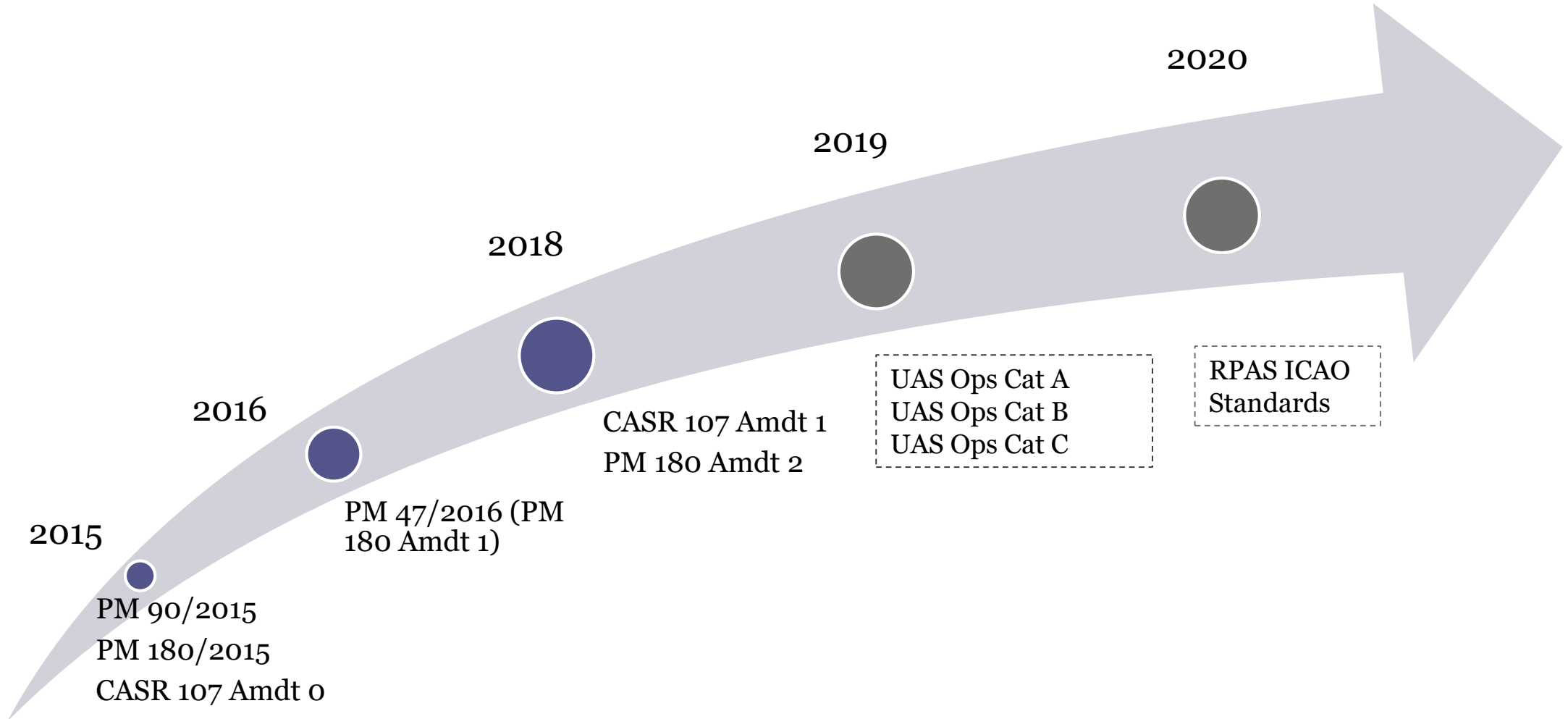
[Lihat Selengkapnya →](#)



**DGCA INDONESIA EFFORTS TO REDUCE CO2
EMISSIONS THROUGH ICAO CORSIA
IMPLEMENTATION**



ROADMAPS



Recommendations

- Need National Wide UAS Task Force with focus on areas:
 - Research and Development
 - Application and adoption in specific sectors
 - Development of the industry
 - Update regulatory framework
 - Security and safety aspects
 - Counter drone system
 - Unmanned Traffic Management
 - BVLOS operations
 - SIM card based technology for drone registration

THANK YOU

MANUFACTURERS



TERRESTRIAL IMAGERY & MAPPING



MARKETPLACE



PRECISION AGRICULTURE



INSPECTION & MONITORING



DELIVERY & TRANSPORT



ENTERTAINMENT



NON-AERIAL



NAVIGATION & AUTONOMY



AIRSPACE MANAGEMENT



MILITARY & DEFENSE



INSURANCE PROVIDERS

