

# Peran International Civil Aviation Organization (ICAO) sebagai Organisasi Penerbangan Sipil Internasional atas Pemanfaatan Sistem Pesawat Udara tanpa Awak (Drone) dalam Kegiatan Pengiriman Barang: Studi Kasus di Indonesia = The Role of the International Civil Aviation Organization (ICAO) as an International Civil Aviation Organization for the use of Unmanned Aircraft Systems (Drones) in Freight Forwarding Activities: A Case Study in Indonesia

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## Abstrak

Pemanfaatan sistem pesawat tanpa awak berupa drone kini telah berkembang di berbagai bidang, salah satunya bidang komersial yaitu penggunaan drone dalam kegiatan pengiriman barang. Beberapa negara di dunia telah membuat drone yang dapat digunakan secara eksplisit dalam kegiatan pengiriman barang ini dan telah mengaturnya dalam undang-undang nasional negara masing-masing. Hal ini mendorong ICAO sebagai organisasi penerbangan sipil internasional untuk berperan dalam memberikan regulasi terkait hal tersebut dan menyelaraskan aturan yang ada di beberapa negara agar tidak melanggar aturan mengenai keselamatan dan keamanan penerbangan secara umum. Berdasarkan penelitian yang telah dilakukan, penulis menemukan bahwa drone tidak terbatas pada bidang militer dan rekreasi. Drone telah berkembang menjadi sarana pengiriman barang di berbagai negara. Hal ini dikarenakan drone memiliki poin lebih dibandingkan bentuk transportasi lainnya. Namun, selain beberapa kelebihan yang ada, drone memunculkan beberapa permasalahan hukum terkait pengoperasian drone sebagai sarana pengiriman barang, yaitu terkait dengan keamanan dan keselamatan penerbangan secara umum. Sebagai otoritas tinggi yang mengatur penerbangan sipil dunia dan mengakomodasi perkembangan teknologi penerbangan yang semakin pesat berkembang menjadi komersial, ICAO telah memberikan model regulasi yang dapat digunakan negara-negara anggota sebagai acuan dalam penyusunan peraturan terkait hal ini di negaranya masing-masing. Indonesia sebagai salah satu negara anggota ICAO telah memiliki beberapa peraturan terkait pengoperasian sistem drone melalui beberapa undang-undang dan peraturan menteri terkait. Namun, Indonesia belum memiliki aturan yang komprehensif terkait pengiriman barang dengan menggunakan drone.

.....The use of unmanned aircraft systems in the form of drones has now developed in various fields, one of which is the commercial field, namely the use of drones in goods delivery activities. Several countries in the world have made drones that can be explicitly used in this goods delivery activity and have regulated this in the national laws of their respective countries. This has encouraged ICAO as an international civil aviation organization to play a role in providing regulations related to this matter and to harmonize existing rules in several countries so that they do not violate the rules regarding aviation safety and security in general. Based on the research that has been done, the authors found that drones are not limited to the military and recreational fields. Drones have developed into a means of shipping goods in various countries. This is because drones have more points than other forms of transportation. However, in addition to some of the existing pluses, drones raise several legal problems related to the operation of drones as a means of delivering goods, which are related to aviation security and safety in general. As the high authority that regulates world civil aviation and accommodates the development of aviation technology which is

increasingly rapidly expanding into commercial, ICAO has provided a regulatory model that member countries can use as a reference in drafting regulations related to this matter in their respective countries. Indonesia, as one of the ICAO member countries, already has several regulations related to the operation of drone systems through several laws and related ministerial regulations. However, Indonesia does not yet have comprehensive rules regarding drones delivering goods.