

Future of drones for EASA

Luc tytgat, Strategy and Safety Management Director, EASA Shaping an innovative regulatory framework September 2015

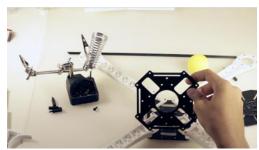
Your safety is our mission.



















From small consumer devices used for recreation to large aircraft





Operation centric



Risk based

• 3 categories: open, specific, certified



Commercial/Non commercial Whole weight range









OPEN:

Low risk

No involvement of Aviation Authority

Limitations: Visual line of sight, Maximum Altitude, distance from airport and sensitive zones

SPECIFIC

Increased risk

Operations
Authorisation with operations manual

Specific qualification of drone, personnel, equipment based on safety assessment

CERTIFIED

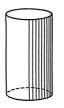
Regulatory regime similar to manned aviation

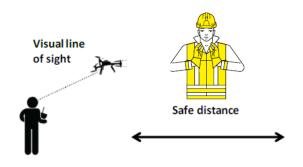
EASA and Authority
Certificates



"Open" category







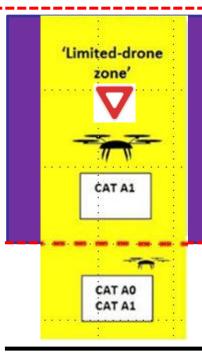


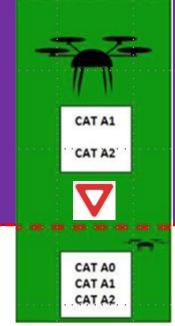
Never > 12



Α0	< 1 kg
A1	< 4 kg
A2	< 25 kg









Product safety directive

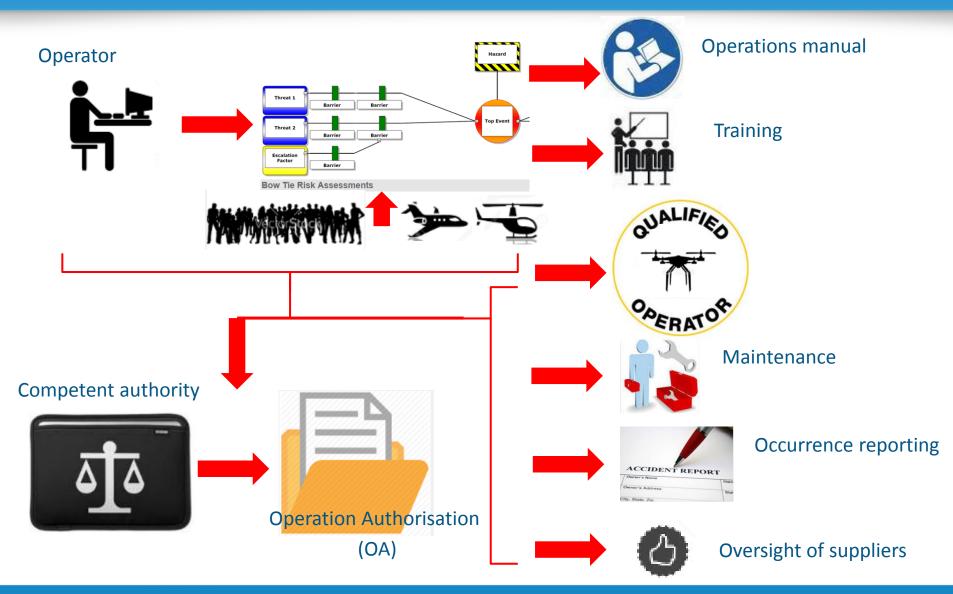
150 m





50 m







"Certified" category

Implementing rules included in existing rules for manned aviation

Drone and components

Type Certificates (Full / Restricted)

Certificates of **Airworthiness**

European Technical Standard **Order Approvals** (ETSO) (option)

Organisations

Design Organisation **Approval**

Production Organisation **Approval**

Maintenance Organisation **Approval**

Training Organisation **Approval**

Personnel

Licensed pilot

Remote Operator Certificate (ROC)

Certification **Specifications**

Safety Objectives

Complemented by **Technical Standards**

> Standard for Operational aspects

Standard for Licencing aspects



- ➤ Comments welcome up to 25th of September 2015:
 - http://hub.easa.europa.eu/crt/docs
- ➤ To reach out, a communication document (simplified version of the NPA) has been translated in all EASA languages:
 - http://easa.europa.eu/easa-and-you/key-topics/civil-dronesrpas
- ➤ Another ad-hoc meeting with Authorities Drone experts will be organised late October-Early November
- ➤ A "technical opinion" will be sent to the Commission in December



Thank you for your attention!

Advance Notice of Proposed Amendment available: http://hub.easa.europa.eu/crt/docs/viewnpa/id 312

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