



EASA
European Aviation Safety Agency

Future of drones for EASA

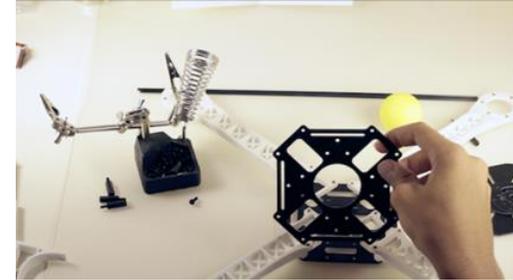
Shaping an innovative regulatory framework

Your safety is our mission.

An agency of the European Union 



What is a drone?



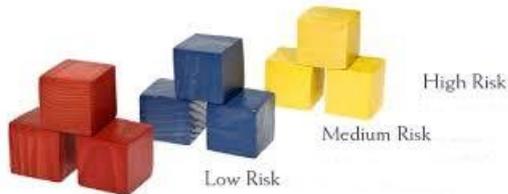
From small consumer devices
used for recreation to large aircraft



Pillars of proposed approach



Operation centric



Risk based

- 3 categories: open, specific, certified



Commercial/Non commercial
Whole weight range



3 risk categories



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

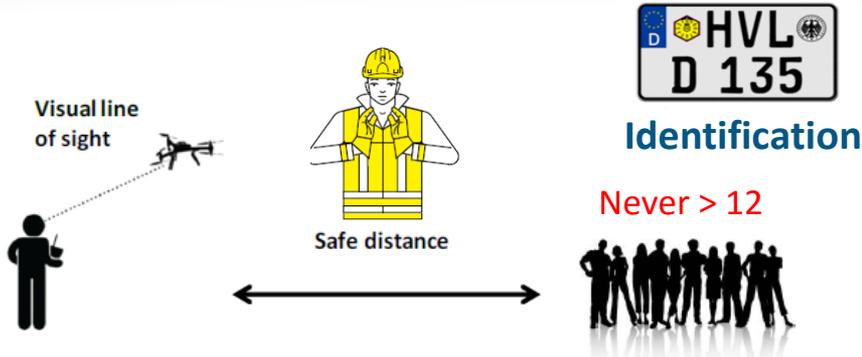
Regulatory regime
similar to manned
aviation

EASA and Authority
Certificates

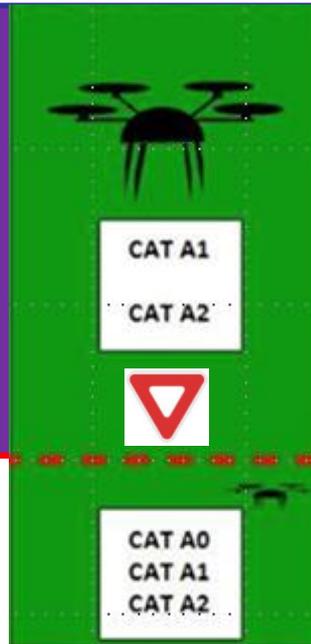
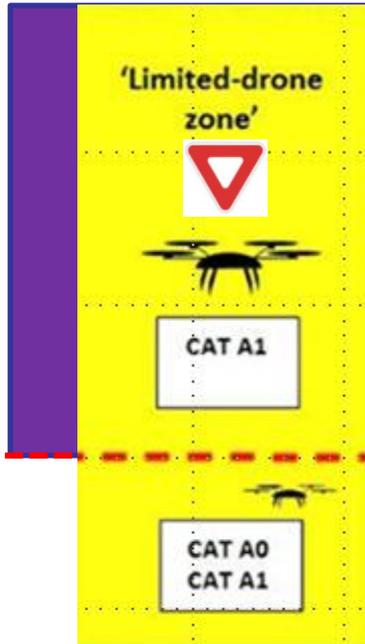


“Open” category

Geo-fencing



A0	< 1 kg
A1	< 4 kg
A2	< 25 kg



Product safety directive

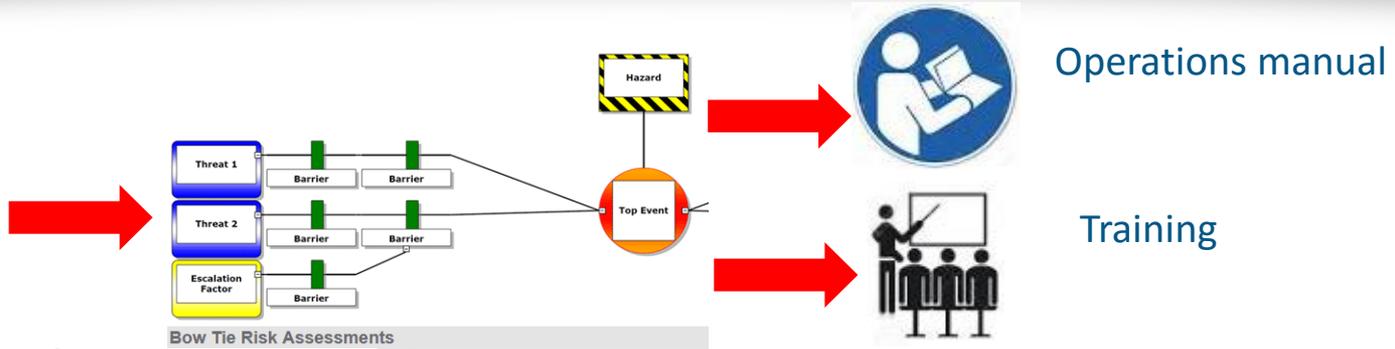


50 m



Specific category

Operator



Bow Tie Risk Assessments



Competent authority



Maintenance



Occurrence reporting



Oversight of suppliers





“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



Next steps

- 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-drones-rpas>
- 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



EASA

European Aviation Safety Agency

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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