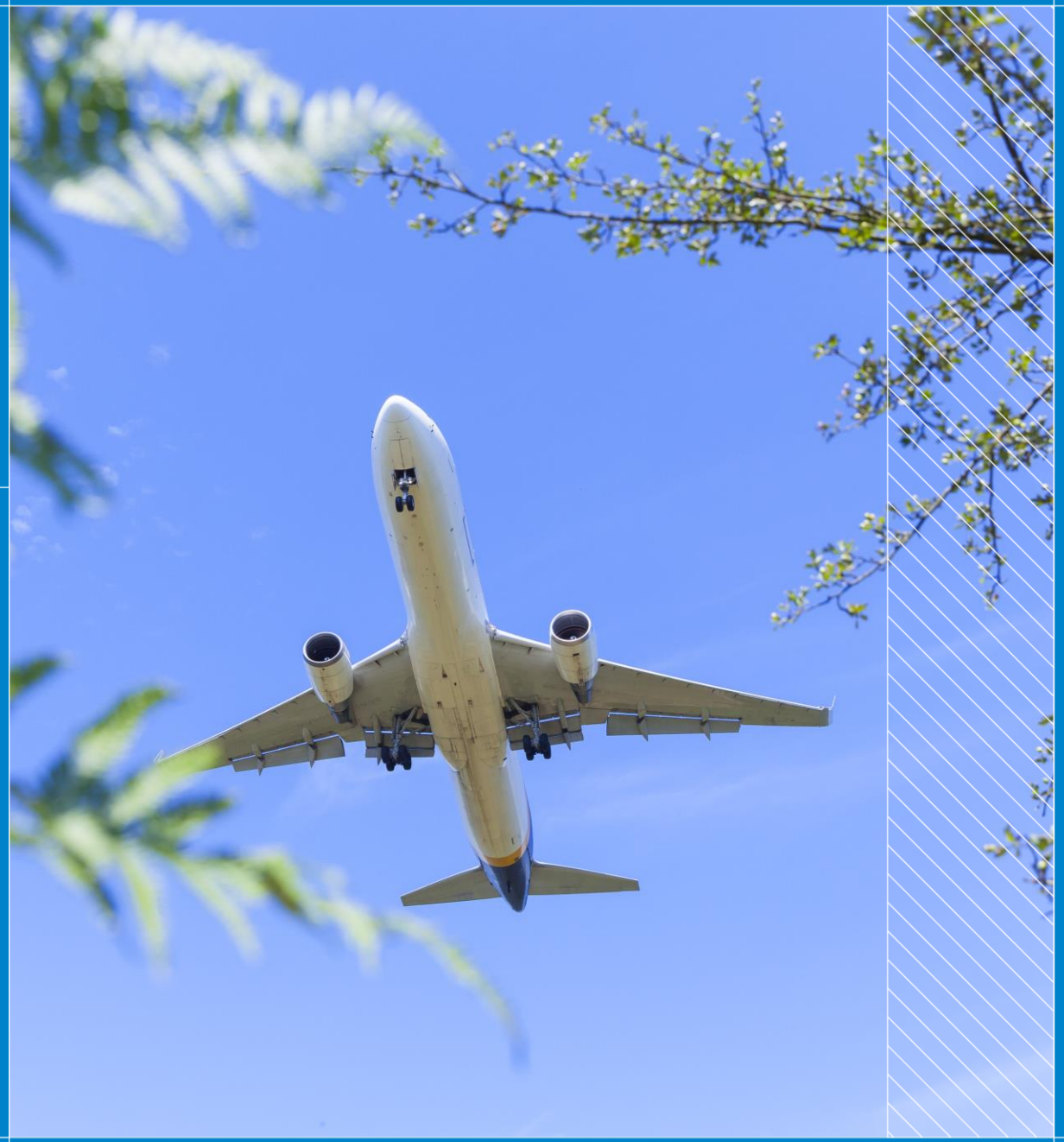
UAS operations

Natale Di Rubbo
Drone Project Manager

EASA
European Union Aviation Safety Agency



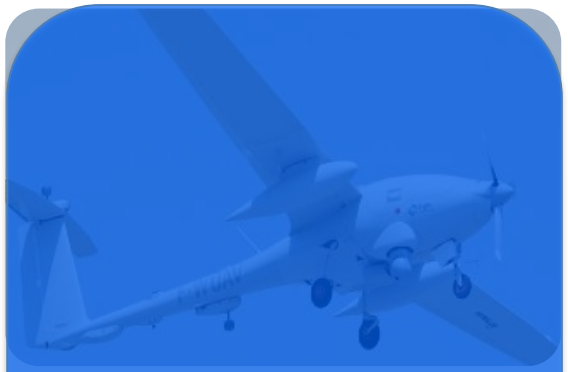
Operation centric, risk-based, performance based regulation

Commission Delegated Regulation (EU) 2019/945 (UAS technical requirements and third country operators)

&

Commission Implementing Regulation (EU) 2019/947 (Registration and operational requirements)

Applicable from 31 Dec 2020



First NPA in 2022

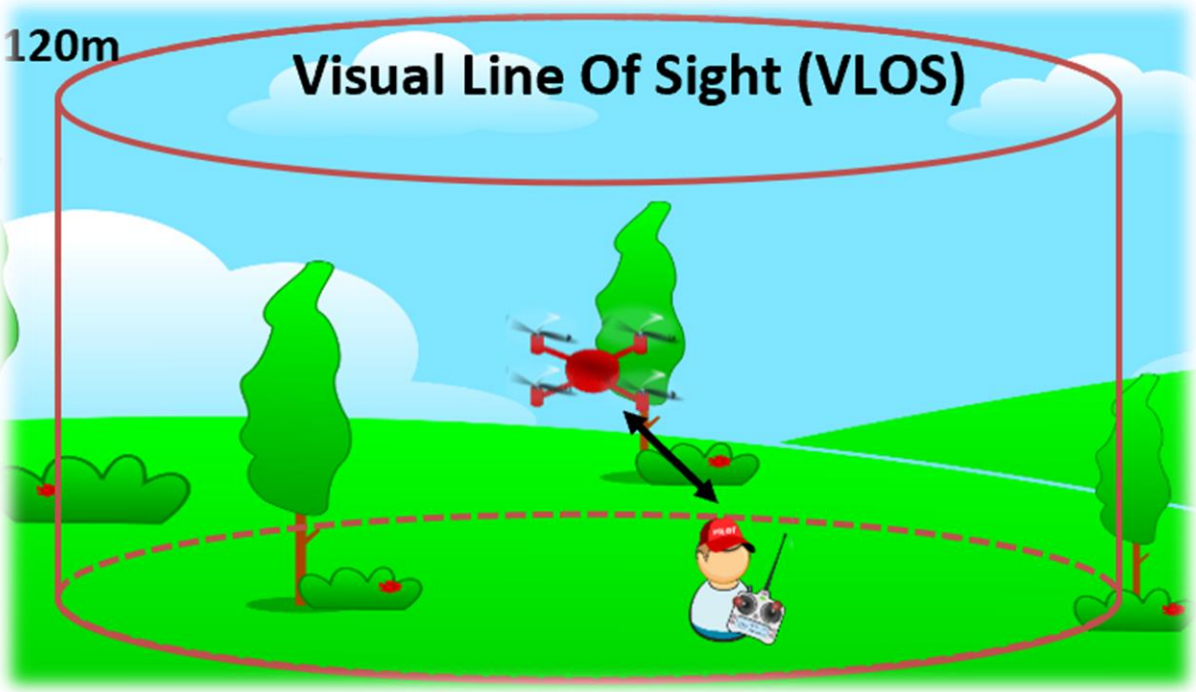
Certificate for the operator, for the UAS, and licensed pilot

Air Taxi
International IFR (cargo, passengers)
Package delivery over people

Open category

Prescriptive requirements

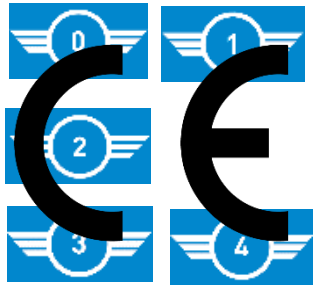
Buy → Register yourself → Train → Fly



- A1 fly over people
- A2 fly close to people
- A3 fly far from people

Privately built with MTOM<250g

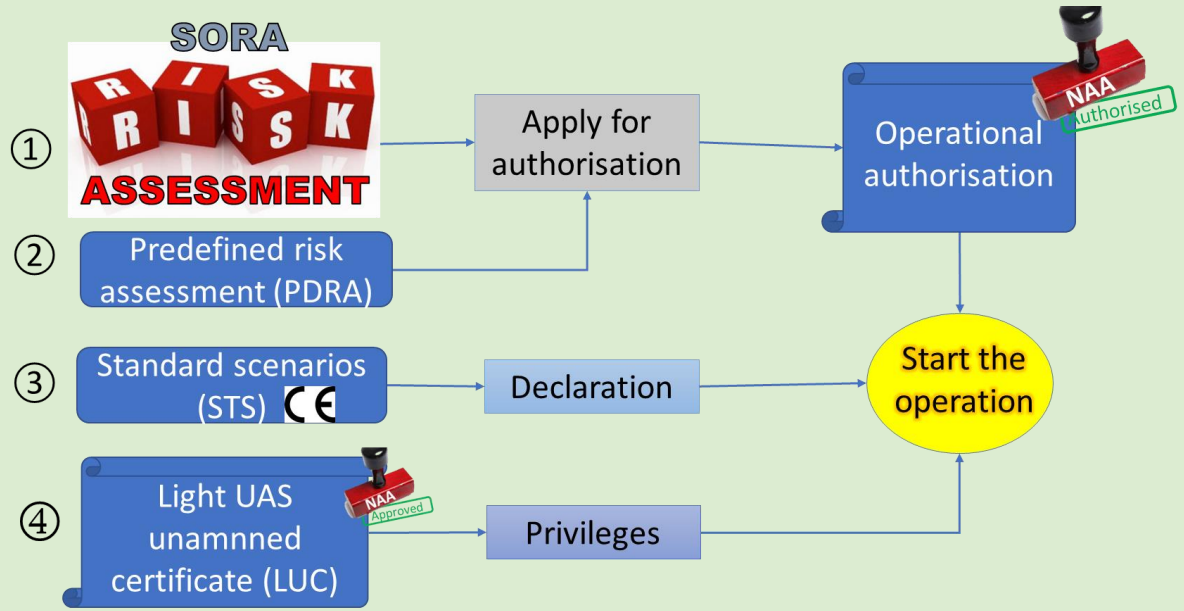
Privately built with MTOM<25kg



Specific category

Requirements based on the risk assessment performed by the UAS operator

Buy → Register yourself → Carry out risk assessment → Receive authorisation → Fly



Verification of the design of the UAS

Open category

Specific category

Depending on the risk

low risk

Or declaration

medium risk

high risk

European Aviation Safety Agency

Design verification report

Certified category


European Aviation Safety Agency

TYPE CERTIFICATE

EASA.E.210

This Type Certificate is issued by EASA, acting in accordance with Regulation (EC) No. 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation and in accordance with Commission Regulation (EC) No. 748/2012 to

Part 21

and certifies that the product type design stated below complies with the applicable Type Certification Basis and environmental protection requirements when operated within the conditions and limitations specified on the associated

Type Certificate Data Sheet number: EASA.E.201

Tye Design - Model:

Date of Issue:

09 November 1988

Certification basis:

- **SC Light UAS**

  or

- **CS- x complemented by future CS UAS**

The design verification report

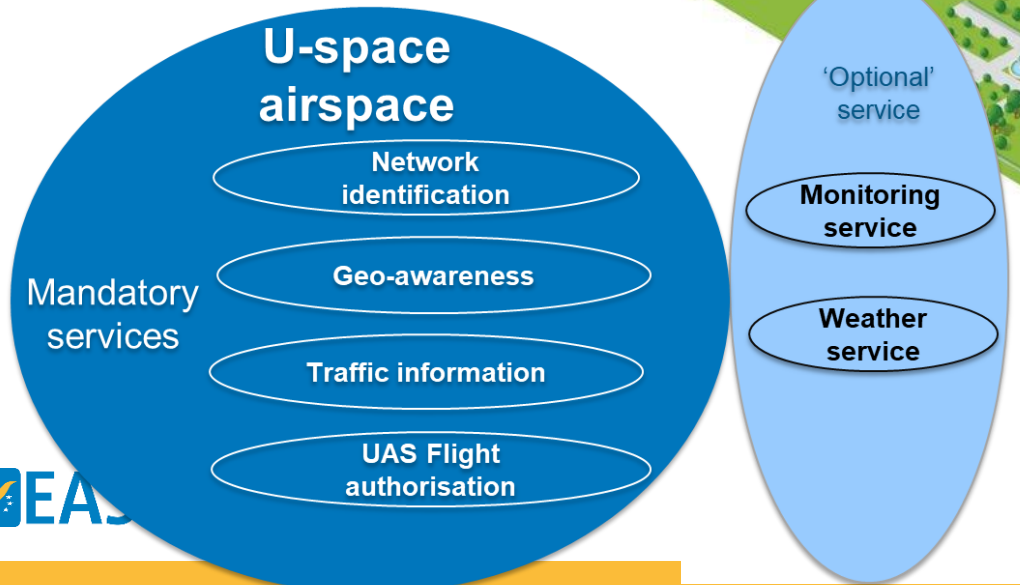
- Who can apply: Any natural or legal person capable to demonstrate design compliance of the UAS, mitigation means, containment (as applicable)
- May cover one or more of the following:
  - mitigation means linked with the design;
  - enhanced containment function
  - full design of the UAS
- EASA will publish the list of design verification reports (with main data, similar to STC list)

Design Verification Report is a not a type certificate – recognition only inside EASA MSs (at least for the initial phase)

The U-space

Applicability date 26 January 2023

Airspace where some services are provided.



RMT.0230 – Industrial developments

Specific category
Medium risk

BVLOS in corridors

Manned UAM
Type#3 operations

Certified category
Type#1 IFR cargo

2020

2025

2030

2035

BVLOS free routing in a network

Specific category
High risk

Certified category
Type#2 operations
Unmanned UAM

Next rulemaking activities

Specific category
AMC/GM Low-medium risk

NPA

Decision

Guidelines

U-space
AMC/GM

NPA

Decision

Specific category
High risk

Manned UAM
Type#3 operations

NPA #1

Opinion #1

Certified category
Type#2 operations
Unmanned UAM

Certified category
Type#1 operations
IFR cargo

NPA #2

Opinion #2

EASA
European Union Aviation Safety Agency

THANK YOU