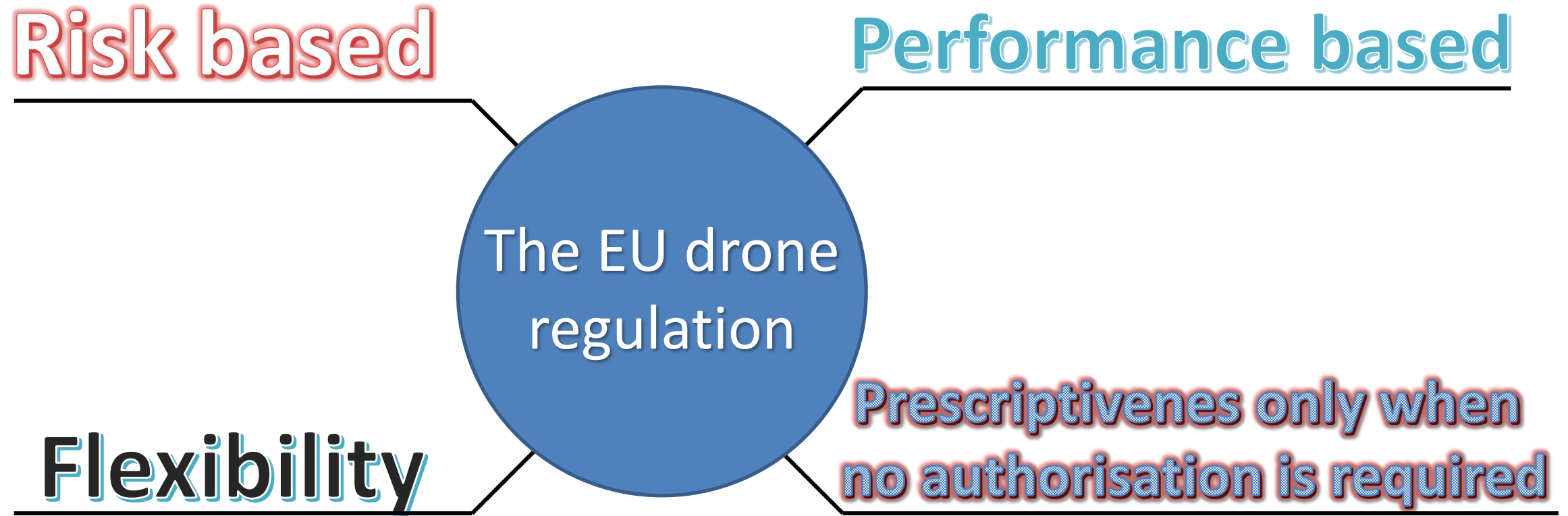


Update on EASA Drones Programme

Maria Algar Ruiz
EASA Drones Programme Manager



The EU drone regulation – main principles



Fundamental change compared to classical manned aviation:

a drone may crash if operated in areas with low risk

UAS categories

Open



**PRESCRIPTIVE
APPROACH**

Specific



SORA

Certified



[Regulation \(EU\) 2019/945](#) (technical requirements and third country operations)

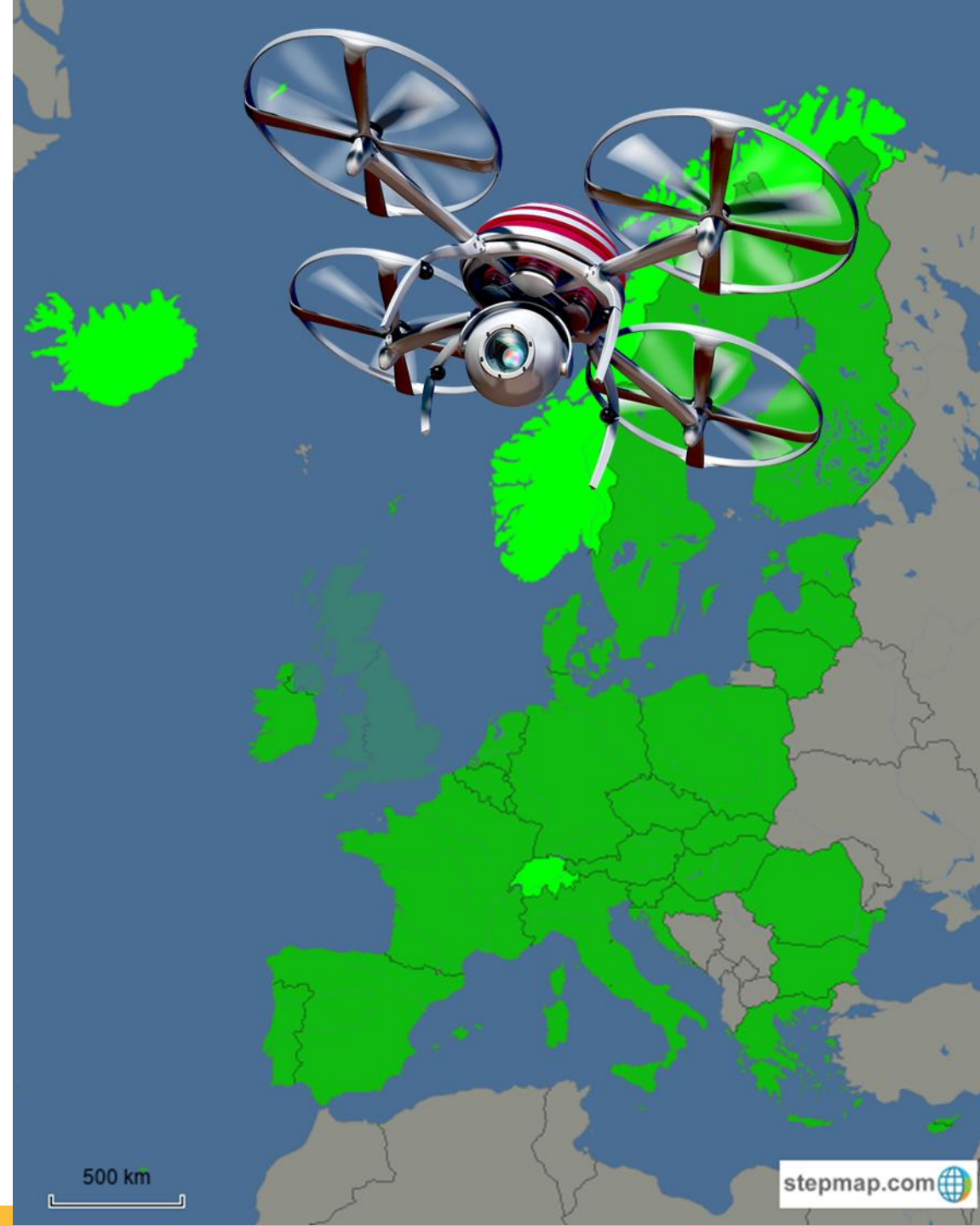


[Regulation \(EU\) 2019/947](#) (registration and operational requirements)

[NPA 2022-06](#) in consultation
until 30/09/2022

EU drone regulation applies since 31 December 2020

- EASA states: EU States + Switzerland, Iceland, Lichtenstein and Norway
- Operator registration valid in all EASA states (operators must register in MS of residence/main place of business and cannot register twice)
- Operational authorisation issued by EASA state of registration is valid in all other states (cross border procedures applies)
- Remote pilots may train and get a certificate in any EASA states

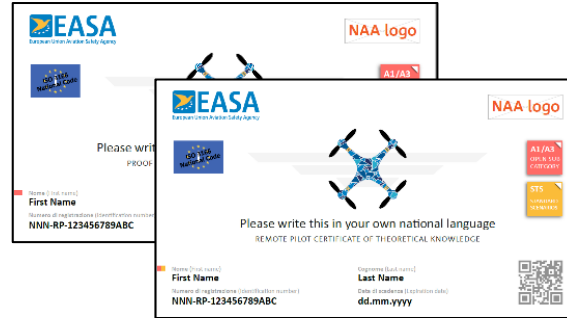


Statistics as of 30 June 2022



Registered UAS
operators:

975,213



Remote pilot certificates
issued:

652,848

(updated on 31 dec 2021)

LUC

Light UAS operator Certificates
issued

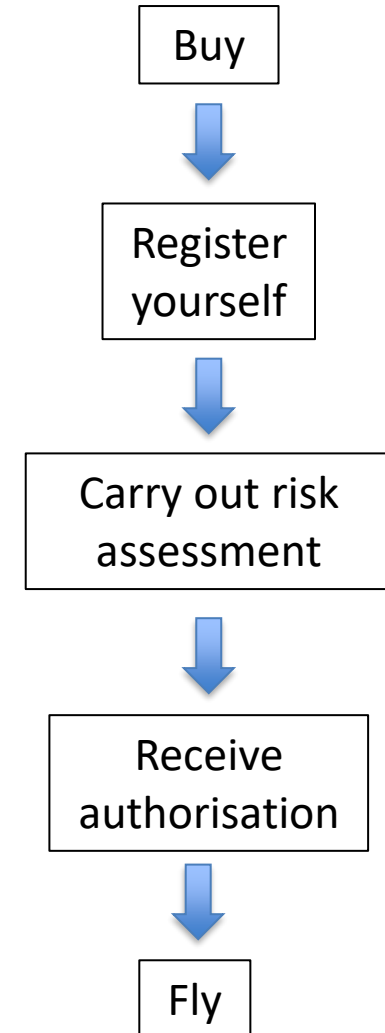
12



Active operational
authorisations issued
using SORA:

2044

Requirements based on the risk assessment performed by the UAS operator



U-space

WHY ?

- to enable fair and efficient sharing and use of the airspace
- to enable dense drones operations
- to enable complex and long distance UAS operations (BVLOS)
- to enable operations in urban environment
- to ensure safe separation between manned aircraft and drones
- to ensure safe flights and operations of drones in the airspace

Volume of airspace



Geographical zone designated by the Member State on the basis of a risk assessment and considering safety, security, environment and privacy

Information exchange

DIGITAL distribution of information and data relying on conventional internet services
Automated exchanges with limited human involvement

A set of services



e-conspicuity



Industrial developments

Specific category

Medium risk

BVLOS in corridors



(EU)2019/945
(EU)2019/947

2020

Manned IAM

Type#3 operations



NPA#1
2022/06
NPA#2

2025

Certified category

Type#1 IFR cargo



NPA#2

2030

BVLOS free routing in a network



Specific category

High risk

NPA#1
2022/06



Certified category

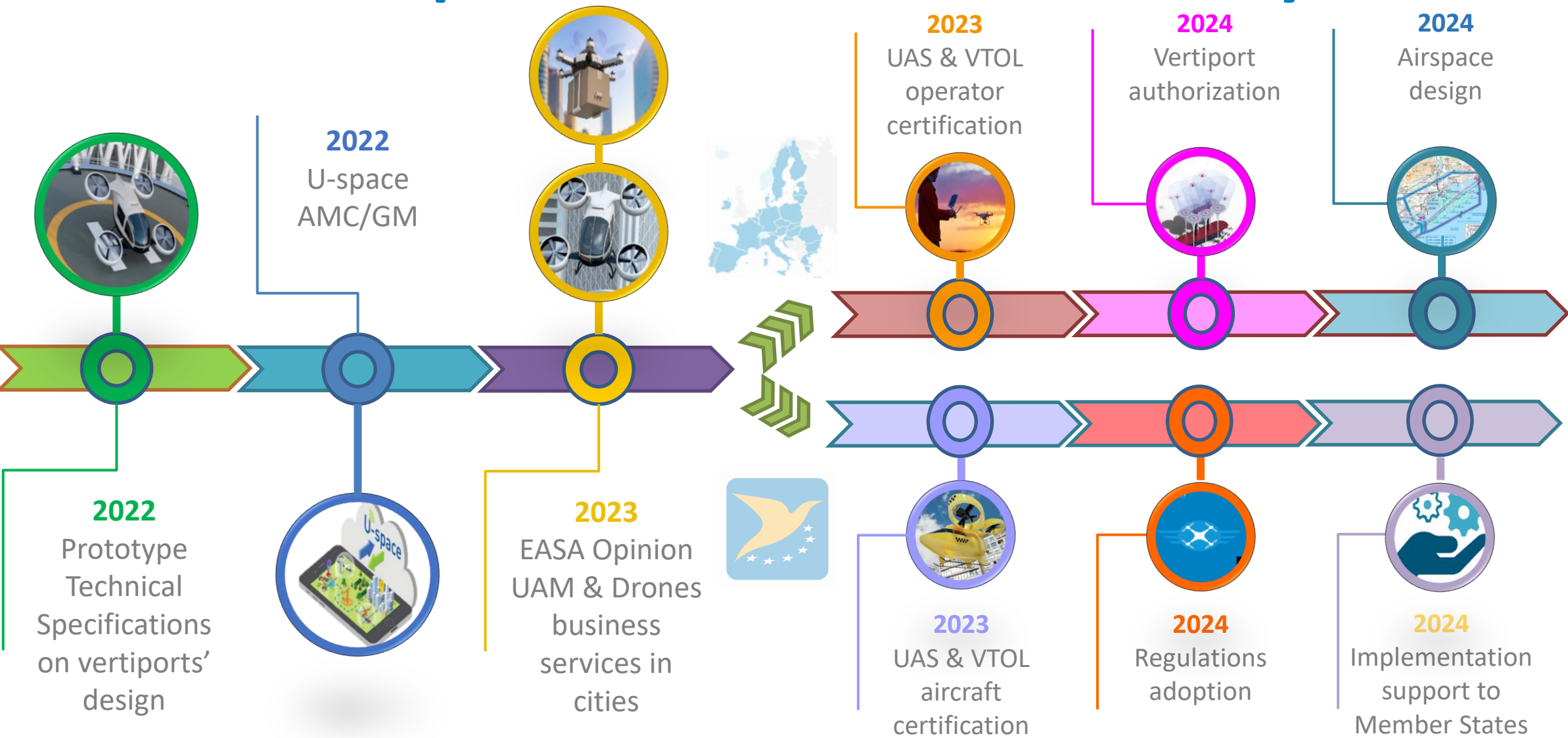
Type#2 operations

Unmanned IAM

NPA#3

2035

EASA roadmap to Innovative Air Mobility



A proposal at European level

Innovative Aerial Services

Aerial

Innovative Aerial Services

*The set of operations
and to the aviation*

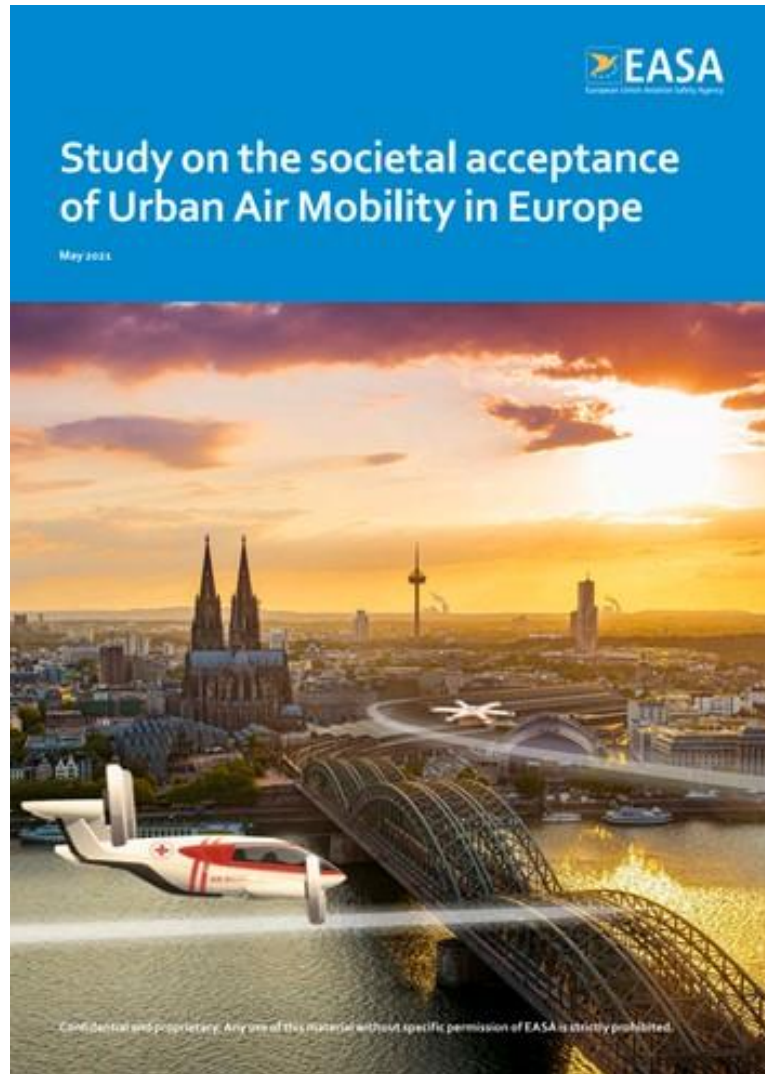
Innovative Air Mobility

*The safe, secure and sustainable **air mobility** of passengers and
cargo enabled by new generation technologies integrated into a*

Urban Air Mobility

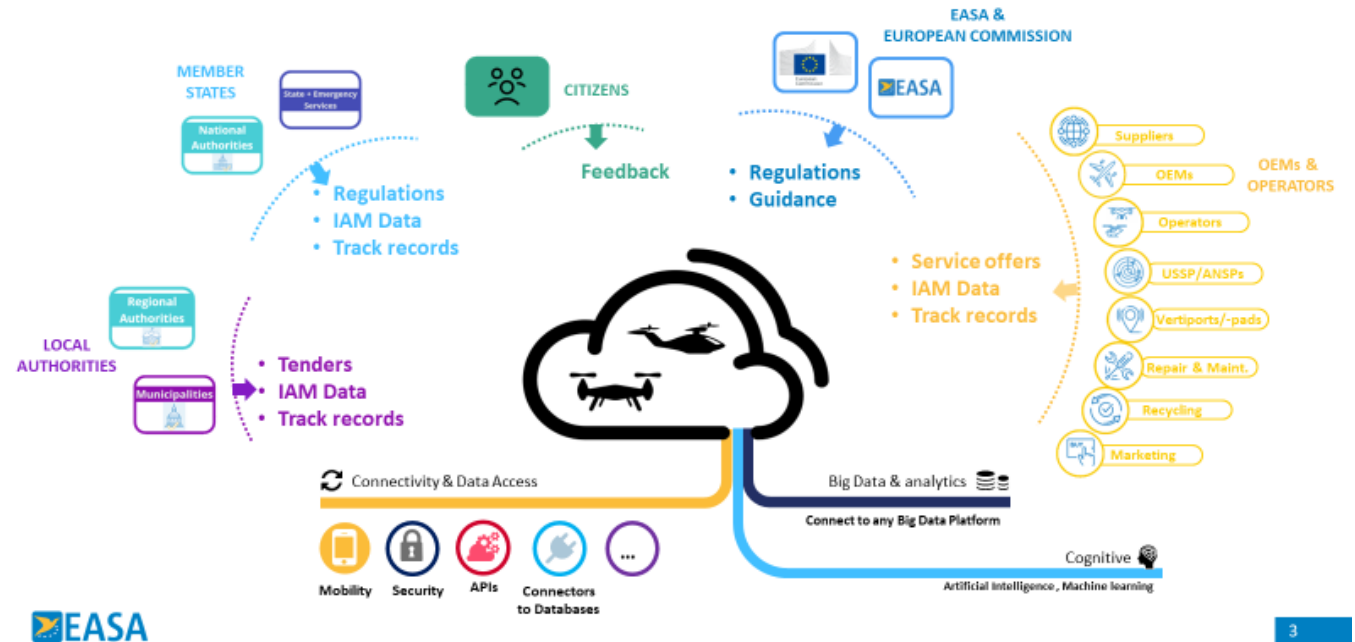
*The subset of IAM operations conducted **into, within or out of urban
environments***

Importance of societal acceptance



Sustainable IAM Hub

One platform that connects the entire eco-system



3

Critical IAS enablers EASA is working on

Airworthiness, Aircraft Certification and Maintenance

eVTOL and UAS

Support and coordination with Member States

National initiatives, regulatory sandboxes

Airspace Architecture and Integration

U-space, C2-Link, Detect-and-Avoid, iConspicuity

Uncooperative and malicious Drones

Counter-UAS Action Plan

Civil-Military Coordination

Dual-use Drones, ATM Integration

Training and Simulation

Virtual & Augmented Reality

Novel Technologies

Flight Controls, Avionics, Propulsion, Energy

Digitalisation

Artificial Intelligence, Autonomy, Cybersecurity

Support to implementation of regulations

Standardization activities, Task Forces

International Cooperation

Harmonised Technical Standards, Research, Demonstrations

Vertiports

Technical Specifications and Navigation Aids

Air Operations

Operating Rules, Operator certification

Personnel training and licencing

Operators, eVTOL Pilots, Remote Pilots

Fostering collaboration and societal acceptance

Sustainable IAM Hub



Europe & Innovative Aerial Services

- Europe - EASA, European Member States together with the European Industry - has been developing IAS and IAM for several years
- This effort has led to develop a **realistic** and **implementable concept of operations** encompassing all the various aspects, including the social acceptance
- The concept comes with an existing set of regulations and guidance that will enable IAS and IAM implementation in the years to come
- EASA is eager to share all this information for consideration for the development of the deliverables of the ICAO and other States Civil Aviation Authorities

Thank You!



easa.europa.eu/connect



Your safety is our mission.

An Agency of the European Union 



Your safety is our mission.