

U-Space development: What's next?

DG MOVE E4 ERRIN 11 April 2019





What to regulate - some basics





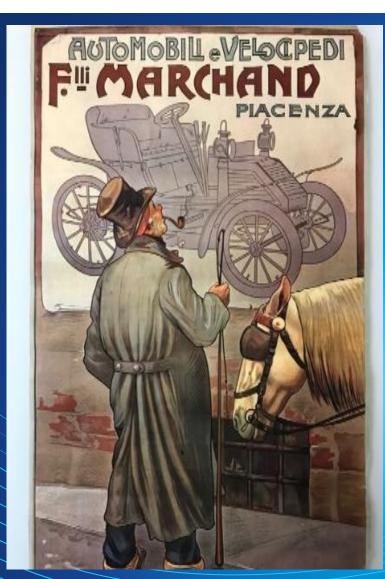


- ➤ Drones = combination of technologies that drive **automation** especially smart phone features (battery, autopilot, sensors...).
- Digital technologies develop FAST





Disruptive





... and fast

Easter morning 1900: 5th Ave, New York City. Spot the automobile.



Source: US National Archives.

Easter morning 1913: 5th Ave, New York City. Spot the horse.



Source: George Grantham Bain Collection.



The regulatory framework





	Drone rules	Drone airspace rules	U-Space
	(Airworthiness, Competence, Operations)	(Types of airspace and modalities)	(Access to airspace)
Principles	EP and Council EASA regulation 11/09/2018	EP and Council EASA regulation YES	EP and Council EASA regulation YES
Implementing rules	Drone operating Regulations May 2019	Rules of the Air Mid 2020	U-Space Regulation Mid 2020
Compliance	Standards / AMC	Standards / AMC	Standards / AMC
	Operation Centric Approach	Adapt to local characteristics	Fair access to airspace

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Mobility and Transport



Drones extend the aviation scope









- > EU rules reflect "Operation centric approach"
 - Open category: buy and fly strict limits
 - Specific category: assess the risk
 - Certified category: traditional certifictaion



CREATING A DRONE SERVICES MARKET: allow more complex operations

What's next? U-Space!

- Work towards more complex operations...
- Keep operations safe, secure & green
- Integrate the urban dimension....





What is the problem?

➤ Take a leap:

Now – by 2035:

30k flights - 20k flights

in EU - over 1 city

per 24 h - per 1 h



We need a digital system automating air navigation service provision





What is the solution? U-Space!

A digital system
Providing services



In a designated volume of airspace

To keep operations safe/secure/green/privacy

Objective: create a competitive U-Space services market

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Mobility an Transport



How wants Europe deliver the U-Space?



EC: make policy and adopt rules

EASA: prepare rules

SESAR: learn from R&D projects

EUROCONTROL: build on operational expertise

EU «Family»: together contribute to the European U-Space Demonstrator Network to speed up the drone services market



Who would be the U-SPACE service providers?



- Aviation players
- New tech companies









Concrete next steps? A U-SPACE Regulation

- Learn from expertise in EU Network
- & demonstrators
- Elaborate EASA opinion by end 2019
- Adopt a U-Space Regulation in 2020





Thank you Grand merci Danke schön Muchas Gracias

Brussels, 11 April 2019

