

Preparing a new era Drones and U-Space: Where is the EU going?

European Commission
EASA draft Opinion workshop
11 October 2019



CREATING SINGLE 'DRONE AND U-SPACE' SERVICES MARKETS

**OBJECTIVE OF THE COMMISSION:
KEEP DRONE OPERATIONS
SAFE
SECURE
GREEN
RESPECTING PRIVACY**



@Bulc_EU

Mobility and
Transport

CREATING SINGLE 'DRONE AND U-SPACE' SERVICES MARKETS



Making a drone service business now

Put regulatory framework in place

➤ First piece of puzzle...

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REGULATIONS

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- * Commission Delegated Regulation (EU) 2019/946 of 12 March 2019 supplementing Regulation (EU) No 513/2014 of the European Parliament and of the Council with regard to the allocation of funding from the general budget of the Union to cover the costs for the development of the European Travel Information and Authorisation System 41
- * Commission Implementing Regulation (EU) 2019/947 of 24 May 2019 on the rules and procedures for the operation of unmanned aircraft⁽¹⁾ 45

DECISIONS

- * Political and Security Committee Decision (CFSP) 2019/948 of 29 May 2019 on the appointment of the EU Mission Force Commander of the European Union military mission to contribute to the training of the Malian Armed Forces (EUTM Mali) and repealing Decision (CFSP) 2018/1791 (EUTM Mali/1/2019) 72
- * Commission Implementing Decision (EU) 2019/949 of 5 June 2019 excluding from European Union financing certain expenditure incurred by the Member States under the European Agricultural Guarantee Fund (EAGF) and under the European Agricultural Fund for Rural Development (EAFRD) (notified under document C(2019) 3981) 74
- * Commission Implementing Decision (EU) 2019/950 of 7 June 2019 amending the Annex to Implementing Decision 2014/709/EU concerning animal health control measures relating to African swine fever in certain Member States (notified under document C(2019) 4357)⁽¹⁾ 97

⁽¹⁾ Text with EEA relevance.

How to accommodate new demand?

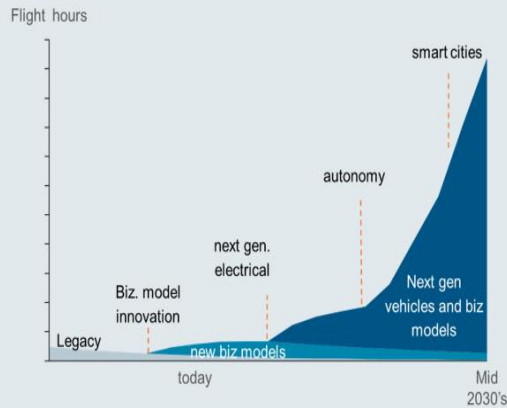
Diversity



Emergency Response, Humanitarian Aid & Disaster Relief, Conservation, Bird Mitigation Disease Control, Defense, Healthcare, Agriculture, Weather Forecasting, Maritime, Waste Management, Energy, Mining, Construction Planning, Infrastructure Development & Inspection, Insurance, Realty, Urban Planning, Personal Transportation, Airline Inspection, Telecommunications, Internet Access, Outdoor Industry, Tourism & Hospitality, Live Entertainment, Sports, Film Industry, Advertising, Retail Delivery, Manufacturing & Inventory Management, Law Enforcement, Fitness, Food Services Industry, Journalisms & News Coverage, Gaming, Space, Education, Security, Search & Rescue

We're taking an integrated approach to bring innovation to the sky

A strong market need



Technology



Manageable projects



An ecosystem approach engaging with partners and authorities early on



U-Space – what's next?

Where was U-Space in 2018?





U-Space – what's next?

Where are we now?

From ideas to concrete text

CREATING SINGLE 'DRONE AND U-SPACE' SERVICES MARKETS

Single competitive market
Operator perspective
Segregation ATM – U-Space
Phased approach to deal with safety
Plug & play
M2M system
Automated Flight Rules
Standard equipment
Societal concerns



CREATING SINGLE 'DRONE AND U-SPACE' SERVICES MARKETS

Market dimension?

Art. 1: air traffic in U-Space

Art. 4.2: U-Space responsible

Art. 5: CIF not related to USSP

Art. 6: USSP platform

Art. 8.2: operator choice

U-Space – what's next?

Build a Chinese wall....



U-Space – what's next?

... with a communication tube...



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Phased development...

Art. 4.1: Designation

Art. 4.5: Safety assessment

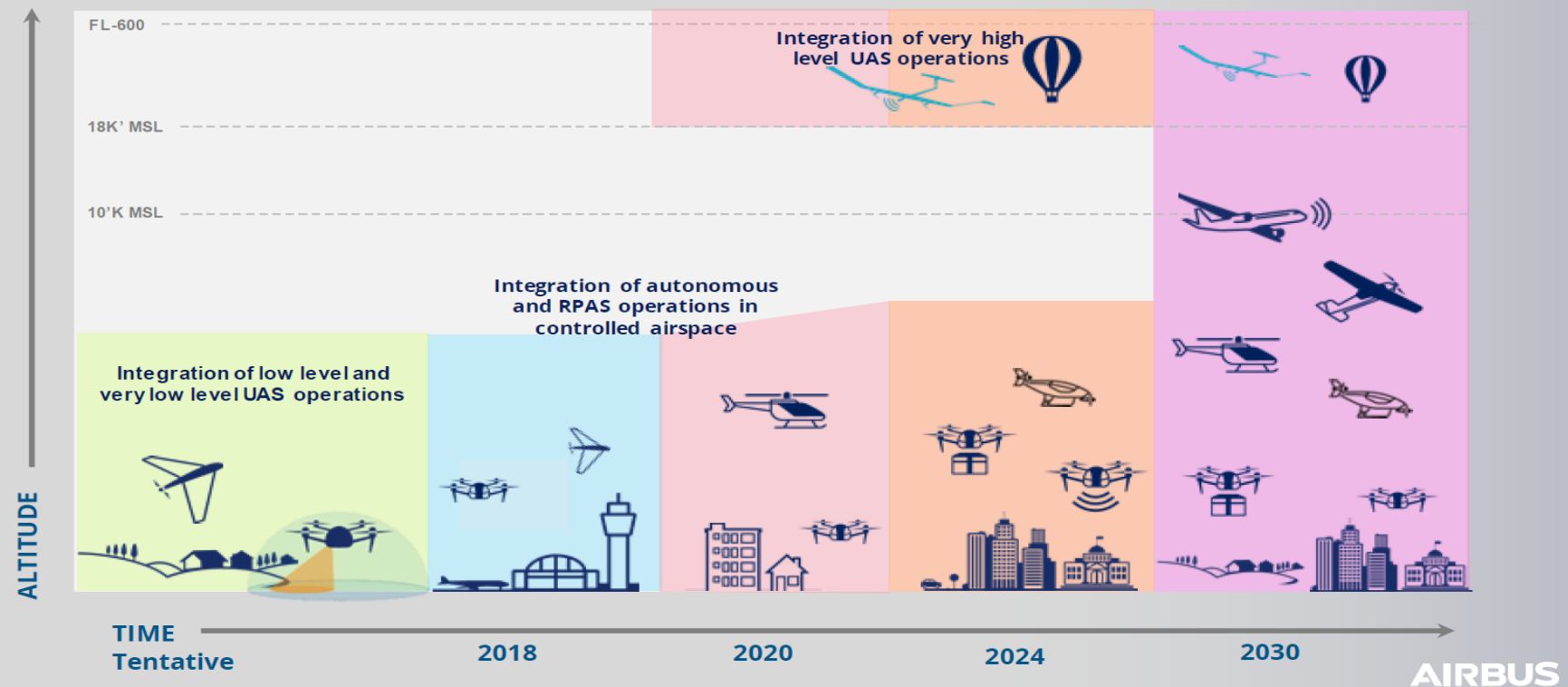
Art. 10: quality of services



U-Space – what's next?

How will the aviation market look like?

A fully integrated sky



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What about manned...

Art. 1: Manned + unmanned

Art. 4.1: Designation

Art. 4.3: Restricted airspace

Art. 9: Operator requirements

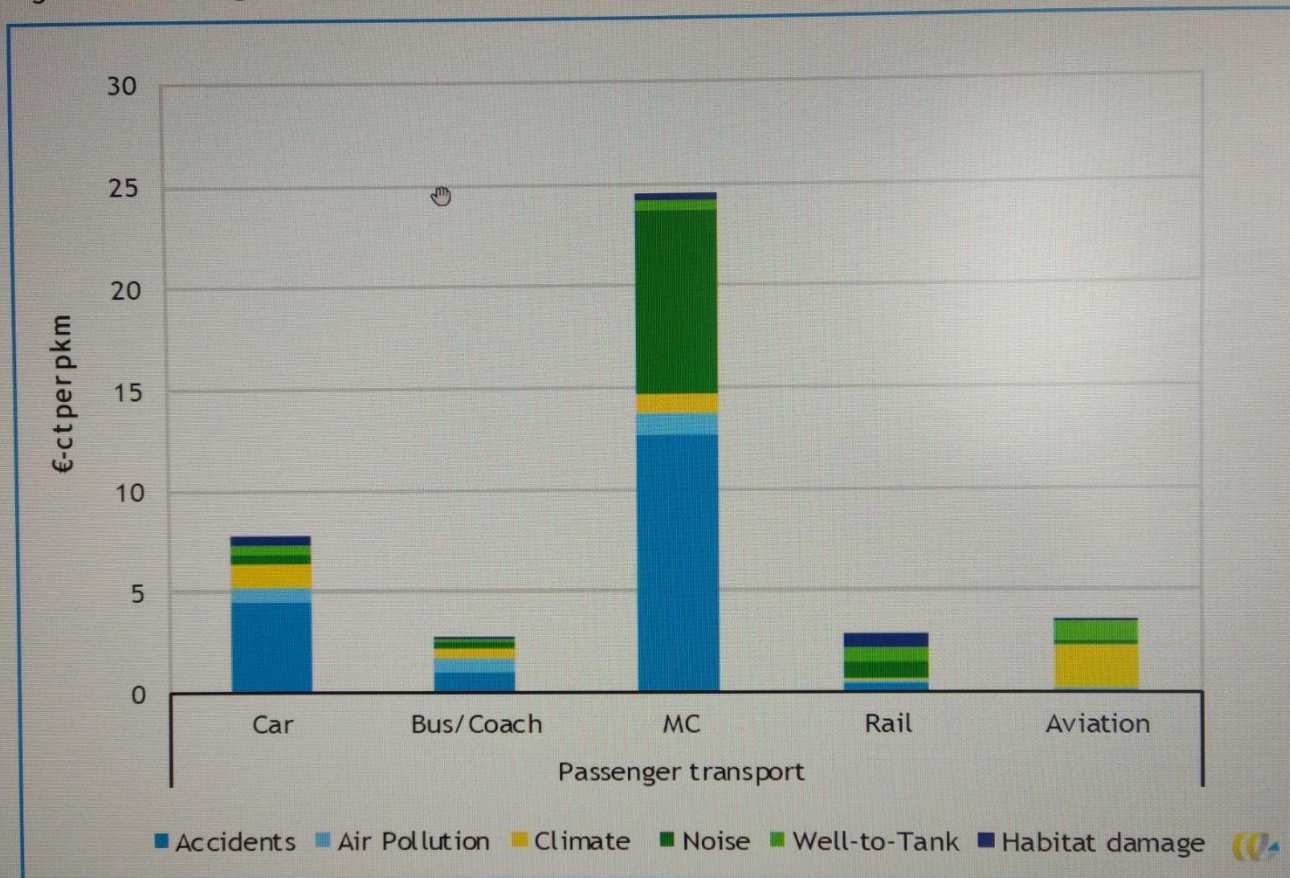
Art. 7: Priority rules



U-Space – what's next?

Drones are digital & green

Figure 11 - Average external costs 2010 for EU28 passenger transport



Note: The figures for aviation are averages for selected EU28 airports.

CREATING DRONE SERVICES AND U-SPACE SERVICES MARKETS

**Great progress
Much work to do!**

1 + 1



Danke schön
Thank you
Grand merci
Grazie mille
Muchas Gracias

Cologne 11 October 2019