Understanding how the new U-space will enable the safe integration of drones in the European airspace

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- It will enable a safe integration of drones and manned aircraft in Europe from 2023.

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**Colour codes for geographical zones**

Member States are recommended to use these colour codes to symbolise their Geozones on maps:

- **UAS operations are prohibited in general.**
- **UAS operations are limited and are subject to fullfilment of set of conditions imposed for relevant zones.**
- **UAS geographical zones, which facilitate operations in all categories.**
- **U-Space airspace.**

**U-space Service Providers (USSP) services**

- **UAS Flight authorisation.**
- **Geo awareness.**
- **Network e-identification.**
- **Traffic info.**
- **Weather info.**
- **Conformance monitoring.**
**The U-Space system**

It will include: U-space airspace, Common Information Services (CIS), U-space Service Providers (USSPs), UAS operators, ANSPs, Competent and other relevant authorities

Four basic U-space services will be provided:

- Network e-identification
- Geo-awareness
- UAS flight authorisation
- Traffic information

Other non-essential services could be:

- Weather information
- Conformance monitoring with the U-space requirements

**Why we have U-space?**

- Mitigate the UAS to UAS risk of collision and subsequent air and ground risks
- Enable safe Beyond Visual Line of Sight (BLOS) operations
- U-space is a drone geographical zone. Drones will only be allowed in this airspace with the support of U-space services
- Not all geozones will be U-space. U-space will not be deployed everywhere. Priority will be given to areas with expected large volume of operations (e.g. cities)
- U-space regulations are not applicable to toy drones and model aircraft

**Member States and EASA**

Cooperate in designing safely, secure and in an environmentally friendly manner the U-space airspace:

- EASA
  - defines the U-space concept to include all the services required to ensure it operates effectively, safely and securely
  - provides certification requirements and means of compliance and certifies some USSPs
  - supports and promotes its implementation

- Member States competent authorities
  - establish the zones where U-space is deployed within the national airspace of that State
  - define the performance requirements
  - manage the scalability of the service to deal with growing volume of drones
  - certify USSPs based on EASA requirements
  - ensure that Common Information Services (CIS) is available as a single source of information for U-space