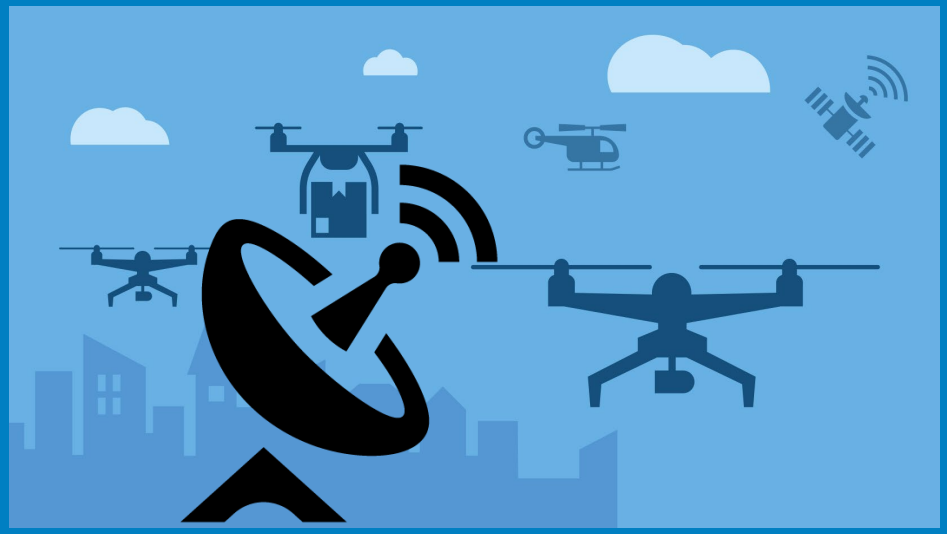
EASA
European Union Aviation Safety Agency

European drone standardisation and regulatory framework



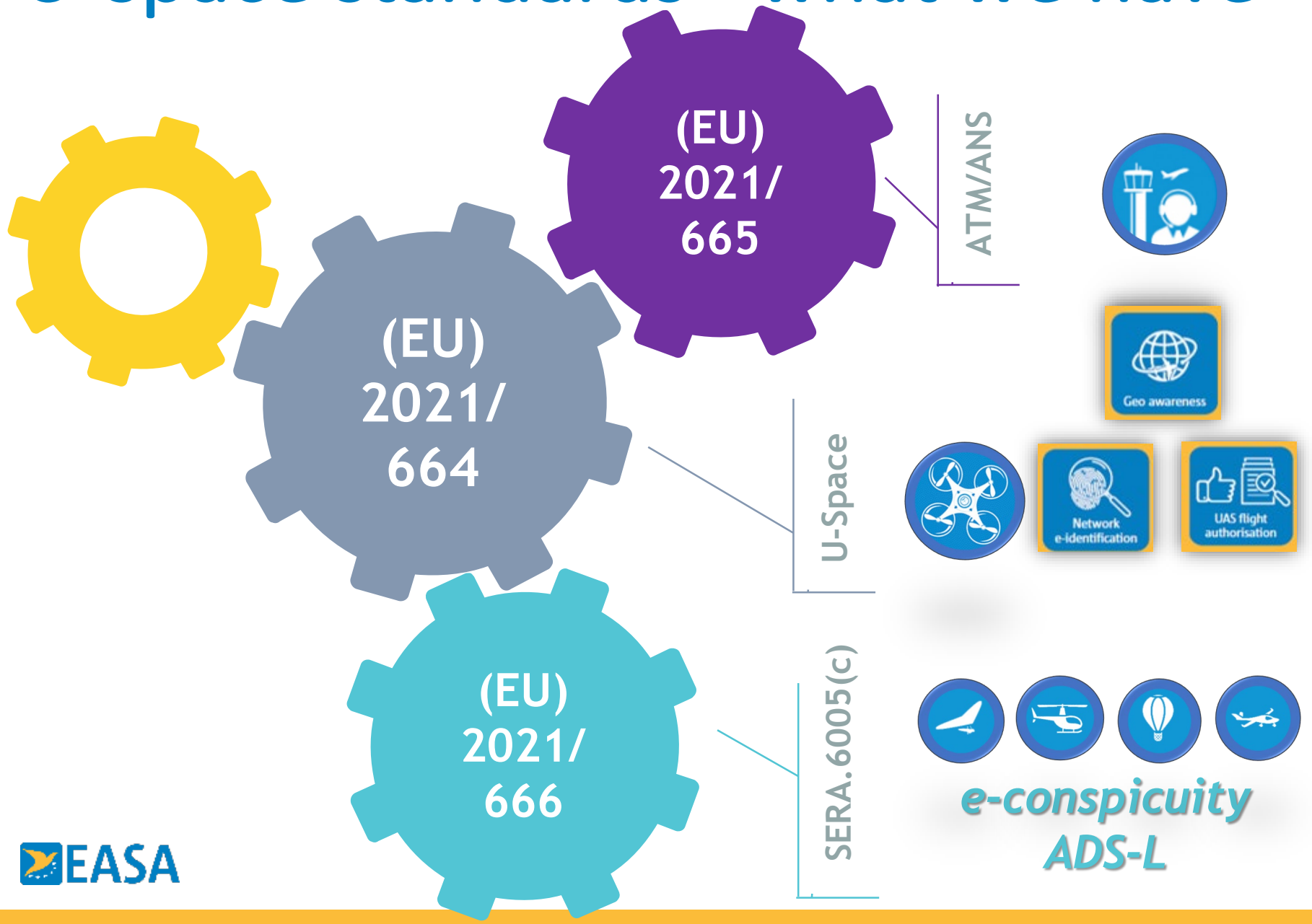
Stéphane Vaubourg

30 November 2022

Your safety is our mission.

An Agency of the European Union

U-space standards - what we have



EUROCAE

ED-269

ASTM INTERNATIONAL

ASTM F3411-22A
ASTM F3548-21

ADS-L 4 SRD860
(Technical specification to be published Dec. 2022)

EASA

U-space standards - what we miss

- → Standards supporting the provision of services:
  - → Weather Information (DQRS, list of data, accuracy,...)
  - → USSPs exchanges (e.g. ensuring unicity of the traffic information)
- → Industry consensus or alternatives

SHEPHERD PROJECT

- → Enablers for interoperability and U-space vitality:
  - → Standardised protocol: CIS USSPs

ANNEX II (EU) 2021/664

*Providers of common information services shall ensure that the information […] is available online through **common open**, secure, scalable, sustainable technologies […], and that ensure **interoperability** and the **free movement** of U-space services in Union.*

  - → Complete and harmonized set of performance requirements

EASA

U-space standards - what we will need

- Standards supporting incoming U-space evolution (e.g. higher integration unmanned/manned aircraft):
  - Detect And Avoid capabilities (UAS & ground systems)
  - Enhanced/extended set of services
  - Emergent technologies, e.g. Artificial Intelligence

- Predefined U-space airspace use-cases (scenarios) with harmonized performance requirements to streamline U-space implementation over EU.

EASA
European Union Aviation Safety Agency

Your safety is our mission.

An Agency of the European Union