

Slido: #IAM2024



EASA
Innovative Air Mobility
Implementation Forum

In cooperation
with:

 Alliance for New
Mobility Europe

 ASD

 DRONE
ALLIANCE
EUROPE

 Global UTM
Association

 JEDA
Joint European Drone Associations



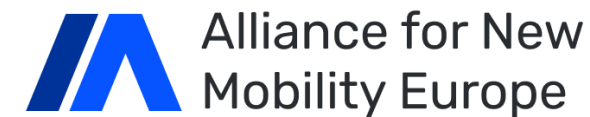
STEPHANE VAUBOURG

Drone project manager U-space,
EASA

How to create momentum for U-space implementation?

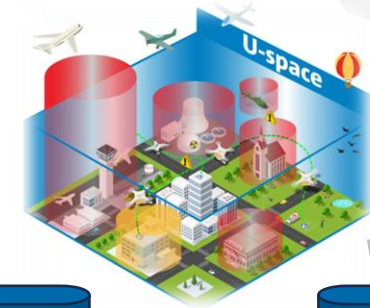
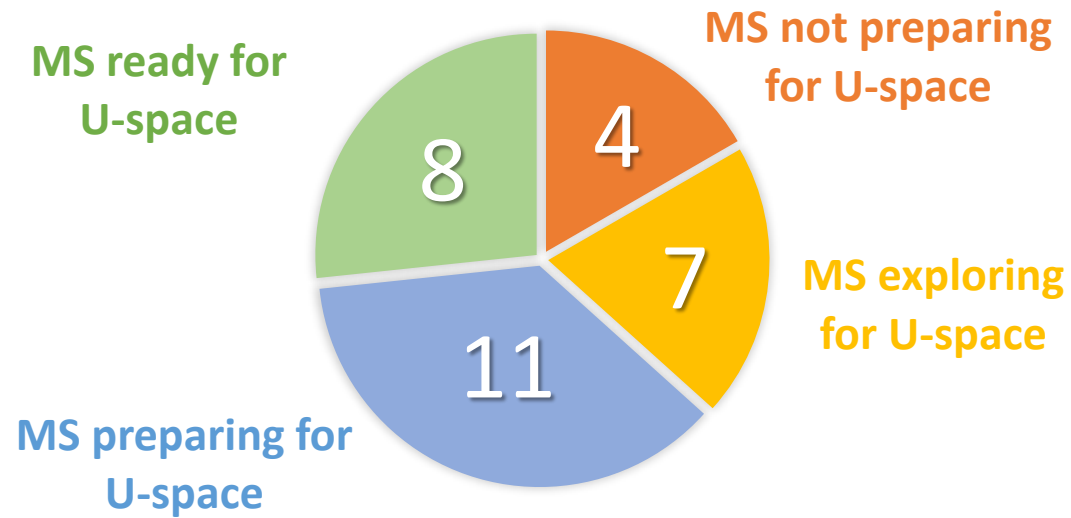


A strategic domain



Status of the U-space implementation in EU

MS LEVEL OF MATURITY

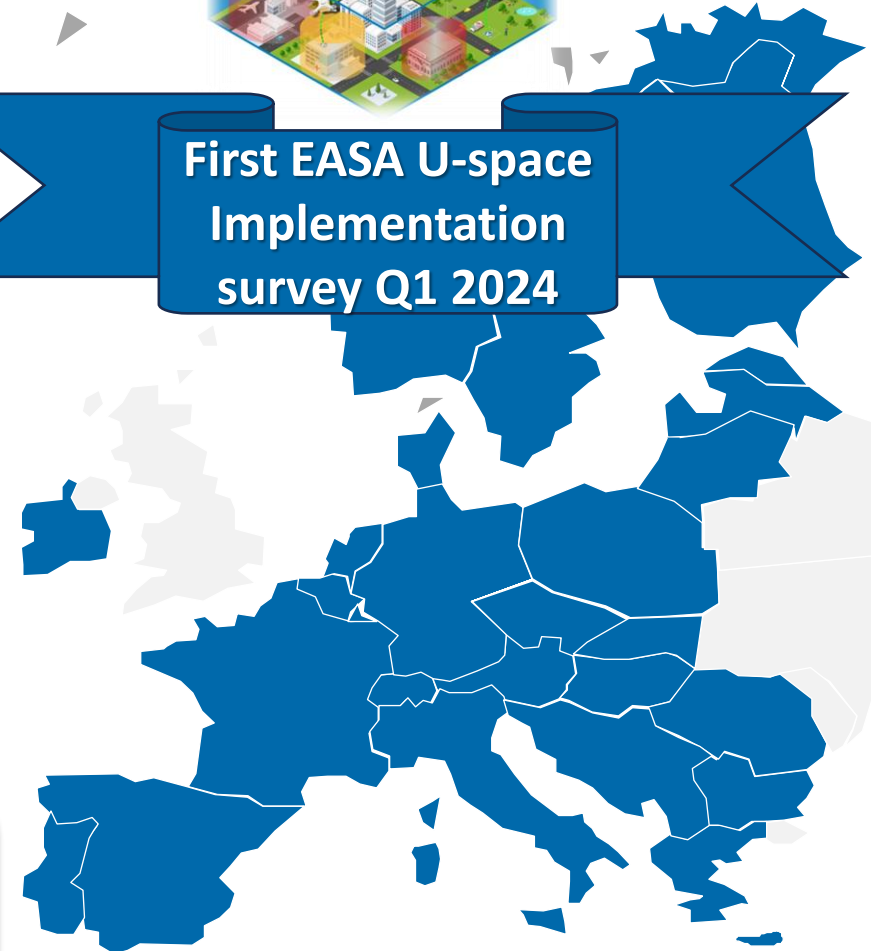


First EASA U-space
Implementation
survey Q1 2024

~30 candidates U-space airspace
~15 projects subject to designation
~5 advanced designation projects

Single CISP
~10 candidates
2 on-going certifications

U-space Service Providers
~15 candidates
5 on-going certifications
(including 2 non-EU by EASA)



Level of risk for the implementation



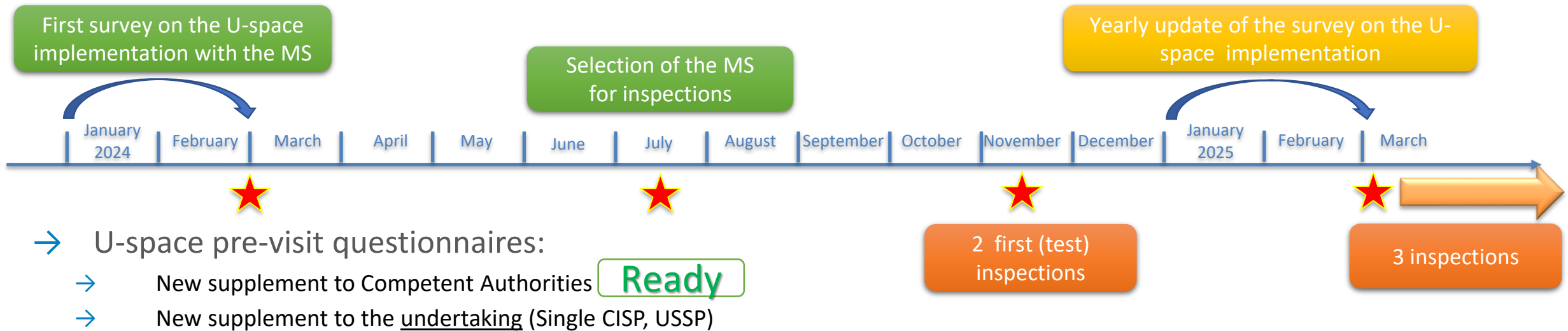
Recurrent issues: improper allocation of roles and responsibilities among the U-space actors

7 MS potentially non-compliant with the U-space regulatory framework

Need of harmonisation
and standardisation

U-space standardisation inspections

- Inspections aligned with in the ATM/ANS standardisation program and practices (e.g. use of questionnaires)
- Framework to be repeated on a yearly basis -> U-space implementation survey + 3 inspections
- Letters and focused communication may be sent to the Member States



- Assessment of the compliance of a Member State with the U-space regulatory frameworks
- Assessment of the roles and responsibilities, and soundness of the procedures of the Competent Authorities, including the assessment of the certification and oversight of the undertakings

**Support to the harmonisation will continue:
ad-hoc discussions with MS, TF on USSP/S-CISP certification**

U-space eco-system readiness (?)

Interoperability
of systems ?

Maturity for
certification ?

On-boarding process ?

From the “we could do” to the “we (effectively) do*”...

*In compliance

Standards ?

Simplifications?

N-RID ?

Business model ?

New entrants ?

U-space business model



Economical Viability

Development of the new organisation

Development of the systems/platform

Compliance with the Regulatory framework



Funding

Fees and charges

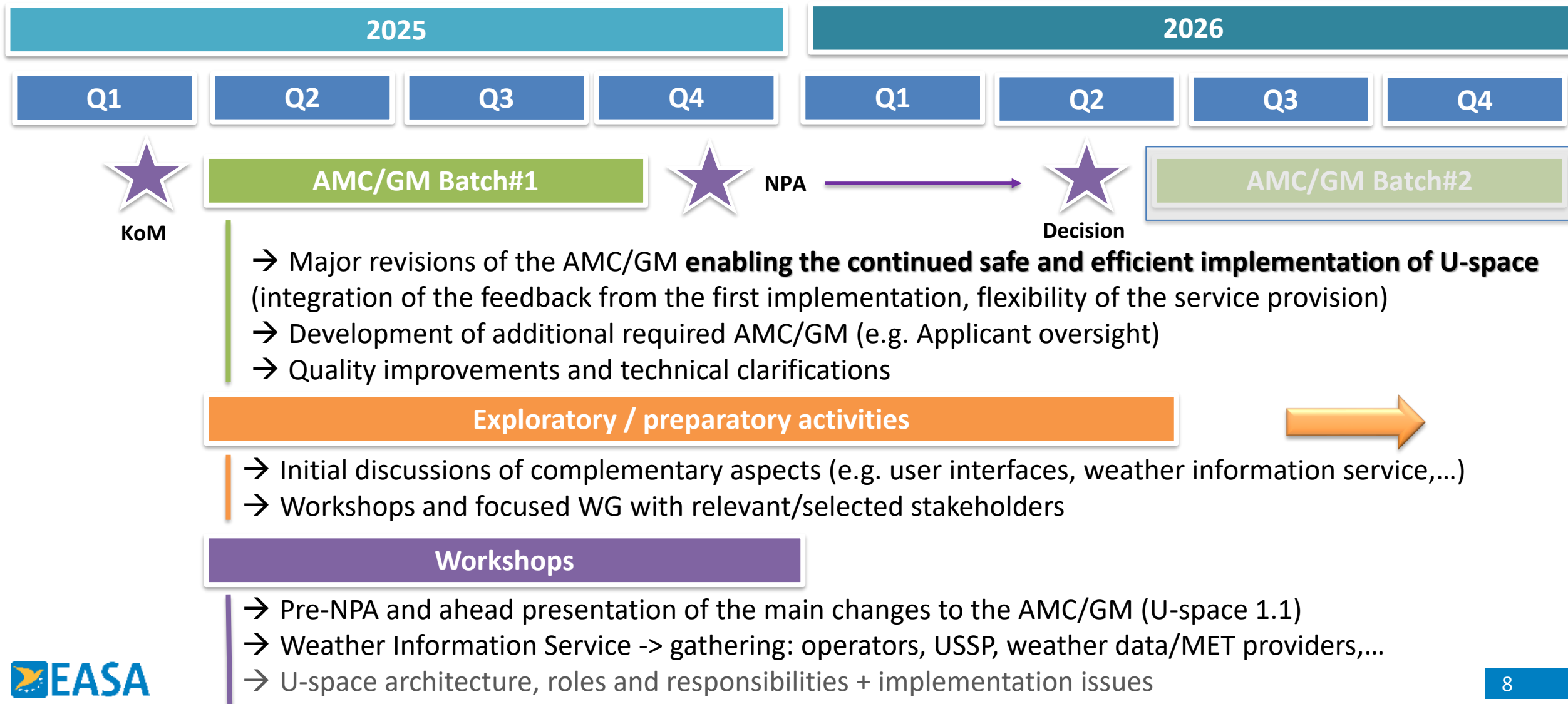
Volume of operations

Business opportunities
(e.g. services out of U-space)

The industry to provide financial data / metrics / objectives



RMT.0748 Roadmap



AMC/GM Batch#1



- Continued development/improvement of the Flight Authorisation service (and Conformance Monitoring service):
 - Establishment: ops. data, alignment with the (EU) 2021/947, deviation thresholds, 4D volumes (?)
 - Flexibility: dynamic modifications/changes to the FA, operations in/out U-space airspace
- Streamlining: Airspace Risk Assessment, coordination mechanism (other?)
- New entrants and USSP external services (e.g. weather data, surveillance)
- Data exchanges between USSP (ASTM/Eurocae standards)
- Feedback from the field and from the TF with MS on USSP/S-CISP certification
- Quality improvements and technical clarifications
- Development of complementary AMC/GM (e.g. oversight, change notification)

Exploratory/Preparatory activities



- Weather Information Service (e.g. operational needs, μ -weather information, safety criteria, coupling with Flight Authorisation service)
- N-RID (e.g. interoperability and performance technical standards, CE marking (?),...)
- HMI and human factors
- Predefined standardised U-space airspace use-cases to better support the ARA
- *Needs, roles and responsibilities of local U-space coordinator*
- *Cross-border operations*
- *Artificial Intelligence in U-space (in conjunction with the RMT.0742)*
- Others...

Recognition of industry standards for U-space



ASTM F3673-23 Weather data
ASTM F3623-23 SDSP
ASTM F3411-2? - NID
ASTM F3548-2? – USS interop.



ED-318 – Gz & U-space
(replacing ED-269)
ED-XXX – NI ICD
ED-XXX – FA ICD
ED-XXX – FA



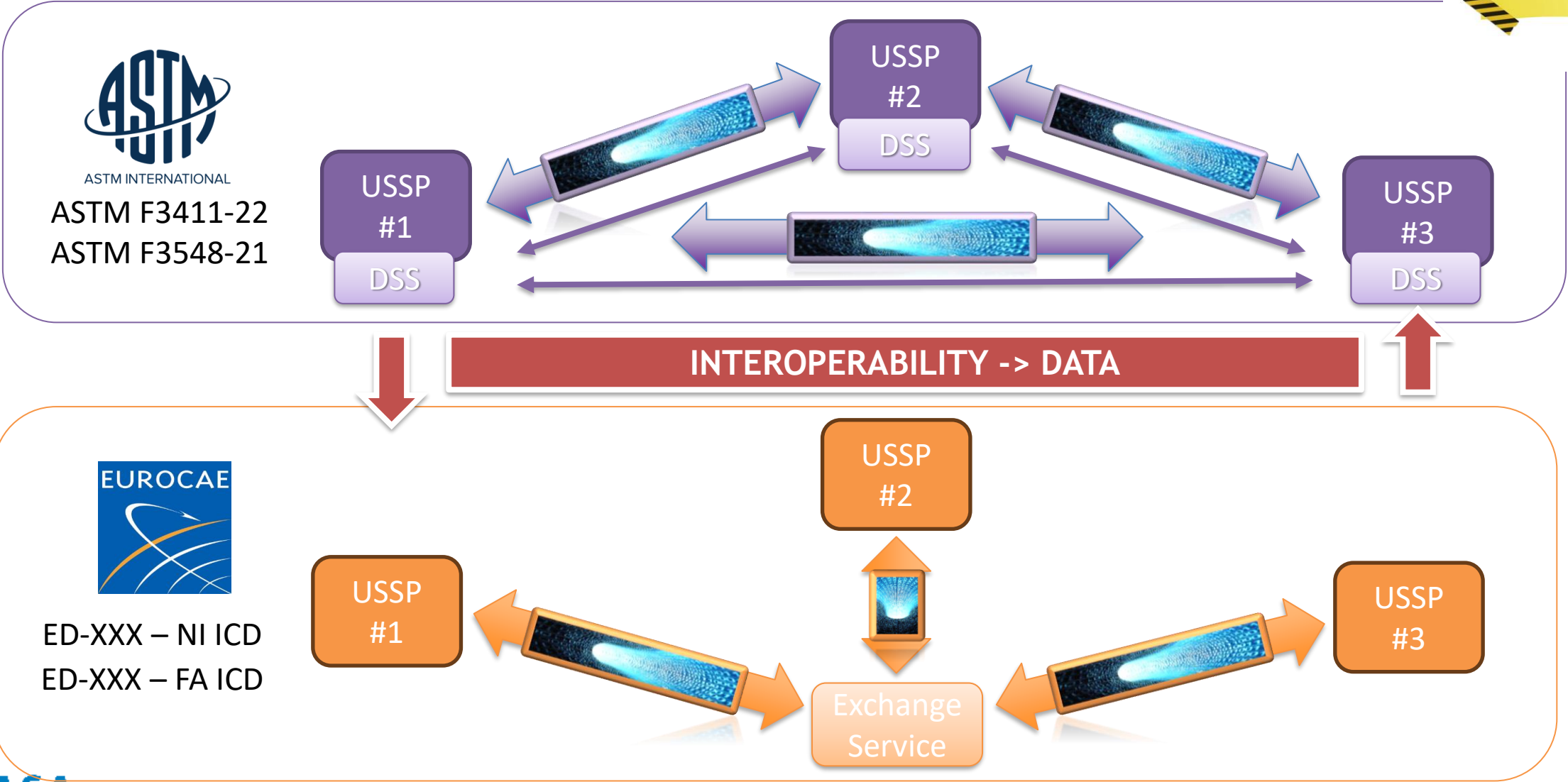
ADS-L 4 SRD860
Issue 2 under work
(e-conspicuity + RID)

 SHEPHERD (UAS Standards)



Appropriateness, clearer and higher level of adherence to be discussed
Suitable scope to be defined in the AMC/GM

Inter-USSP data exchange



U-space in 2030 ?



EASA

Innovative Air Mobility
Implementation Forum

In cooperation
with:

 Alliance for New
Mobility Europe

 ASD

 DRONE
ALLIANCE
EUROPE

 Global UTM
Association

 JEDA
Joint European Drone Association

Slido: #IAM2024

...

