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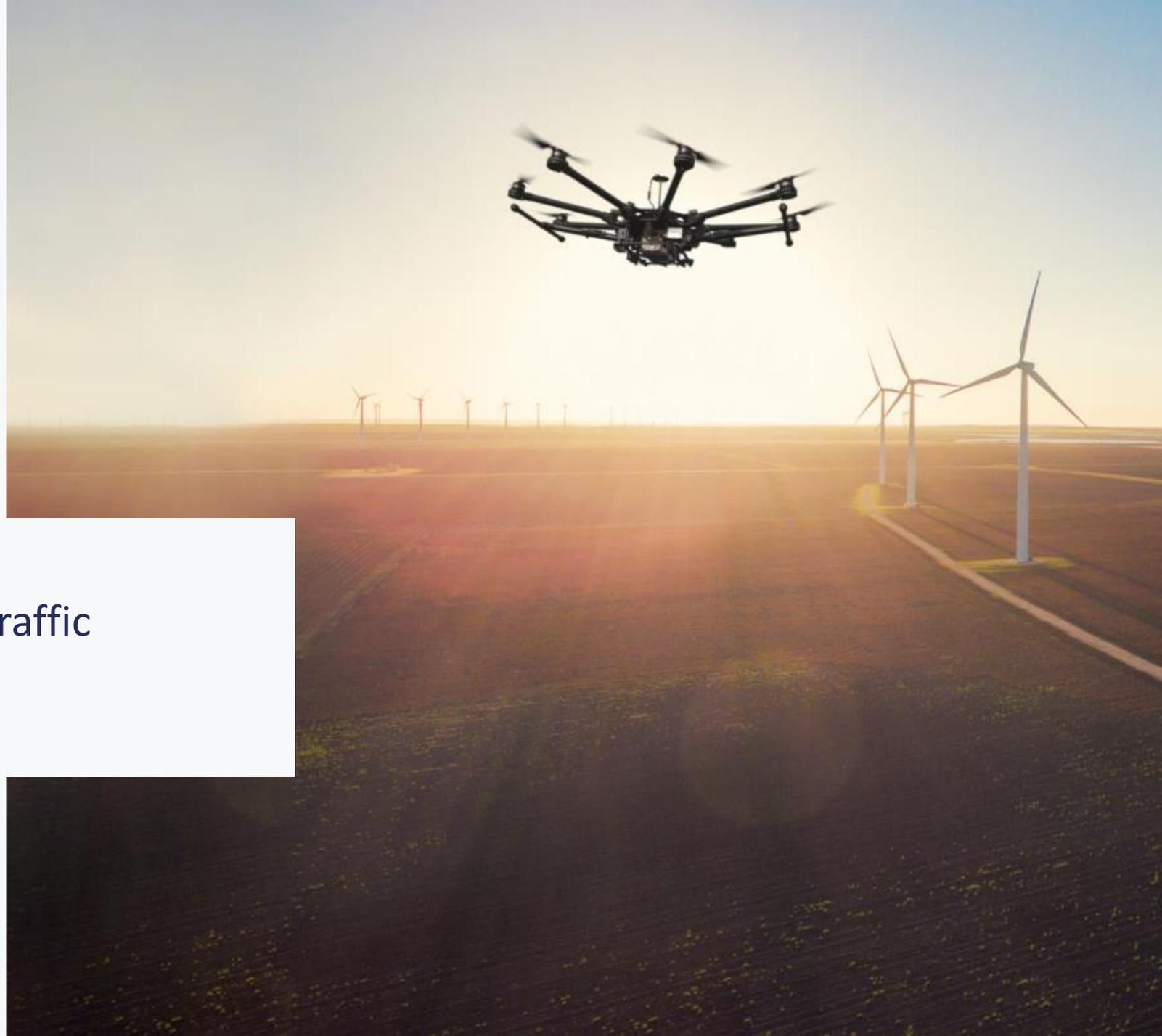
U-space - Introduction

- The Commission and EASA are drafting a U-space regulation

- Key for enabling the drone industry

- Open Market

- Federated deployment model

- Multiple Service Providers – CISP and USSP

- U-space services

U-space – CISP vs USSP

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CISP

- Designed by Member State for every U-space

- Single trustworthy source of information

- Support the exchange of information and coordination between U-space Service Providers and ATC

USSP

- Gateway for Drone Operators

- Provide a minimum set of U-space services to drone operators

U-space – CISP vs USSP

- Network identification service

- Geo-awareness service

- UAS flight authorisation service

- Traffic information service

- Weather information service Optional Service

- Conformance monitoring service Optional Service

U-space – Architecture
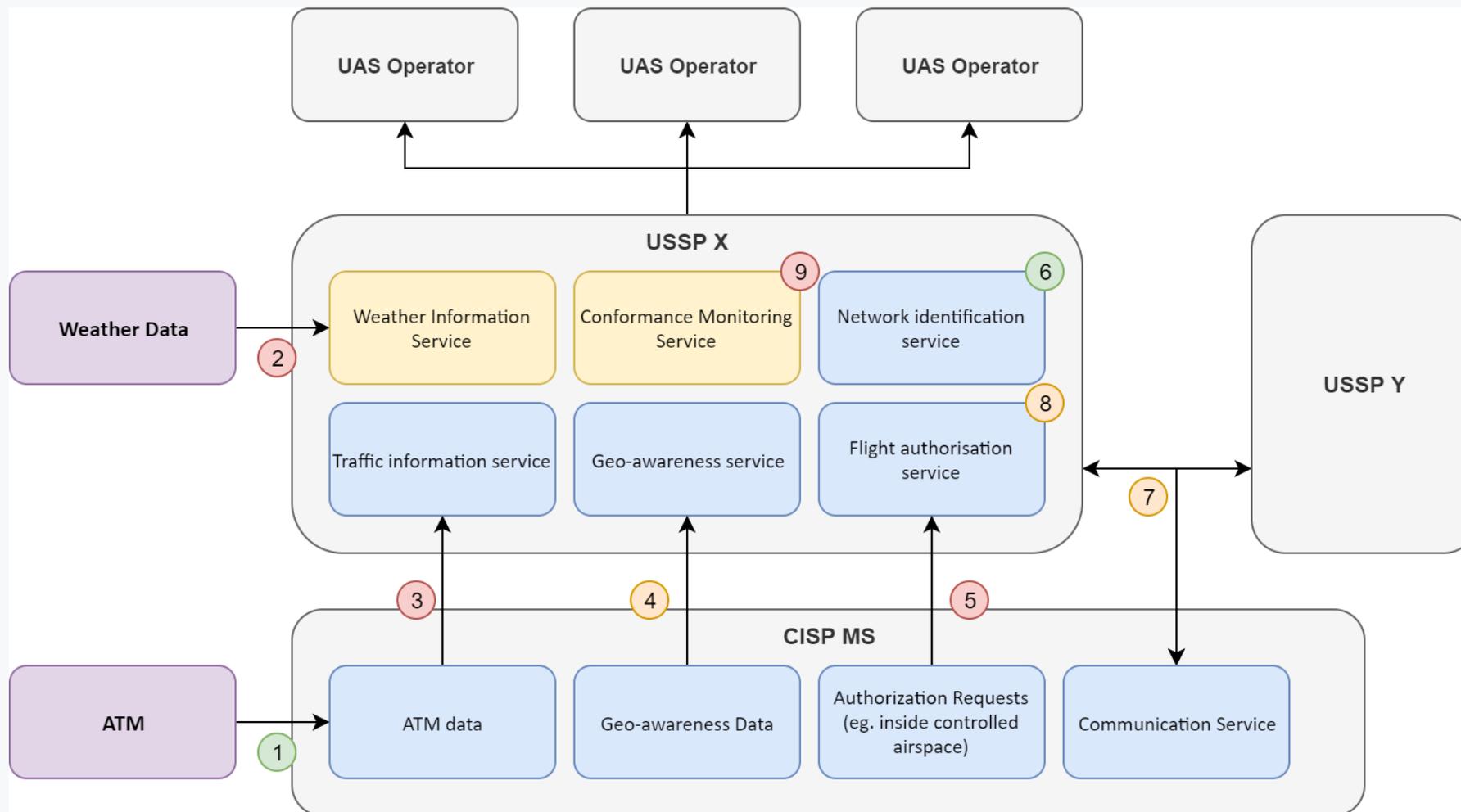
U-space Standardisation - Existing

- ATM – U-space : Existing manned Aviation Standards (1)

  - Asterix Protocols

- Network identification service (6)

  - ASTM - WK65041 - UAS Remote ID and Tracking (F3411 – 19)

  - ASD-STAN: Broadcast only for now

  - ISO: Under development

U-space – Architecture
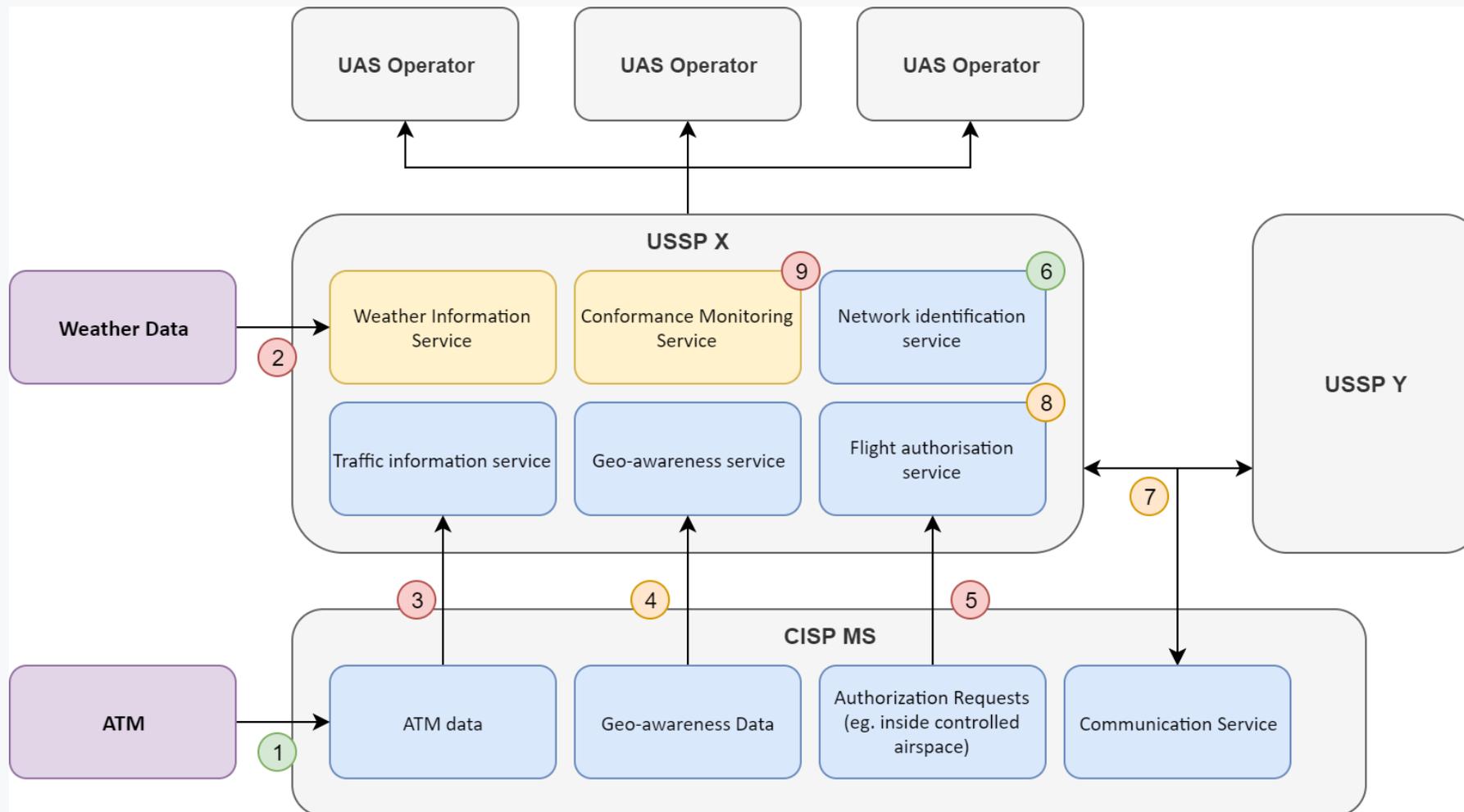
U-space Standardisation – Under development

- Geo-Awareness Service (4)

  - WG-105 SG-33: UTM Geo-Fencing (ED-269)

  - ASTM and ISO not defining UAS geographical zones

- Communication Service (7)

  - ASTM - New Specification for Service provided under UAS Traffic Management (UTM) - WK63418

- Flight Authorization Service (8)

  - ASTM - New Specification for Service provided under UAS Traffic Management (UTM) - WK63418

U-space – Architecture
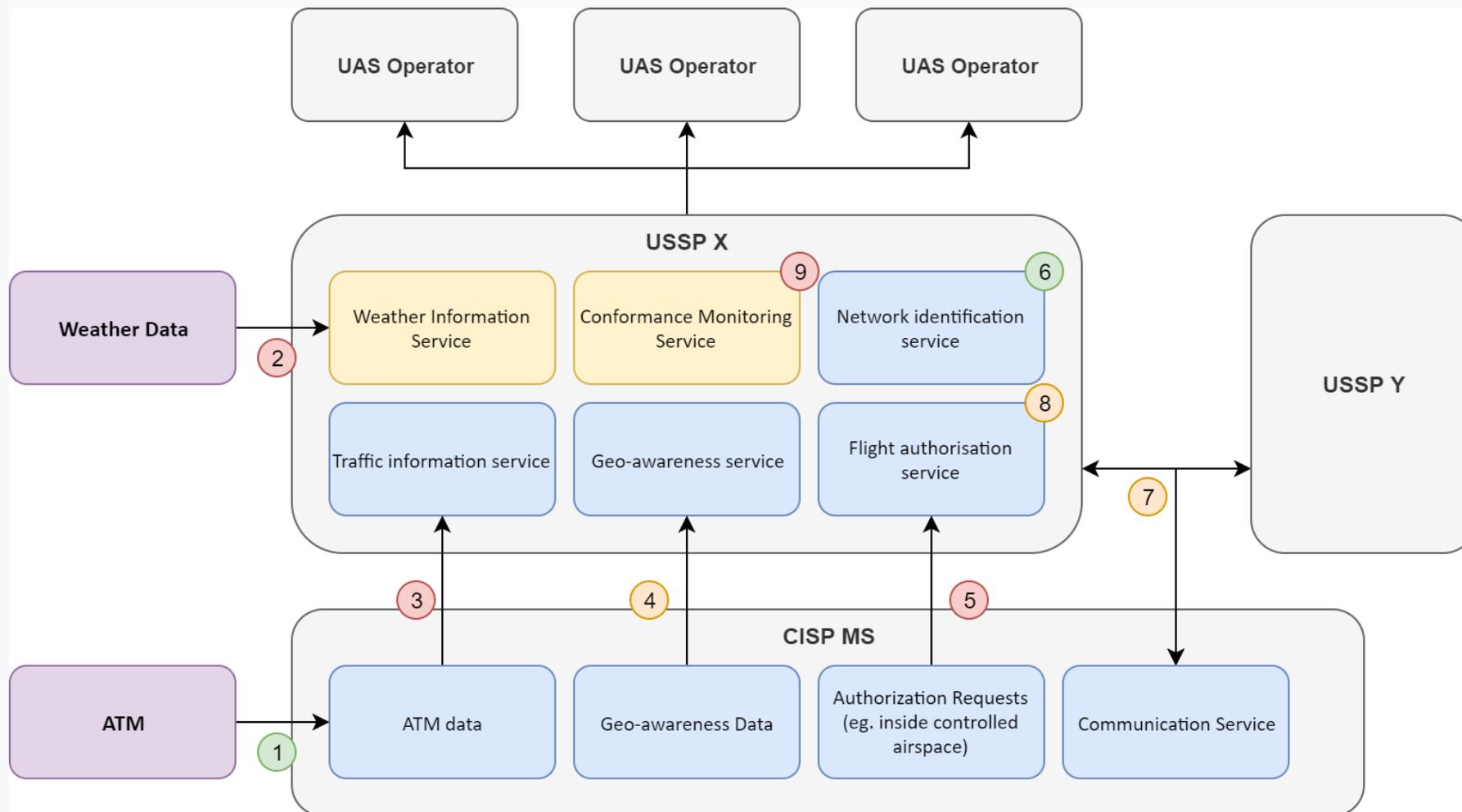
U-space Standardisation – To be developed

- Weather data (2)

  - WXXM to be explored if useful for drones

  - ASTM made a proposal for standardisation

- CISP – USP : Air Traffic Data (3)

- Flight Authorization Requests (5)

- Conformance Monitoring (9)

Thank you! Questions?

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