AW DRONES

The AW-Drones Open Repository

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Purpose of the AW-Drones repository

Online repository that will provide single point of access to relevant information about:

- rules, procedures and technical standards developed for mass-market drones worldwide;
- best practices, gaps and bottlenecks;
- technical standard for each category of drone operations;

Support the European Aviation Safety Agency (EASA) and the European Commission (EC) in their rulemaking process for the definition of rules, technical standards and procedures for civilian drones.

The mid-term aim of the open repository is to become a relevant drone-focused informative tool where experts can easily identify relevant information and contribute to the extension of the AW-Drones database.

AW-Drones repository will also include collaboration features (commenting, rating, adding and editing content, reviewing etc.) that will enhance its use and purpose and will further support its sustainability even after the end of the AW-Drones project.



Main stakeholders of AW-Drones repository

✓ Institutional bodies:

- ✓ EU and EC: DG-INEA, DG-MOVE;
- ✓ European Joint Undertakings (e.g. SESAR, Clean-Sky);
- ✓ Regulatory and safety agencies: ICAO, EASA and National CAAs, JARUS;
- ✓ Standard-making bodies: EUSCG, ISO, EUROCAE, ASTM, RTCA, ASD-STAN;
- ✓ National bodies: National Ministries of Transport, National Agencies.

✓ Specialised audience:

- ✓ Research community (Research and Innovation (R&I) institutes; Universities; Private research companies;)
- ✓ Industry (Drone manufacturers and maintainers; Drone operators; Drone Pilots; ANSPs; UTM/U-Space Service Providers; Industrial associations;
- ✓ Training Institutes.

✓ General stakeholders:

- ✓ General public;
- ✓ Media.





Timeplan of AW-Drones repository activities

Define the **requirements** for the design and development of a user-friendly knowledge platform that will be open to all stakeholders (*Jan 2019 – Oct 2019*)

Develop the online platform based on the requirements gathered (Nov 2019 – Dec 2021)

Assist in engaging with key stakeholders in the mass market drone industry (Nov 2019 – Dec 2021)



Core functionalities of the repository

- ✓ Find and display a standard: Provide easy access to information stored in the AW-Drones repository via:
 - ✓ Live search
 - ✓ Filters (Requirement, Domain, keywords, Type of data of the standard, status of the standard)
- ✓ Collaboration features:
 - ✓ Commenting: registered users can leave comments under every dataset and can initiate discussions.
 - Rating: registered users can rate the content of a standard.
 - ✓ Tagging: registered users can add new tags to a specific standard.
 - ✓ Editing content and versioning: registered users will be able to edit the content of a dataset. A history of all revisions will be kept.
 - ✓ Adding content: registered users will be able to add new standards to the database.



Types of users of the platform

- ✓ Administrators: Add and remove content; accept changes; accept comments; change the structure of the datasets etc.
- ✓ Editors: Registered users (their registration must be accepted by the Administrators). Add content to the repository; Add comments; Rate datasets; Add keywords. The content needs to be accepted by the Administrators. A notification will be sent to editors when their content is published.
- ✓ Acknowledged users: access to the collaboration features of the platform (comment, rate, add keywords etc.). They cannot add new content to the AW-Drones database.
- ✓ Basic users: Any user with access to the internet will be able to view the content of the repository.





- ✓ **Develop** the AW-Drones open repository in 2 iterations (M18 M36)
- ✓ Validate the open repository
- ✓ Disseminate and exploit the AW-Drones open repository / engage users



Progress so far and next steps

Progress so far:

- ✓ Defined the requirements for the design and development of the platform
- ✓ First version of the AW-Drones repository developed based on the requirements gathered / Feedback from a) EUSCG plenary session, b) AW-Drones consortium, c) INEA already received.

Next steps:

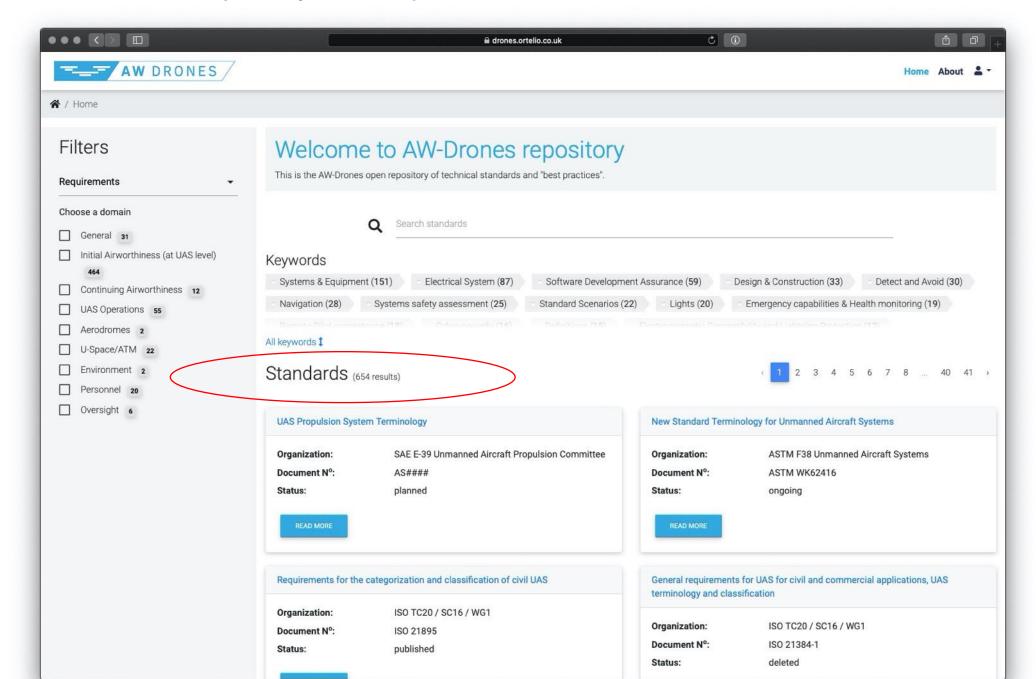
- ✓ Gather further feedback and improve the repository
- ✓ Make the repository public
- Assist in engaging with key stakeholders in the mass market drone industry

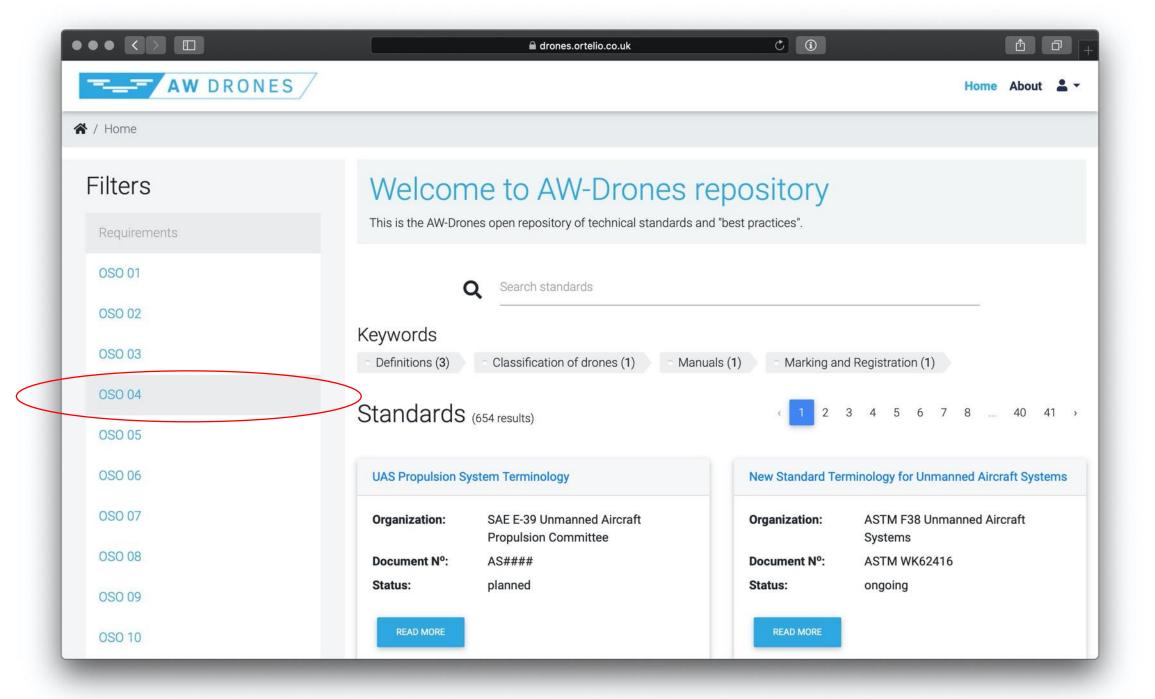


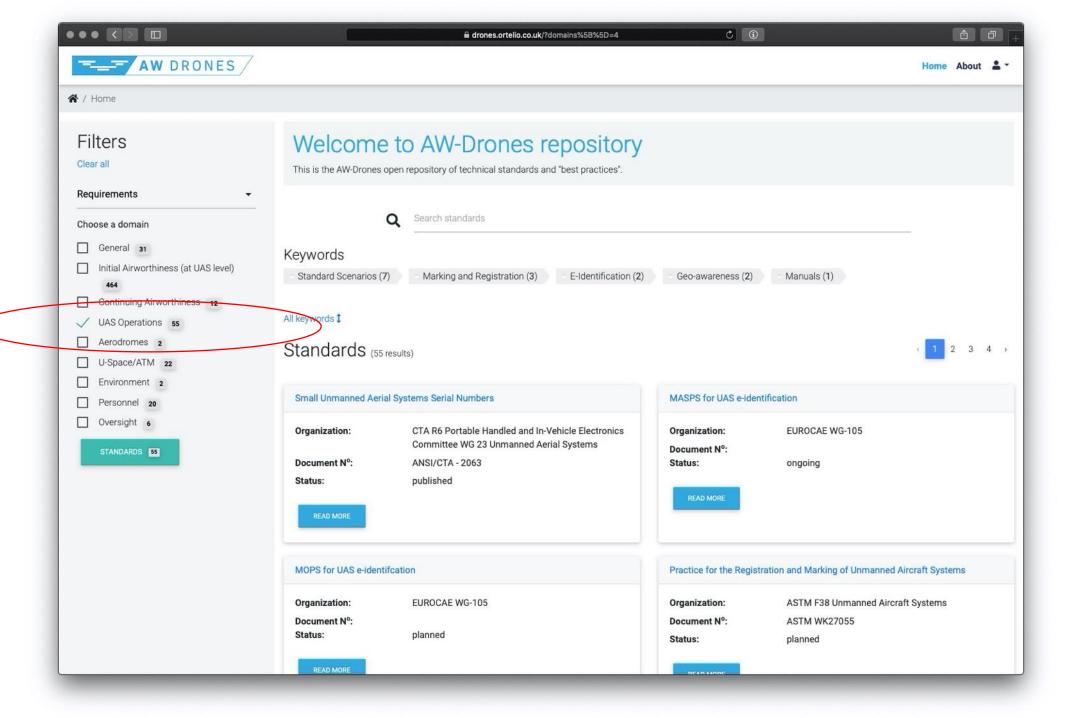
The AW-Drones repository

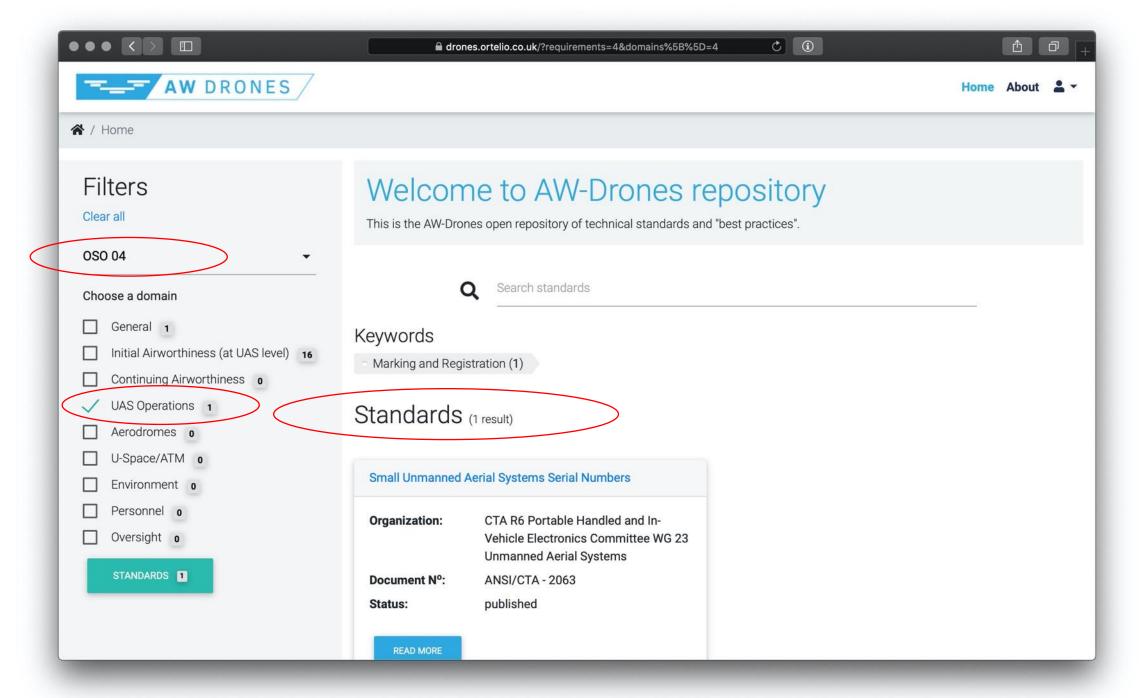


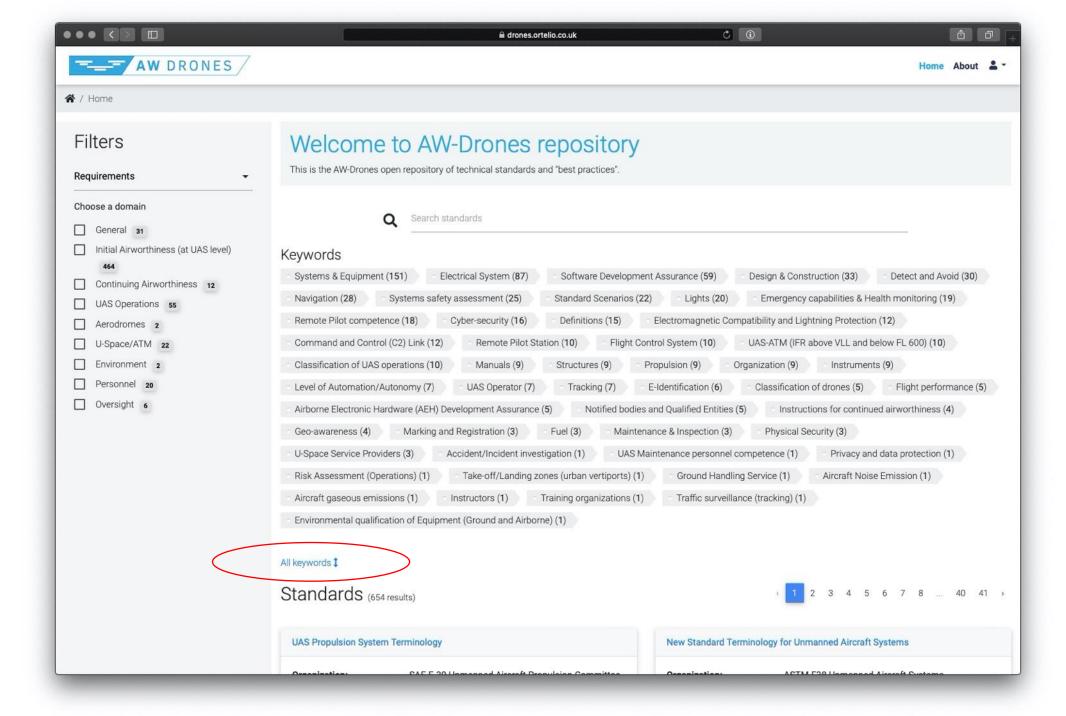
Temporary url: https://drones.ortelio.co.uk

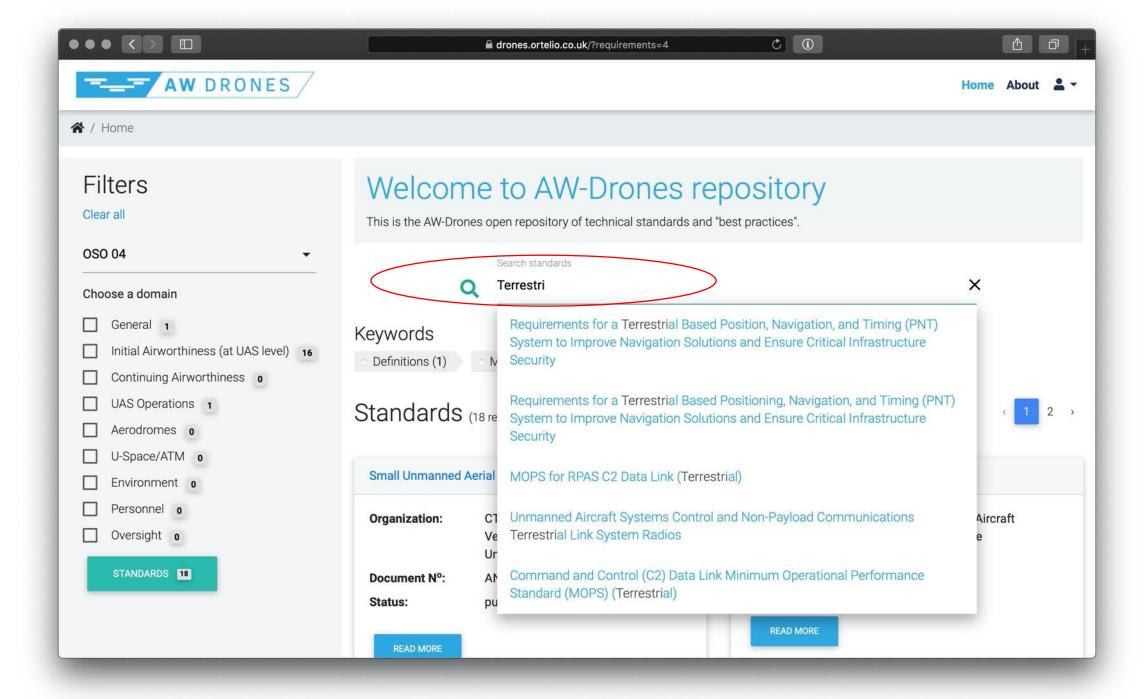


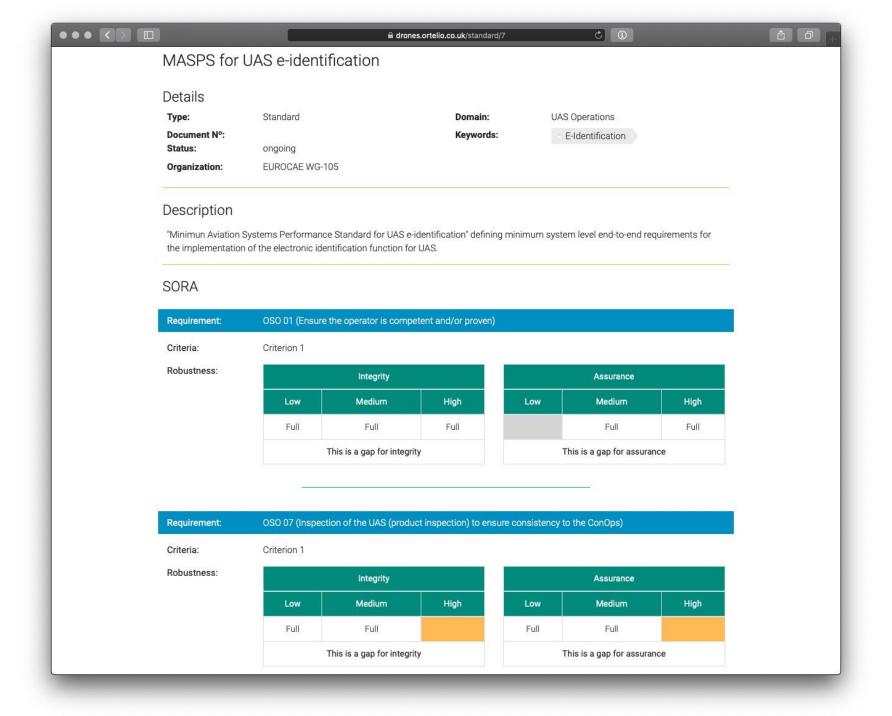












Description

"Minimun Aviation Systems Performance Standard for UAS e-identification" defining minimum system level end-to-end requirements for the implementation of the electronic identification function for UAS.

SORA

Requirement: OSO 01 (Ensure the operator is competent and/or proven)

Criteria:

Criterion 1

Robustness:

Low	Medium	High
Full	Full	Full

Low	Medium	High
	Full	Full

Requirement:

OSO 07 (Inspection of the UAS (product inspection) to ensure consistency to the ConOps)

Criteria:

Criterion 1

Robustness:

	Integrity		
Low	Medium	High	
Full	Full		
	This is a gap for integrity		

Low	ow Medium	High
·OW	Medialli	riigii
Full	Full	

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Comments

0 Comments

Submit a Comment

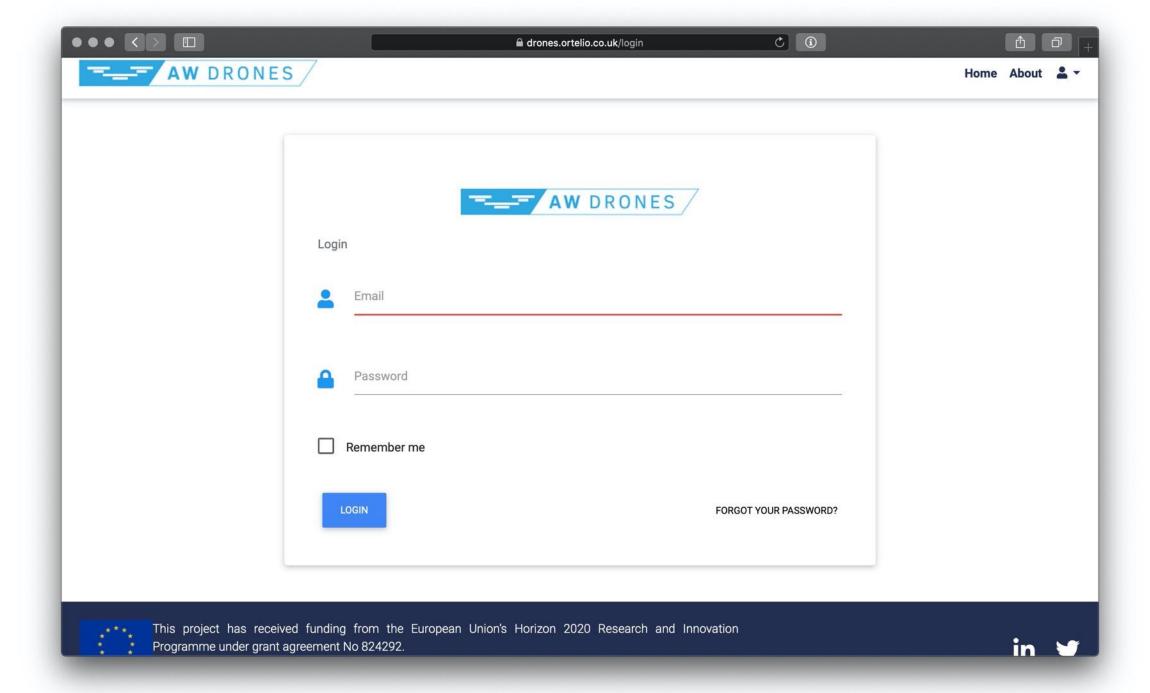


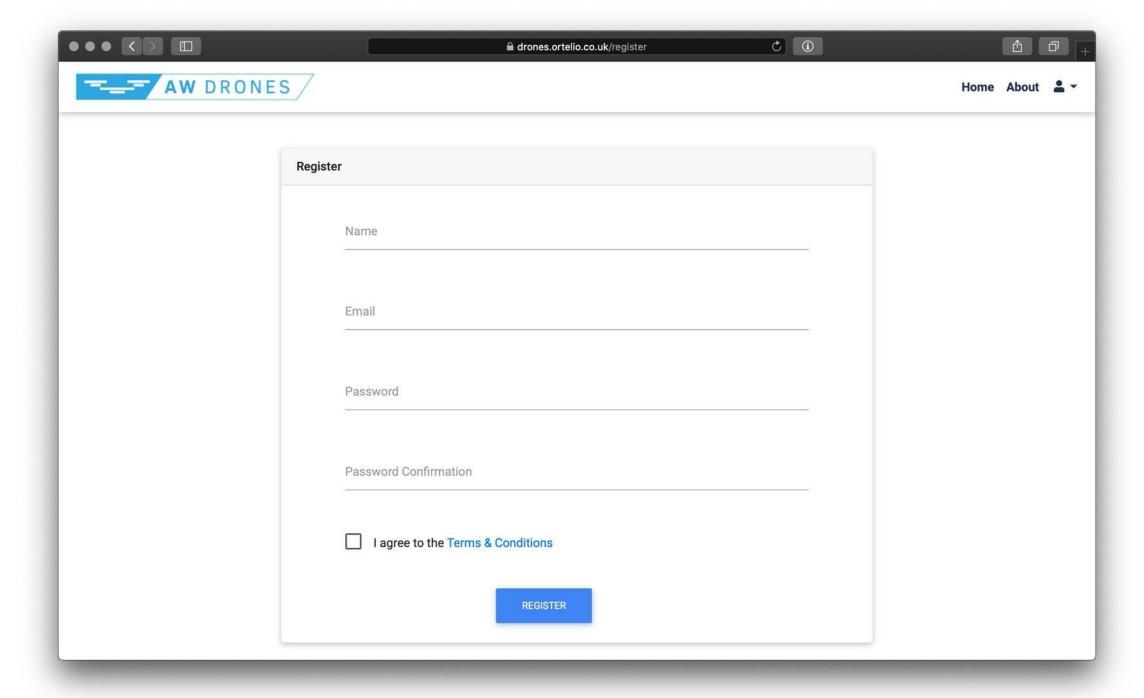
Discussion on how to view a standard

For each standard the following information is displayed:

- 1. Title
- 2. Document No
- 3. Organisation
- 4. Status
- 5. External url and DOI (if available)
- 6. Domain
- 7. Keywords
- 8. Description
- 9. Requirements
- 10. Last modified









About AW-Drones repository

The AW-Drones open repository is an online platform that provides single point of access to relevant information about:

- 1. rules, procedures and technical standards developed for civilian drones;
- 2. best practices, gaps and bottlenecks;
- 3. technical standards for each category of drone operations;

The main objective is to support the European Aviation Safety Agency (EASA) and the European Commission (EC) in their rulemaking process for the definition of rules, technical standards and procedures for civilian drones. The mid-term aim of the open repository is to become a relevant drone-focused informative tool where experts can easily identify relevant information and contribute to the extension of the AW-Drones database.

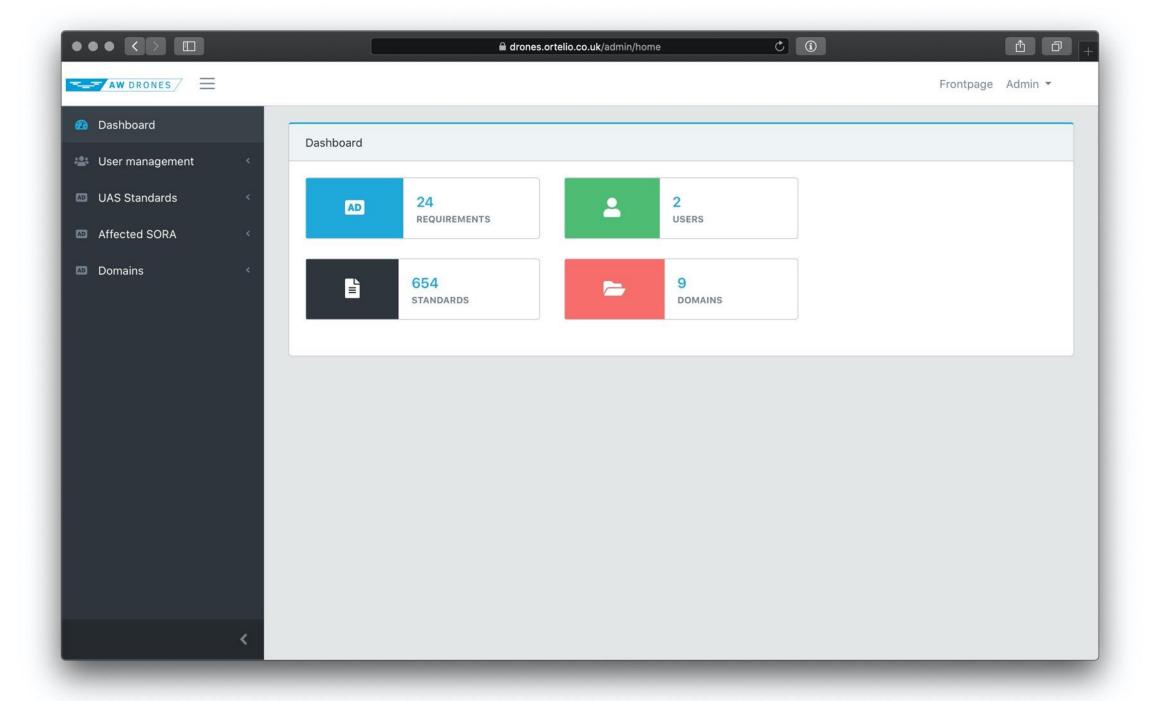
From a technical point of view, the AW-Drones online repository is a web-based software application that brings together various data sources to make them available to stakeholders. AW- Drones open repository provides free, immediate and permanent access to data for anyone to use, download and distribute.

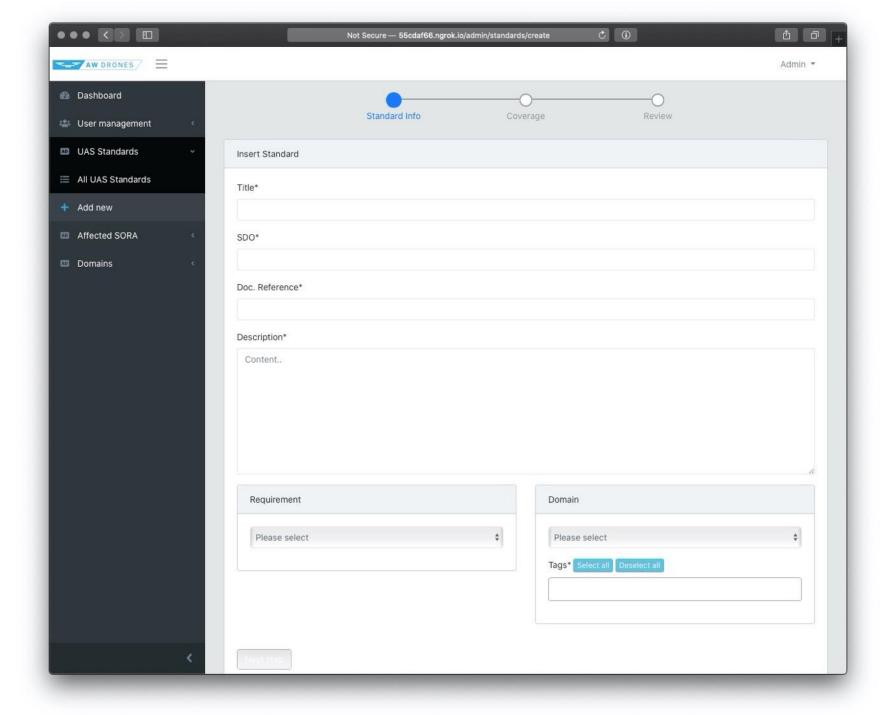
Apart from an open platform that is used as information exchange (access, mine, exploit, reproduce, disseminate data), the AW-Drones repository also includes collaboration features (commenting, rating, adding and editing content, reviewing etc.) that enhance its use and purpose and will further support its sustainability even after the end of the AW-Drones project.

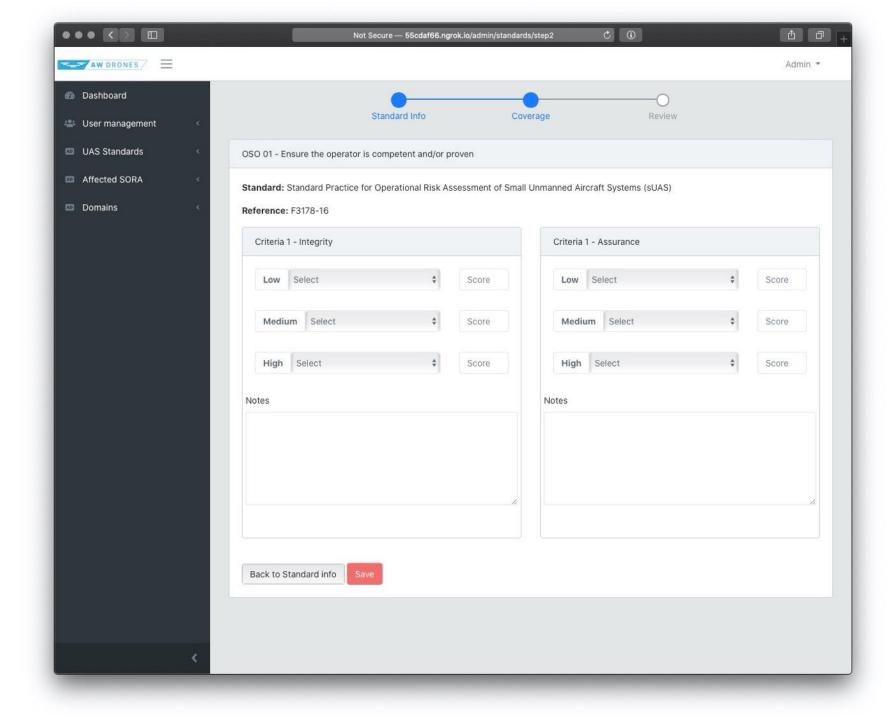
Types of users of the platform

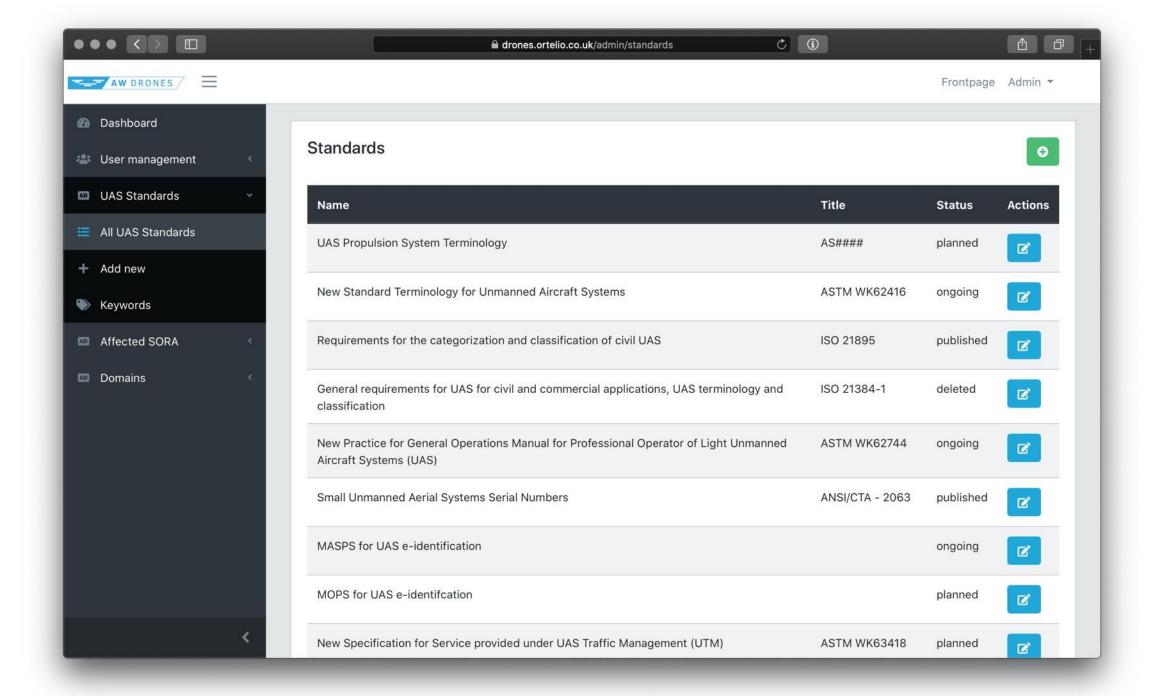
AW-Drones platform has the following types of users:

- 1. Administrators: The administrators of the platform are able to add and remove content, accept additions and changes, accept comments, change the structure of the datasets, etc.
- 2. Editors: Editors need to register, and their registration must be accepted by administrators. Editors are able to login to the platform using email and











Thank you!

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