

# ASD-STAN

Standardization

Fostering innovation with European AeroSpace standards

**ASD-STAN is an industrial non-profit association (AISBL) dedicated to establishing, developing, publishing, and maintaining standards on behalf of the European aerospace industry.**

We are providing industry-relevant standards that drive innovation and competitiveness.

As an **associated body to [CEN](#)** (European Committee for Standardization) we stand as the primary source for European aerospace Norms (EN).

***Streamlined Standardization:*** ASD-STAN shortens the standardization process through the publication of projected-EN standards (prEN) that are *technically identical to the final European Norm (EN)*.

***Our core values:*** Openness, transparency, consensus, and balance drive the essence of our Working Groups.

***Industry Leadership:*** Working Groups led by experts from major aerospace companies and OEMs ensure standards are relevant and maintain high safety and quality levels.

***Main scope:*** standards related to the design, production and maintenance of aircraft systems, equipment and standard parts

Our members include national industrial associations, national standardization bodies, major aerospace companies and public institutions:

More information about the involvement in the Aerospace Standardization and its benefits can be found on our web-page “[Benefits of Standardisation](#)” and on our [corporate leaflet](#)

## Our esteemed members include:



France

GIFAS Groupement des Industries Françaises Aéronautiques et Spatiales  
[www.gifas.fr](http://www.gifas.fr)



Germany

DIN e.V. Deutsches Institut für Normung  
[www.din.de](http://www.din.de)



Italy

AIAD Federazione Aziende Italiane per l'Aerospazio, la Difesa e la Sicurezza  
[www.aiad.it](http://www.aiad.it)



Spain

TEDAE Spanish Association of Defense, Aeronautics, Security and Space Technology Companies  
[www.tedae.org](http://www.tedae.org)



Sweden

SOFF Säkerhets Et Föfsvars Företagen  
[www soff.se](http://www soff.se)



United Kingdom

ADS Group UK Aerospace, Defence, Security & Space Industries  
[www.adsgroup.org.uk](http://www.adsgroup.org.uk)



Europe

EASA European Aviation Safety Agency  
[www.easa.europa.eu](http://www.easa.europa.eu)



Europe

ASD Europe-AeroSpace and Defence Industries Association of Europe  
[www.asd-europe.org](http://www.asd-europe.org)

# AIRBUS

Europe

AIRBUS SE  
[www.airbus.com](http://www.airbus.com)

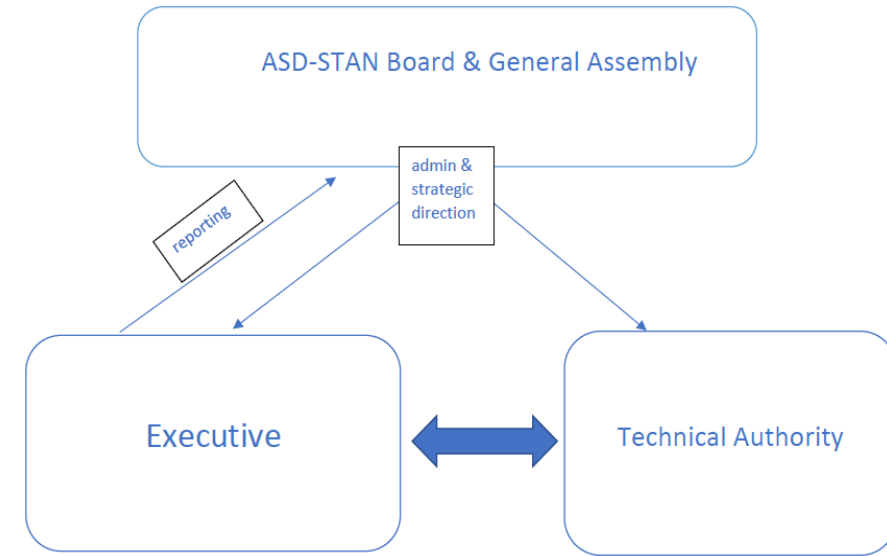
# Governance

## Key Governance Bodies:

General Assembly, Board of Directors, Technical Authority, and Secretariat drive strategic decisions and maintain the integrity of ASD-STAN's work.

## Close Collaboration:

ASD-STAN partners with national standardization bodies (e.g., BNAE, DIN, BSI) and international stakeholders to promote European standards at European and global level.



**2600**

European Norms (EN) has been published via the European Committee for Standardization (CEN)

**270**

ASD-STAN prEN standards will be transformed to European Norms in the near future via CEN

**500+**

Standard developments by hundreds involved experts of the European aerospace industry organized in 38 ASD-STAN WGs

# Cooperation with CEN & Work Programme



- In 1986, ASD-STAN was recognized by CEN as an "Associated Body" and the "Main Provider of European Aerospace Standards," establishing a cooperation agreement to expedite the European standardization process.
- ASD-STAN serves as the CEN Technical Body (TC) for "Aerospace," with a significant impact on European standardization:
- **2600+ European Standards Published:** ASD-STAN contributes to 16% of the total CEN/CENELEC publications, with over 270 prENs currently in progress.
- **Yearly Production:**
  - **2018:** Approximately 107 ASD-STAN prENs and 125 ENs
  - **2019:** Approximately 42 ASD-STAN prENs and 170 ENs
  - **2020:** Approximately 43 ASD-STAN prENs and 43 ENs
  - **2021:** Approximately 39 ASD-STAN prENs and 21 ENs
  - **2022:** Approximately 39 ASD-STAN prENs and 72 ENs
  - **2023:** Approximately 80 ASD-STAN prENs and 64 ENs



**WORK PROGRAMME  
FOR 2024 AND BEYOND**

*Looking ahead, the Work Programme for 2024 and beyond aims to further strengthen ASD-STAN's role in shaping European aerospace standardization.*

Homepage / Domain Structure

## Domain Structure



Domain D01 Program Management and System Engineering



Domain D02 Electrical



Domain D03 Mechanical



Domain D04 Material (Metallic & Non-Metallic)



Domain D05 Autonomous Flying



Domain D06 Quality and Safety Management



Domain D07 Digital Projects



Domain D12 Cabin

See Technical organization



[Link to the table of the Technical organization with the WG allocation](#)

WORK-PROGRAMME-2024



# Description of ASD-STAN Domains



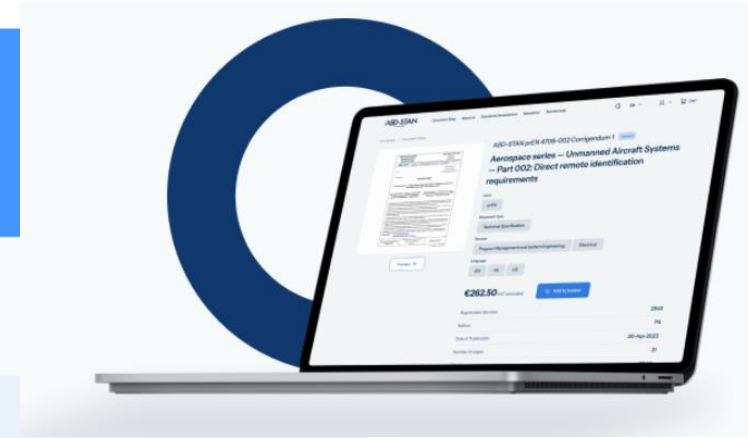
<p><b>Domain D01 "Program Management and System Engineering"</b> DTC: Gilles Beuzelin, Framatome Domain secretary: Marina Epis (BNAE)</p>	<p>The D01 Domain addresses the processes contributing to the delivery of a given system and its associated enabling systems required for production and logistical support to aerospace programmes. The objective of the D01 domain is to optimise the development of programme management and systems engineering best practices.</p>
<p><b>Domain D02 "Electrical"</b> DTC: Rhys Knighton, Airbus UK Domain Secretary: Mohamed Bhaouih (BNAE, France)</p>	<p>The ASD-STAN Domain D02 "Electrical" covers the European standardization activities in the field of electrical parts, components and systems for aerospace applications. The Domain develops and maintains European Standards (ENs) for electrical cables, stripping tools, connectors, contacts, accessories and crimping tools, protection system (circuit breakers, etc.), optical components and much more for the aerospace industry.</p>
<p><b>Domain D03 "Mechanical"</b> DTC: Dean Rogers, Airbus UK Domain Secretary: Dorothee Kretschmar (DIN, Germany)</p>	<p>The ASD-STAN Domain D03 "Mechanical" covers the European standardization activities in the field of parts and technical requirements for aerospace mechanical systems, (e.g. bearings, rods, bushes, vibration isolators), fasteners (e.g. bolts, nuts, screws, washers, high-locks, quick fasteners, rivets), and fluid systems (e.g. couplings &amp; fittings, clamps, flexible hoses, tubes).</p>
<p><b>Domain D04 Material</b> DTC: Robert Jarczyk, Airbus Germany Domain Secretary: Cristopher Wild (DIN, Germany)</p>	<p>ASD-STAN Domain D04 covers the European standardization activities in the field of materials for aerospace applications. Its work covers metallic materials (aluminium, steel, titanium, superalloys), non-metallic materials (elastomers, composites, sealants) as well as processes (surface treatments, welding and brazing, additive manufacturing).</p>

# Description of ASD-STAN Domains

<p><b>Domain D05 Autonomous Flying</b> DTC: Fredrik Nordström, Airbus Germany Domain Secretary: Josef Saurer (DIN, Germany)</p>	<p>The activity of the domain D05 is limited to D05/WG08 UAS. The UAS Working Group represents interests for the European standardization activities in the field of unmanned aircraft systems (UAS) including, but not limited to, classification, design, manufacture, operation (including maintenance) and safety management of UAS operations. Main standards: UAS product requirements, CE marking and operating rules for the Open and low risk Specific category (harmonized standards to support European legislation on drones).</p>
<p><b>Domain D06 "Quality and Safety Management"</b> DTC: Fabrizio Dido, Safran Landing Systems Domain secretary: Marina Epis (BNAE, France)</p>	<p>The ASD-STAN D06 Domain "Quality and Safety Management" covers both aspects of Quality and Safety, the latter mainly meant as Certification. The D06 addresses the development and maintenance of all Quality and Safety related documents in the area of Organisation and product assurance. It defines their respective objectives, policies, requirements, and implementation standards to achieve the defined "Quality" and "Safety" objectives throughout the complete life cycle of the products.</p>
<p><b>Domain D07 Digital Projects</b> DTC: Bernd Feldvoss, Airbus, Germany Domain secretary: Marie-Noëlle Touzeau (BNAE, France)</p>	<p>The Domain D07 "Digital Projects" represents interests for the European standardization activities in the field of Information and Data related technologies for aerospace applications. Examples are Archiving, Cybersecurity, Blockchain technologies or health monitoring. Main deliverables: LOTAR standards</p>
<p><b>Domain D12 Cabin</b> DTC: Ralf Schliwa, RWTH Aachen, Germany Domain secretary: Achim Schaube (DIN, Germany)</p>	<p>The Domain D12 covers standardization projects related to aircraft cabin systems. Active Working Groups are: D12/WG01 "Seats and Inflight Entertainment"; D12/WG02 "Ditching Equipment; D12/WG03 "Cabin monuments and supply systems"</p>



At ASD-STAN, we develop and publish two types of deliverables:  
ASD-STAN prEN and ASD-STAN TR.



prEN

EN

## ASD-STAN projected European Norm (prEN) and European Standard (EN):

ASD-STAN prEN is projected as the European Norm and is a precursor to the official CEN EN. Developed within a streamlined standardization process, all ASD-STAN prENs are subsequently transformed and published as EN standard without technical changes by CEN and its members. Our core values of openness, transparency, consensus, and balance are embedded in our Working Groups. Ensuring safety, experts from across Europe and the industry, including Original Equipment Manufacturers (OEMs) and Type Certificate (TC) holders, lead our Working Groups. For more information on the status of an ASD-STAN standard, visit our [FAQ section](#).

TR

## ASD-STAN Technical Report (TR):

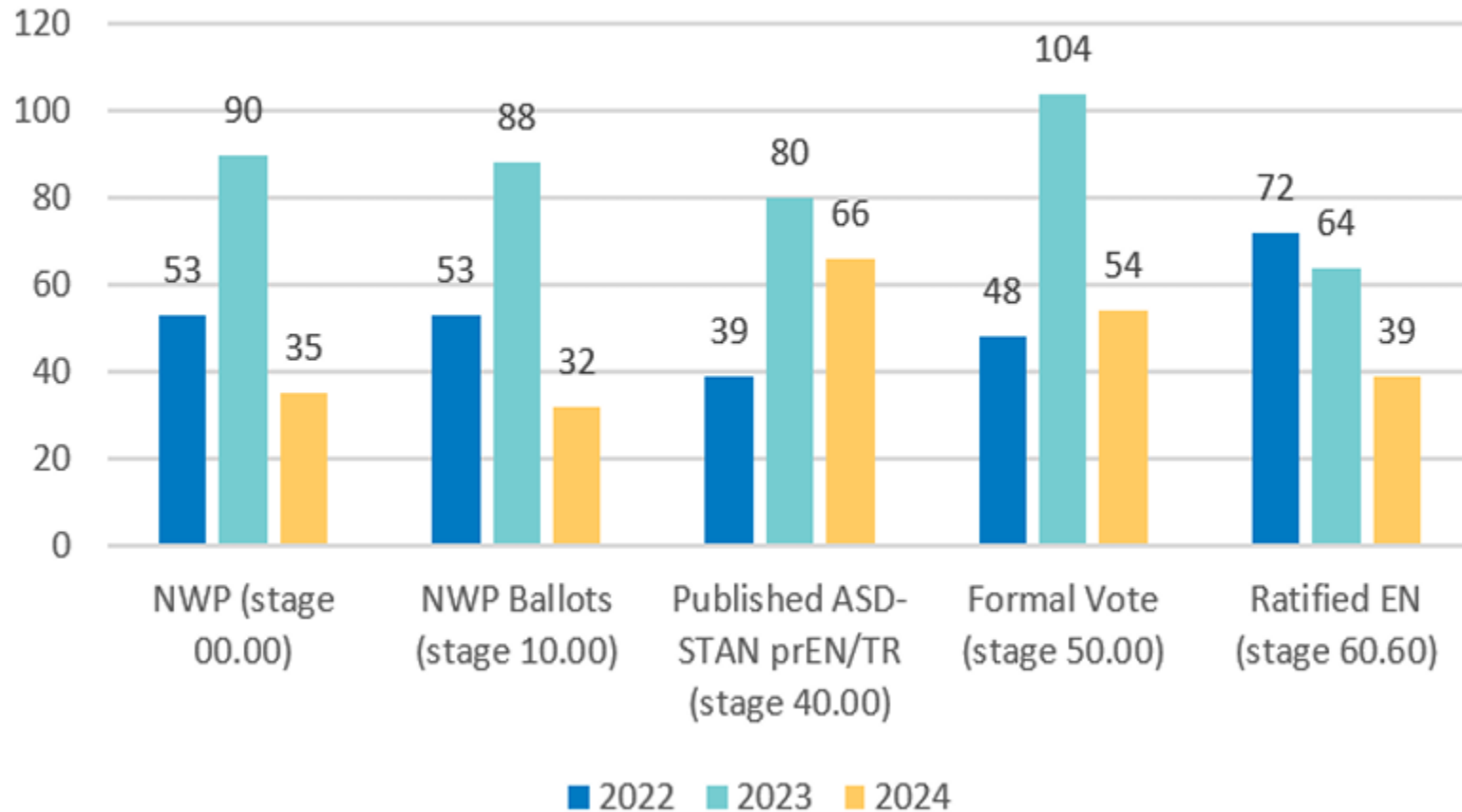
ASD-STAN TR is an informative document shedding light on the technical content of standardization work. It is published when:

- The subject is still under technical development, requiring wider exposure at its current status.
- Informative data of a different kind cannot be published as a European Standard (EN).

ASD-STAN TR does not undergo transformation into CEN TR and is part of the 5-year periodic review.

For further details on our process, visit the [Standardisation Process page](#).

## ASD-STAN Statistics-3 year overview



This graph provides a comparative analysis of key ASD-STAN standardization activities over the past three years (2022–2024). It highlights the trends in New Work Proposals (NWP), ballots, published ASD-STAN prEN standards, CEN Formal Votes, and ratified ENs.

# ASD-STAN Standardization Process



## Initiating a New Standard:

Anyone is welcome to propose a subject for standardization to ASD-STAN. Refer to our Standardization Process Manual for detailed instructions. The ASD-STAN Standardization Process is defined in detail in our

[Standardisation Process Manual \(SPM\)-Version 13 \(19 February 2024\)](#)



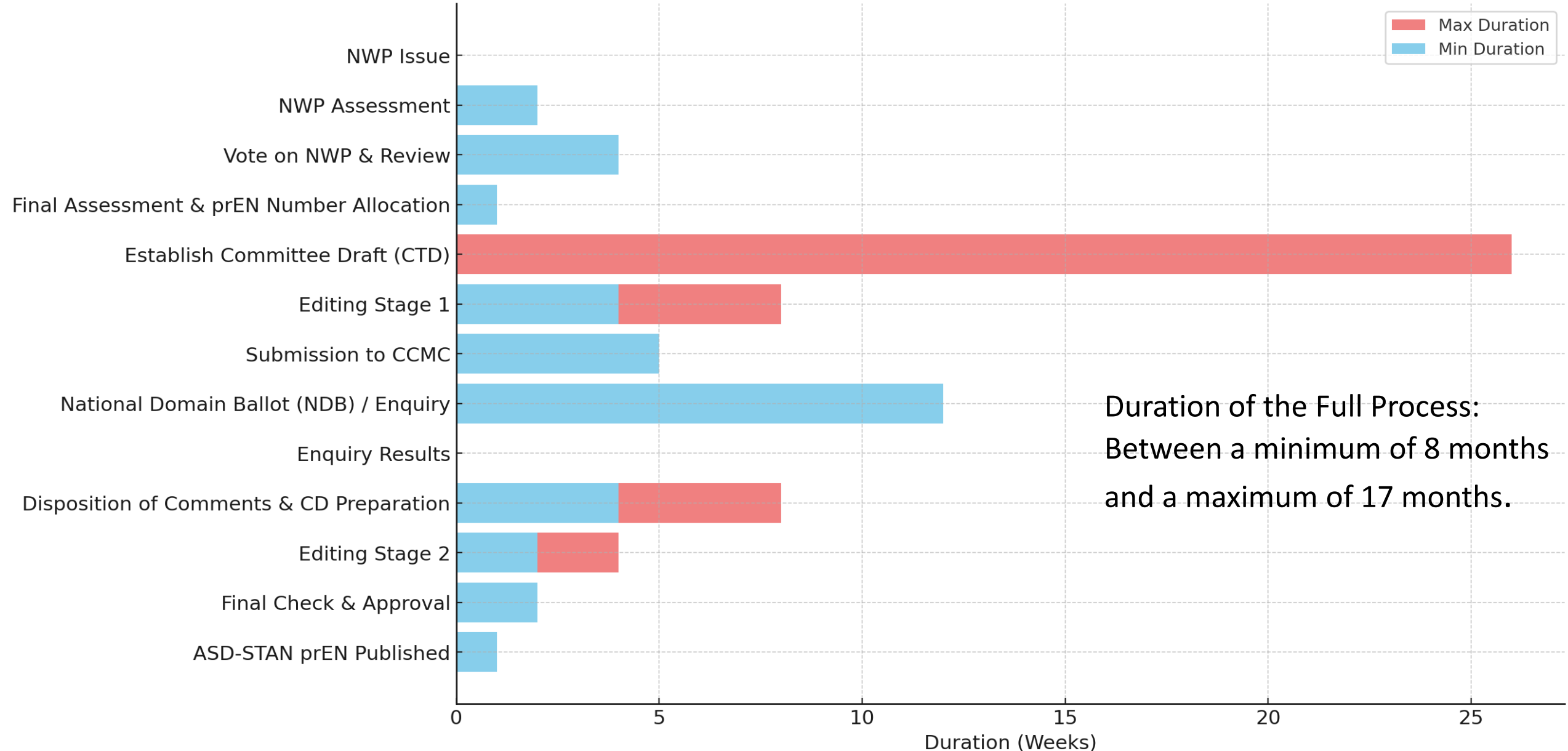
The ASD-STAN standardization process ensures compliance with the transparency requirements set forth in [Regulation \(EU\) 1025/2012](#), aligns with the principles of the [WTO Agreement on Technical Barriers to Trade's Code of Good Practice for the Preparation, Adoption, and Application of Standards](#), and adheres to the relevant provisions in the [CEN-CENELEC Internal Regulations](#).

**ASD-STAN**  
Standardization

**STANDARDIZATION  
PROCESS MANUAL**

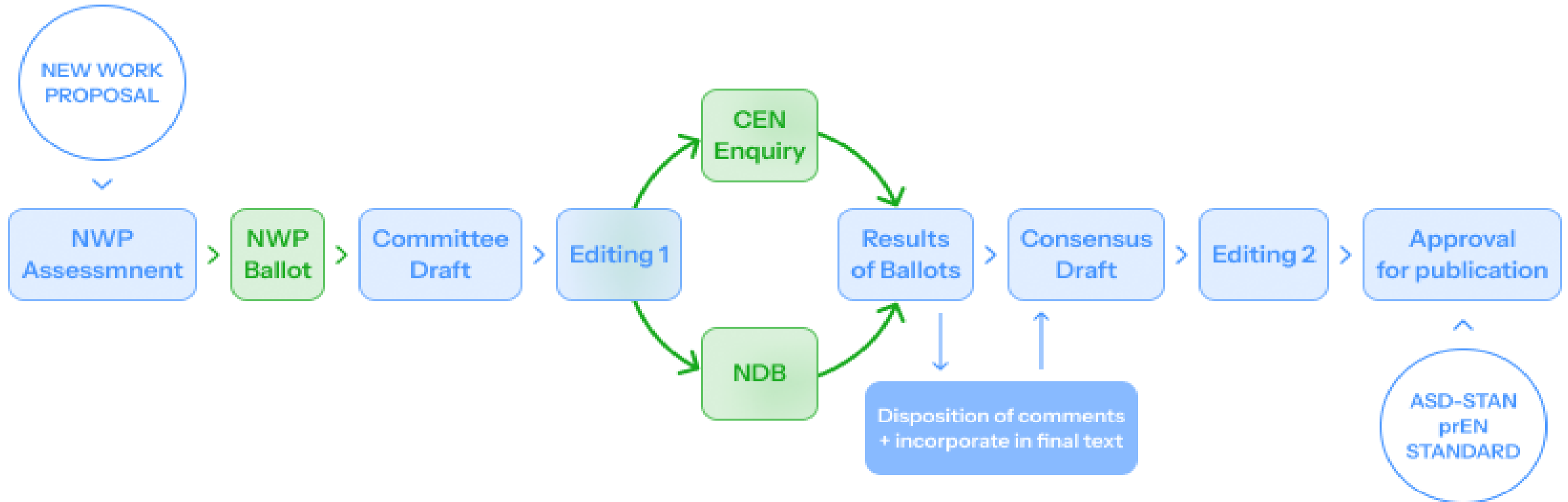
### Standardization Process Timeline with Min and Max Durations

■ Max Duration  
■ Min Duration



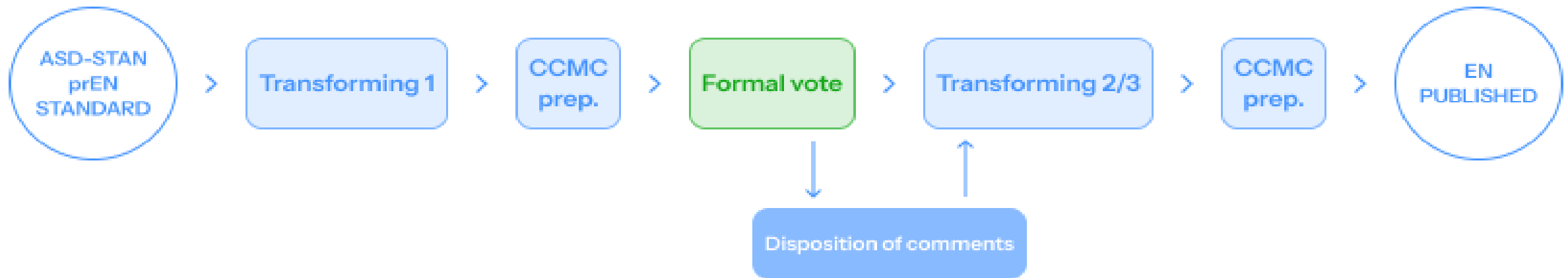
**Duration of the Full Process:**  
 Between a minimum of 8 months  
 and a maximum of 17 months.

# ASD-STAN prEN Process



Development & publication time is 8 to 17 months.

# ASD-STAN Transforming Process



Development & publication time is at least 14 months.

**No technical change is accepted during ASD-STAN prEN transformation into EN.**

## Key Outcomes of EN Ratification:


- **Public Accessibility:** EN standards are made publicly available, managed by National Standardization Bodies (NSB), ensuring broad access and adherence.
- **Harmonization:** Competing national standards are removed within six months, creating consistency and efficiency across the industry.
- **Legal Integration:** EN standards are easily incorporated into European legislation, strengthening regulatory alignment.
- **ASD-CERT Empowerment:** EN production enables ASD-CERT to offer efficient and cost-effective industry qualification services, streamlining the process for industry players.

## European standards:



### Global Applicability

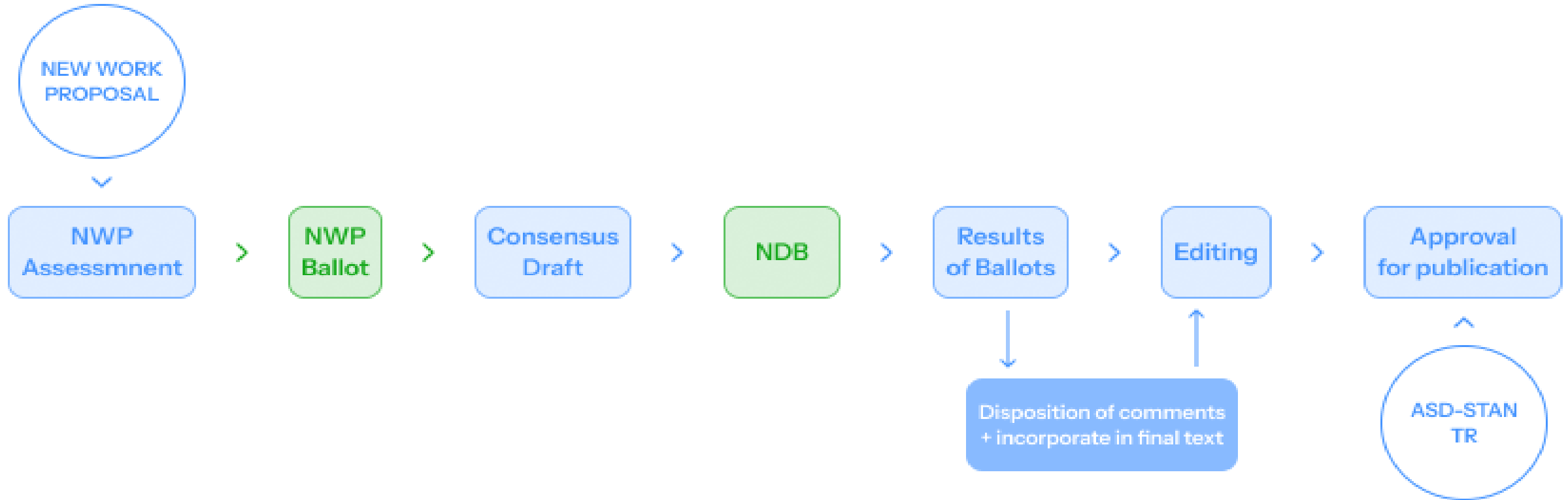
European standards are utilized on a global scale.



### Support for Regulatory Authorities and Public Acquisition

These standards play a crucial role in supporting regulatory authorities and public procurement processes.

# ASD-STAN Technical Report (TR) Process



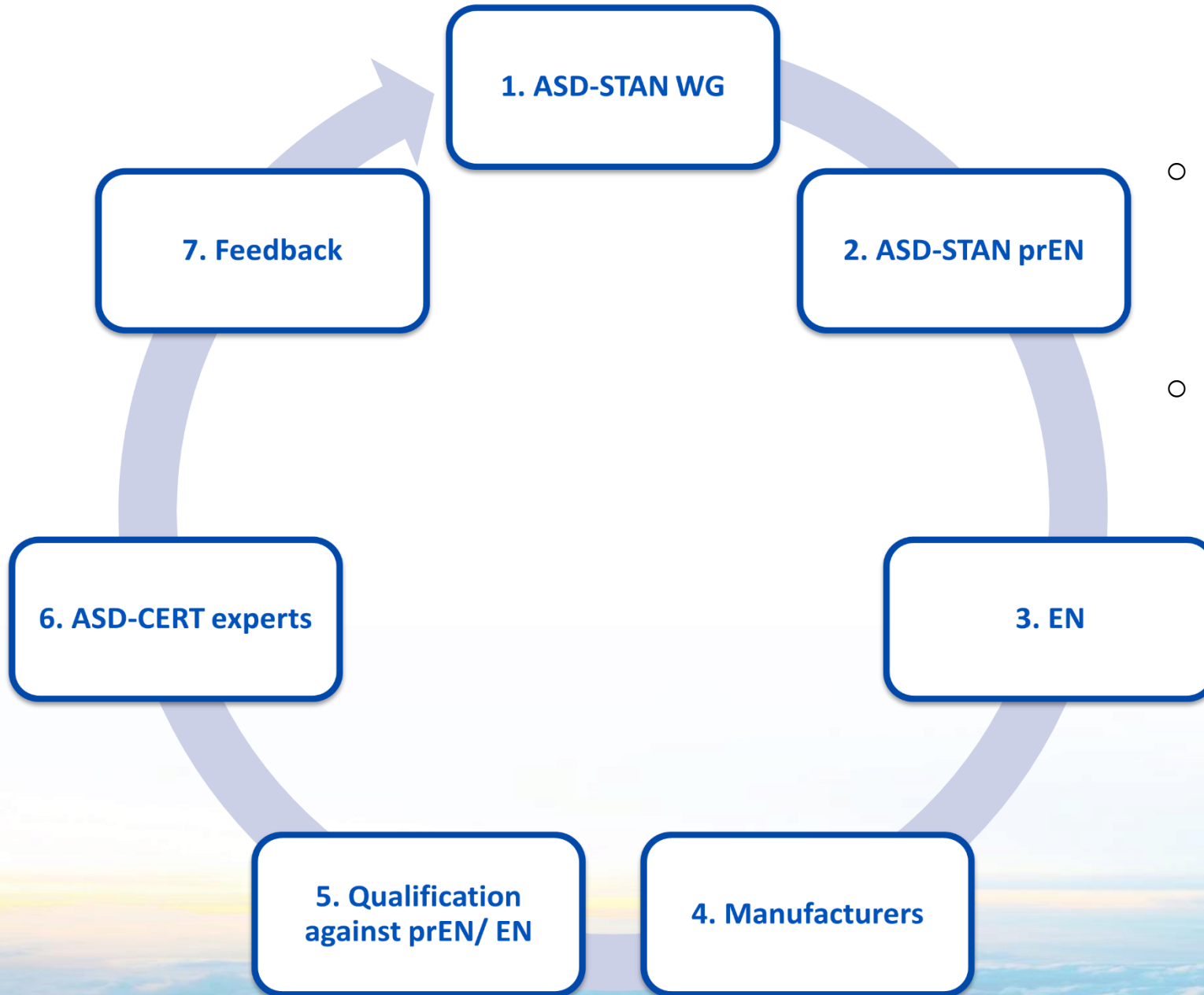
Development & publication time is minimum 6 months.



Collaboration with European and International organizations and other SDOs:

- ISO Liaison: Active collaboration with ISO/TC20 and other subcommittees ensures alignment with international standards, leveraging the Vienna Agreement for common ISO EN publications.
- Strategic Partnerships with other SDOs: Partnerships with EUROCAE, SAE, ASTM, AIA to ensure harmonization and avoid duplication in standards development.

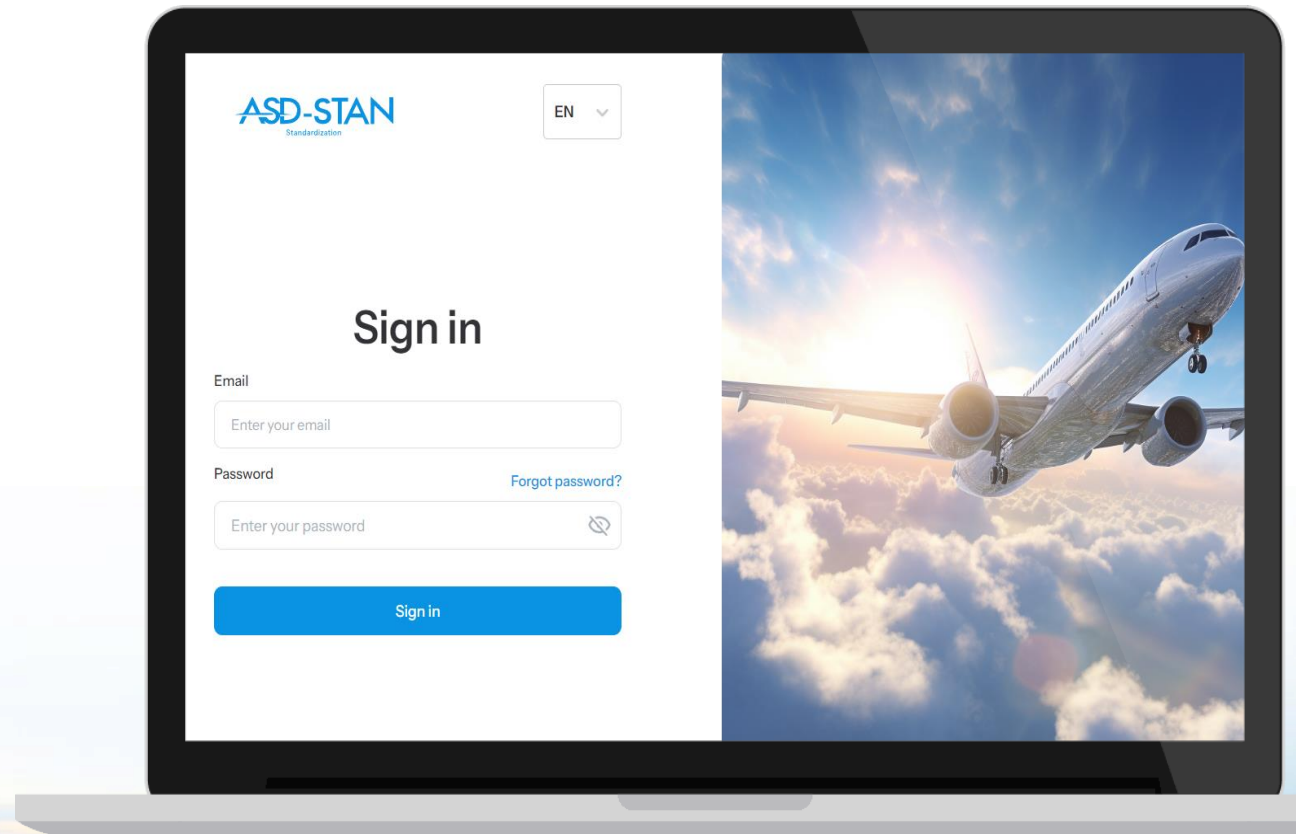
<b>ISO/TC 20</b>	Aircraft and space vehicles
<b>ISO/TC 20/SC 1</b>	Aerospace electrical requirements
<b>ISO/TC 20/SC 4</b>	Aerospace fastener systems
<b>ISO/TC 20/SC 10</b>	Aerospace fluid systems and components
<b>ISO/TC 20/SC 14</b>	Space systems and operations
<b>ISO/TC 20/SC 16</b>	Unmanned aircraft systems
<b>ISO/TC 20/SC 17</b>	Airport infrastructure
<b>ISO/TC 20/SC 18</b>	Materials
<b>ISO/TC 79</b>	Light metals and their alloys
<b>ISO/TC 155</b>	Nickel and nickel alloys
<b>ISO/TC 184</b>	Automation systems and integration
<b>ISO/TC 184/SC 1</b>	Physical device control
<b>ISO/TC 184/SC 4</b>	Industrial data
<b>ISO/TC 184/SC 5</b>	Interoperability, integration, and architectures for enterprise systems and automation applications



- **Certification Integration:** ASD-STAN prEN publications are utilized for training and qualification activities, ensuring industry-wide adherence to high-quality standards.
- **Feedback Loop:** ASD-CERT experts participate directly in working groups, providing valuable feedback that informs ongoing standard revisions.

## Fully integrated system: From conception to publication

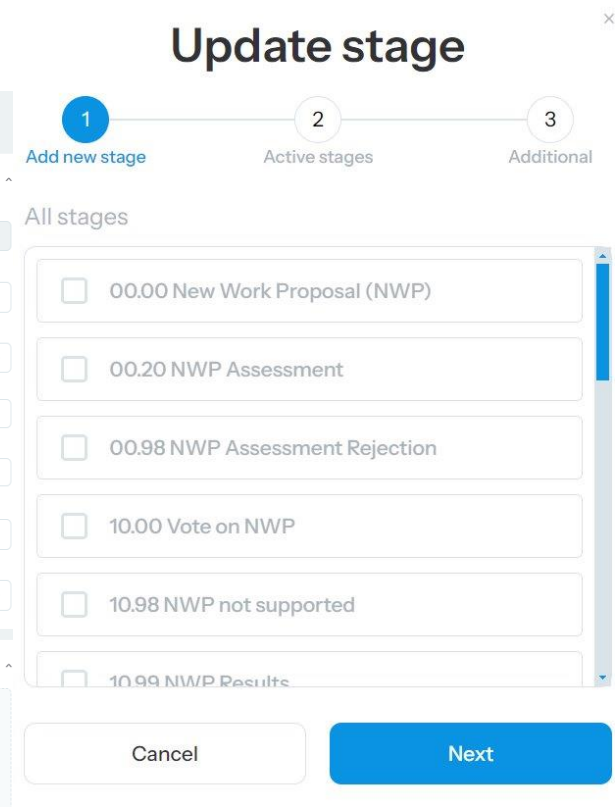
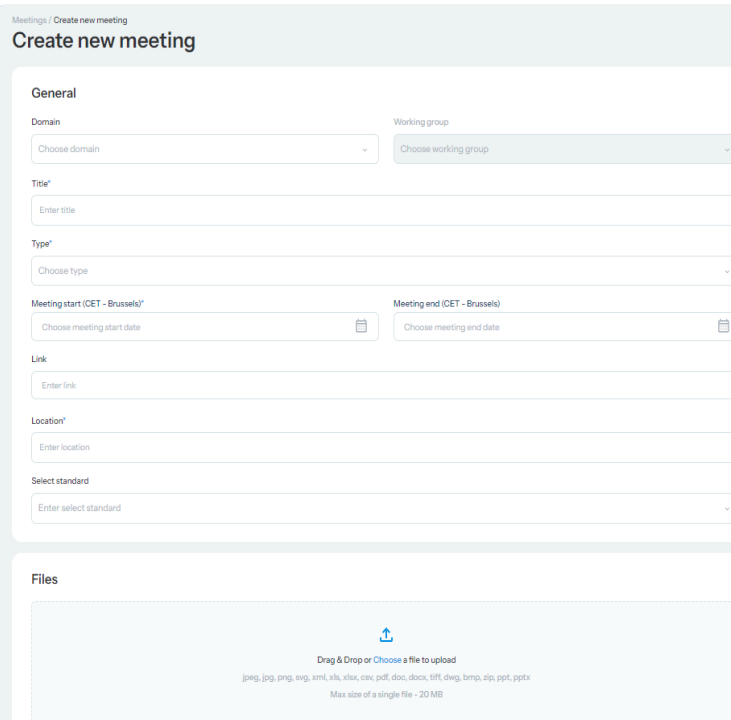
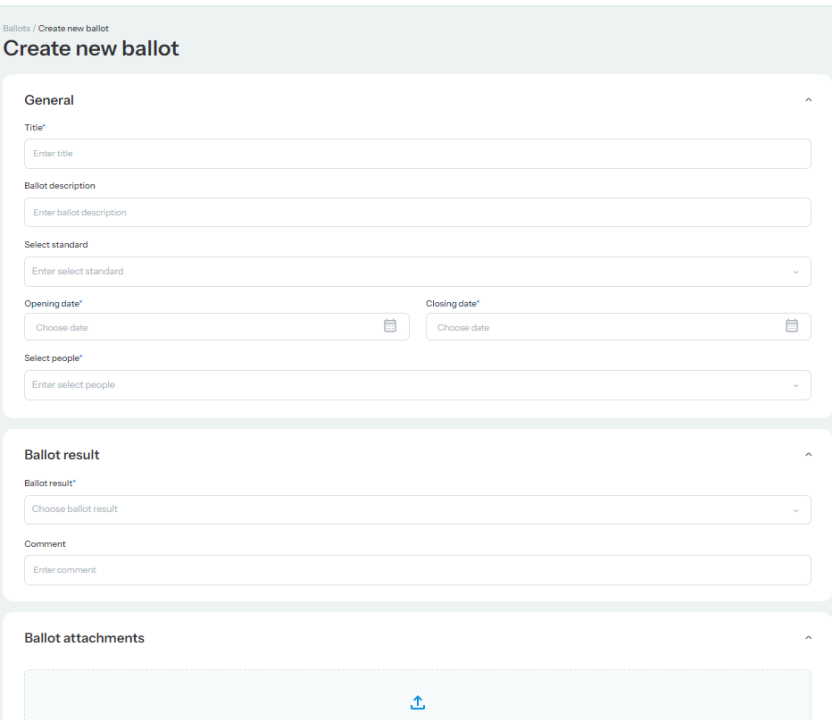
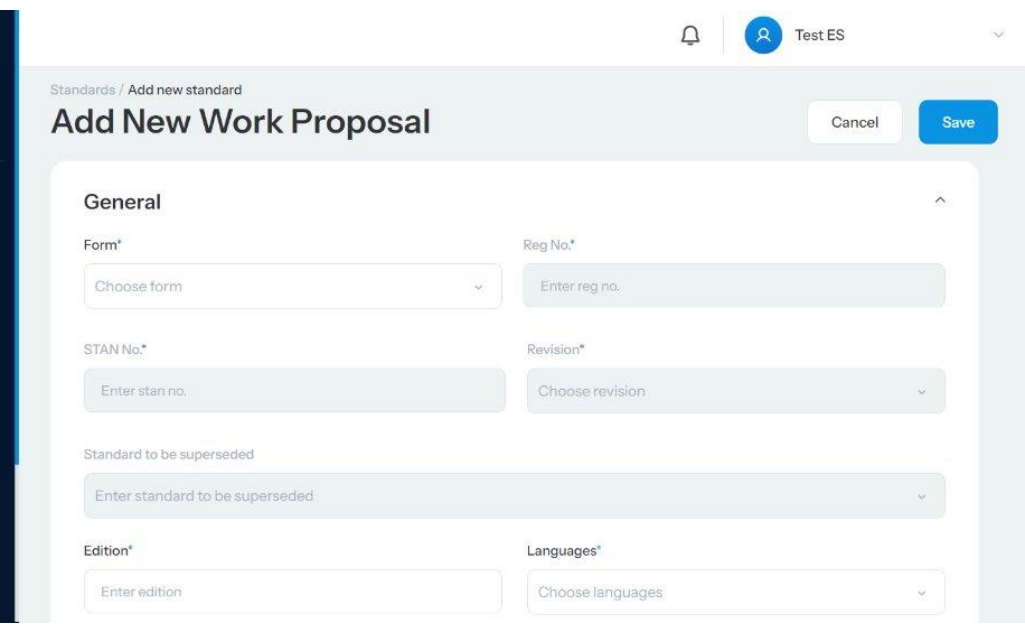
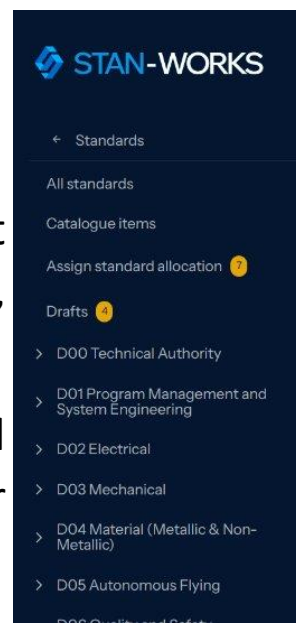
- Online platform to create digital native structured documents
- Interactive workflow management and document co-authoring
- Secure, cloud-based archiving



# STAN-Works

STAN-Works Platform: A comprehensive digital platform that streamlines standards management, workflow tracking, balloting, meeting and user management."

Integrated with [STAN-Shop](#): Enables seamless publication and distribution of ASD-STAN standards, ensuring easy access for industry stakeholders.



## Co-authoring with FONTO

Fully integrated FONTO XML editor allows collaborative authoring and editing. With optional AI support, tap into built-in industry expertise for precision and quality.

Fonto is trusted by ISO, Toyota, Tesla and many more.

The screenshot displays the FONTO XML editor interface. At the top, there is a dark navigation bar with the 'TraCert®-Works' logo, navigation icons, and tabs for 'Structure' and 'Tools'. A 'Share' button and a notification bell are also present. Below this is a secondary toolbar with options like 'Insert topic', 'Table', 'Image', 'Figure with equation', 'Chapter', 'Text', 'List', 'Editing', 'Download', and 'Search'. The main workspace is divided into three sections: a left-hand 'Outline' pane, a central content area, and a right-hand 'Properties' pane. The 'Outline' pane shows a tree structure for a document titled 'prEN Standard', with sections including 'ASD-STAN STANDARD NORME /', 'Foreword', '1 Scope', '2 Normative references', and '3 Terms and definitions'. The '1 Scope' section is currently selected. The central content area shows the text '1 Scope' followed by a 'BLOCK EQUATION' containing the mathematical expression  $\varphi + 3 = z$ . Below the equation is a 2x4 grid table. At the bottom of the content area, the text '2 Normative references' is visible. The 'Properties' pane on the right is currently empty. At the bottom of the editor, there is a breadcrumb trail 'Module > Chapter > Title' and a status bar with a notification bell, a chat icon, and an information icon.

# Our Vision & Future Outlook

- Accelerating Standardization: Commitment to expediting the European standard publication process for faster accessibility.;
- Addressing Industry Needs: A dynamic work program aligned with the evolving demands of the European aerospace sector.;
- Preventing Duplications: Ensuring proactive collaboration with other Standards Development Organizations (SDOs) to prevent overlaps.

## How to get involved?



### National Level

Through the ASD-STAN member, become an ASD-STAN member, or through CEN National Standardization Bodies/CENELEC National Committees.



### European Level

Become an ASD-STAN member or through the European ASD-STAN member.



### International Level

Become an ASD-STAN member or establish a collaboration agreement with ASD-STAN. ASD-STAN maintains liaisons with ISO Technical Committees.



Thank you for your attention!

