

# ASD-STAN

Standardization

Fostering innovation with European AeroSpace standards

January 2022

## About us

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**ASD-STAN** is an international non-profit association (AISBL) that develops and maintains European standards for the European aerospace & defence industry.

As an **associated body to [CEN](#)** (European Committee for Standardization) we are the main provider of European aerospace Norms (EN).

To enhance the competitiveness of European companies, we established a protocol with CEN to **shorten the process** of European standardization. **ASD-STAN** publishes projected-EN standards (ASD-STAN prEN) which are [technically identical to the final European Norm \(EN\)](#).

Our values of **openness, transparency, consensus and balance** are at the core of our Working Groups. Bringing experts from all across Europe and the industry together, we guarantee the safety of our standards by having Original Equipment Manufacturers (OEMs) and Type Certificate (TC) holders chair our Working Groups.

## What we do

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- Develop standards related to the design, production and maintenance of aircraft systems, equipment and standard parts
- Manage standardization projects in 10 Domains and 45 Working Groups
- Work in close cooperation with National Standardization Bodies (BNAE, DIN, BSI)
- Contribute to the promotion of European standards at international level
- Cooperate with EDA [EDSTAR](#) JMC on the application of civil standards for military purposes
- Act as the European body for the development of global quality aerospace standards by the International Aerospace Quality Group (IAQG)
- Provide trainings (ASD-STE 100 “Simplified Technical English”, REACH training)

## ASD-STAN members

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

➤ [GIFAS](#) – French Aeronautical and Space Industries Group



➤ [DIN](#) – German Institute for Standardization (NSB)

➤ [ADS](#) – UK Aerospace, Defence, Security & Space Industries association



➤ [TEDAE](#) – Spanish association of Defense, Aeronautics, Security and Space Technology Companies

➤ [AIAD](#) – Federation of Italian Companies for Aerospace, Defence and Security



➤ [SOFF](#) – Swedish Security and Defense Industry Association

➤ [ASD](#) - AeroSpace and Defence Industries Association of Europe



➤ [AIRBUS](#)

➤ [EASA](#) - European Aviation Safety Agency



More information about the involvement in the Aerospace Standardization and its benefits can be found on our web-page [“Why and how to be involved?”](#) and on our [corporate leaflet](#)

## Cooperation with CEN

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- **1986 AECMA-STAN recognized by CEN as an “Associated Body” and “Sole Provider of European Aerospace Standards”**
- ASD-STAN is the [CEN Technical Committee \(TC\) for “Aerospace”](#)
- About 2554+ currently published European Standards originate from ASD-STAN (16% of the total CEN/CENELEC publications of ENs)
- currently 314 published ASD-STAN prENs are in progress towards becoming ENs.
- More than 100 direct experts organized in 45 ASD-STAN WGs and 10 Domains
- 69 Technical Reports published by ASD-STAN
- Yearly production
  - (2019): ca. 42 ASD-STAN prENs and 170 ENs
  - (2020): ca. 43 ASD-STAN prENs and 43 ENs
  - (2021): ca. 39 ASD-STAN prENs and 21 ENs

## Our Main Projects:

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- EN 4179 — Qualification and approval of personnel for non-destructive testing
- EN 9100 series deriving from the International Aerospace Quality Group (IAQG)
- EN 6114 and 6115 — Bolts and Inch series
- EN 4709 series — UAS product requirements, CE marking and operating rules for the Open category (harmonized standards)
- DOA — Design Organization Approval standards
- LOTAR series — Long Term Archiving and Retrieval of digital technical product data-9300 series
- REACH compatible standards-new 7000 series

# Current & Future Strategic projects/topics

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- REACH compatible Standards
- Unmanned Aircraft Systems (EC standardization request, EASA specification on open category UAS)-*currently 4 harmonized standards are in the pipeline to be published as hENs in order to support European legislation on drones. The new Standardization Request from the EC is expected for additional 4 standards.*
- Additive Manufacturing
- Digitalization of standards (e-Coc)
- Batteries

# Work Programme

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- Covers all domains and working groups
- Available in the website following [this link](#)

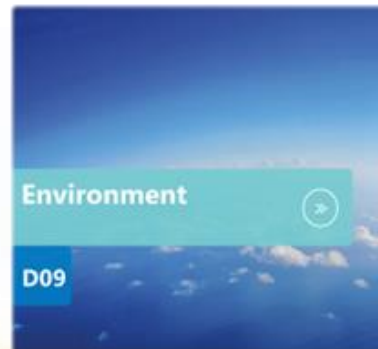


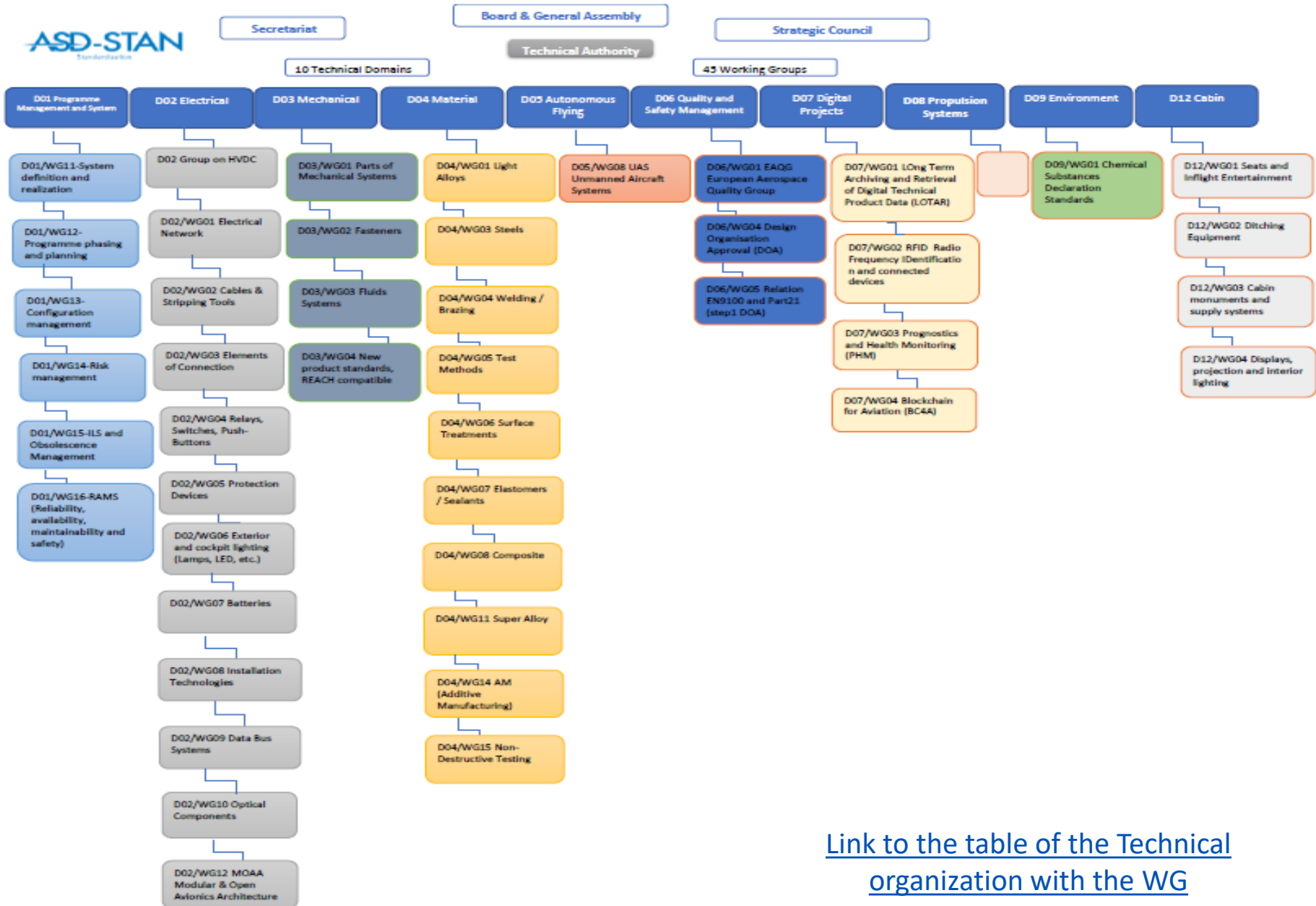
## WORK PROGRAMME

FOR 2021 AND BEYOND



# 10 domains of activity





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

## ASD-STAN prEN

The ASD-STAN prEN (projected European Norm) is an early publication of the CEN EN. The CEN EN is a later publication of the ASD-STAN prEN with a CEN coversheet.

**ASD-STAN prENs are technically identical (with exactly the same content) to the further EN publications by CEN members.**

*All the European Standards (EN) in the range between 2000-9999 are originating from ASD-STAN.*

ASD-STAN prEN publications can be used for any training and/or certification activity!

## Technical Report (TR)

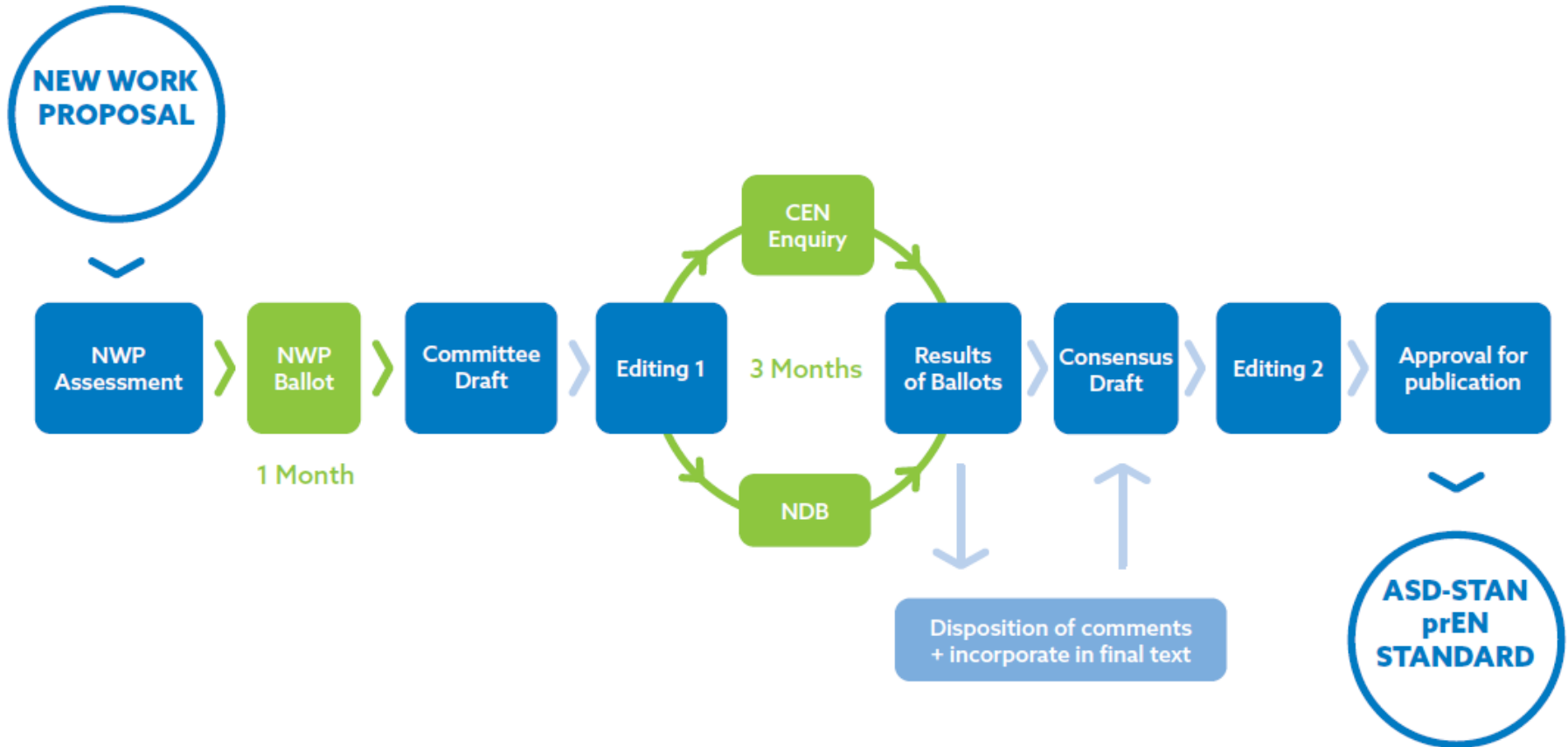
An informative document that provides information on the technical content of standardization work.

A TR can be published in the following cases:

- The subject to be covered by the TR is still under technical development requiring wider exposure but needs to be laid down at its current status for further development;
- Informative publication containing collected data of a different kind, which currently cannot be published as European Standard (EN).
- A TR may include, for example, data obtained from a survey carried out among members, data on work in other organizations, or data on the “state-of-the-art” in relation to national standards on a particular subject.

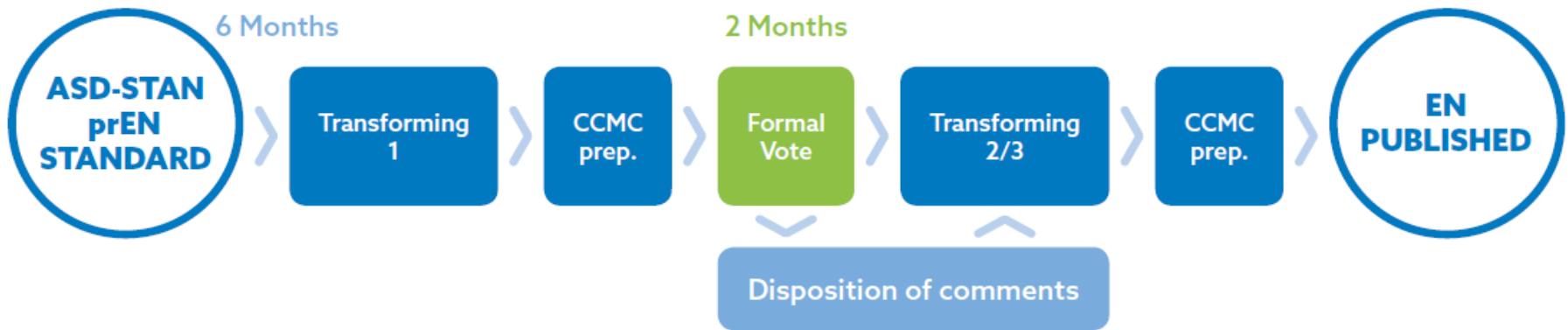
*ASD-STAN TR is **not** transformed into CEN TR and is part of the 5 years periodic review.*

# ASD-STAN prEN Process



Development & publication time is 8 to 17 months.

# ASD-STAN Transforming Process



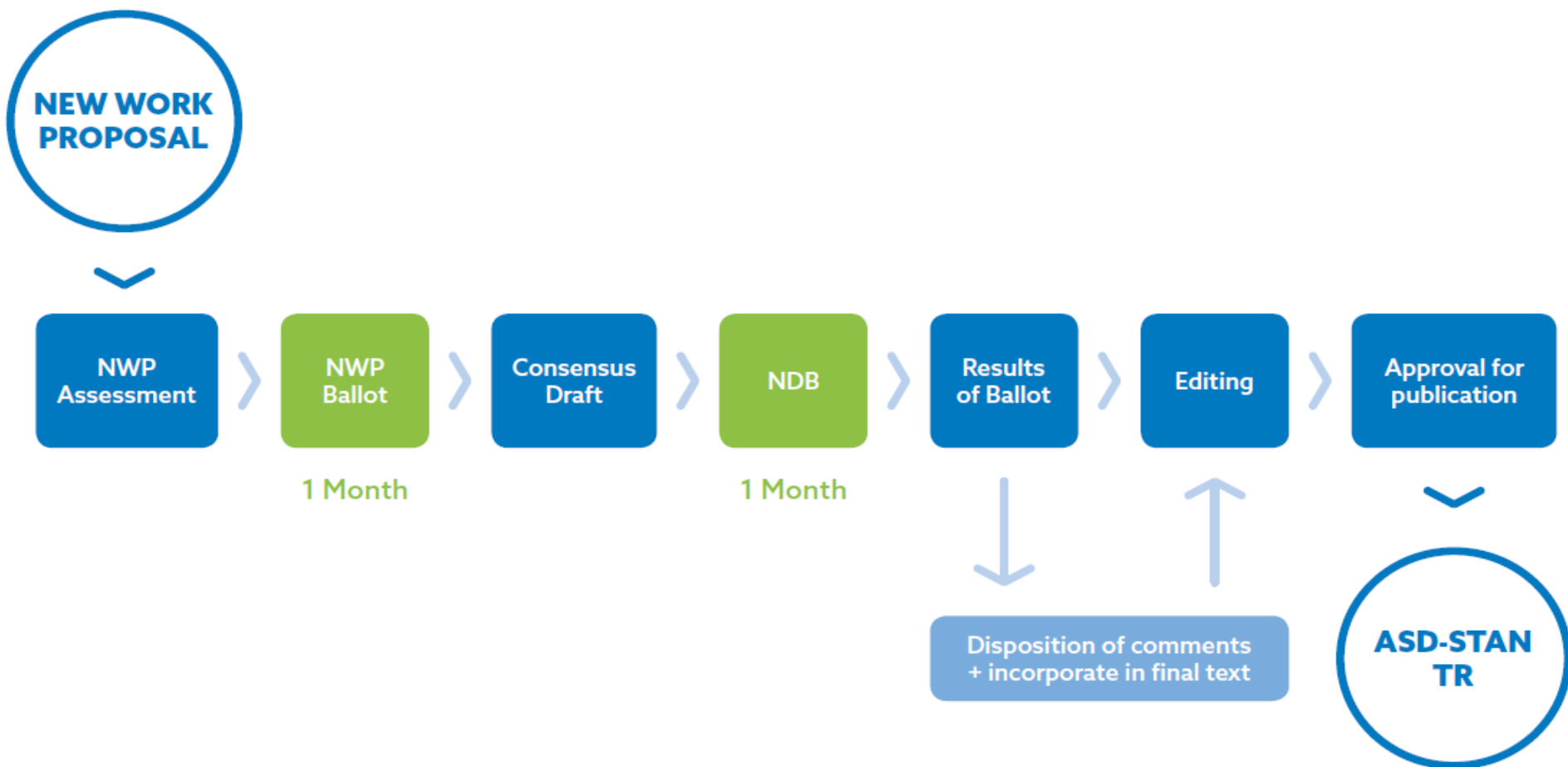
Development & publication time is at least 14 months.

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

## The production of an EN once ratified results in:

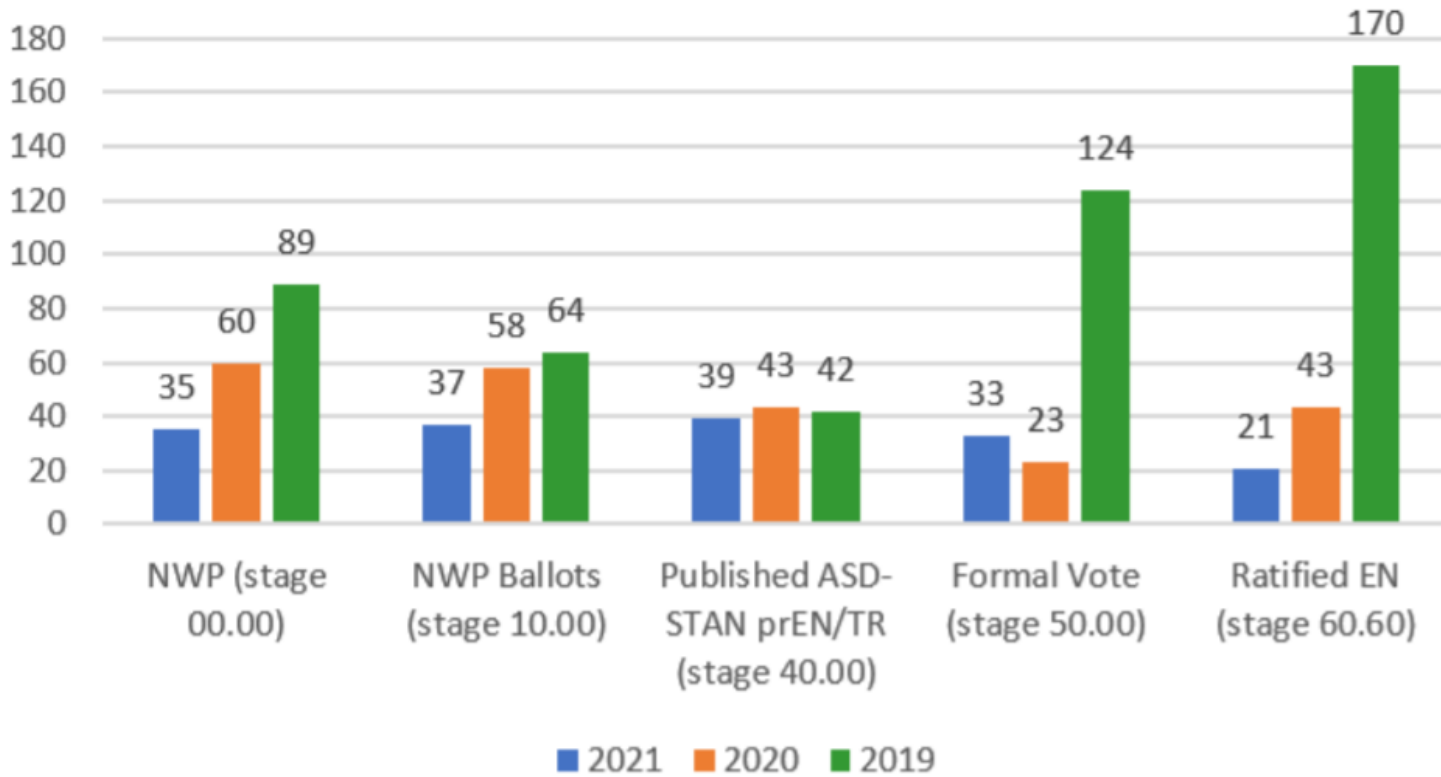
- a publicly available standard-owned, maintained and distributed by the National Standardisation Bodies;
- all competing National Standards being withdrawn by the National Standardisation Bodies within six months;
- permits its incorporation into European legislation thereby reinforcing its worth;
- allows ASD-CERT to provide certification at a much-reduced cost to industry.

# ASD-STAN Technical Report (TR) process



Development & publication time is minimum 6 months.

## ASD-STAN Statistics-3 years overview

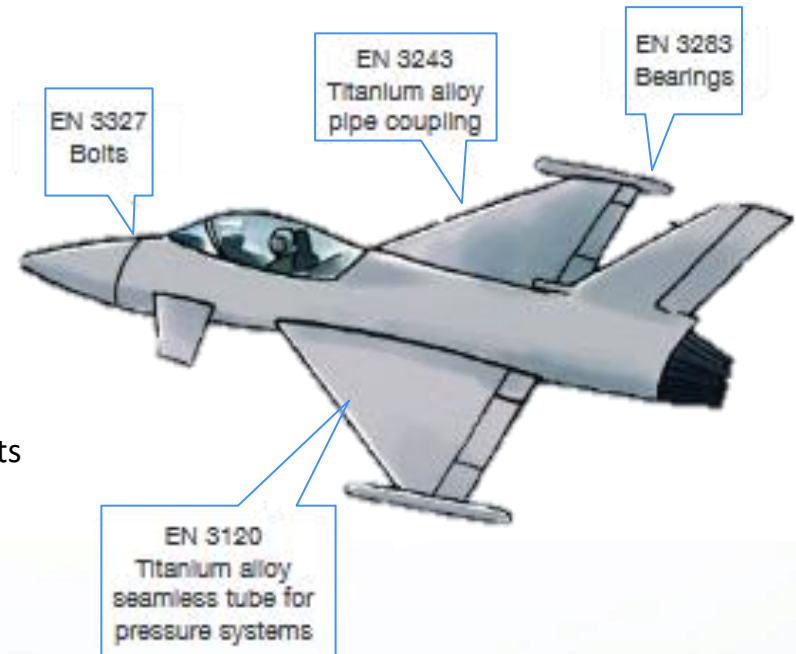




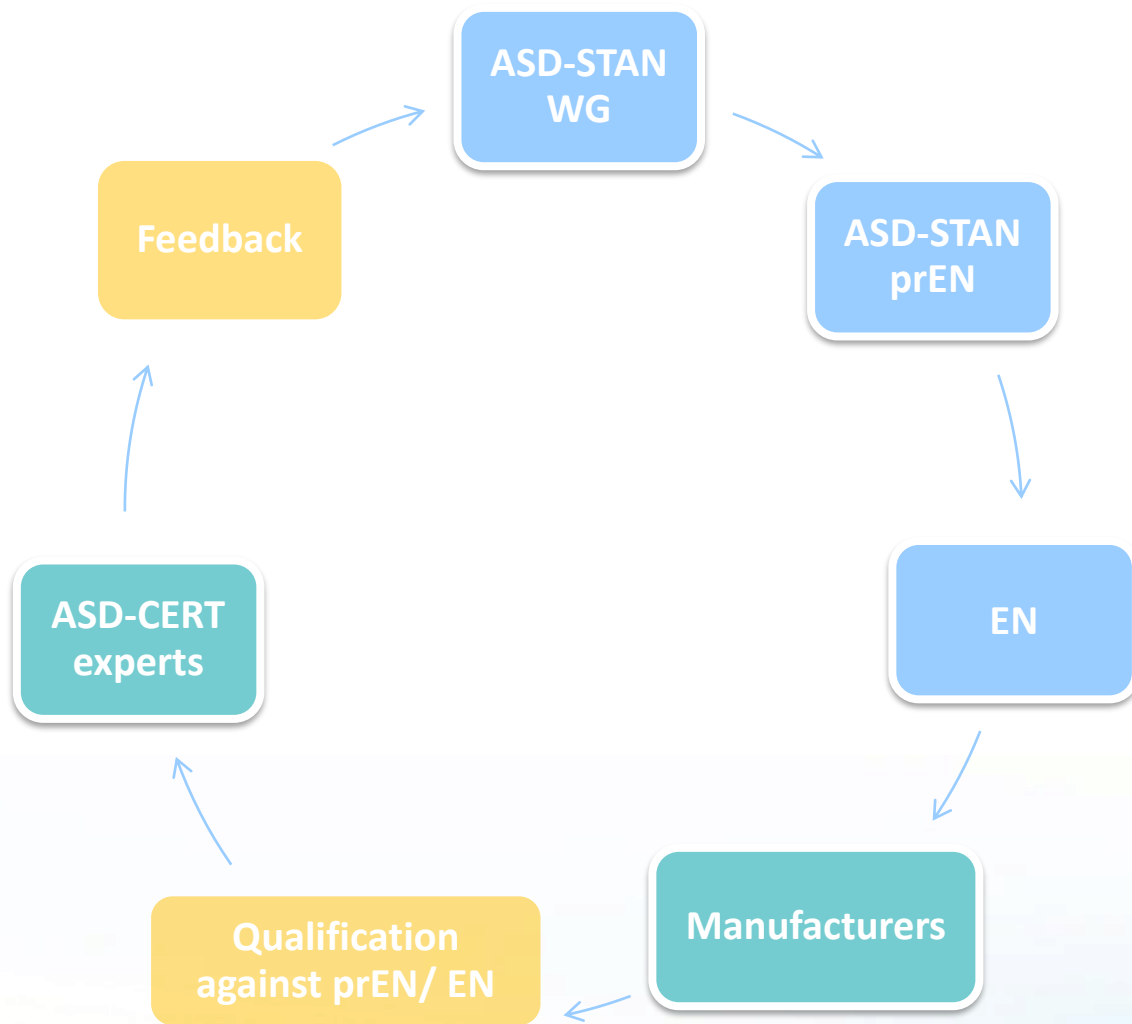
➤ More than 500 EN standards referenced on the European Defence Standards Reference System (EDSTAR) are originating from ASD-STAN

➤ EN developed standards are used in both civilian and military aircrafts:

- Domain D03 “mechanical”: developed ENs for Bolts, Nuts, fluidic fittings, Bearings, etc, are used for military aircrafts (Tornado, Mirage, Eurofighter, Rafale, gripen)
- Domain D02 “electrical”: developed ENs for civilian aircrafts (Circuit breakers, cables, connectors,...) like the A380 and A350 are also used for military aircrafts (A400m)



# ASD-STAN and ASD-CERT Cooperation



## Qualification

Since ASD-STAN prEN publication's technical content is identical to the ones of the CEN EN publication, ASD-STAN prEN publications can be used for any training and certification activity.

ASD-STAN works in close cooperation with ASD-CERT to extend certification and qualification activities with re-integrating ASD-CERT auditors' feedback into the revision of standards. To support the revisions needed ASD-CERT experts are directly participating in ASD-STAN working groups

<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 14</b>	Space systems and operations
<b>ISO/TC 20/SC 16</b>	Unmanned aircraft systems
<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

Vienna Agreement between ISO and CEN allows common development of ISO EN publications by ASD-STAN involvement

## Office

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Thank you for your attention!

