



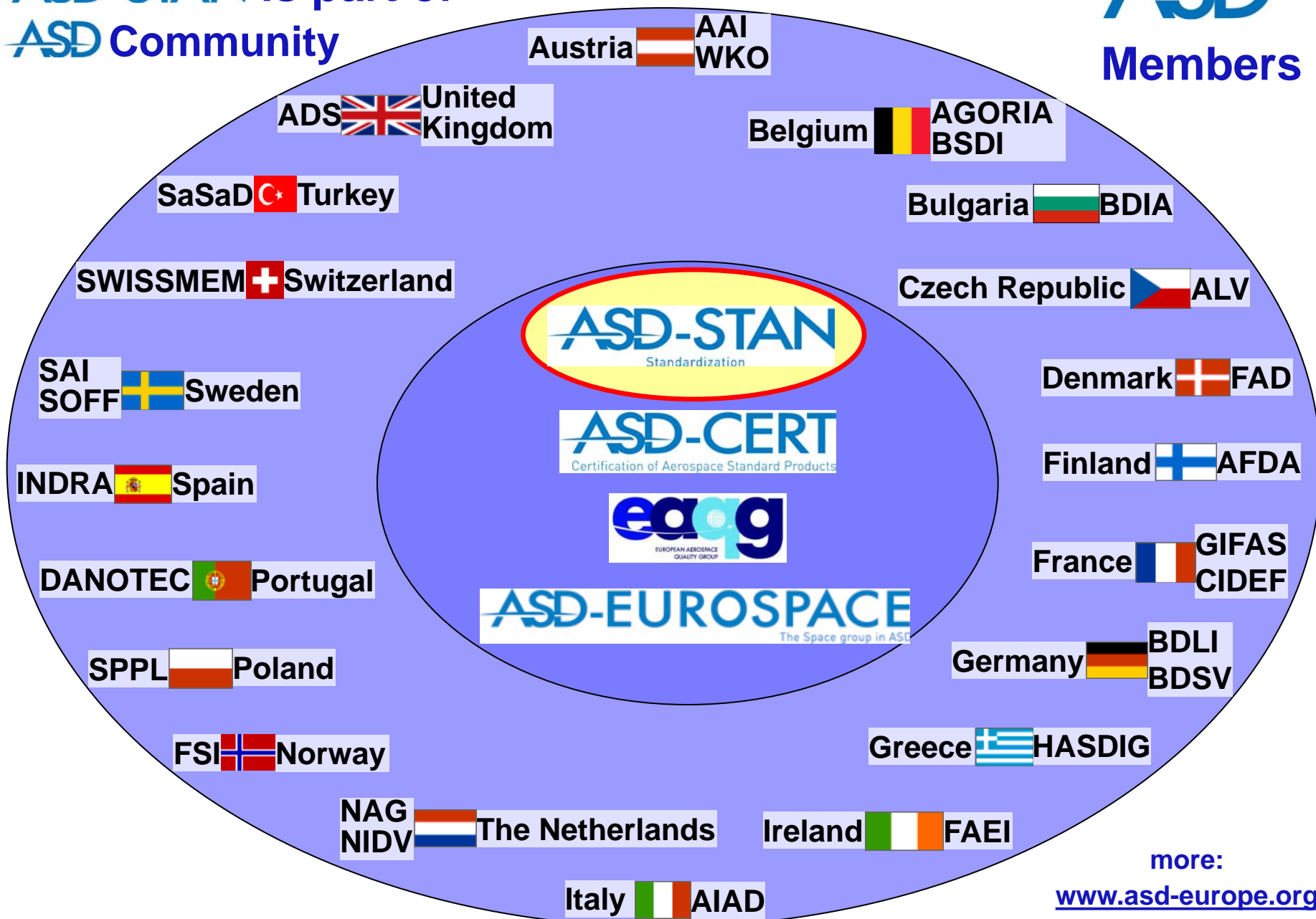
# ASD-STAN

## European Standards for Aerospace & Defence

**Andreas K. Jain**  
**ASD-STAN**  
**February 2019**

# ASD-STAN is part of ASD Community

# ASD Members



more:  
[www.asd-europe.org](http://www.asd-europe.org)

**ASD's overall mission is to enhance the competitive development of the Aeronautics, Space, Defence and Security Industry in Europe in partnership with European Institutions and Member associations.**

- ASD-STAN represents ASD in the field of Standardization
- ASD-STAN
  - develops standards,
  - maintains standards,
  - publishes and sells online its own standards and technical reports  
→ ASD-STAN projected European Norm (ASD-STAN prEN), ASD-STAN TR
  - Finally transfer ASD-STAN prEN standards to CEN to be published as European Norms (EN) (no technical change between ASD-STAN prEN and CEN EN)
  - Providing training (ASD-STD 100 “Simplified Technical English”, REACH, 9100)
- Active membership in ASD-STAN is by a number of ASD members and other organizations (updated [Statutes](#) April 2016\*)
- See “Why and how to be involved?” at our [Website!](#)

# ASD-STAN members



**UNITED KINGDOM**

UK Aerospace, Defence, Security & Space Industries (**ADS**)



**SWEDEN**

Swedish Security and Defence Industry Association (**SOFF**)



**GERMANY**

German Aerospace Standardization Board (**DIN-NL**)



European Aviation Safety Agency



**FRANCE**

Aerospace and Defence Industries Association of Europe

French Aerospace Industries Association (**GIFAS**)

**AIRBUS**

AIRBUS S.A.S



**SPAIN**

Spanish Association of Defense, Aeronautics and Space Technology Companies , **TEDAE**



**ITALY**

ITALIAN INDUSTRIES FEDERATION FOR AEROSPACE, DEFENCE AND SECURITY (**AIAD**)

### ASD-STAN is ...

... an international association constituted according to Belgian law

... a non-profit association “AiSBL”

... part of the European Standardization System implemented by CEN\*

... an affiliated company to ASD for development and publication of standards

\* CEN = Comité Européen de Normalisation, European Committee for Standardization




### ASD-STAN is ...




**Legal Address:** rue Montoyer 10/5  
1000 Brussels  
Belgium  
central office




**Remote Office:** Linder Höhe  
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part of DLR offices

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**Executive Manager (D1,D3,D6,D7,D8,D9,D12)**

### **ASD-STAN Board representation**

- Giovanni David, Airbus S.A.S. (Chairman)

### **ASD-STAN voting Board Members:**

- Séverin Drogoul, BNAE (G.I.F.A.S. France)
- Philippe Christophe, Dassault-Aviation (G.I.F.A.S. France.)
- Boris Quase, Airbus Germany (DIN Germany)
- Heinrich Hackmann, Airbus Space and Defence (DIN Germany)
- Dean Rogers, AIRBUS (ADS UK)
- Piero Visconti, Finmeccanica (AIAD Italy)
- Marcus Claseryd (Thomas Roos), Saab Aeronautics (SOFF Sweden)
- Jacinto Llorente, Airbus Space and Defence (TEDAE Spain)
- Eric Duvivier, EASA
- Vincent De Vroey, ASD
- Eva Faure, AIRBUS S.A.S.

### **Treasurer**

- Stéphane Laumond, G.I.F.A.S. France.

### **Representatives**

- Boris Quase (ASD-CERT)

### **Permanent Guests from DIN-NL, BNAE, ADS, BSI**



Cooperation with CEN since 1973 (AECMA CN → AECMA-STAN → ASD-STAN)

- 1986 AECMA-STAN recognised by CEN as “Associated Body” and “Sole Provider of Aerospace Standards” → ASD-STAN = CEN TC “Aerospace”
  - CEN member “stand still treaty” avoids new or revised national standards on the same subject
- 2450 currently published European Standards originate from ASD-STAN = 12% to the total CEN/CENELEC publication of ENs
- currently 744 published prEN by ASD-STAN, apart from that 107 Standards currently in progress towards EN.
- 332 ongoing standardization projects within ASD-STAN by 720 direct experts (multiplier) organized in 36 ASD-STAN WGs
- 68 Technical Reports published by ASD-STAN
- Yearly production (2018): ca. 107 ASD-STAN prENs and 125 ENs

- **Cybersecurity**
- **REACH compatible Standards**
- **Unmanned Aircraft Systems (EC standardization request, EASA specification on open category)**
- **Additive Manufacturing**
- **Digitalization of standards**
- **Search improvement for relevant standards on our webshop**
- **FCAS**
- **...**

Secretariat

Board & General Assembly

Strategic Council

Technical Authority

9 Technical Domains

General

Systems Engineering

Electrical

Electrical network  
Cables & stripping tools  
Elements of connection  
Relays  
Protection devices  
Lighting  
Batteries  
Installation technologies  
Data bus  
Optical  
MOAA Modular & Open Avionics Architecture

Mechanical

Parts of mechanical Systems  
Fasteners  
Fluids systems

Metallic & Non-Metallic Material

Ligh Alloys  
Steels  
Welding/brazing  
Test Methods  
Surface treatments (incl. Paints/varnishes)  
Elastomers/sealants  
Composite (incl. Adhesives / Honeycomb)  
Super alloy  
Additive Manufacturing  
Non Destructive Testing

Autonomous Flying

UAS Unmaned Aircraft Systems

Quality

IAQG QMS standards  
DOA  
Relation EN9100 and Part21

Digital Projects

LOTAR Long Term Archiving & retrieval of digital technical product data  
MoU with AIA ProSTEP, PDES  
RFID Radio Frequency Identification  
Built-In tests

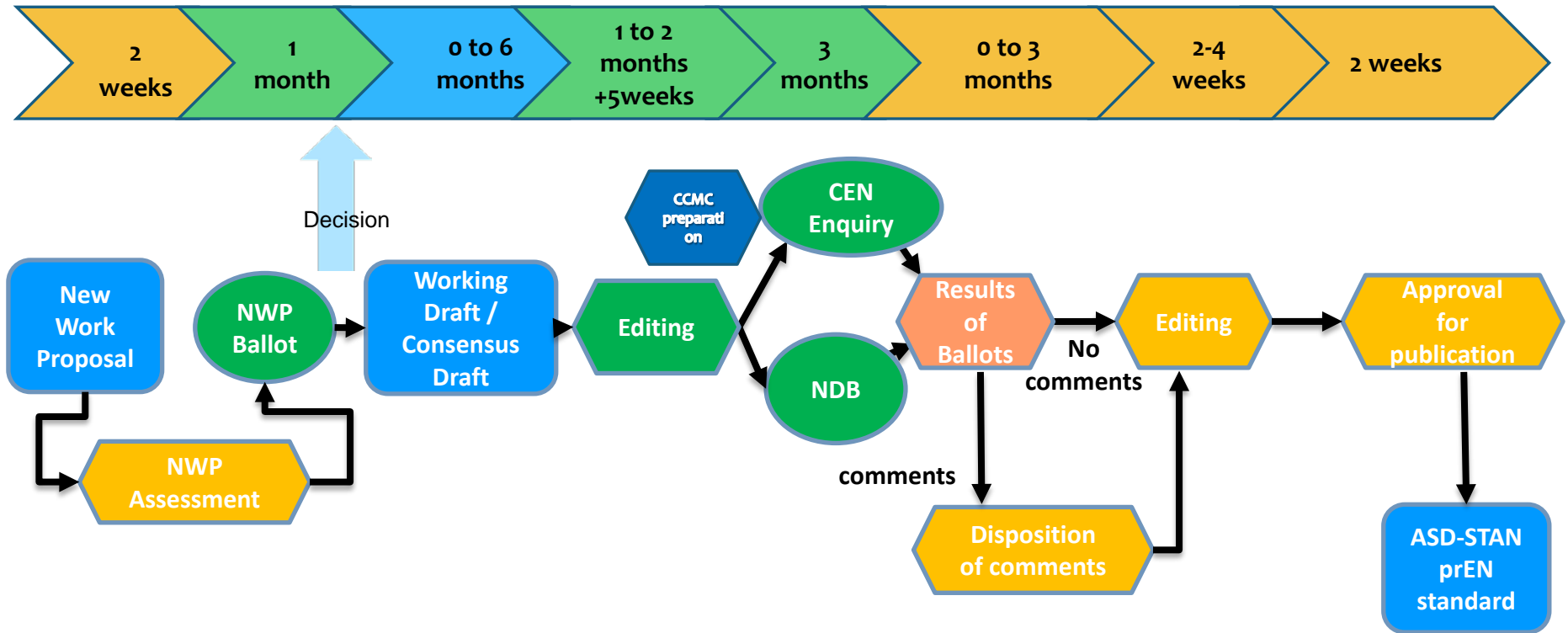
Aero engines and technologies

Cabin  
Seats & in-flight Entertainment  
Ditching Equipment  
Cabin monuments & supply sytems  
Displays, projection and interior lighting

Environment

Chemical substances declaration Standards (REACH)  
MoU with SAE  
200 REACH standards project

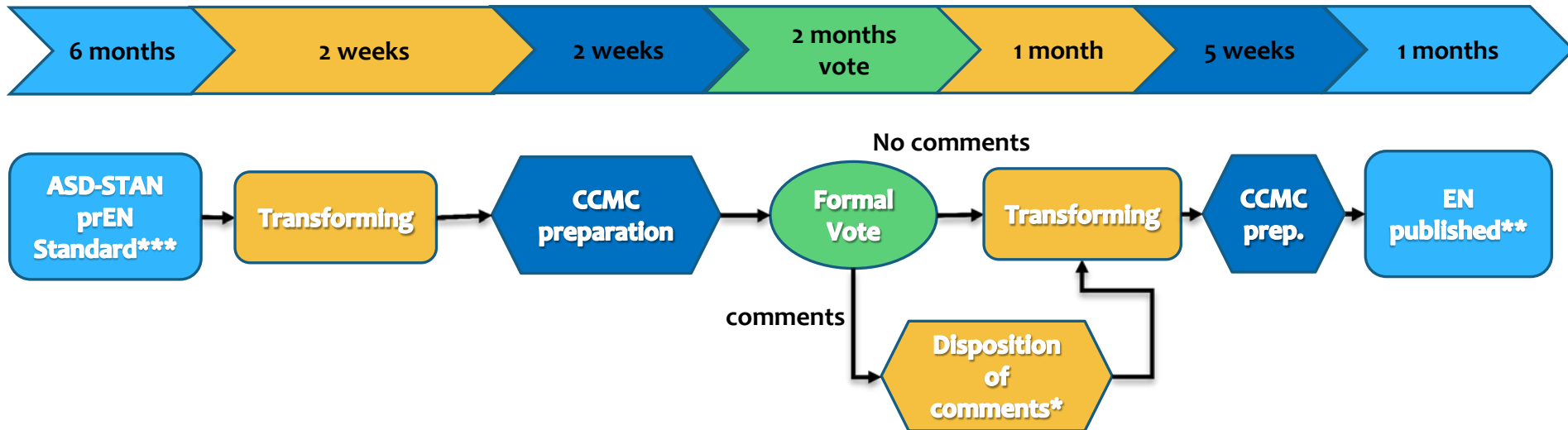
38 active Working Groups



Development & publication time 6,25 -16,5 months after approved NWI

For more details see the SPM: <http://www.asd-stan.org/standardisation-general-process/>

### Transforming of prEN into EN



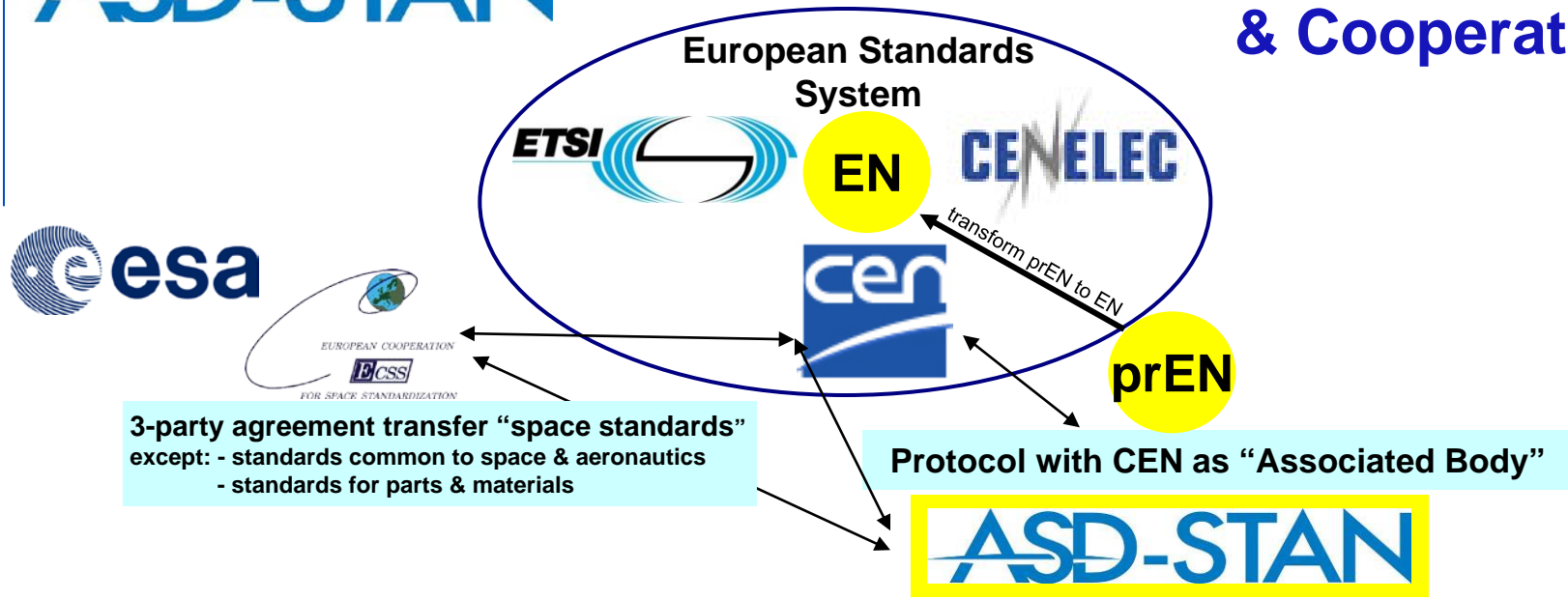
- \* No technical change is accepted during the transformation process from prEN to EN
- \*\* Date of the CEN release / Distribution handled by CEN members
- \*\*\* EN/FR translation activities

Development time: 5,5 months, after the prEN has been sent to CEN for Formal Vote

### ASD-STAN Policies are in line with CEN/ISO policies

- ASD-STAN Copyright and IPR Policy:
  - Guidelines and Rules for Copyright and Exploitation of Copyright for ASD-STAN products and deliverables including the transfer to CEN
  - Intellectual property rights of third parties to be respected
- ASD-STAN Trademark Policy
  - Guidelines and Rules for use of ASD-STAN and external trademarks in ASD-STAN standards
- ASD-STAN Patent Policy
  - Guidelines, Rules and Registration for use of Patents in ASD-STAN and CEN standards
- ASD-STAN GENERAL TERMS AND CONDITIONS FOR THE SALE OF STANDARDS
- ASD-STAN Privacy Policy with GDPR compliance

see <http://www.asd-stan.org/asd-stan-rules-and-policy-documents/>



## Cooperation Europe



## Cooperation worldwide



## Cooperation Defence



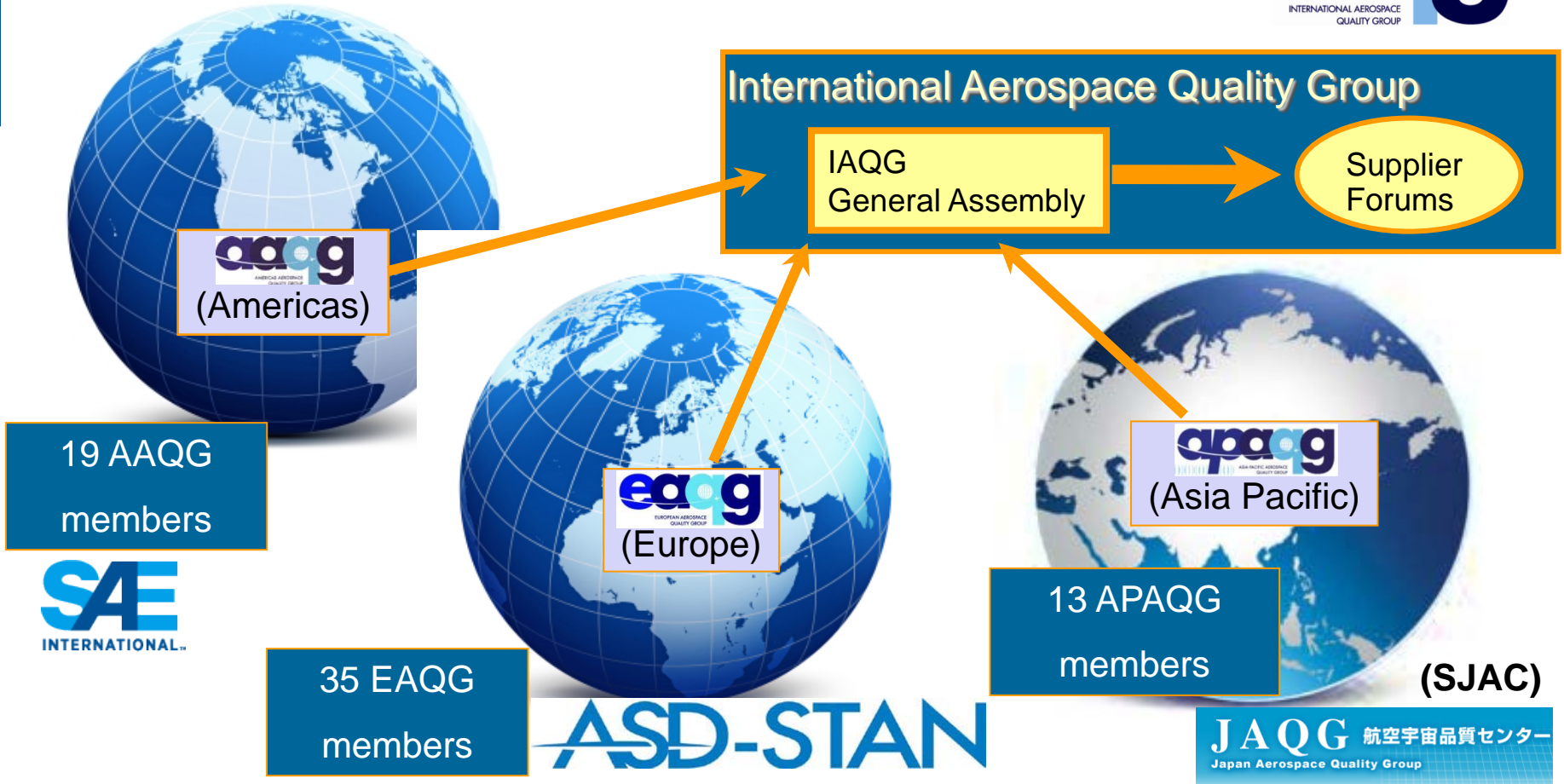
**Technical Cooperation Agreement**  
 e.g. STANAG 4626 = ASD-STAN prEN/EN 4660-001-005



## IAQG AeroSpace & Defence Quality Standards

- **ISO/TC 20**      **Aircraft and space vehicles**
- **ISO/TC 20/SC 1**      **Aerospace electrical requirements**
- **ISO/TC 20/SC 4**      **Aerospace fastener systems**
- **ISO/TC 20/SC 14**      **Space systems and operations**
- **ISO/TC 20/SC 16**      **Unmanned aircraft systems (in preparation)**
- **ISO/TC 79**      **Light metals and their alloys**
- **ISO/TC 155**      **Nickel and nickel alloys**
- **ISO/TC 184**      **Automation systems and integration**
- **ISO/TC 184/SC 1**      **Physical device control**
- **ISO/TC 184/SC 4**      **Industrial data**
- **ISO/TC 184/SC 5**      **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**



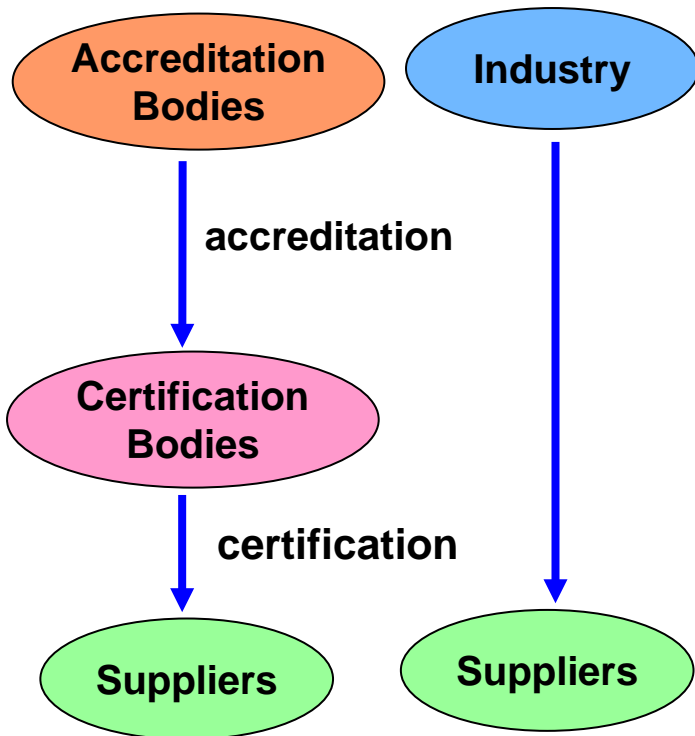


regional support towards standards development and implementation

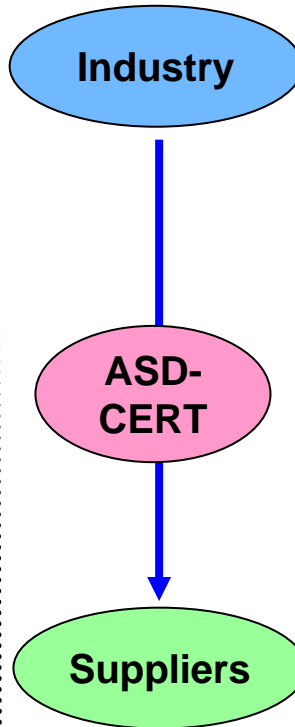
## “traditional” scheme

3rd party  
Certification  
for ISO 9001

2nd party  
audits

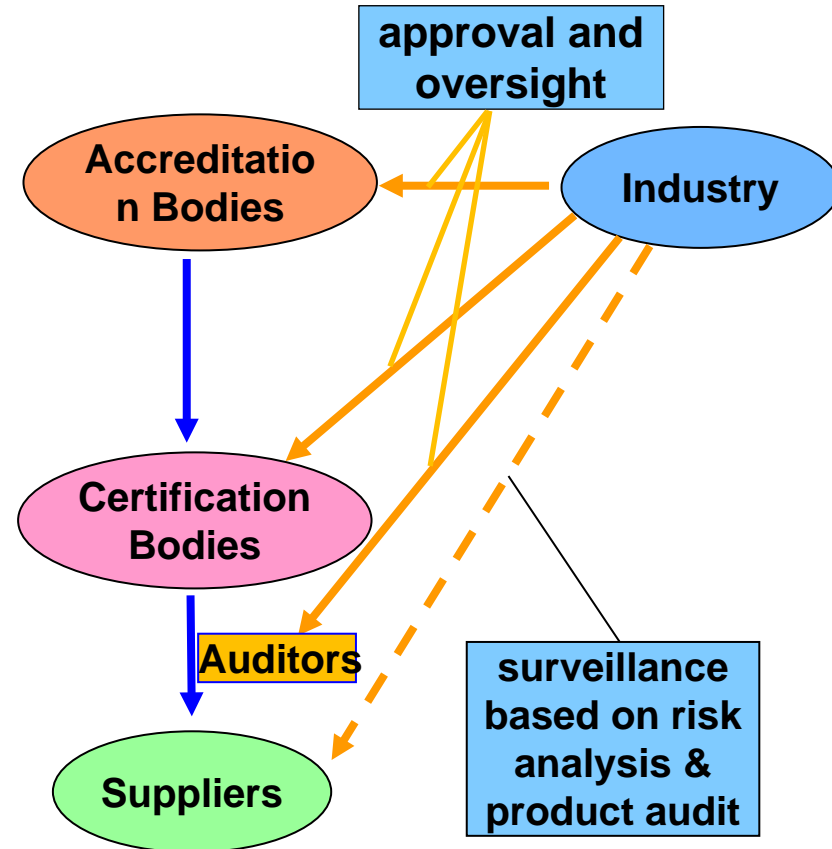


ASD-CERT  
certification  
(EN9133  
product  
qualification)



## Supporting Certification schemes

## “IAQG ICOP” scheme



**ASD-STAN, Industrial Standardization Organization recognized by CEN**

- **develops Standards for Aerospace & Defence products**
- **cooperates with European and International Standardization Organizations**
- **cooperates in respect of application of civil standards in the defence environment (EDA EDSTAR, CEN DSCG, EDA JMC)**

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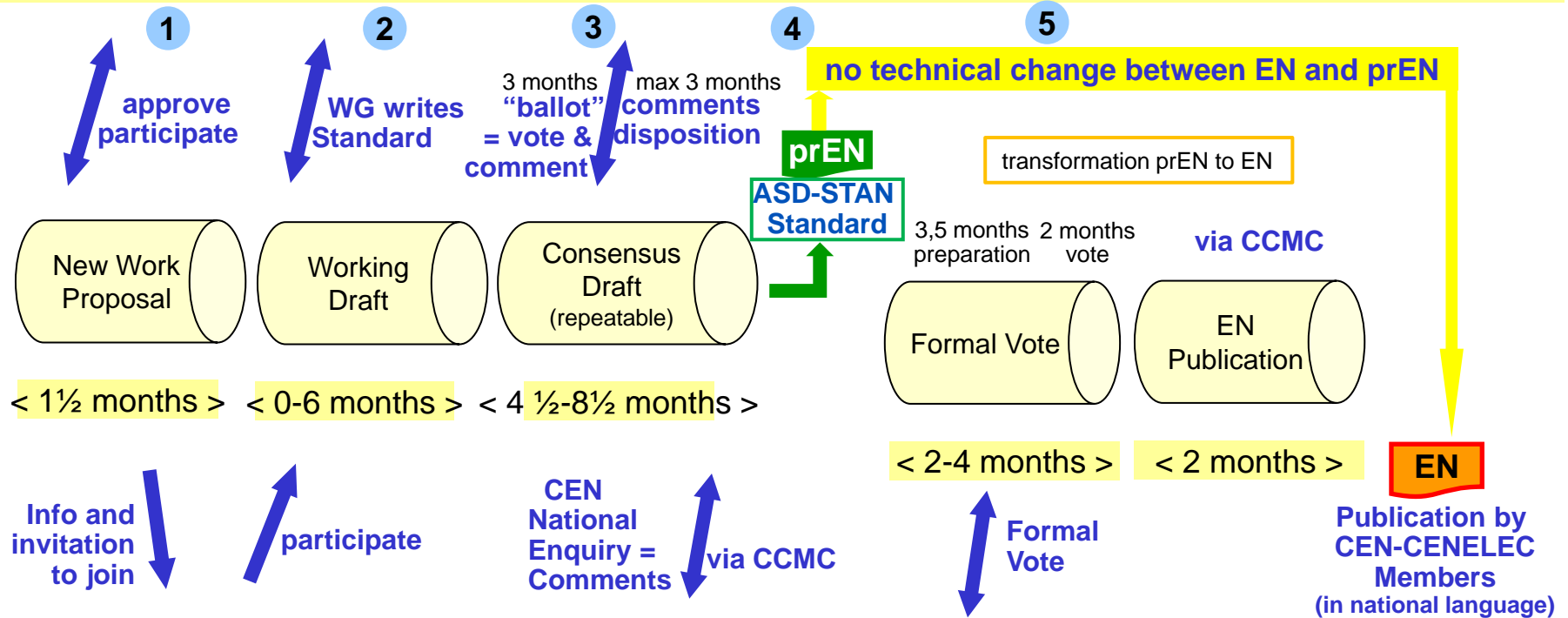
Web: [www.asd-stan.org](http://www.asd-stan.org)

ASD-STAN Standardization  
10 rue Montoyer, 1000 Brussels, Belgium

# **BACKUP**

### ASD-STAN

Project Team, WG Secretariats, WG Leaders,  
Focal Points & Technical Coordinators, Member Coordinators



### CEN-CENELEC

CCMC + 34 National Members (National Standards Organizations)

- Process:
- 1 receipt and approval of New Work Proposal
  - 2 standard development
  - 3 ballot, comments, comments disposition
  - 4 prEN publication
  - 5 transformation prEN to EN for subsequent national publication