

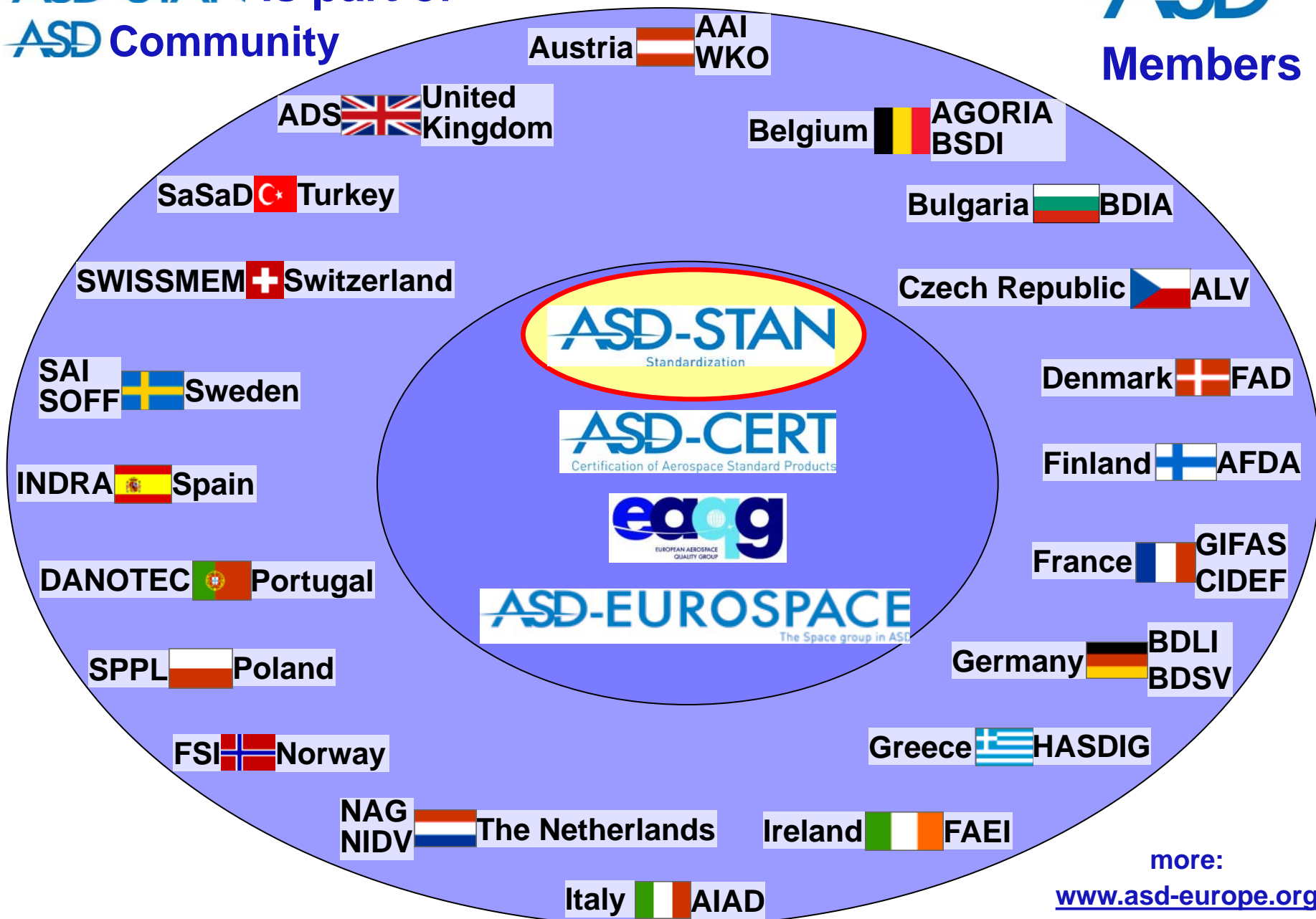


ASD-STAN

European Standards for Aerospace & Defence

Andreas K. Jain
ASD-STAN
September 2018

ASD-STAN is part of ASD Community



more:
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**)



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 ...




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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, Saab Aeronautics (SOFF Sweden)
- Jacinto Llorente, Airbus Space and Defence (TEDAE Spain)
- Eric Duvivier, EASA
- Vincent De Vroey, ASD

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
- 2374 currently published European Standards originate from ASD-STAN = 11% to the total CEN/CENELEC publication of ENs
- currently 851 published prEN by ASD-STAN, apart from that 225 Standards currently in progress towards EN.
- 332 ongoing standardization projects within ASD-STAN by 720 experts organized in ASD-STAN WGs
- 66 Technical Reports published by ASD-STAN
- Yearly production (2017): ca. 72 ASD-STAN prENs and 123 Ens 2018 (2018~320)

- **REACH compatible Standards**
- **Unmanned Aircraft Systems (EC mandate, EASA regulations on open category)**
- **Additive Manufacturing**
- **Digitalization of standards**
 - **Content (requirements),**
 - **provision of additional machine-readable data**
- **Search for relevant standards not based solely on No., keywords, but also on:**
 - **Classification**
 - **Parts (qualified)**
 - **Certifications...**

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

Digital Projects

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

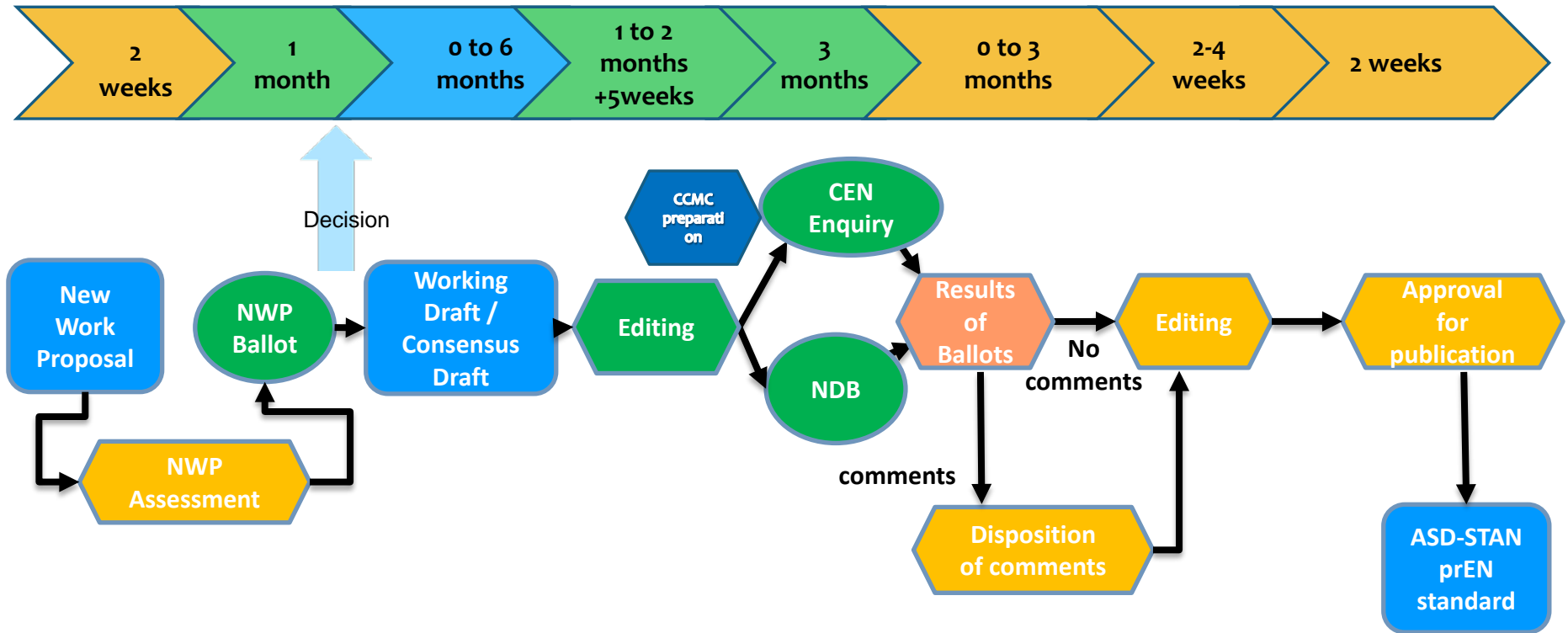
Aero engines and technologies

Cabin
Seats & in-flight Entertainment
Ditching Equipment
Cabin monuments & supply sytems

Environment

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

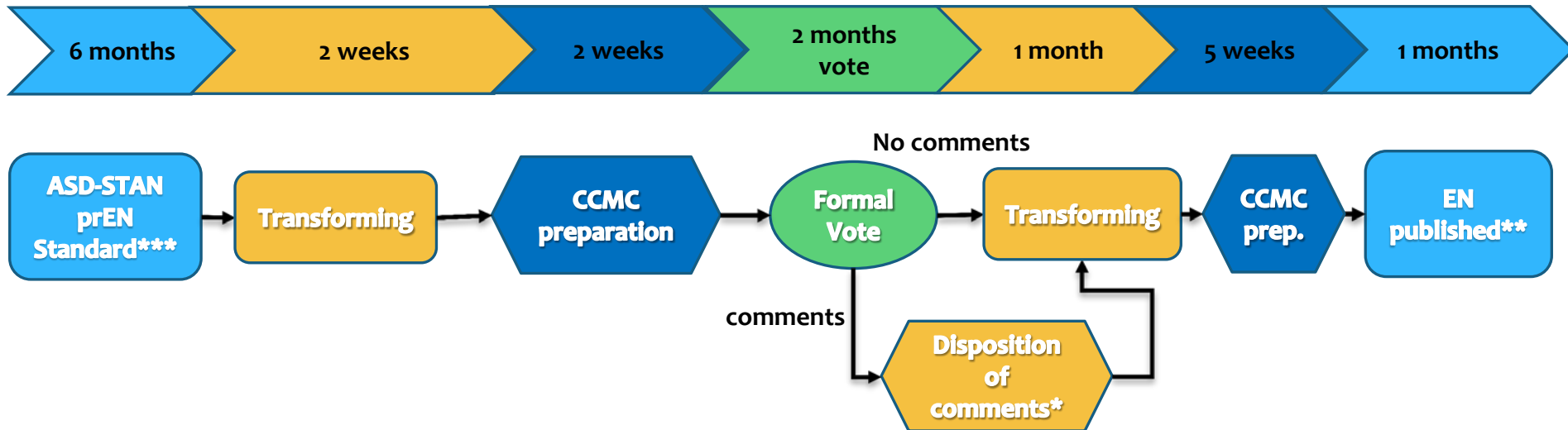
36 active Working Groups



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



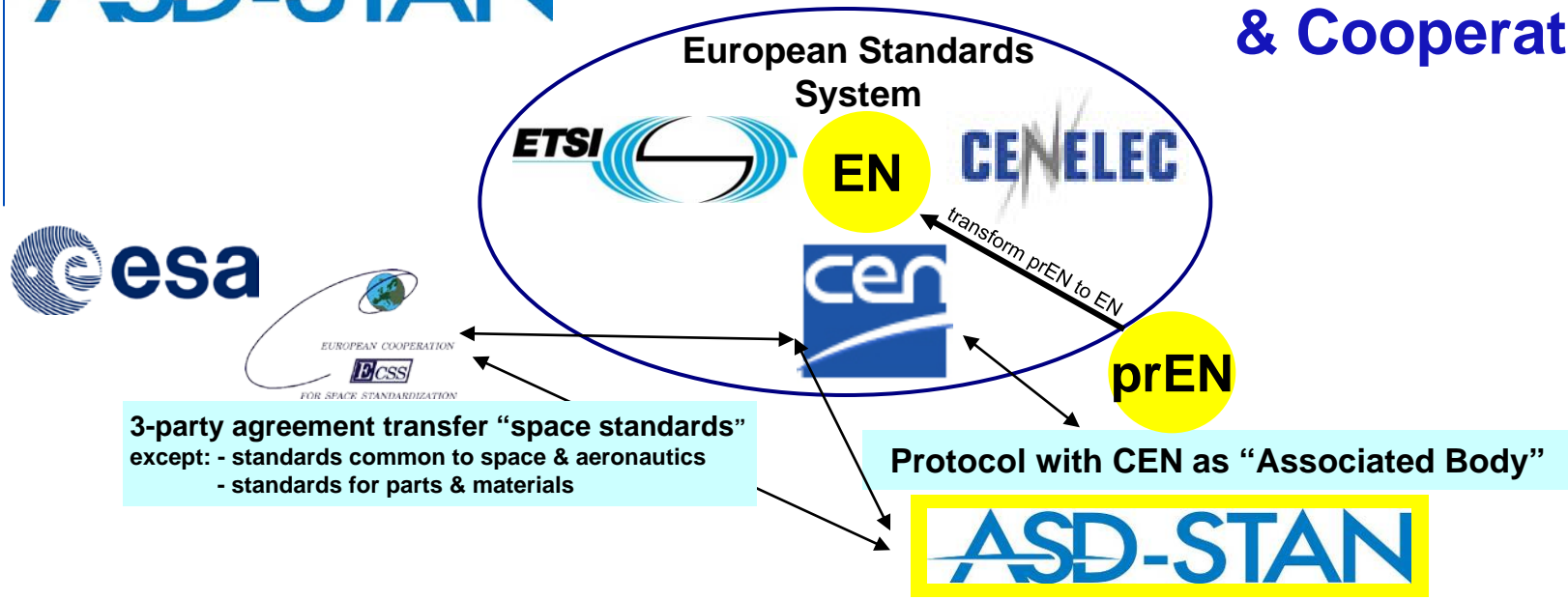
- * No technical change is accepted during the transformation process from prEN to EN
- ** Date of the CEN release / Distribution handled by CEN members
- *** EN/FR translation activities

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

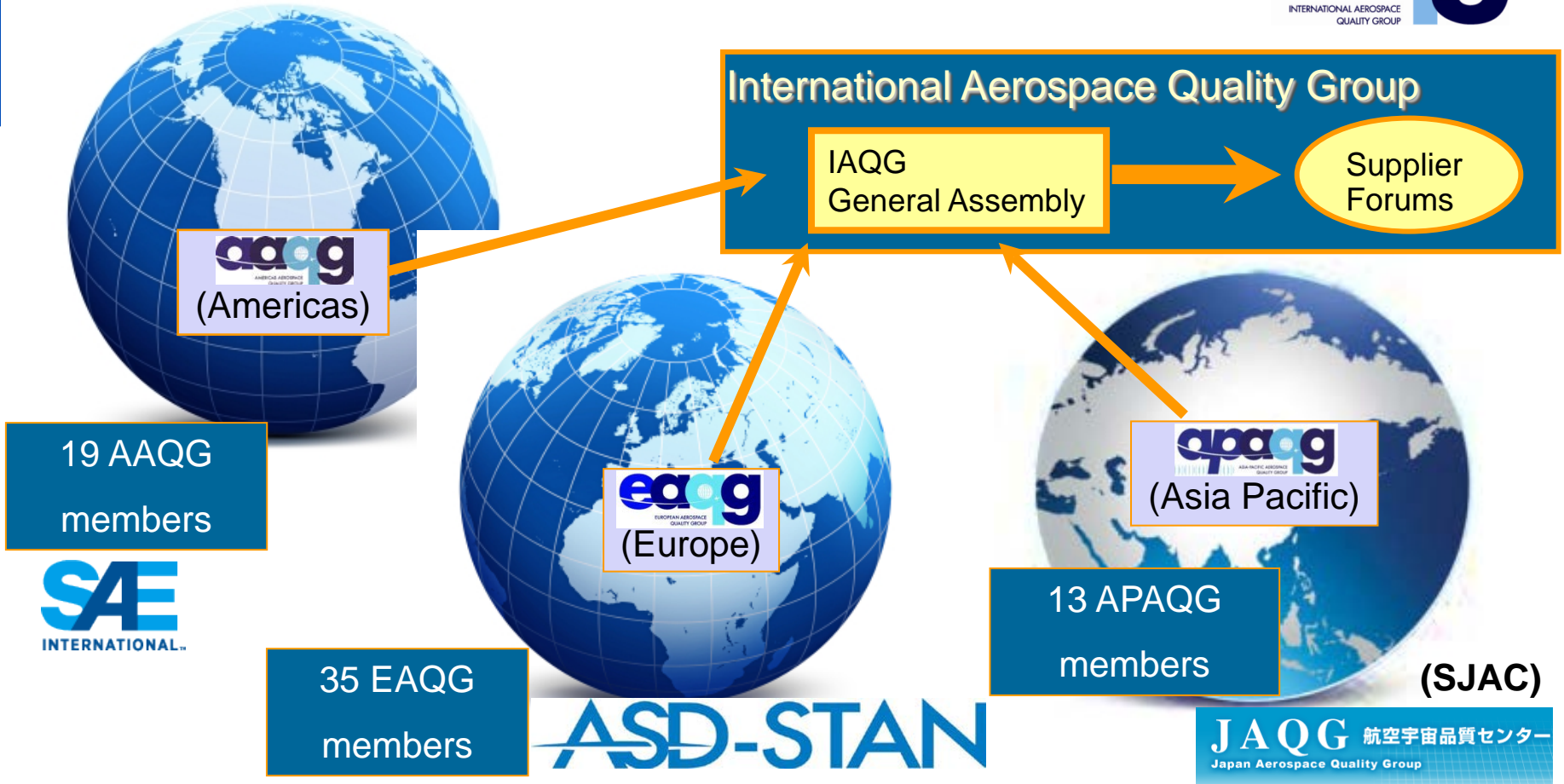


Cooperation Defence



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**

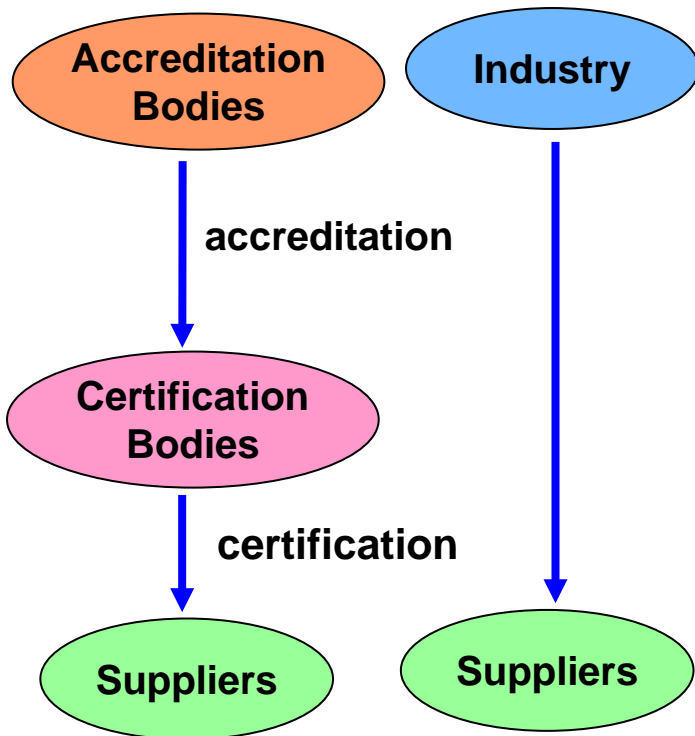


regional support towards standards development and implementation

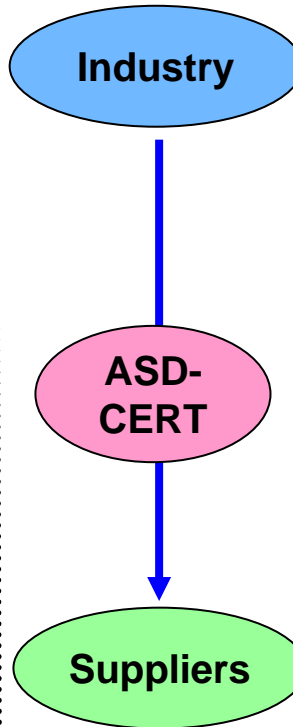
“traditional” scheme

3rd party
Certification
for ISO 9001

2nd party
audits

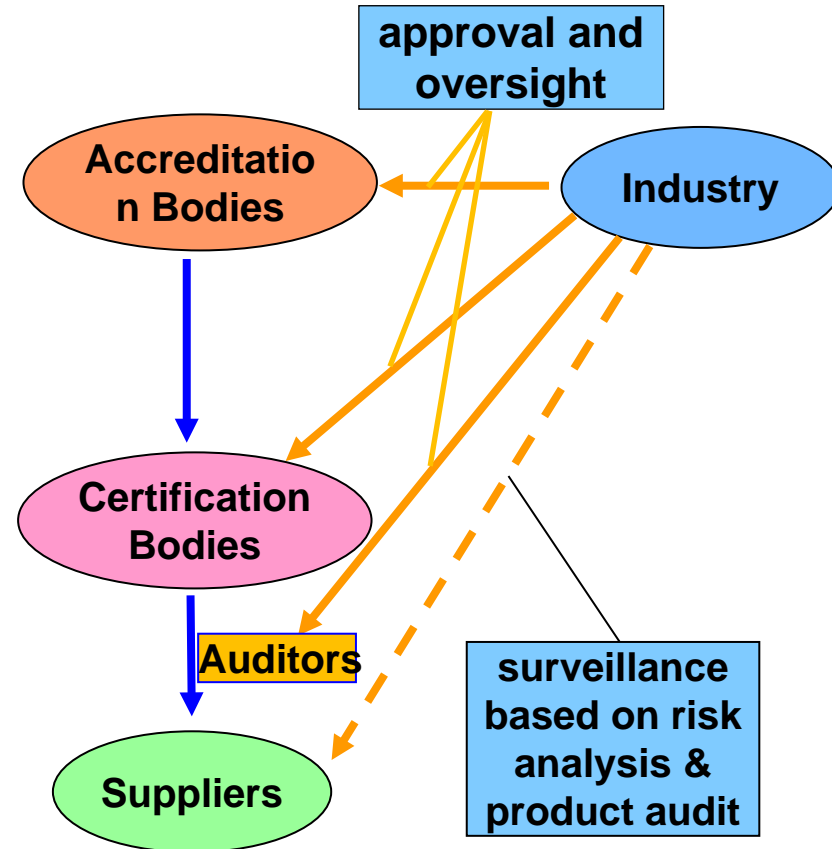


ASD-CERT
certification
(EN9133
product
qualification)



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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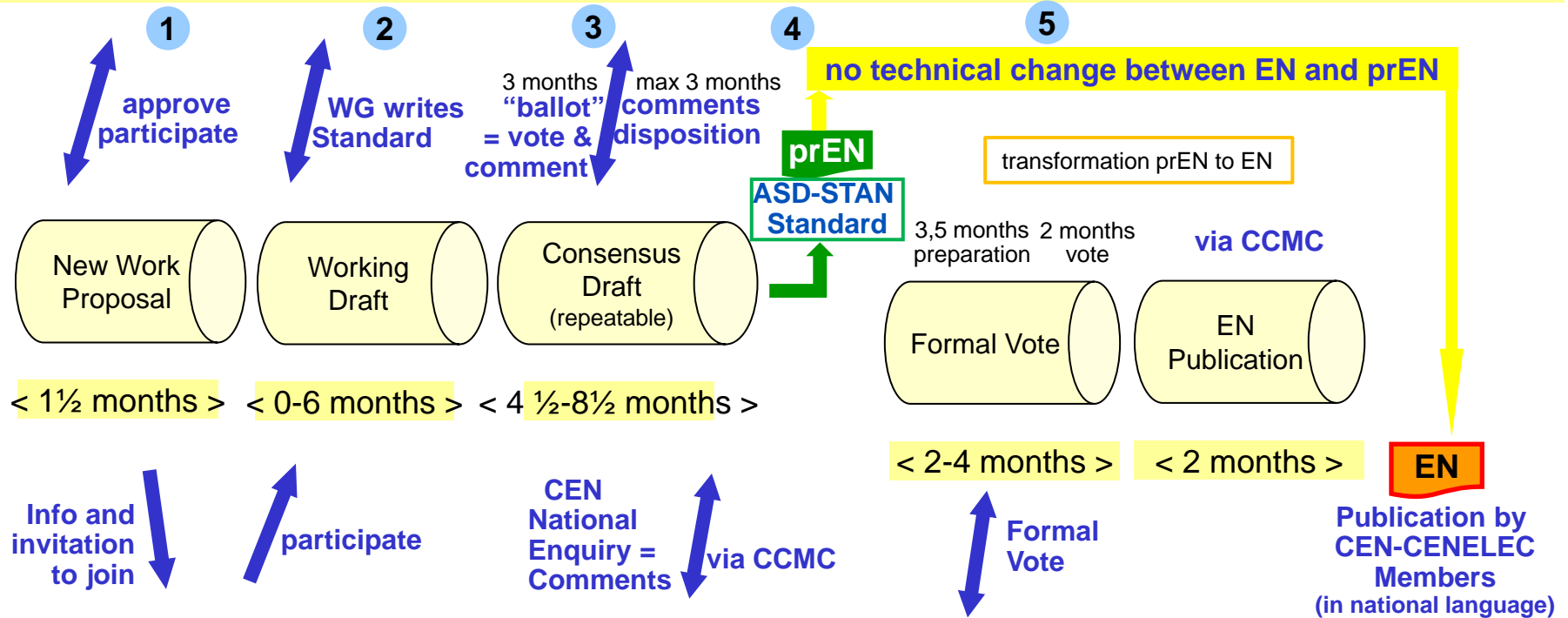
Web: www.asd-stan.org

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