



AeroSpace and Defence
Industries Association of Europe



Think Tank Status

Patrick LE GUIRRIEC
Leader ASD DOA WG TF2

**DOA Implementation
& product certification
Workshop 2015**
Cologne 18-19NOV15

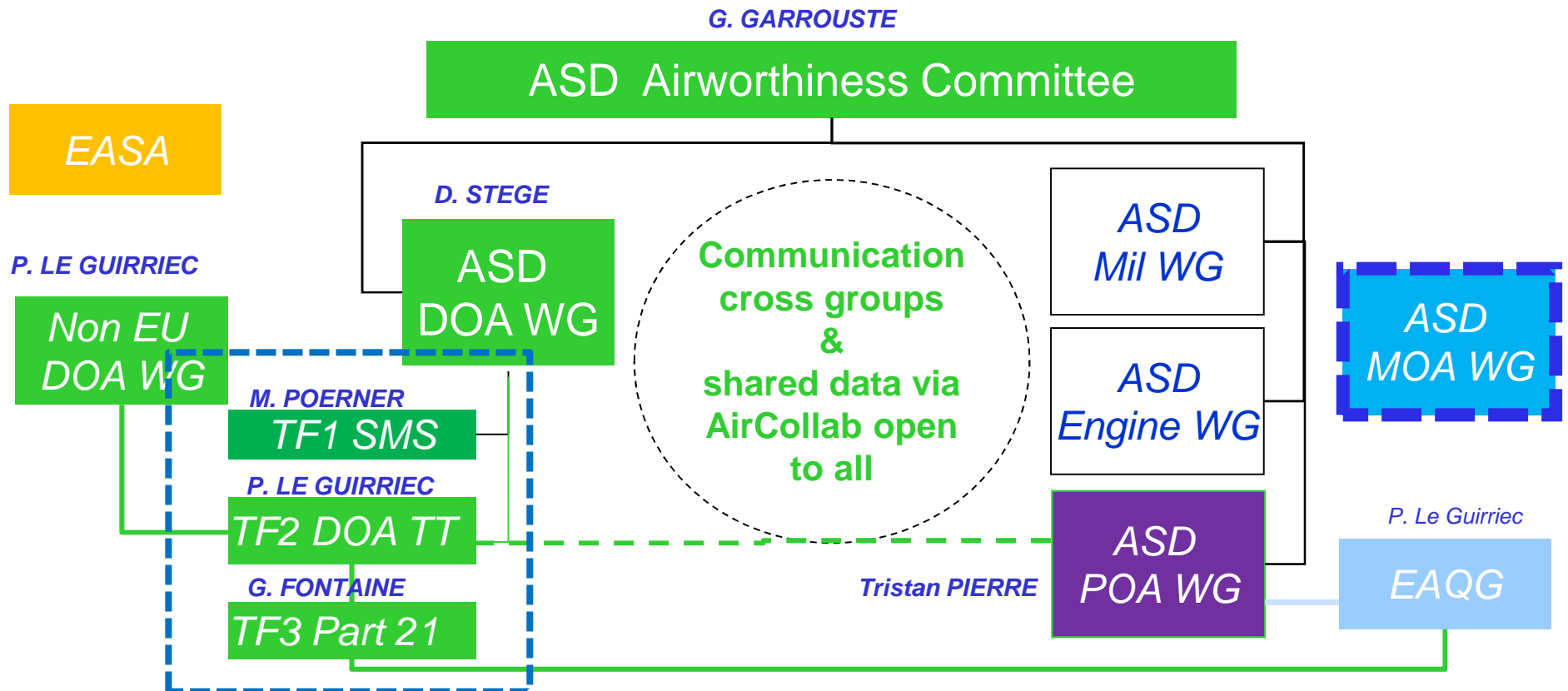
Standardisation of Design Supplier Surveillance
A European Industry initiative supported by other parties

1. ORGANISATION
2. MISSION – BENEFITS
3. ACHIEVEMENTS
4. NEXT STEPS
5. CONCLUSION

1. ORGANISATION CHANGES
2. MISSION – BENEFITS
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Organisation changes

- 3 Task Forces now in place to face the shared challenge of “working together” (within Aerospace Industry, with EASA and EAQG).
- Shared Objectives “Simplification” (minimum requirements, more guidance materials) and reactivity (creation of Industry Standards).

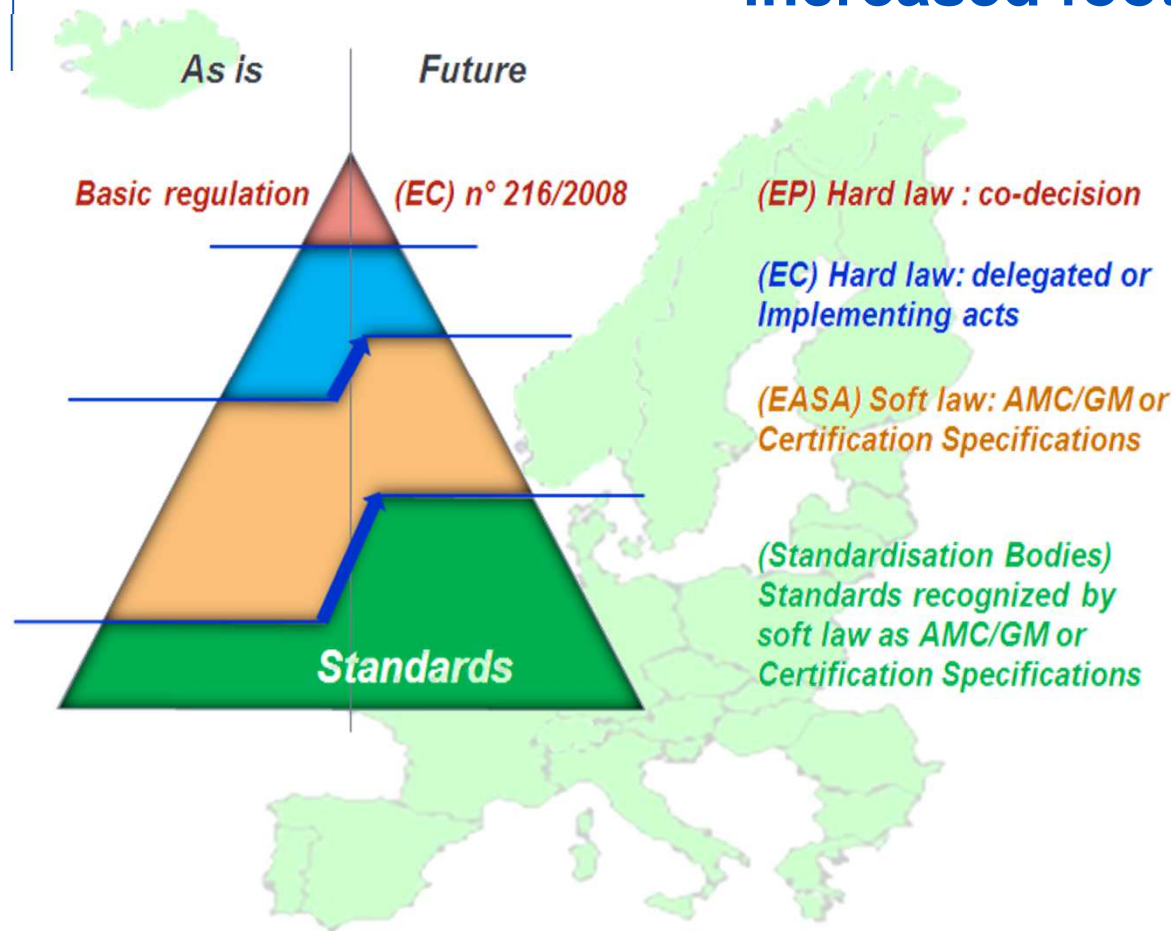




Shared Objectives with EASA

“Simplification” (minimum requirements, more guidance materials) and reactivity (creation of Industry Standards).

In the background: continuous evolution towards an increased footprint of the Standards



- Standards footprint
- Used as one internationally recognised Means of Compliance for certification of products, equipment & **organisations**
- Important role of technical standards in safety & interoperability of aerospace products
- New standards to address new technologies, new processes

Industry involvement is key for Regulations & Standards evolutions

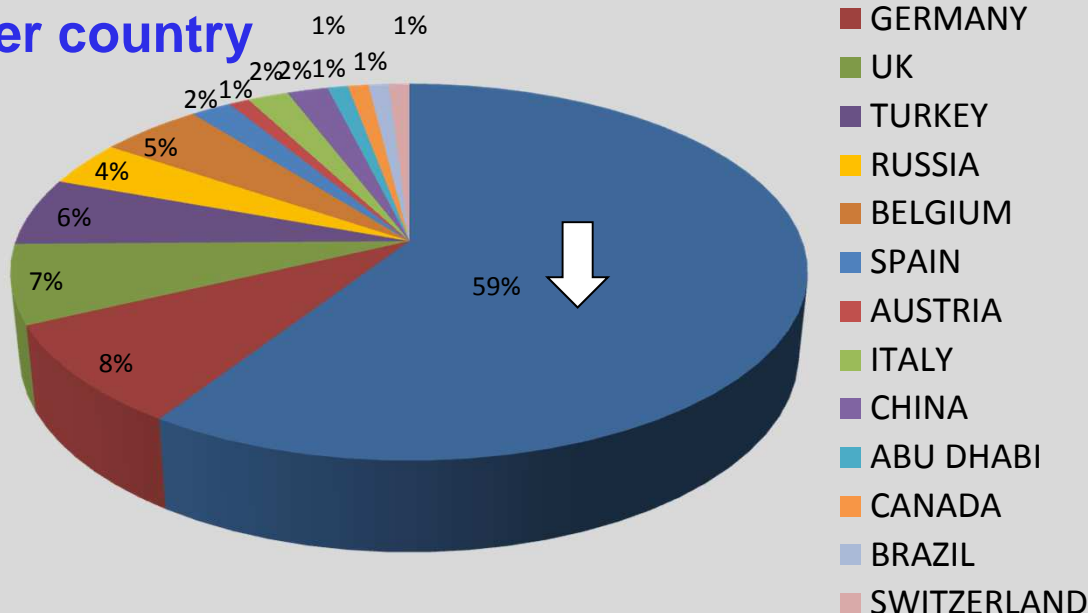


DOA TT Membership

Status NOV2015

103 experts in DOA TT

Per country



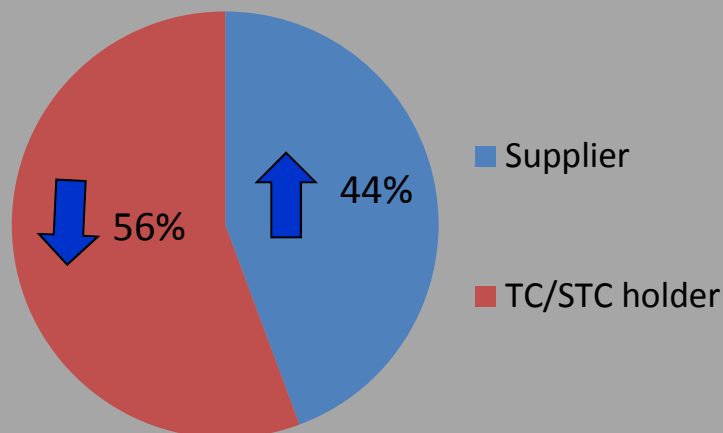
EU: 85%

NON EU: 15%

Airbus
Airbus DS
Airbus Helicopters
ABEC
AEROTEC
AGUSTA WESTLAND
AIP
Aircelle
ATR
Alkan
Anjou Aeronautique
ASCO
Bosch.Aviation
COMAC/SADRI
Dassault
EADS EFW
ECAR

ETIHAD
Goodrich.act.
IRKUT Corp.
JET Aviation
KLM
Liebherr
Lufthansa. Techn
Messier.Bugat.D
MET Aerospace
Rockwell.Collins
RR Deutschland
Russian Helicopters
SAFT
SABCA
Safran HQ
SAGEM Defense
SNECMA

SWS certif services
TAI
Thales
Thales.Avionics
Thales.Av.elec
THYT
TsAGI
Vector Aerospace Helicopter
Services
Zodiac.Aero
Zodiac.Aerazur
Zodiac Cabin
Zodiac ECE
Zodiac.SELL
Zodiac.Intertechnique
Zodiac.SICMA aero s
Zodiac.services



DOA TT Core Group

Patrick LE GUIRRIEC (Lead) (+GIFAS)
Tülay ÖZGÜL (Technical Administrator)
Rezeda SHAMSUTDINOVA (+Standardisation)
Olivier JEUNEHOMME (Airbus Helicopters)
Gilles FONTAINE (Airbus)
Gilles GARROUSTE (+Aircollab)
Benoit PINTA (Zodiac)
Dieter STEGE (+BDLI)
Nigel WOODCOCK (+ADS)
Felipe SAN MARTIN (+military)

+ as SME representatives invited recently
Johan CLOCHET (AEROTEC Concept)
Christiane FERRI (SCAI TECH AERO)

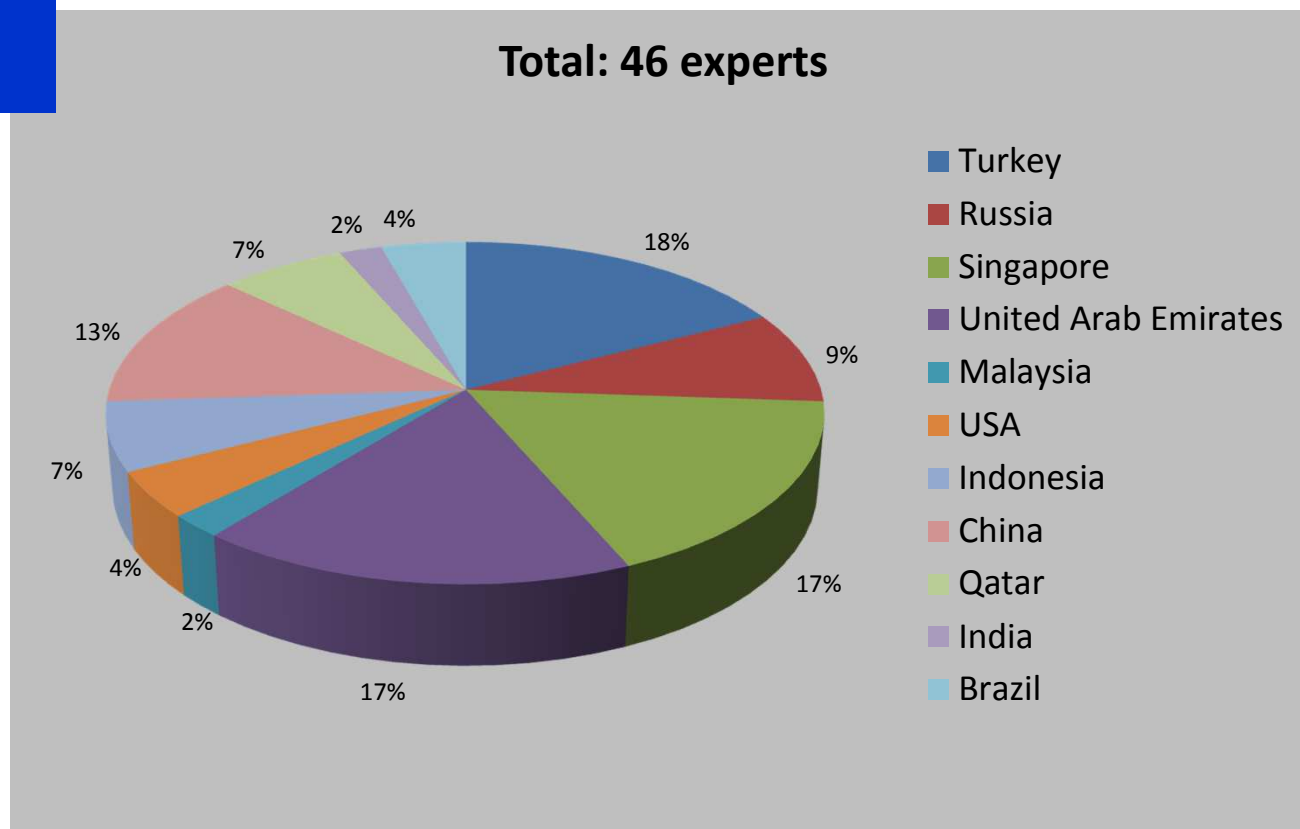
EASA represented by **Ciro PIRONE** **at last meeting**

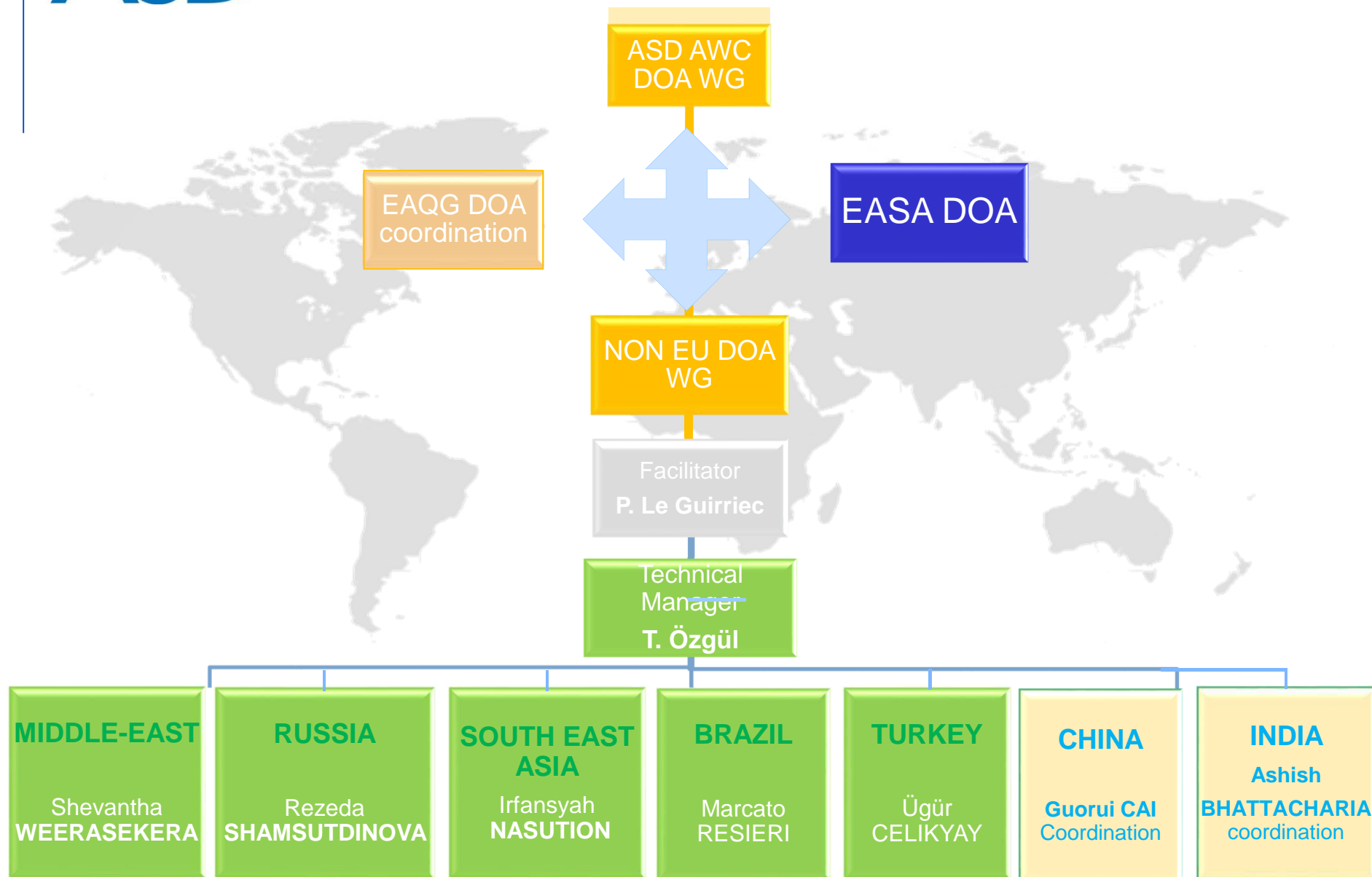
Representing: Airbus, AEROMET, Russian Helicopters, Safran Group, Airbus Helicopters, Dassault, Zodiac Group, Rolls Royce Germany, Messier Bugatti Dowty, Airbus DS

NON EU DOA MEMBERSHIP

(distribution per country - status NOV2015)

South East Asia:	26%
Middle East:	24%
China:	13%
Turkey:	18%
Russia:	9%
USA:	4%
India:	2%
Brazil:	4%





All members have access to AirCollab.

AirCollab is open to anyone (EU-NON EU) willing to use or contribute to the establishment of documents produced by DOA Think Tank

All DOA Think Tank data are stored and easily accessible in AirCollab using «search» tool.

**You are welcome to apply for DOA TT membership
(tozgul@met.com.tr)**

1. ORGANISATION
- 2. MISSION – BENEFITS**
3. ACHIEVEMENTS
4. NEXT STEPS
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1. Develop DOA guidelines created ab initio or derived / completing existing Industry standards or **best practices**
2. Have DOA guidelines
 - Used by DOA holders and their suppliers in advance of standardisation (i.e. on a voluntary basis)
 - **Standardised by ASD-STAN to become PrEN (Pre European Norms), then EN**
 - Recognized by EASA (**reference in AMC or Guidance Materials**),
 - Promoted and deployed via EAQG, ASD and any other interested parties

Subjects

Leaders

Deputies

μG1 (Generic test data)	Gilles FONTAINE (Airbus)	Patrick LE GUIRRIEC (Airbus)
μG2 (Stress for test)	Gilleta de saint Joseph (Dassault)	Patrice NEUMAN (Airbus)
μG3 (Environmental Test)	Trevor T BRIGHTON (Airbus)	Patrick LE GUIRRIEC (Airbus)
μG4 (SW. Compl. El. hardw)	Jean-Marc MARTINEZ (Dassault)	Benoit PINTA (Zodiac)
μG5 (Flammability)	Ugur CELIKYAY (STM)	Gilles FONTAINE (Airbus)
μG6 (Seat dynamic test)	Thomas GRALTON (Zodiac-Seats)	Benoit PINTA (Zodiac)
μG7 (Cascade of privileges)	Stéphane BOUSSU (Airbus)	Olivier JEUNEHOMME (Airbus H)
μG8 (Post TC change mgt)	Hélène GILLARD (Airbus)	Fabrizio DIDO (MBD)
μG9 (Non Conformances)	Rezeda SHAMSUTDINOVA ^(RH)	Patrick LE GUIRRIEC (Airbus)
μG10 (Repair design mgt)	Nigel WOODCOCK (MBD)	Dörte DRECHSLER (EADS EFW)
μG11 (ICA in CMM)	Damien STURTZER (Airbus H)	Hubert ANGELIER (Airbus)
μG12 (Design Subtier Surv.)	Hugues PEYROT (Airbus)	Patrick LE GUIRRIEC (Airbus)

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DOA TT standardisation

ASD-STAN Status including EASA involvement

DOA TT standardisation tasks within the D6 Quality domain (fast track)

Sector Leader:

Patrick Le-Guirriec (Airbus)

Domain Technical Coordinator:

Maria Luisa Ferrero (Alenia)

ASD-STAN actors:

Thierry GRENOT - Andreas JAIN

EASA reviewer:

Ciro PIRONE

EASA focal point ASD-STAN:

Edmund BOHLAND

Reminder:

- **Application sent to ASD-STAN** for ballot on guidelines developed by DOA-TT, WG01, 05 and 10 (17FEB15)
- **For WG05 (Flammability)** NDB and comments stopped because ASD-STAN Members have nominated a new experts (Stephan Bonk DLR)

The next steps were:

Period ballot extended due to late ASD-STAN
administrative process

December 2015: Publication as PrEN 9250 the DOA guideline of
WG01 “Assessment of certification test organisations”



ASD-STAN Status including EASA involvement

Reminder:

Application sent to ASD-STAN for ballot on guidelines developed by DOA-TT WG12 (12/5/2015)

NDB and comments stopped because ASD-STAN Members have nominated a new expert (Richard Baker Rolls Royce)

A "tool" is created in AirCollab to render visible and traceable the follow-up of the standardisation of the DOA guidelines and the steps of progress of each standard.

That table will be maintained until formal acceptance as PrEN meaning acceptance by EASA.



ASD-STAN
standardisation process for

µG	Topic	Deliverable				Remarks
		Title	Type of Document	Technical readiness	PrEN-EASA readiness	
1	Certification Test Organisations	Assessment of certification Test Organisations	Step 1 ASD STAN N°8.6055 PrEN 9250 Step 2: reference in GM/AMC	FEB15	DEC15	<ul style="list-style-type: none"> - Ballot period extended - Complete dossier sent 12NOV15 to ASD-STAN for publication before end of the year
2	Stress analysis supporting tests	Assessment of Stress analysis Organisations supporting tests	Document abandoned since covered by 1	-	-	
3	Environmental tests	Assessment of Environmental tests Organisations	Document abandoned since covered by 1 and DO 160	-	-	
4	Software & Complex Electronic Hardware	Assessment of Software & Complex Electronic Hardware tests Organisations	Document abandoned since covered by 1 and DO 178	N/A	N/A	Position expressed on behalf of the group
5	Flammability tests	Assessment of Flammability tests Organisations	Step 1: ASD-STAN N°8.6056 PrEN 9251 Step 2: : reference in GM/AMC	FEB15	FEB16	Ballot not started due to nomination of an outside expert (DLR Germany)
6	Seat dynamic tests	Assessment of Seat dynamic tests Organisations	Document abandoned since covered by 1 and AS8049B	N/A	N/A	

	Topic	Deliverable				
		Title	Type of Document	Technical readiness	PrEN-EAμG SA readiness	Remarks
7	Cascade of privileges	Assessment of Organisations with cascaded privileges	Step 1: PrEN Step 2: : reference in GM/AMC	DEC15	APR16	Text drafted (09SEP15)
8	Design change management	Assessment of Organisations designing changes	Step 1: PrEN Step 2: : reference in GM/AMC	DEC15	APR16	Text needing re-engineering (19AUG15)
9	Non conformances	Assessment of Organisations managing Non conformances	Step 1: PrEN Step 2: : reference in GM/AMC	DEC15	APR16	Process ready, text drafted (21OCT15)
10	Repairs	Assessment of Organisations Managing and approving of repairs	Step 1: ASD-STAN N°8.6057PrEN 9252 Step 2: : reference in GM/AMC	FEB15	FEB16	- Non technical comments received from Ballot - Ballot period extended (EASA late nomination)
11	ICA contained in CMM	Assessment of Organisations Managing ICA contained in CMM	Step 1: PrEN Step 2: : reference in GM/AMC On stand by due to rulemaking activity	TBD	TBD	Text put on hold
12	Surveillance of design suppliers	Managing the Surveillance of design suppliers	Step 1: ASD-STAN N° 8.6058 PrEN 9253 Step 2: : reference in GM/AMC	SEP15	APR16	Ballot not started due to the nomination of an outside expert (RR UK)

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Progress of ASD-STAN activities with EASA involvement

- **Leaders of Working Groups having DOA guidelines in standardization process are:**
 - Coordinating with EASA reviewer (C. PIRONE) to secure technical contents
 - Taking account of comments from the ballot (WG01 tests, WG10 Repairs)
 - Coordinating with ASD-STAN nominated experts for WG05 (Flammability) and WG12 (Supplier surveillance)
- **December 2015 is the target for having the DOA guideline of WG01 Assessment of certification test organisations published as PrEN 9250**
- **2016 shall see the publication of all other DOA guidelines as PrEN**
- **Initiation in 2016 of the process to recognize the DOA Standards as one Acceptable Means of Compliance.**

DOA THINK TANK Gifas conference - Paris 10DEC15

The Gifas will sponsor (on behalf of ASD) a conference on DOA Think Tank activities

- Location: 112 Avenue Kleber – Paris
- Date: 10DEC15
- Attendance: Key DOA Managers (EASA – Gifas sponsor) ASD community, NON EU and representatives from SME (Small and Medium Enterprises)
- Registration free of charge
- Capacity of the room 150 seats

NB: All shall register

<https://www.weezevent.com/conference-doa-think-tank>

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- The DOA THINK TANK (DOA TT) is in phase two of the standardization: mature DOA guidelines started to be routed to ASD-STAN for ballot from February 2015
- EASA nominated **Ciro PIRONE** as the ASD-STAN Reviewer and to attend DOA Think Tank Core Group for better efficiency
- The WG01 Assessment of certification test organisations will be published as PrEN 9250 in December 2015
- The status of DOA TT is presented at EASA DOA/Product Certification workshop (Cologne 18-19NOV)
- The details of DOA TT DOA guidelines is being discussed at the GIFAS conference (on behalf of ASD) in Paris 10DEC15 promoting the work and the awareness to EU and NON EU stakeholders

Questions?



A word cloud featuring the phrase 'Thank You' in multiple languages. The words are arranged in a circular pattern. The colors used are dark blue, light blue, green, and white. The words include: THANK, YOU, GRACIAS, TEŞEKKÜR, DANKE SCHÖN, СПАСИБО, DANK U, شُكْرًا, TAKK, ありがとう, OBRIGADO, GRATIAS AGIMUS TIBI, KASIH, TERIMA, 감사합니다, ДЗЯКУ, GRAZIE, GO RAIBH MAITH AGAT, KÖSZÖNÖM, DZIEKUJE, MERCI, kiitos, DĚKUJI, and 謝謝.