



AeroSpace and Defence
Industries Association of Europe



Think Tank Status

Patrick LE GUIRRIEC
Chairman ASD DOA WG TF2

EASA DOA workshop
Cologne 23NOV16

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

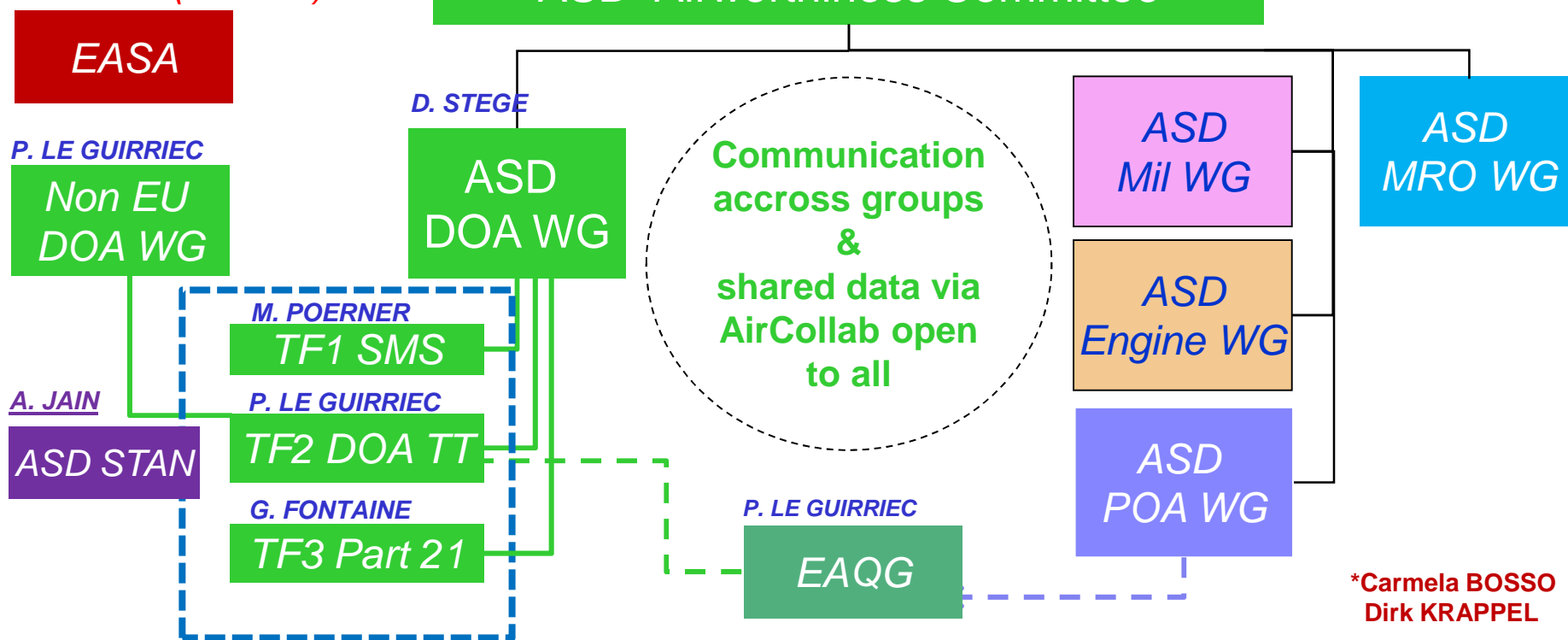
1. ORGANISATION
2. MISSION – BENEFITS
3. ACHIEVEMENTS
4. NEXT STEPS
5. CONCLUSION

Working together

- 3 Task Forces 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**).

M. GOERNEMAN new HO DOA
P. DAMEN (DOA WG)
C. PIRONE + 2 (DOA TT)*
T. SULOCKY (ASD-STAN)

G. GARROUSTE



More than 130 experts (from EU and NON EU) support the DOA Think Tank activities managed by:

Patrick LE GUIRRIEC (Lead) (+GIFAS)

Tülay ÖZGÜL (Technical Administrator)

Rezeda SHAMSUTDINOVA (+Standardisation)

Marc PÖRNER (Airbus Helicopters)

Gilles FONTAINE (Airbus)

Gilles GARROUSTE (+Aircollab)

Benoit PINTA (Zodiac)

Dieter STEGE (+BDLI)

Nigel WOODCOCK (+ADS)

Felipe SAN MARTIN (+military)

SME representatives are invited on a case by case basis

EASA represented by **Ciro PIRONE**

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

prEN	WG#	Title	DOA TT WG leader	EASA reviewers
9250	WG01	Test organisations - General requirements for test process and capabilities	Gilles FONTAINE	Ciro PIRONE
9251	WG05	Flammability Test Organisations Qualification Standard	Ugur CELIKYAY	Carmen BOSSO
9255	WG07	Management and Cascading of Design Organization Authority & signatory to supplier	Stéphane BOUSSU	Ciro PIRONE
9256	WG08	Post-TC design change management	Hélène GILLARD	Carmen BOSSO
9254	WG09	Concession management	Rezeda SHAMSUTDINOVA	Ciro PIRONE
9252	WG10	Repair design management and approval	Nigel WOODCOCK	Dirk KRAPPEL
9253	WG12	Surveillance of Design Suppliers	Hugues PEYROT	Ciro PIRONE

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



DOA TT - Mission

Phase one

Develop DOA guidelines created ab initio or derived / completing existing Industry standards or best practices

Phase two

Have DOA guidelines:

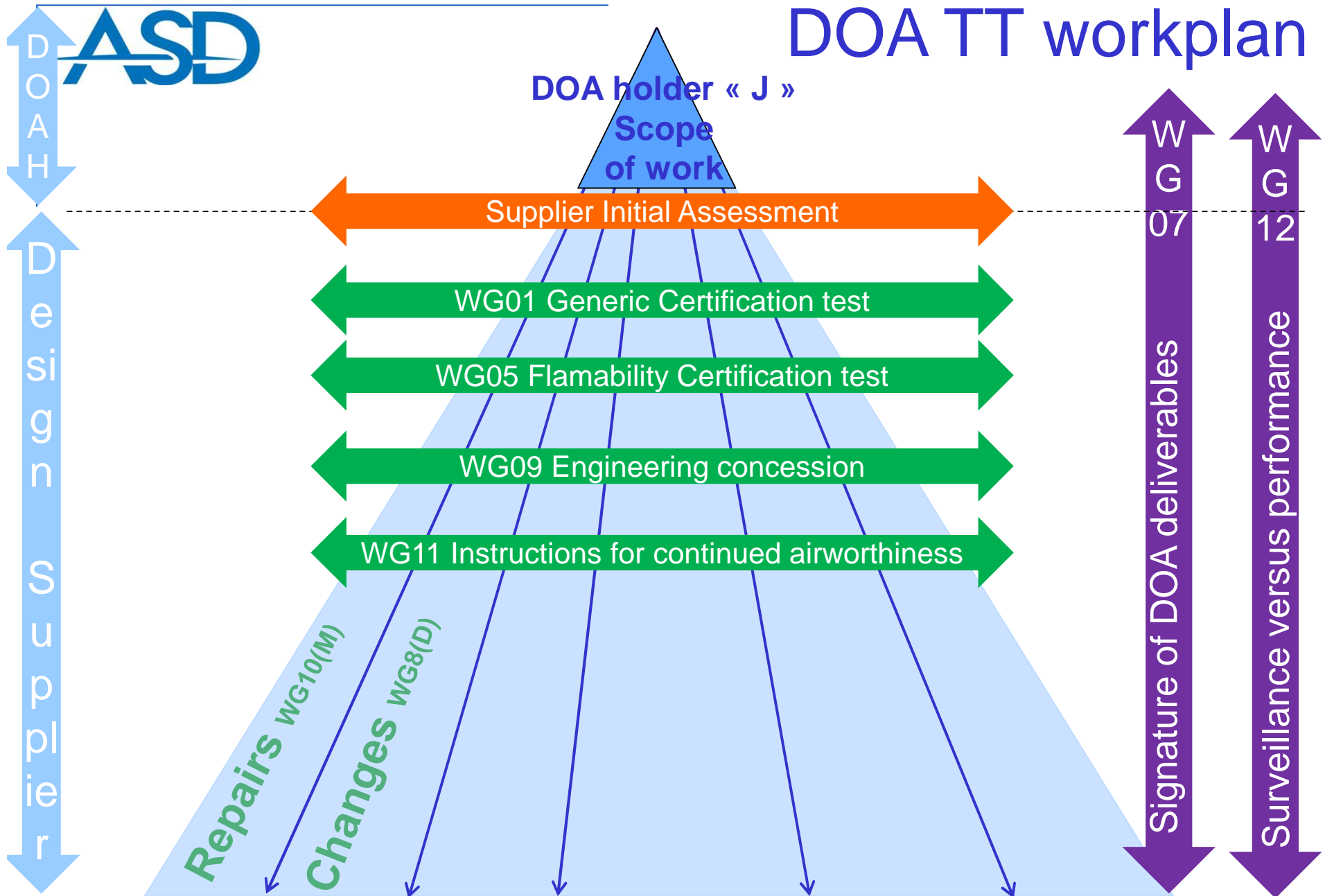
- Used by DOA holders and their suppliers in advance of standardisation (i.e. on a voluntary basis)
- Standardised via ASD-STAN to become prEN (Pre European Norms), then European Norms (EN)
- Promoted and deployed via ASD, EAQG and any other interested parties

Phase three

Have DOA guidelines recognized by EASA (reference in AMC or Guidance Materials)

Phase four

Find ways to share results of design supplier surveillance



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

**Four guidelines not progressed further
since covered by a more generic topic**

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASA AMC	Remarks
μG02 Assessment of Stress analysis Organisations supporting tests	-	-	-	covered by 1 Group position
μG03 Assessment of Environmental testsOrganisations	-	-	-	covered by 1 and DO 160 Group position
μG04 Assessment of Software & Complex Electronic Hardware tests Organisations	N/A	N/A	-	covered by 1 and DO 178 Group position
μG06 Assessment of Seat dynamic tests Organisations	N/A	N/A	-	covered by 1 and AS8049B Group position

**One guideline not progressed further
since technical way is still being discussed**

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASA AMC	Remarks
μG011 Assessment of Organisations Managing ICA contained in CMM	TBD	TBD	TBD	Text put on hold awaiting rulemaking task force outputs Group position

Three guidelines technically finalised and coordinated with EASA experts in a proactive way but not yet routed to AWC network

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASA AMC	Remarks
prEN 9255 (μG07) Assessment of Organisations with cascaded privileges	Not started (Expected DEC16)	New ASD-STAN Process applicable!	Not started	<ul style="list-style-type: none"> EASA technical comments taken Document needing tuning in term of wording, consistency and easy reading
prEN 9256 (μG08) Assessment of Organisations designing changes to TC	Not started (Expected DEC16)	New ASD-STAN Process applicable!	Not started	<ul style="list-style-type: none"> Text finalised Awaiting new EASA expert review before launching AWC ballot
prEN 9254 (μG09) Assessment of Organisations managing engineering concessions	Not started (Expected MAR17)	New ASD-STAN Process applicable!	Not started	<ul style="list-style-type: none"> Process and text drafted To be completed for EASA review as part of pre-AWC ballot

Two guidelines technically finalised in close coordination with EASA experts, ready to be routed to ASD-STAN for final ballot since comments from nominated ASD-STAN experts (RR & DLR) are now on board

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASAAMC	Remarks
prEN 9251 (μG5) Assessment of Flammability tests Organisations	Done	In progress New ASD-STAN Process applicable!	Not started	<ul style="list-style-type: none"> Updated with EASA & ASD-STAN expert comments Awaiting review with ASD-STAN expert as part of ASD-STAN ballot
prEN 9253 (μG12) Managing the Surveillance of design suppliers	Done	In progress New ASD-STAN Process applicable!	Not started	<ul style="list-style-type: none"> Updated with EASA & ASD-STAN expert comments Document needs tuning in term of wording, consistency and easy reading

One guideline technically finalised in close coordination with EASA experts awaiting resolution of a typical issue

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASA AMC	Remarks
prEN 9252 (μG10) Assessment of Organisations managing and approving of repairs	Done	Being Finalised	Not started	<ul style="list-style-type: none"> Draft Text finalised One aspect considered local practise not accepted by EASA to be enlarged as part of the standard

As a premiere in DOA history one guidelines is published as prEN 9250 after early and sustained involvement of EASA experts

Congratulation to:
Gilles FONTAINE and his team
Ciro PIRONE as ASD-STAN EASA reviewer

prEN (μG) Topic	AWC ballot	ASD-STAN ballot with EASA	EASA AMC	Remarks
prEN 9250 (μG01) Assessment of Certification Test Organisations	Done	Done	Not started	prEN published by ASD-STAN 01MAY2016

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

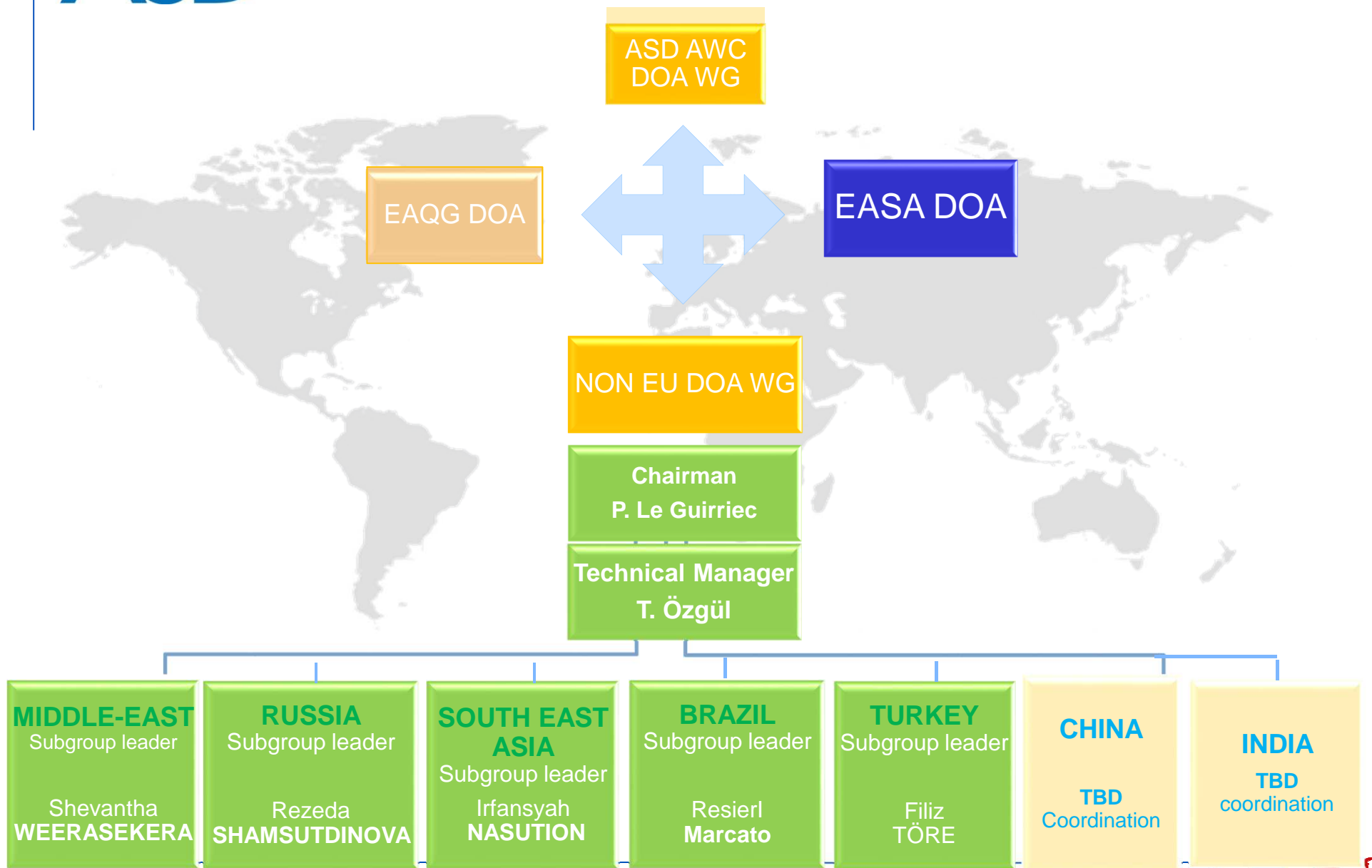
- **The leaders of WGs 07 (delegation), 08 (change), 09 (concession) to launch ASD AWC network ballots after EASA acceptance and AWC clearance**
- **The Leader of WG having DOA guidelines within ASD-STAN network ballot (WG05 Flammability, 10 Repairs and 12 supplier surveillance) to:**
 - To secure outstanding issue with EASA experts (WG10)
 - To secure the coordinated comments from nominated ASD-STAN experts (WG05 - DLR and WG12 - RR)
- **2017 should see the publication of remaining DOA guidelines (6) as prEN taken account of new ASD-STAN Standardisation process in place since JULY16**
- **DOA Think Tank Core Group to define how far the results of assessments of design suppliers by DOA holders using DOA Think Tank standards could be shared**
- **To initiate with EASA the recognition of DOA standards as Acceptable Means of Compliance (AMC) starting with DOA guideline WG01 (Assessment of organisations performing certification tests)**
- **To prepare together and more proactively next workshop (found adding a lot of value), promoting innovative concepts for a more efficient working together.**

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

- **The DOA THINK TANK (DOA TT) is in phase two and three of their process:**
 - (Two) Mature DOA guidelines have been routed to ASD-STAN for ballot from February 2015. prEN 9250 is published 01MAY16
 - (Three) The activity to recognize a DOA Standards as Acceptable Means of Compliance with EASA Part 21 can start from above published standard
- **DOA Think Tank WG leaders and EASA representatives are showing the added value of the working together (proactivity and efficiency)**
- **Seven DOA TT guidelines ought to be published as prEN in 2017**
- **Rolls Royce decided to sponsor the work of DOA TT and will deploy as pilot the WG12 (prEN9253 Surveillance of Design suppliers) within their supply chain (already done within Airbus)**
- **DOA TT status is regularly presented at IAQG & EAQG General Meetings and at EASA DOA workshops**
- **As phase four of the process, DOA TT to define in 2017 ways of sharing results of design supplier surveillance**

Questions?

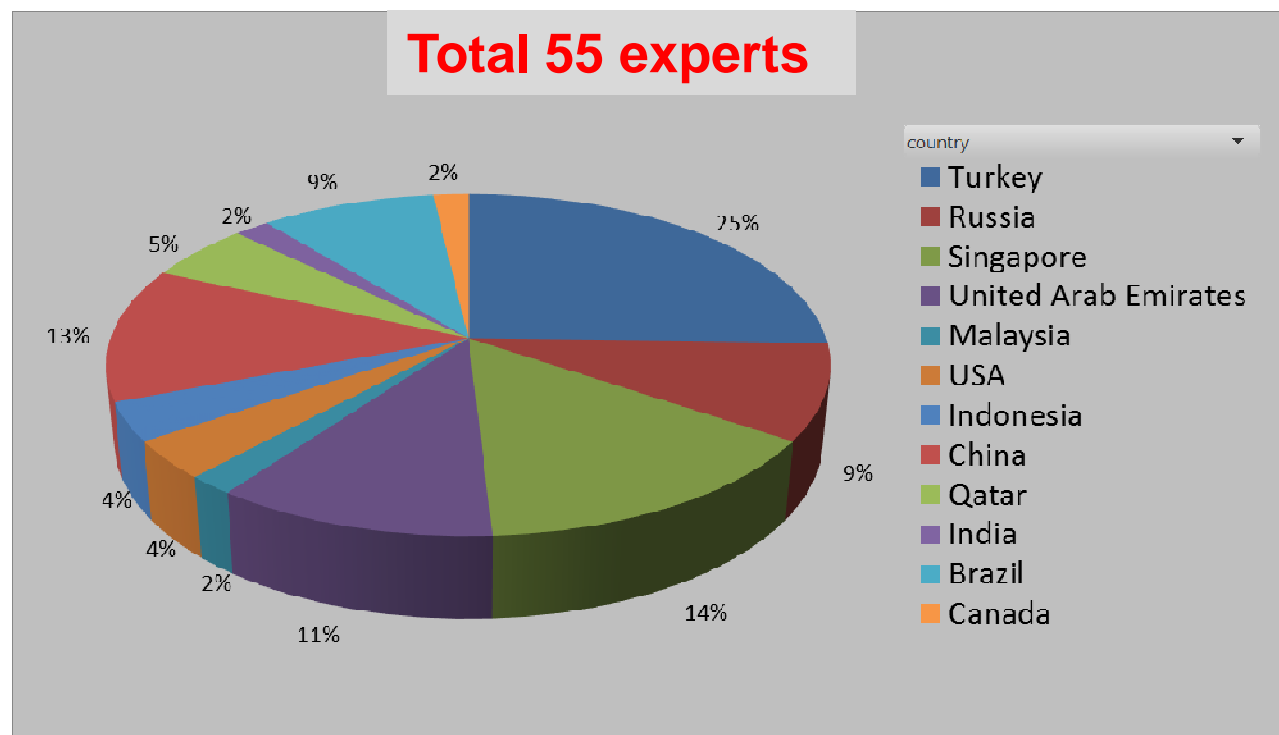




NON EU DOA MEMBERSHIP

(distribution per country - **status JUNE2016**)

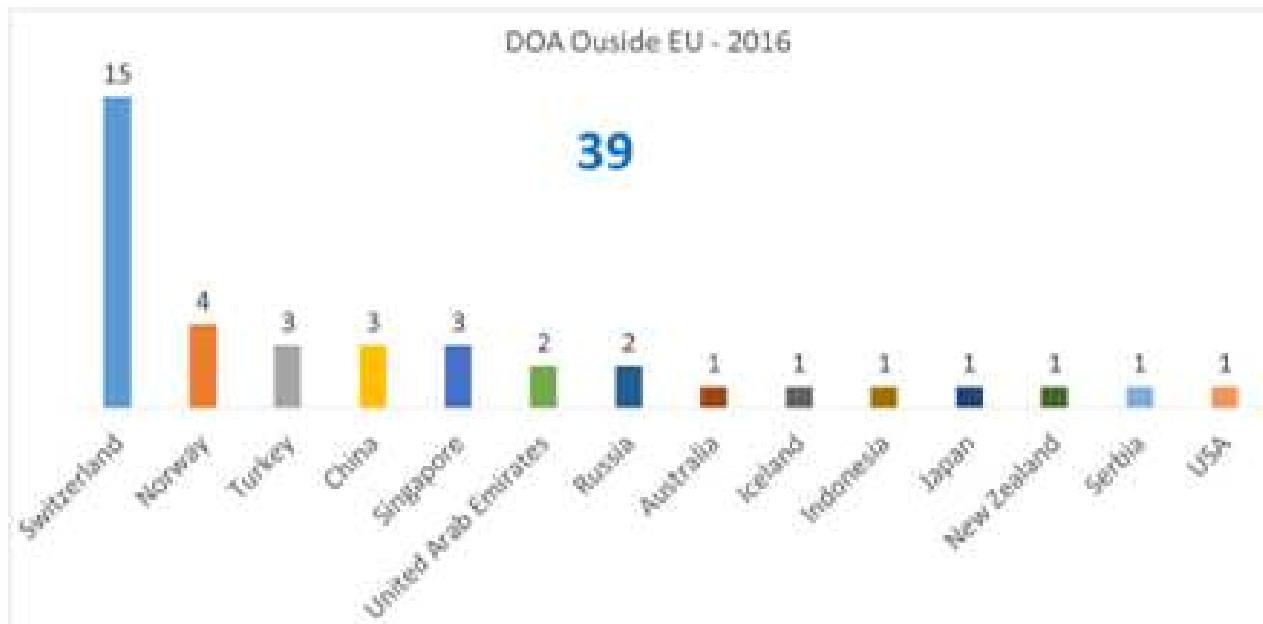
South East Asia:	20%
Middle East:	16%
China:	13%
Turkey:	25%
Russia:	9%
USA:	4%
India:	2%
Brazil:	9%
Canada:	2%





“DOA is an Approval delivered by EASA to any organisation, regardless of its geographical location”

DOA holders Non-EU



DOA Applications Non-EU

Switzerland (1)
Qatar (1)
Malaysia (1)
Turkey (2)
Israel (1)

TEŞEKKÜR
 DANKE SCHÖN
 СПАСИБО
 DANK U
 شُكْرًا
 TAKK
 ありがとう
 OBRIGADO
 GRATIAS AGIMUS TIBI
 TERIMA
 KASIH
 DZЯKYH
 GO RAIBH MAITH AGAT
 GRAZIE
 DZIEKUJE
 KÖSZÖNÖM
 kiitos
 DĚKUJI
 GRACIAS
 THANK
 YOU
 MERCI
 謝謝
 謝謝
 謝謝