



**EASA**  
European Aviation Safety Agency

# **Product Certification and Design Organisation Approval Workshop**

**22<sup>nd</sup> -23<sup>rd</sup> November 2016**

**Your safety is our mission.**

An agency of the European Union 

TE.GEN.00409-001



**EASA**  
European Aviation Safety Agency

# EASA/FAA Validation Improvement Roadmap 2022

Ralf Erckmann  
Deputy Certification Director  
23 November 2016

**Your safety is our mission.**

An agency of the European Union 

TE.GEN.00409-001



# Background (1)

- Globalisation of aviation business and emerging countries trigger growing resource demands on authorities
- Maximum use of BASAs and full recognition of certifying authorities' capabilities are essential to reduce efforts in validation
- In 2014, the EASA/FAA/TCCA/ANAC Certification Management Team (CMT) agreed to greater collaboration between authorities
- CMT Collaboration Strategy signed in June 2016  
<http://www.easa.europa.eu/document-library/bilateral-agreements>



## Background (2)

- In 2015, the U.S.- EU Bilateral Oversight Board (BOB) directed Certification Oversight Board (COB) to develop Validation Improvement Roadmap (VIR)
  - Objective: By 2022, reduce validation effort (time and costs) to a level of 20% compared to first TIP implementation in 2011
- COB developed VIR in line with the CMT objectives
- COB VIR approved on 29 February 2016
- COB will annually review VIR implementation and adjust as necessary



# COB VIR Visions and Objectives

- Optimise implementation of the BASA by enhancing acceptance of certifying authority (CA) **approvals** and **findings** of compliance
- ***Ultimate*** objective is to achieve full acceptance by the validating authority (VA), without any technical assessment or issuance of a validation approval
- VIR applies risk-based validation principles to streamline level of technical involvement in validation



# COB VIR Strategic Focus Areas

## **I. Reciprocal Acceptance of Certificates and Approvals**

- An approval by the CA constitutes a valid approval in the VA's system without any technical involvement or approval by the VA

## **II. Streamlined Validation of Certificates and Approvals**

- An approval by the CA leads to an approval by the VA without any technical involvement

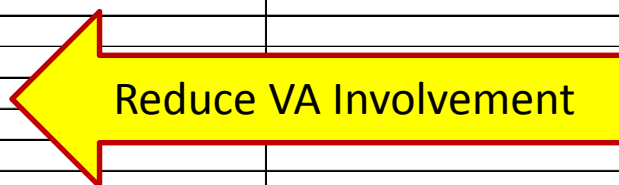
## **III. Validation Work-Plan**

- Level of involvement by the VA is established based on risk based principles rather than a comprehensive review of compliance findings made by the CA
- A work-plan is used for each project requiring active management oversight to ensure common principles and procedures are applied to maximize reliance on the CA's findings



# COB VIR Status Overview

	Reciprocal Acceptance	Streamlined Validation	Validation Work-Plan
Type Certificates			
CS-E, CS-P			Current Status
CS-22, CS-VLA			
CS-23			
CS-27			
CS-29			
CS-25			
Design Changes			
Non-Basic STCs (all Products)			
Major Change Level 1			
Basic STCs (all Products)			
Major Change Level 2			
Minor Change			
Articles			
FAA PMA & Alterations			
ETSO/TSO Authorisation			
Repairs			
Major Repair on critical parts (non TC Holder)			
Major Repair (all)			
Minor Repair (all)			
Articles (Parts and Appliances)			
FAA PMA (non-critical)			
ETSO/TSO Authorisation			





# Supporting COB VIR Initiatives

## ➤ Post-Approval Audit/Sampling Process

- Objective: Maintain confidence and communication channels in domains with no technical involvement

## ➤ Harmonisation of airworthiness requirements

- Objective: One single Certification Basis for CA and VA

## ➤ Common Training

- Objective: All teams have same understanding





**EASA**  
European Aviation Safety Agency

**End slide**

**Your safety is our mission.**

An agency of the European Union 