

# Electric and Hybrid Propulsion

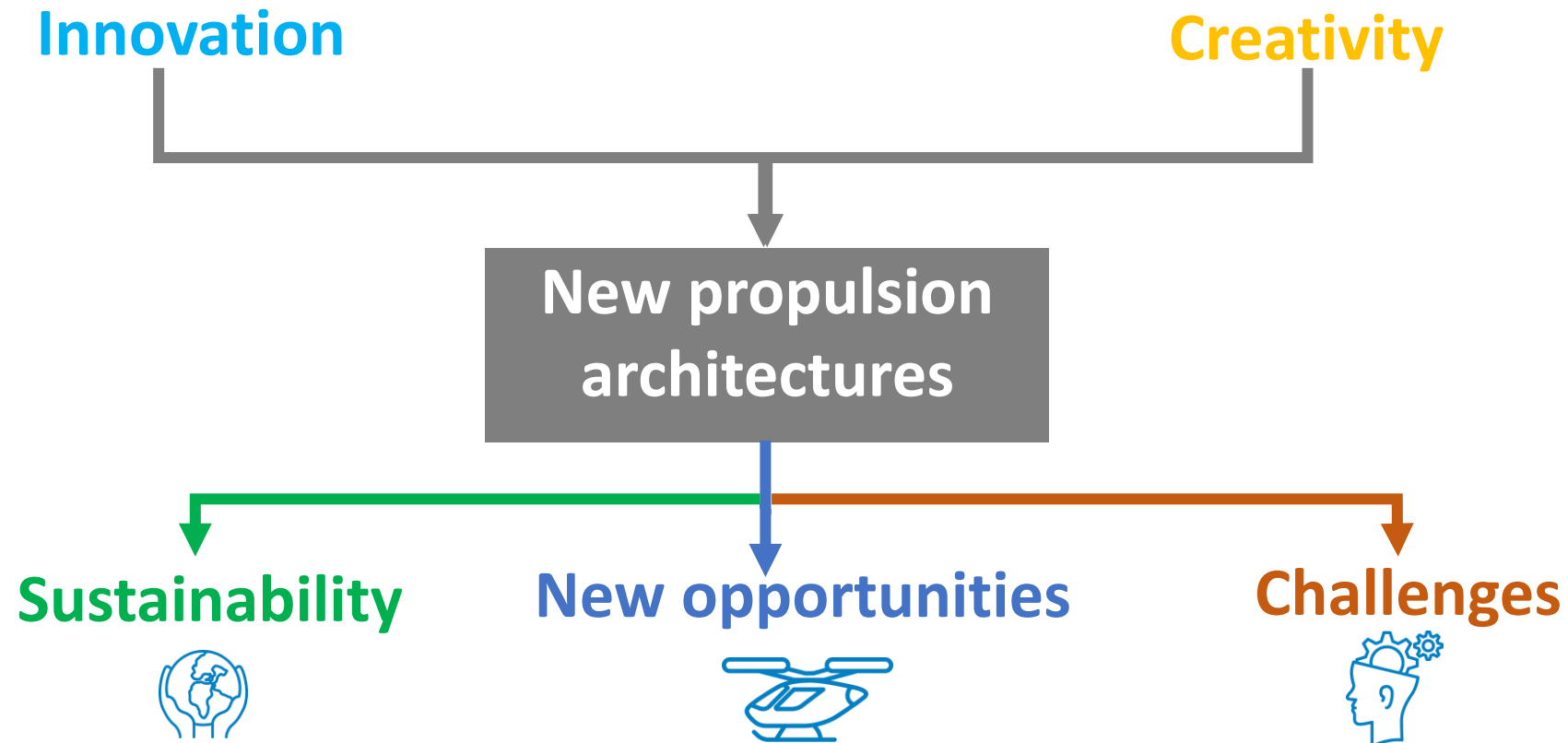
A bridging propulsion technology to meet EU green deal goal

Presented by Herdrice HERESON, EASA Section manager  
GA&VTOL Propulsion and Powerplant Sys.





# EHPS - enablers to aviation change



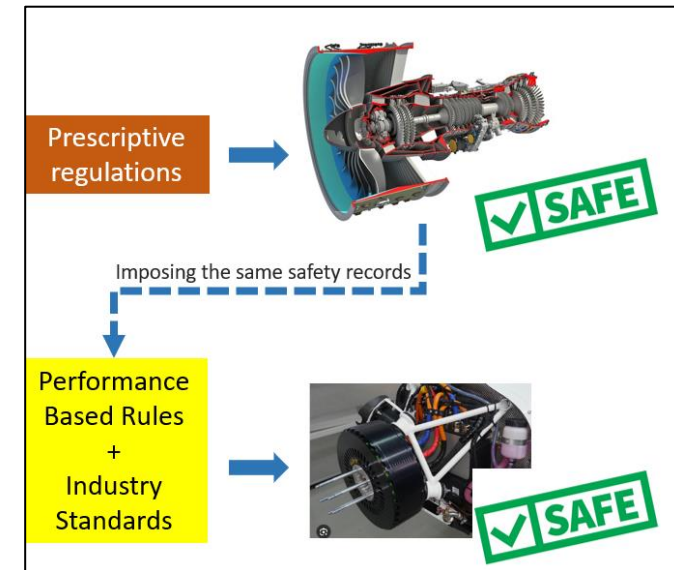


# EASA SC Available - Safety continuum

## Certification Challenge- Performance based rule

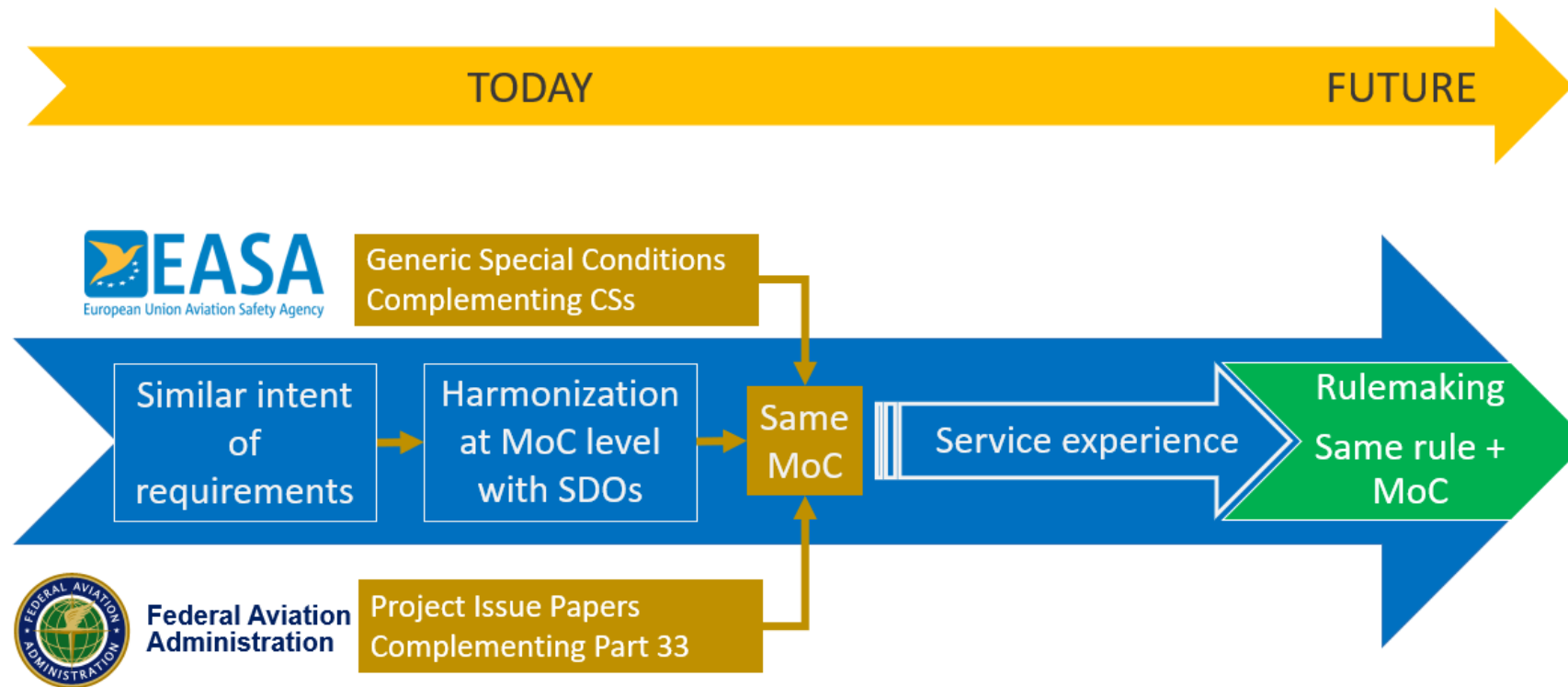
Proportionality

- SC E-01: Airworthiness standard for CS-22H Electrical retractable engine to be operated in powered sailplanes
- SC-22.2014-01 issue 2: Installation of electric propulsion units in powered sailplanes
- CS-LSA → ASTM F2840-11: Standard Practice for Design and Manufacture of Electric Propulsion Units for Light Sport Aircraft
- SC LSA-15-01 – Light Sport Aircraft – Electric Propulsion Powerplant
- SC E-18 issue 2 - Electric Propulsion Units for CS-23 Normal-Category Aeroplanes up to Level 1 (aim to make use of ASTM F3338-18 to have a joined approach with the FAA)
- SC E-19 – Electric / Hybrid Propulsion System (EHPS)- A performance based SC





# Harmonization efforts

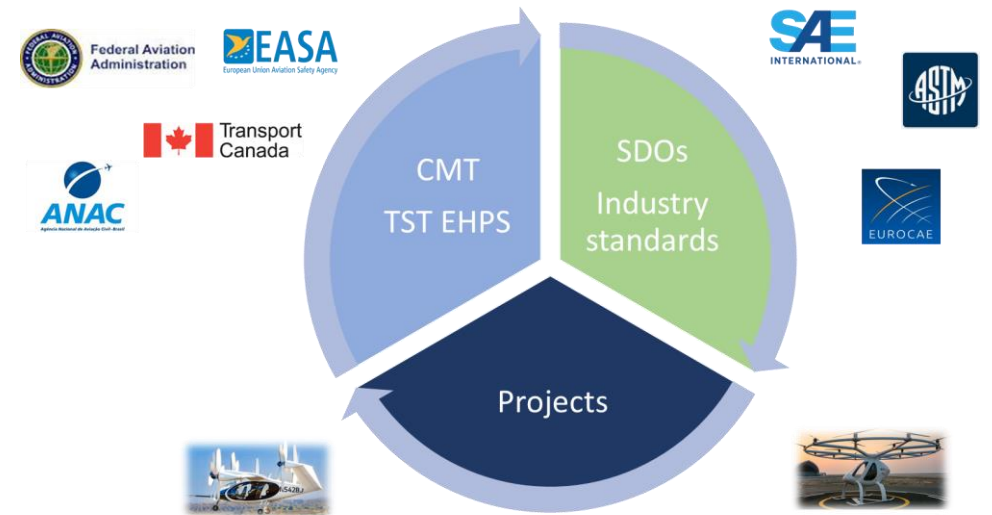
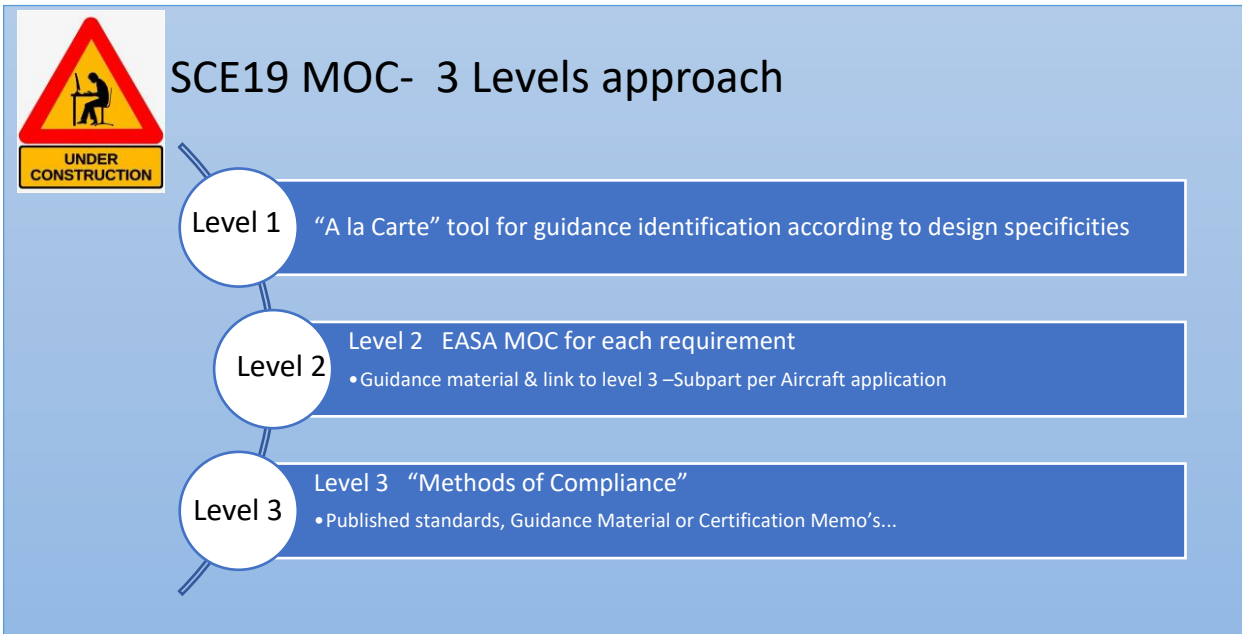




# MoC definition and harmonization-an iterative process



First Gap analysis (projects applications)

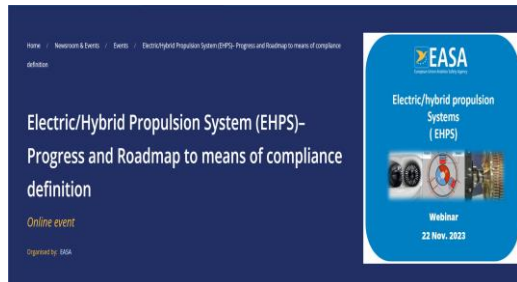


# Conclusion

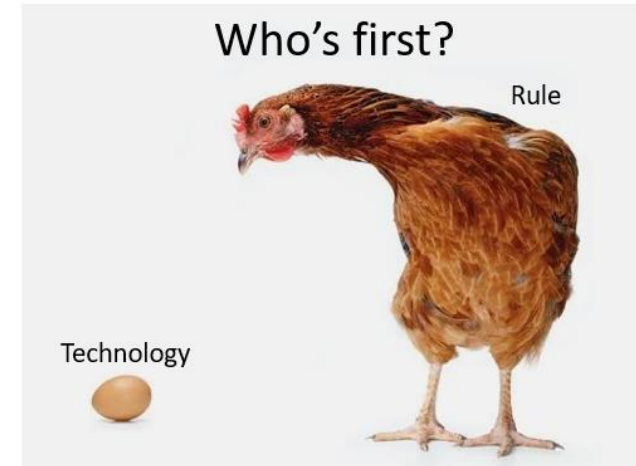
## Take away

- Work in progress on SC E19-EHPS MOC & Certification challenges
- Strong collaboration required between Industry & Authorities
- New Applicants should join Aviation Standardisation groups
- Coordination between Standardisation groups to avoid duplication
- Safety is our common goal

Stay tuned-EHPS Webinar to come- 13th December « **New date** »:



[Electric/Hybrid Propulsion System \(EHPS\)– Progress and Roadmap to means of compliance definition - Online event | EASA \(europa.eu\)](#)



Not relevant...



...as long as we work together to build the future

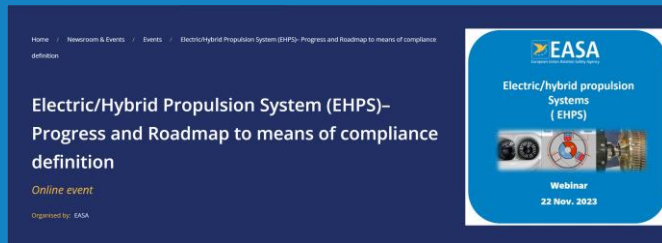


# Certification Conference

October 24, 2023  
Cologne

# Thank you!

## Event to come



Electric/Hybrid Propulsion System (EHPS)– Progress and Roadmap to means of compliance definition - Online event | EASA (europa.eu)



Workshop on Level of Involvement with EU Propulsion design organisations - On-site event | EASA (europa.eu)