



canso
civil air navigation services organisation

INTEGRATING RPAS IN ATM SYSTEMS

TRANSFORMING
GLOBAL ATM PERFORMANCE

RPAS/3 Symposium Chengdu 10-12 September 2018

Airspace Integration



➤ Regulation

- Set airworthiness standards
- Define training requirements

➤ Airworthiness

- Validate design
- Document safety

➤ Training

- Qualify manufacturers, pilots, controllers
- Implement and improve safety and regulatory structure

Regulatory Efforts

World Wide

ICAO

Airworthiness

Operations – Leading Contingency Ops Framework
Development

NIAG

US Del

CANSO

Co-Chair Collaborative Airspace Working Group
Small RPAS Position Statement
RPAS Training Manual

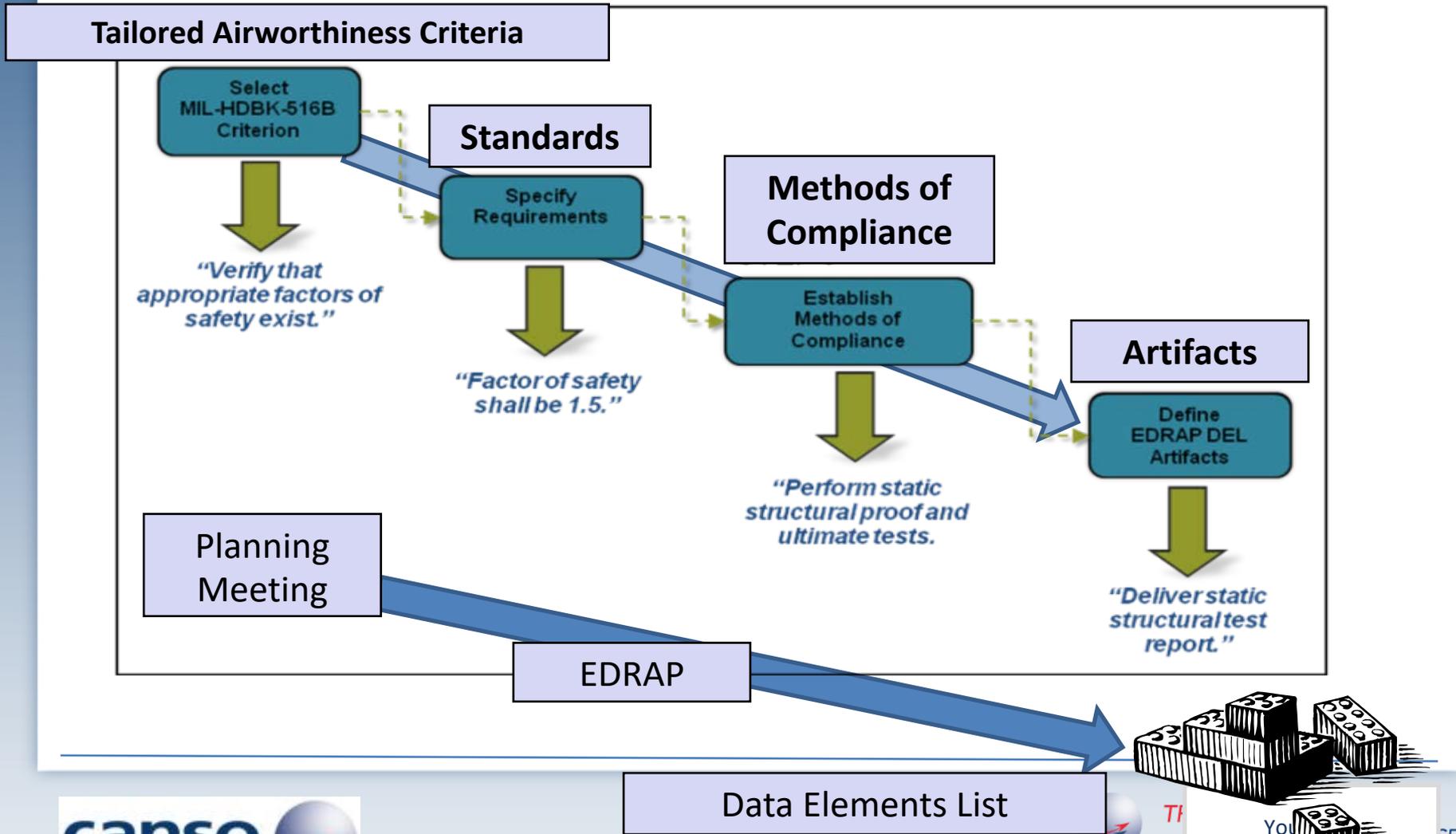
AU CASA

UAS Steering Committee

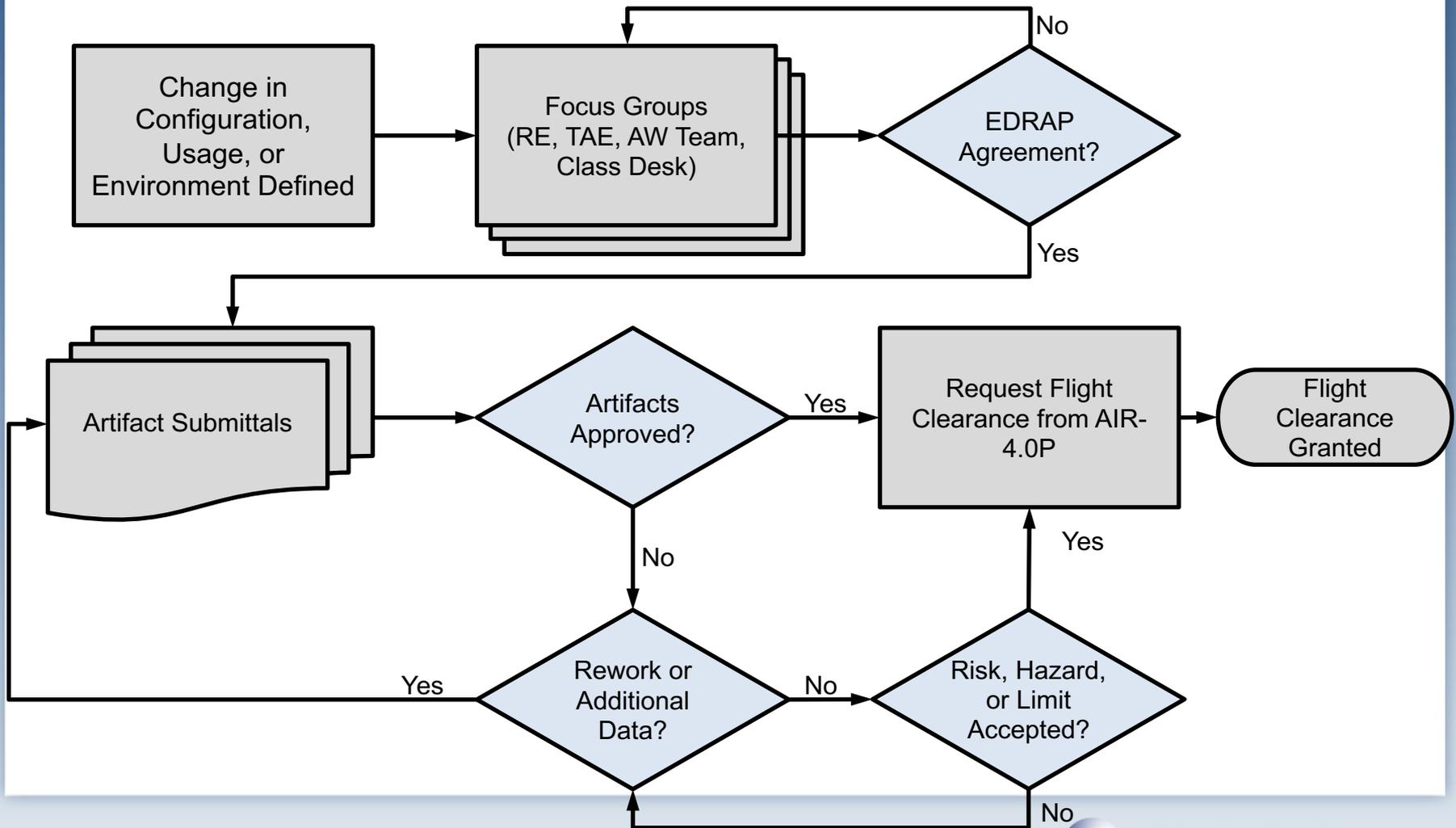
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1309, Airworthiness, Flight Crew Licensing

The building blocks of the airworthiness process



General Airworthiness Process Flow



RPAS Training Requirements

➤ Impact

- Pilot licensing
- Maintenance licensing
- Air Traffic Services

➤ Programs must be developed that

- Leverage existing qualifications and certification criteria
- Utilize existing programs/process to identify unique requirements
- Provide a path to gain RPAS experience and exposure

➤ RPAS training programs provide unique challenges

- Highly automated systems must interact “seamlessly”
- Long duration flights
- Diverse skill sets
- Limited number of systems operating

What will it take?

- Regulatory structure based on proven technology, training and safety strategies
- Sound manufacturing programs and process to maintain and build on existing aviation safety principles
- Documented training practices and the ability to maintain that proficiency
- Timeline that will keep pace with emerging technology and encourage innovation

Thank you for inviting CANSO



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Thank you!



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