

## Reality Bytes - The ADF Aviation Technical Safety Framework

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## The Theme

- We are a customer (owner, operator and regulator) of highly integrated or complex products
- How do we become confident that aircraft are safe to operate - includes design, maintenance and operations

## Being a Smart Customer is Difficult

- Limited control over contractors
- Ability to gain insight into design can be limited
- Numerous process standards - what is best practice
- Experience / understanding of standards is limited
- Computer System Safety costs - incremental 'improvement' difficult to qualify
- Non-uniform approach to safety programs

## How to be a Smart Customer

- Benchmark - Processes and standards measured against international leaders eg the FAA
- Good contract specifications
- Where possible acquire products already accepted by reputable regulators
- Specify understood international standards

## How to be a Smart Customer cont'd

- Employ competent compliance finding staff
- Educate staff
- Attempt to improve current internationally accepted standards
- Promote wider industry and customer acceptance, understanding and use

## What do we Promote?

- Systems safety - SAE ARP 4761 within a FAR xx.1309/MIL-STD-882C safety program
- Software safety assurance - RTCA / DO-178B



## Our Framework

- Dedicated independent technical safety organisation
- Set regulations (design and management)
- Audit compliance with regulations
- Monitor other regulators - benchmark
- People, processes, data, organisations

## Conclusion

- Software System safety is important
- How much is enough?