

# Adapting Mission Assurance

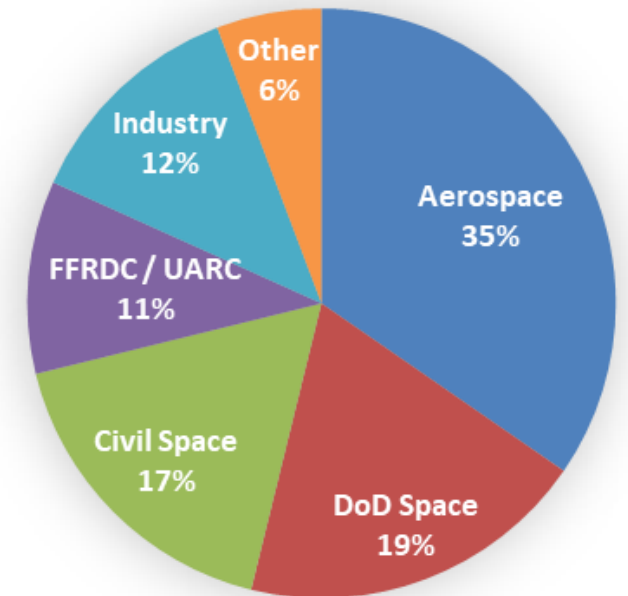


Everyone is willing to accept risk....  
...but no one is willing to tolerate failure.

We hear every day that space is changing.  
That we need to move faster.  
Accept more risk.  
Be agile.  
Adapt to proliferated and hybrid architectures.  
Take a different approach to mission assurance.

## HOW IS THAT GOING FOR YOU?

Attendance



In October of 2022, a group of small satellite and non-traditional space mission developers met to discuss the future of mission assurance ... here's what they found out!

- 1 Adaptive mission assurance is harder than full mission assurance, not easier

  - *“Not for beginners” - requires good judgement and good mentoring – no safety net*
  - *Need workforce training that is open to all*
- 2 There is a systemic mismatch of expectations

  - *Customers say they want Class D when they really want Class A at Class D cost and schedule*
  - *Asking for alternative grade parts but requiring upscreaming – which can induce failure*
- 3 Information firewalls do not contribute to mission success

  - *Data sharing is necessary but needs to be coupled with protection of reputation*
  - *Philosophy is fine, but tools and techniques should be more widely circulated*
- 4 Culture change is happening... slowly

  - *Tendency to miscommunicate risk and confuse decisions and outcomes*
  - *Need a forward-looking (not retrospective) “just culture” – no one wants to make a mission fail*
  - *Seeds of enterprise thinking are starting to grow*