

# The Death of Risk Management



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**Risk Identification And Mitigation Is Required On All Programs.**

**However, Poor Implementation And Understanding Of Risk Management Has Resulted In Unacceptable Level Of Risk Assumption.**

A common misconception, and program office practice, concerning risk management is to identify and track issues (vice risks), and then manage the consequences (vice the root causes). This practice tends to mask true risks, and it serves to track rather than resolve or mitigate risks.

## DOD Risk Management Guide

*“Risk is a measure of future uncertainties in achieving program performance goals and objectives within defined cost, schedule and performance constraints.”*

**RISK IS NOT:  
Lack of Oversight, Failure to Plan, or  
Unrealistic Performance Goals**



- Risk Management Is Only A Subset Of Project Management
- Risk Identification
  - Poorly Understood
  - Incorrectly Implemented
- Risk Mitigation Plans
  - Inadequate
  - Outside Daily Program Management
- Risk Realization Totally Ignored

## Risk Management Programs Require Risky Programs



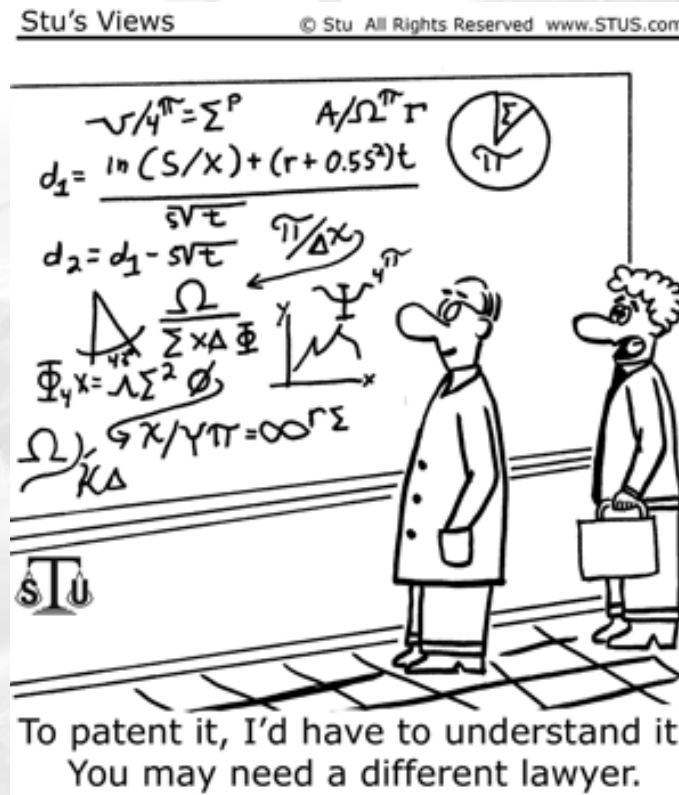
- Requirements Must Be Achievable And Documented
- Historically Derived Basis Of Estimate
- Integrated Master Schedule
  - All Tasks Are Planned And Linked
  - Well Constructed IAW ANSI 748
  - Critical Path Understood And Managed
  - Fully Integrated Supplier And Government Schedule Dependencies
- Integrated Data Environment
  - Deliverables Identified In Contractual Language
  - Deliverables Integrated Into Master Schedule
- Configuration Management Established & Active
- Timely Problem Resolution Across Contractual Lines
- Alternate Design Paths For Critical Technologies

## Properly Planned And Executed Programs Inherently Eliminate And Avoid Risk





## Trading Cost-Schedule-Performance Is A Ponzi Scheme



The objective of a well-managed risk management program is to provide a repeatable process for balancing cost, schedule, and performance goals within program funding, especially on programs with designs that approach or exceed the state-of-the-art or have tightly constrained or optimistic cost, schedule, and performance goals...

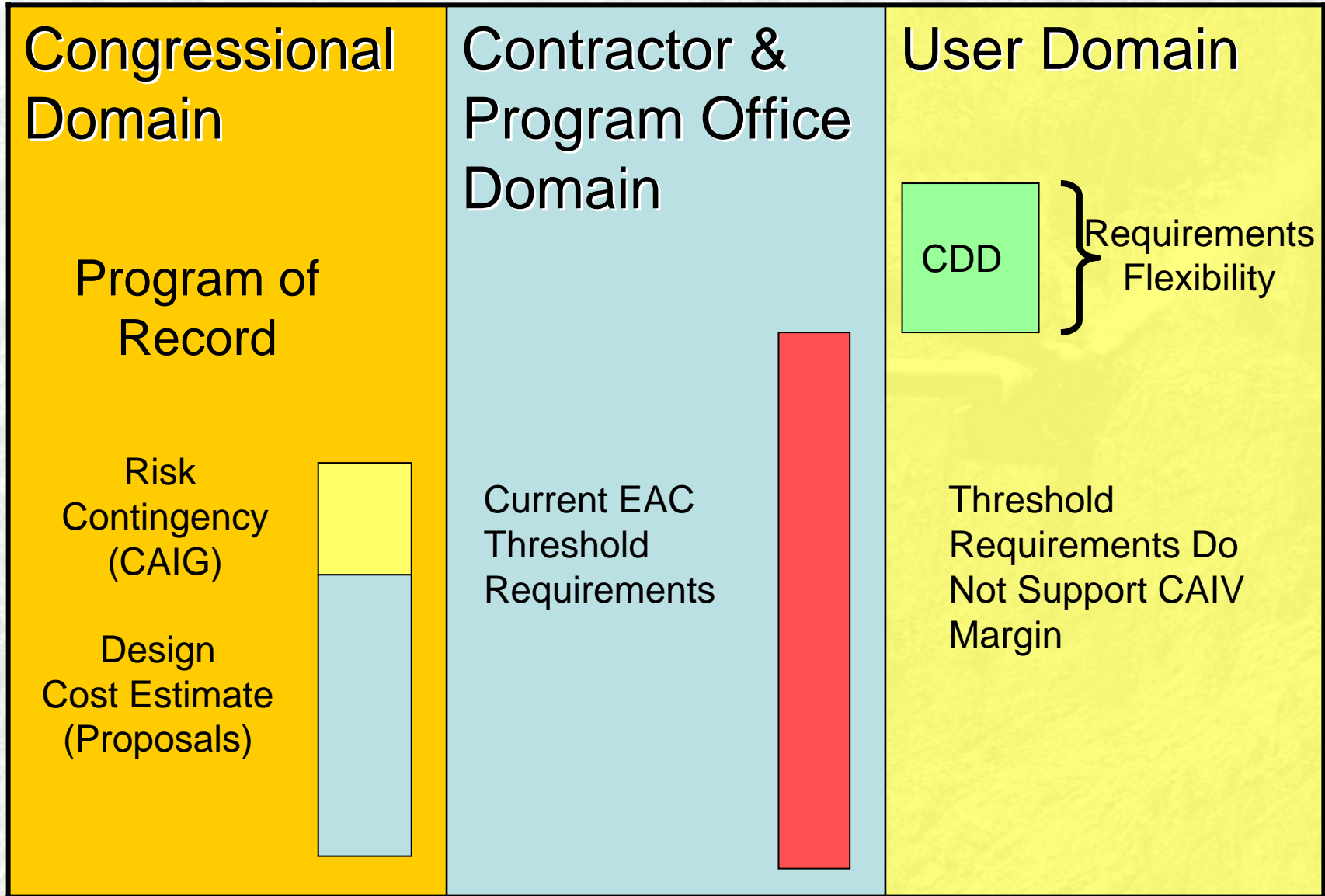
...Successful risk management depends on the knowledge gleaned from assessments of all aspects of the program...

Risk	
Technical	Critical Design Elements Depend On Technology That Is Just Not Achievable. Caused By Overreaching Performance Requirements Embedded In KPPs.
Programmatic	Resource Estimates (Budget & Schedule) Too Low. Caused By Insufficient BOE Or Optimism.

- Technical Risk Against KPPs & Thresholds Yields No Trade Space
- Result: No Resource Increases Will Eliminate Technical Risk. True Technical Risk Will Always Result In A Requirements Disconnect When Realized.
- True Technical Risk Requires Alternate Design Paths That Deliver Lower, But Acceptable, Levels Of Performance
- Minimum Acceptable Performance, And Design, Must Be Achievable Within Current State Of Technology.

# There Must Be Trade Space

2008 NDIA SE Conference





Hope springs eternal

...until the spring dries up.



- **Technical**
  - Balance Design Against Unproven Technology
  - Pursue Single Design Path Hoping Testing Will Show Compliance
  - Carry Significant (RED) Risk Beyond Design Closure (Roughly PDR)
- **Execution**
  - Hope For Optimistic Performance Through Management Challenges
  - Shift Risk To Suppliers In Firm Fixed Price Contracts
  - Fail To Include All Aspect Of Rebaseline In New EAC

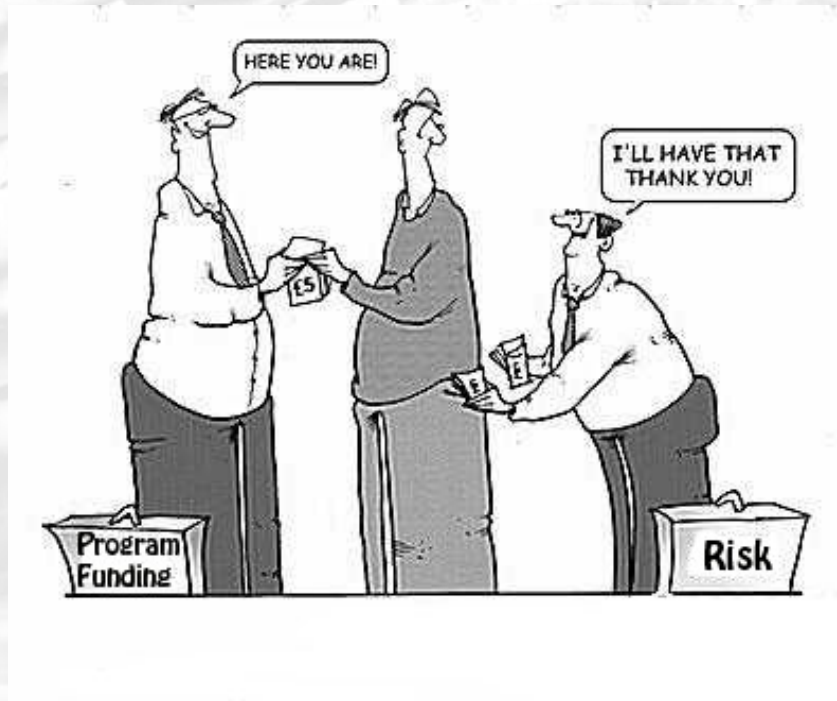
- Risk Realization **MUST** Be Part Of Risk Mitigation Strategy
- Risk Mitigation Steps Must Address Root Cause Uncertainty
  - Technical: Demonstrate Improved Performance Predictions Or Alternate Design Path
  - Execution: Improve Resource Estimates
- Technical Performance Measures (TPM) Are Essential To Mitigating Technical Risk
- Task Identification Is Essential to Mitigating Execution Risk

**Risk Mitigation Steps Should Not Be A Way To Buy Time  
In The Hope The Risk Will Be Eliminated**

## You Get What You Pay For...

### First Corollary:

### You Pay For Nothing-You Get Nothing





- Risk Mitigation Plans Are Unplanned Work
- Unplanned Work Requires MR To Execute
- Risk Mitigation Creates It Own Cost & Schedule Risk
- Unfunded Risk Mitigation Is Unresolved Risk

**Risk Mitigation Is A  
“Pay Me Now Or Pay Me Later”  
Decision**

- Risks Are Rooted In Uncertainty
- Disciplined Use Of PM Tools Is Required To Identify Areas Of Uncertainty (True Risks)
- Historical Execution And Standard Design Practices Normalize Optimism
- Money And Time Doesn't Mitigate All Technical Risk-Requirement Relief Only Solution
- Trade Space Has To Exist
- Mitigation Plans Must Attack Root Cause Of Risk-Which Is Uncertainty



**QUESTIONS?**

