

# ***Air Force Technical Applications Center***

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## **More Mission Less Money!**

*Optimize Your Network Through Total Life Cycle Management*



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**T4.1-03**

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# ***Sustaining Operational Success***

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- **Completed certification of US IMS sites**
- **Meeting stringent operational requirements**
- **Expanded our sensor network**
- **Leveraged budget to invest in site “bulletproofing” and critical infrastructure**
- **Built bi-lateral partnerships to support verification regime**
- **Legacy of international collaboration and success**

***BUILD THE ENTERPRISE AND ENSURE SUSTAINMENT***



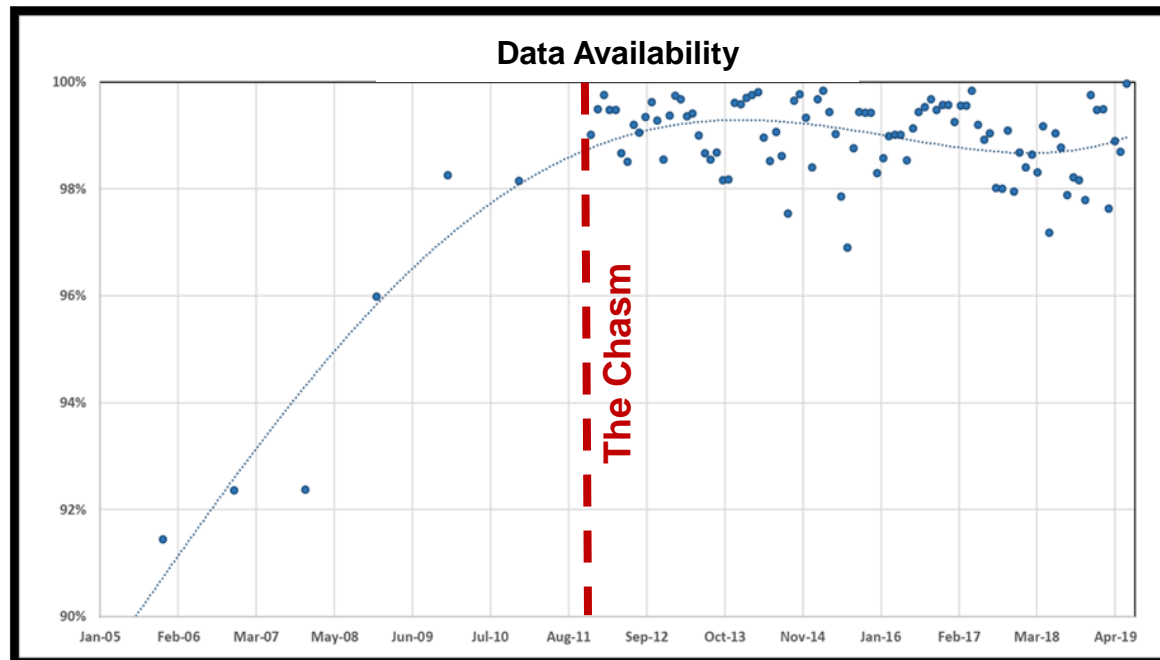
# Diminishing Returns



- Diminishing marginal return on investment, budget no longer buys the same performance increases
- Transitional phase of life cycle: growth focus → sustainment focus
- These strategies lead to divergent cost, performance, and schedule impacts

## Growth Focused

Is your organization positioned for targeting growth?



## Sustainment Focused

Or are you positioning yourself to optimize sustainment?

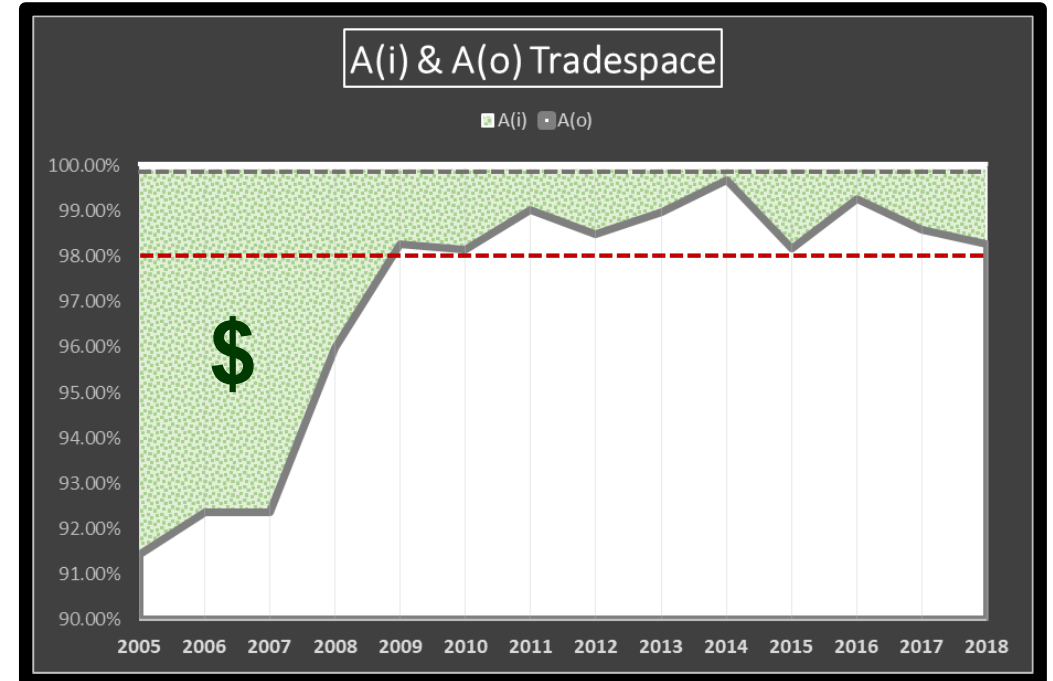
**UNDERSTAND WHERE YOU NEED TO BE!**



# Assessing Design & Requirements



- What is your system A(i)?
  - Does your A(o) meet or exceed the requirement?
  - How much is the cost delta?
  - Is it worth it?
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- Trade space considerations:
    - What is our target cost objective?
    - What is our desired level of performance?



A(i) = Availability of a system with respect only to operating time and corrective maintenance.

A(o) = The degree to which one can expect a piece of equipment or weapon system to work properly when it is required. The percent of time the equipment or weapon system is available for use. AO represents system "uptime" and considers the effect of reliability, maintainability, and Mean Logistics Delay Time (MLDT).

Source: Defense Acquisition Guidebook

**MANAGE YOUR TRADE SPACE EFFECTIVELY!**



# *Data Availability – The Vanity Metric*

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- Data availability is an operational requirement
- Data availability *is not* a life cycle management metric
- Misplaced emphasis on data availability clouds vision and obscures actionable metrics in the sustainment phase
- Our data must help us
  - See faster
  - See further

***BEWARE OF VANITY METRICS!***



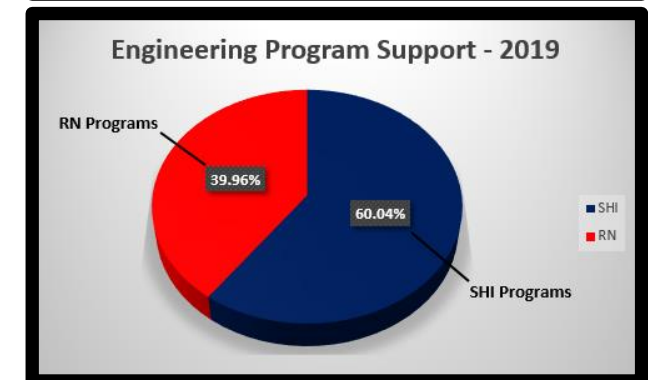
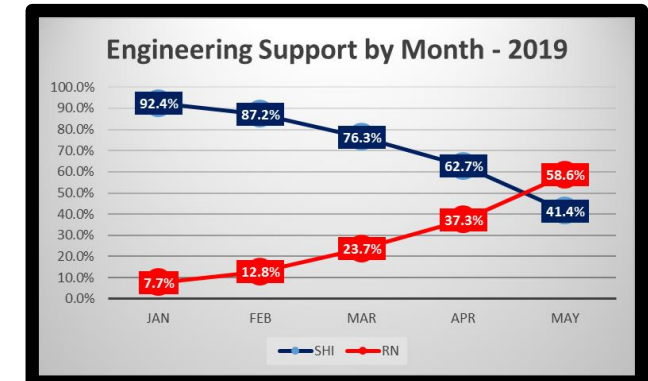
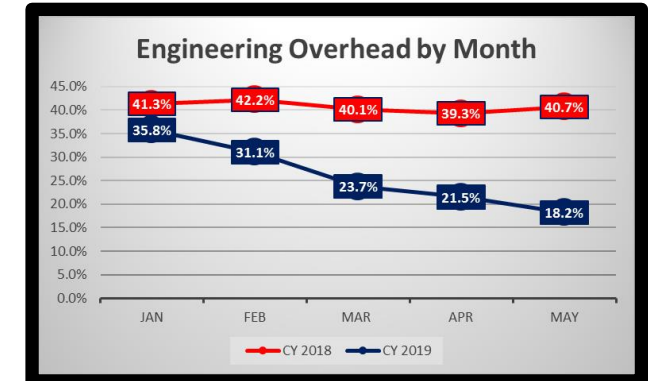


# Resource Management



- Our number one resource is Airmen
- How can we accomplish more work?
  - Historically only supported SHI programs
  - Goal: Engineering support for RN programs
  - Deliberate action to manage resources
  - Reduce overhead/waste
  - Understand where work is going (or not!)
  - Assess effectivity of management action

**DO MORE AND SAVE MORE!**





# ***Total Life Cycle Management***

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- **What coverage does the site give you? (Capability)**
- **How expensive is design and sustainment of the site? (Cost)**
- **What is the probability the site will perform failure free for some period of time? (Risk Frequency)**
- **What is the average downtime, variance and loss of capability if site failure occurs? (Risk Impact)**
- **How many events has the site detected? (Utility)**

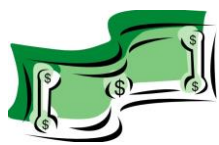
***UNDERSTANDING VALUE***



# Conclusion – Value Culture



- **Reduced maintenance footprint**
  - Predictive maintenance approach
  - Increased technician availability
- **Increased network performance**
  - Faster issue identification
  - Decrease in downtime variance
- **Reduction of inventory holding**
- **Effective resource allocation**



***MORE MISSION LESS MONEY!***

