# DTO Update: DMM Today



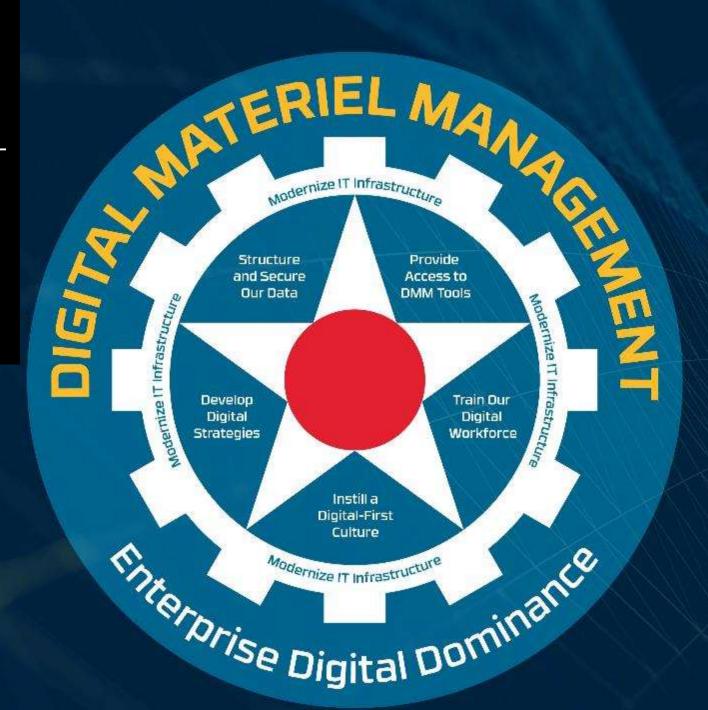


# MISSION > VISION

Empower our workforce to adopt digital-first practices that accelerate materiel management Enable the Acquisition enterprise to deliver superior capabilities at the speed of relevance

# Digital Materiel Management:

Ensure critical processes
employ digital methods
across the entire lifecycle –
from invention to
retirement – for both
warfighting capabilities as
well as installation and
mission support
capabilities





DMM: An Accelerated
Future State
Whitepaper



Video OV-1



# **LaunchPad Vision**

Increase the speed of adoption of Digital Materiel Management methods needed to accelerate the digital transformation by lowering the barrier of entry by providing access to critical tools

Enterprise Funded, Customer Driven



# **LaunchPad Overview**

- DTO and HNII partnership
- Funded through the FYDP
- IL-5, CAC required for access, VPC in a multi-tenant environment
- IL-6, CAC and SIPR token required for access
- Hosted on CloudOne inside of DPaaS C1SERC

1,400 users
500 three-letters organizations & OSD
300 project spaces







# Impact to DMM and Benefits

LaunchPad enables "combat modeling" where we participate in CONOPS and requirements development discussions with MAJCOM users and model out the concepts in real-time. LaunchPad opened other avenues of digital materiel management. One goal is to leverage CONOPS models in RFPs as the basis for technical requirements, driving contractors to deliver digital products. The acceleration of our digital transformation is directly impacted by the services provided by LaunchPad.

- Dr. Mike Schnider AFLCMC/WII

Before LaunchPad, I was constrained in the ability to Digitalize MIL-HDBK-516C and use it in a SySML format that could help the Airworthiness community. Through LaunchPad's powerful tools, I was able to connect over 11,000 artifact types to criterion in the handbook. Normally, this would have taken over 6 man-weeks to manually complete, but thanks to an automation function I was able to make these connections in under 10 minutes and visualize those connections in SySML. Through the freedom in the environment and foundation provided by access to tools, I was able to make a model that can be used by any program in the USAF to help put Airworthiness source data on contract and trace that data upon receipt. That, in my mind, is the power of DMM.

Noah Demerly Digital Air Worthiness/ HQ AFMC/ENZ



DPaaS

# **LaunchPad IL-5 Offering**

## **Current**

















#### **Ansys ModelCenter**

Connecting system requirements to engineering analysis



## **Roadmap:**

1075

#### **IBM**

- IBM DOORS Next Gen
  - Engineering
     Requirements
     Management, Family
     Edition



Creo Computer Aided Design



Team Center Desktop App



**SolidWorks** 



**AFSIM** 



DPaaS

# LaunchPad IL-6 Offering

## **Current**









## **RoadMap**

TRA

#### IBM

- IBM DOORS Next Gen
  - Engineering
     Requirements
     Management, Family
     Edition



#### **ASSURANT**

 ASSURANT Cyber Attack Survivability Suite





# **Improvements**

#### **Improvements:**

- Established a formal process for requesting an account
- Implemented data segregation schema
- Created a user guide
- Developed permissions groups and communication
- 24/7 uptime
- Azure to AWS Pilot
- JIRA/Confluence Pilot
- Formal Helpdesk with staff

# LaunchPad 1.0

LaunchPad IL-5 Goes Live- Cameo, TWC & DOORS

January 2023

LaunchPad IL-5 hits 600 users

September 2023

LaunchPad IL-5 Formal Kickoff

January 2024

March 2023

LaunchPad IL-5 hits 100 users

October 2023

LaunchPad IL-6 Go Live- Cameo TWC January 2024

LaunchPad IL-5 Creo, VSC, Matlab, Ansys, Solidworks, Better admin processes September 2024

LaunchPad IL-5 & IL-6 hits 4,000 users LaunchPad 2.0

LaunchPad IL-5 & IL-6 hit 10,000 users

September 2025

LaunchPad 2.0 Rearchitecture Complete

August 2026

LaunchPad IL-5 & IL-6 hit 60,000 users

September 2027

LaunchPad IL-5 & IL-6 hits 80,000 users

September 2029

September 2026

LaunchPad IL-5 1& IL-6 hit 40,000 users September 2028

LaunchPad IL-5 1& IL-6 hit 70,000 users



# LaunchPad 2.0 Re-Architecture Requirements (highlights)

- Establish cloud-based environment to handle 100,000s of users across multiple project spaces while protecting IP rights
- Set up multi-cloud environment connectivity and support contractor collaboration.
- Implement daily process for automated user onboarding and account disablement.
- Establish CAC/PIV Pass-thru
- Connect to external environments such as AF-PLM, HPC, BIG 6 Data Platforms, One Drive, Team Meeting, and Teams Chat
- Develop seamless integration with other environments for data exchange.
- Integrate additional tools and platforms into LaunchPad (e.g., AFSIM, Anaconda, AutoCAD, Catia, etc.).
- Collaborate with OEMs for specialized access and data sharing capabilities.
- Centralized Identity and Access Management (IAM) system
- Create automated onboarding processes including e2875s (account creation in less than 24 hours after last approval)



# Implementing Digital Strategies

# Implementing Digital Strategies

- Digital Building Codes
- <u>Digital Guide</u> all available content, powered by and regularly updated by DELTA and DIICE
- <u>Digital Maturity Assessment (DMA) Process</u> –
  framework for systematic program assessments and roadmap development
- <u>DMM OV-1 Video</u> and <u>Whitepaper</u> (DMM: An Accelerated Future State)
- <u>Digital Enterprise Launch Team for Acquisition</u> (DELTA) – Initial program workshops, Maturity Assessment support, RFP development
- Air Force Product Lifecycle Management (AF-PLM)





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# **Digital Guide Refactoring**



#### **UPDATED TO**

- 7 Parts of Functional DMM:
  - Program Management
  - Contracting
  - Engineering
  - Logistics
  - Financial Management
  - Test and Evaluation
- Plus
  - Cybersecurity
  - Config/Data Management
  - IP/Acq Security
  - Intelligence

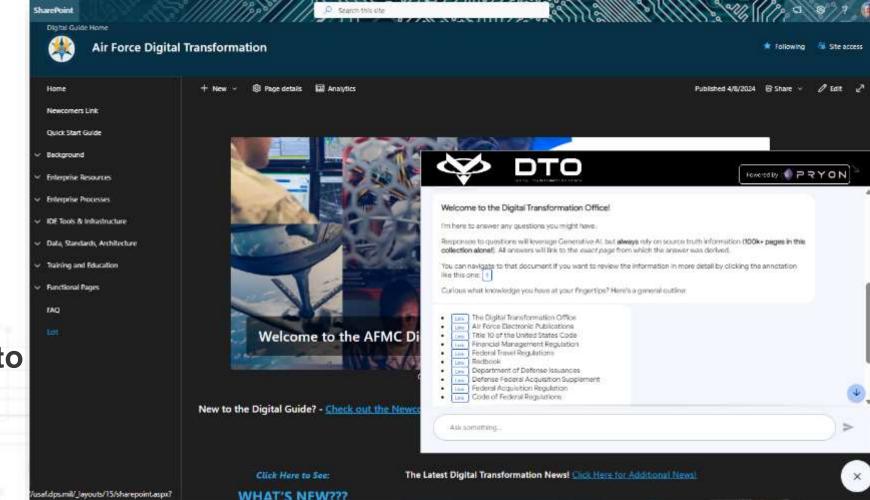




# Digital Guide Overhaul & Al

 Integrated GenAl chatbot experience to explore:

- Public Digital Guide
- DMM
- Laws
- Regulations
- etc...
- Designed with the express intention of acculturating users into the technology.





# Digital Maturity Assessment (DMA)

#### Summary

- Developed by USAF & USSF under SAF/AQR and Digital Campaign leadership & membership; based on industry standards (e.g., INCOSE Capability Matrix, TRLs, etc.)
- Qualitative assessment levels (0-4) for 19 Components to describe current state, desired state, capability gaps, and are weighted for investment prioritization

#### Deployment

- Beta tested on 11 programs, demonstrated by most PEOs on multiple programs
- Center-wide assessment of NWC & AFRL more applicable to technical functions
- Currently effort underway to 1) update with feedback from programs/DELTA/etc. and,
   2) convert assessment to cloud-based tool with more advanced analytics

What is Digital? – Level 4 descriptions characterize "Digital" operations

Are we already doing Digital? – Baselining provides insight to on-going activities

Where should we start? – Frame acq. goals/objectives in assessment, then set targets/priorities/timelines

# **DMA: Pre-Assessment Process**

- Define "enterprise" scope & the balance of participants
- Assign relative weights to set of components
- Level-set; align maturity components with org. objectives
- Determine Target level for each component

DAF Digital Maturity Guide\_v2.0\_PA

#### **DAF Digital Maturity Guide**

We must be able to account for the interactive nature of competition and <u>continuously</u>
<u>assess ourselves relative to our adversaries' adaptations</u>. Capabilities must be
conceived, developed, and fielded inside competitors' fielding timelines—knowing we
will need to adapt and adjust over time.<sup>1</sup>

- Gen Charles Q. Brown, Jr., Air Force Chief of Staff

The Department of the Air Force (DAF) will lose technological advantage over its adversaries without drastic changes in the acquisition process, according to Dr. Roper's Digital Acquisition Vision<sup>2,3</sup>, the DoD Digital Engineering (DE) Strategy<sup>4</sup>, and Chief of Staff of the Air Force's Accelerate Change or Lose paper<sup>1</sup>. To avoid delivering yesterday's technology to tomorrow's fight, we must improve how we develop, deliver, support, and sustain war-winning capabilities, not just the canabilities themselve. DF is defined as "an integrated digital annovach that uses

Category	Metric	Component	If no answer, set Weight (Column O) to zero	Level 0 Description	Level 1 Description	Level 2 Description	Level 3 Description	Level 4 Description	Component Baseline	Metric Baseline	Component Target	Metrio Target	Weight (1-10 with 10 most important)	Relative Importance	Weighted Effort Needed	to su y <sup>4</sup> : hang
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		Security	"RAYA" or "Not expedite of reciporating."	Limited number of models or data have restrictions.	Models and take across the orienpico are proceed by and authentication only Access in all lice.	Modern and data across the enceptice are excured by user authorization only. Users only have across to data tiery need.	Models and tista scious the enterprise are secured, apply application involved and responsible [F] position, and respons all classification levels defined by the program.	Models and data across the enterprise are secured. monapsed, and consolled, applicable intellectual Property (Physicises, and cupport all obscillation invests befined by the program.	2	1.50	4	3.50	o	0%	0%	
		Authoritative Sources of Truth (ASOT)	"MAX" or "Not sapatile of sesponding."	Data and information have not been identified to contribute to the ASOT.	ASOT with defined fortal likecycle data architectures are planned.	ASOT with defined flotal Beogole' data architectures are planned and being executed. In existing control strategy has been implemented.	Digital threads and digital twise with defined hotal bloogies data anotheroruse; have been smalletted to contribute to the ASOT for an enterprise. Model-based definitions are utilized and markstained jevulsion control.	Ogni en menaco uma regionne to- valin delibed tronal liceogorii dino- grobilecturare have bean spoblecturare have bean variabilinine contributing to the ASOT to an enterprise. Modeli based delibiliticas valoritari succontant salli graduta video appositant models are changed (Conformance to WALE, T	0		1		9	7%	7%	shnolo t).

# **DMA: Assessment Process**

- Workforce: how well trained and competent the workforce is for digital operations
  - Digital User Skills
  - Common Digital Understanding
- Adoption: a measure of culture change within the workforce
  - Digital Artifact Use
  - Reference Architecture Implementation
  - Milestone, Program, and Technical Reviews; Audits
- Quality: the ability to make informed decisions from model outputs and data, and understand the associated risk and uncertainty
  - Authoritative Sources of Truth (ASOT)

  - Model-Based Verification and Validation (V&V)

0 = Not Digital

4 = Fully leveraging digital capability

- **Model Management:** robustness of internal digital processes and operations, and the ability to seamlessly leverage contracted expertise
  - Digital Management Strategy
  - Model-Based Systems Engineering (MBSE)
  - Configuration Management
  - Process Verification and Validation (V&V)
- **Data Management:** internal processes/operations and contractor interchanges ensure the ASOT is defined, utilized, and maintained
  - Innovative Technical Processes
  - Technical Management Processes
  - Analysis, User Interface (UI) and Visualization
- **Model Environment**: the ability to conduct digital operations based on available hardware and software configurations
  - Access and Governance
  - Interoperability
- **Collaboration:** an integrated digital environment that is standardized, secure, and enabling
  - Capability
  - Security

#### Maturity values range 0-4

# **DMA: Post-Assessment Process**

- Average results into 19 components & 7 metrics
- Analyze maturation gaps; Compare similar programs/orgs
- Determine root-causes; review prioritized (weighted) results
- Maturation planning; launch workshops & working groups

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# **DMA: Cloud-Based Tool**

- Prototype Demonstrated
- Proposal for AFRL hosting
- Currently deploying with a few programs
- Interactive event planned at DTC



# **Maturity Model Assessment**

The Maturity Model Assessment tool is a prototype that enables programs to collaboratively evaluate their digital maturity and monitor their progress and goals.

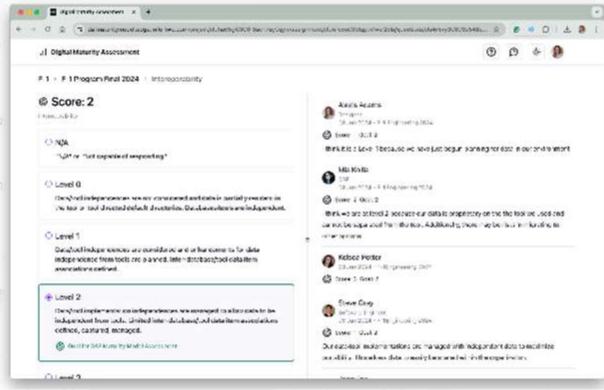


- Assessment Builder

  Program offices can build and organize custom
  assessments
- Assignment Management

  Create unique assessments and assign to individuals
  or teams to collect scores and comments
- Evaluate Historical Progress Monitor progress through data visualizations and historical comments of previous assessments

- Evaluate current and past goals See where you are today compared to po goals
  - Project History
     Project history is stored and enables con each new assessment
  - Supported Collaboration
     Designed to support collaborative teams
     and agents









# DIGITAL TRANSFORMATION: KEEPING THE HUMAN IN THE LOOP

Join us for an interactive discussion to discover how the DTO is transforming Digital Maturity and Airworthiness with human-machine teaming

# SAVE THE DATE

Friday, June 7th 10 AM-Noon

More details to follow

Location: Digital Transformation Center 1520 South Main Street InterMed Building-Second Floor Dayton, OH 45409

DTC@UDRI.UDAYTON.EDU





Digital Innovation & Integration
Center of Excellence

# WE PUT THE DIGITAL ODDS IN YOUR FAVOR

As the Department of the Air Force revolutionizes warfighter capabilities with Digital Materiel Management (DMM), we are seeing DMM as a disruptive enabler, accelerating capability delivery through a digitally empowered workforce. This shift to a digital, model-based systems engineering framework not only enhances understanding and decision-making, but also fosters an unprecedented collaboration between industry and government. Strengthen your DMM capability by partnering with AFIT and DIICE to empower and innovate across your system life cycle:

- Educational Excellence
- Research & Tech Transfer

- Consulting
- Best Practices

#### **Vision**

To forge transformative Digital Materiel Management solutions through collaborative partnerships, ultimately accelerating capability delivery to warfighters providing the competitive edge they need.

#### **Mission Statement**

To enhance digital excellence across the Air Force Materiel Command enterprise, building a more digitally capable team of Airmen and Guardians.

### **EDUCATIONAL EXCELLENCE**

# PROFESSIONAL COURSES AND GRADUATE PROGRAMS YOU CAN CHOOSE FROM

Looking to advance your skills and career? AFIT offers a variety of professional courses, graduate certificates, master's degrees, doctoral programs, and more. Whether you're a contractor, civilian, Airman, or Guardian, AFIT provides professional continuing education through short courses and graduate programs that ensure strategic talent development.

The School of Systems and Logistics (LS) is the DAF's designated provider of continuing education in Acquisition/Project Management, Systems and Software Engineering, Data Analytics, Financial Management, and Logistics Management. LS delivers education in many different modalities and can tailor education solutions to meet your needs.





If you're interested in pursuing higher education, AFIT's Graduate School of Engineering and Management (EN) is an acclaimed institution that offers certifications, master's, and Ph.D. degrees in engineering, applied science, mathematics, and management.







# RESEARCH & TECH TRANSFER

SPONSORS, STUDENTS, AND PROFESSORS COLLABORATING TOGETHER

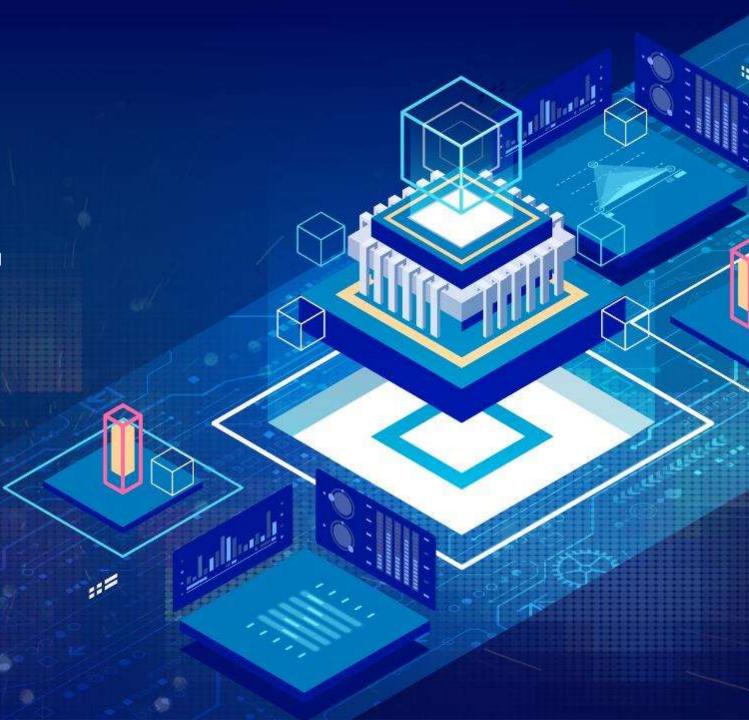
Explore our Graduate School's expertise in digital domain research across acquisitions. Our team integrates model-based systems engineering tools with simulation and modeling frameworks to deliver value to government and industry stakeholders. We excel in defense-focused domains like space, cooperative munitions, and unmanned systems. By collaborating with sponsors, we solve complex problems and streamline administrative processes. Let DIICE help accelerate tech transfer through our applied research efforts.



To begin your digital journey, contact DIICE

by scanning the QR code:





## **CONSULTING**

PROVEN PROFESSIONAL SERVICES TO IMPLEMENT DIGITAL MATERIEL MANAGEMENT

We offer consulting services for Digital Materiel Management programs that are scalable to the enterprise. Our multidisciplinary team delivers practical digital solutions with a high return on investment (ROI). We focus on identifying areas of ROI to ensure efficient and effective implementation.

Our incentive structure allows us to share completed project accomplishments and educate the workforce to ensure sustainability.



by scanning the QR code:







# **BEST PRACTICES**

#### **YOUR DIGITAL COMPASS**

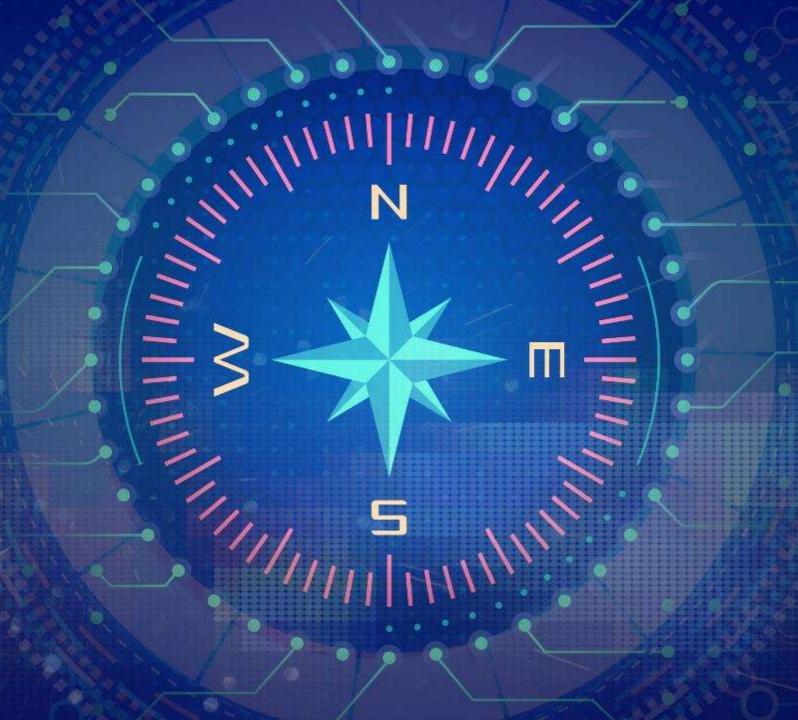
These lessons learned are shared with endusers and act as a digital compass in shaping policy, setting standards, and implementing engineering efforts. Completing the cycle, our position as a center of excellence enables propagation of best practices broadly across the DoD through our research, consulting and education efforts, acting as a conduit and breaking silos across the DAF.



To begin your digital journey, contact DIICE

by scanning the QR code:





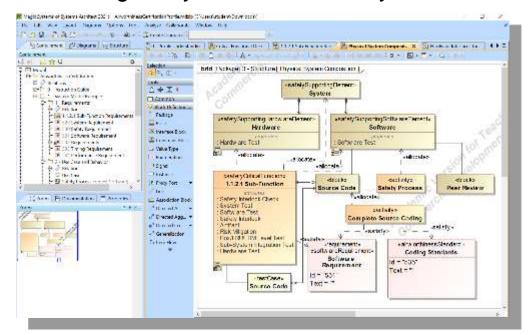


# **AFIT Digital Academy**



- Need for immersive course to produce digitally literate multi-functional AFMC graduates Digital Literate Force
- Integrates education, tool training, exercises to produce specific digital artifacts **Digital Twin**
- Modelling towards answering program and technical milestone reviews Digital Thread

#### Digital System Models in SysML



#### Digital Data Visualization Dashboards





# THE DTO FACILITATION ACADEMY

In a time of evolving challenges, mastering facilitation is paramount.
Why? Because superior collaboration drives innovation, streamlines processes, and accelerates our enterprise to deliver warwinning capability.

The DTO is committed to empowering each of us with the skills to drive better collaboration in our virtual meetings.

- **Leading through Facilitation 101**: Learn how to unlock the potential of transformative collaboration by mastering the ability to guide team discussions efficiently, increase participant engagement, and navigate potential distractions to keep focus on objectives.
- **Meeting for Impact 101**: Enter the world of strategic organization by discovering how to build compelling agendas that shepherd your meetings toward desired outcomes, keeping team member engagement high and discussions productive.
- Storytelling with Data 101: Delve into the power of data with storytelling by learning how to illuminate
  patterns and trends hidden in complex data, transforming them into clear, influential narratives that
  inform decision-making and inspire action.



# **Digital Badges**



- 3 virtual instructor led classes- paid for by the DTO
- Capstone Project Required
- Plan to add different levels in the future



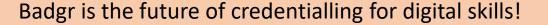
- Skillport classes
- Capstone Project Required
- Plan to add different levels in the future



- 3 Digital U classes
- Capstone Project Required
- Plan to add different levels in the future

- Future Badges planned:
  - Teams/SharePoint Expert
  - Digital Collaboration Expert
  - Agile Program Management
  - Becoming a Change Leader
  - Digital Transformation for Leaders
  - Data Expert

- Planned education partners
  - DAU
  - Udemy
  - AFIT
  - Avovle
  - Digital u







# **Culture Science Assessment**

**OVERVIEW** 









ACQUISITIONS 8 SUSTAINMENT REPRESENTED

10+



COLLECTED

THE PATH TO **SUCCESS** 

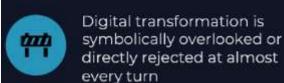
SMATT RISKS IS



Transformation is a buzzword. And execution can be a mystery. Still, people would be excited if Leadership would lead differently.



ideas that need resources/\$





Top cover and clarity around execution goals would accelerate transformation



The frozen middle prevents ideas from flowing up and resources from flowing down



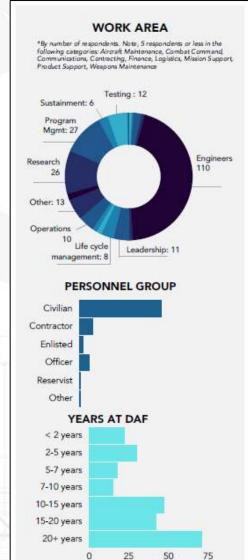
Collaboration, not competition, is key to successful transformation

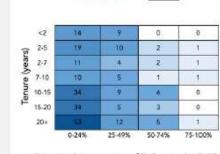


Digital transformation is hindered by career focus on job descriptions and titles



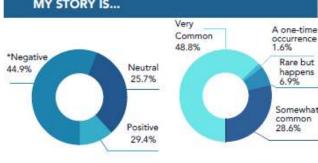
Transformation requires a new way of thinking about the "right" way to do things and adopting new technologies





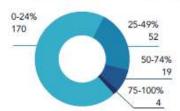
Perceived Acceptance of Failure in the DAF





\*84% of negative stories reported it is a very common occurrence

#### % OF FAILURE DAF ACCEPTS



We need more stories from folks who aren't as close to or familiar with digital transformation to fully understand the barriers we're

up against.

Rare but

happens

Somewhat

common

28.6%

Due to the low

weren't able to

response rate, we

equally assess the

lived experiences

of each group by

tenure, employee

sector, or work

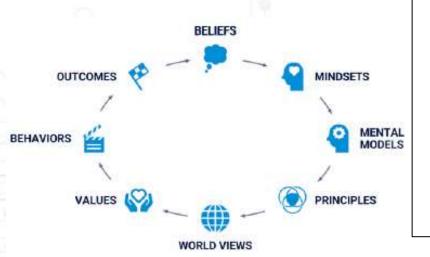
area.

6.9%

# Digital First Culture Masterclass

- Inaugural Digital First Culture Science Masterclass held Feb May 2023; included ~25 GO/SES participants
- Follow-on course (3 cohorts of ~25 participants each) ongoing
- Planning additional cohorts through 2024/25

# gapingvoid® Culture Design Group



#### **COURSE TOPICS**

- Understanding the current state of digital transformation in the DAF through the lens of culture
- Addressing status quo and limiting belief systems within our teams
- Communicating and spreading our visions for change
- · Building support for our initiatives
- Developing inter-and-intra-team trust, communication and collaboration
- Implementing systems for accountability and ownership
- And much more!



# **Hero Recognition Campaign**



As a fierce advocate for the DAL's riigital transformation, Kwiin developed a model for air-aorthiness certification traceability, and also created and integrated MATLAB and Cameo models to accelerate airworthiness approval of system modifications. His colleagues can now tackle analysis and problem solving with improved speed and precision.



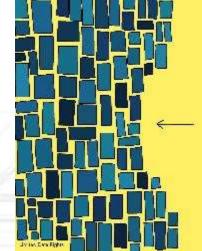
When AFTT reacted guidance on evolving its graduate systems engineering and technical continuing education courses and workshops, Amy stepped up. Her work has enabled the promotion of advanced thinkers who confidently embrace the use of digital strategies and tools.

**Nominate Heroes:** 









big success is just

← a lot of little wins
scrunched together

pragement. Transforming a long-established process wasn't easy, but Justin made it happen. His

perseverance has resulted in increased efficiency, improved accessibility, sharper analysis, and more

nteractive briefing discussions. Other divisions are now adopting the process sustin chempioned.

