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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW



DoD Manual (DoDM) 5000.100

Test and Evaluation Master Plans (TEMP) and Test and Evaluation Strategies (TES)

Director, Operational Test and Evaluation (DOT&E)

UNCLASSIFIED

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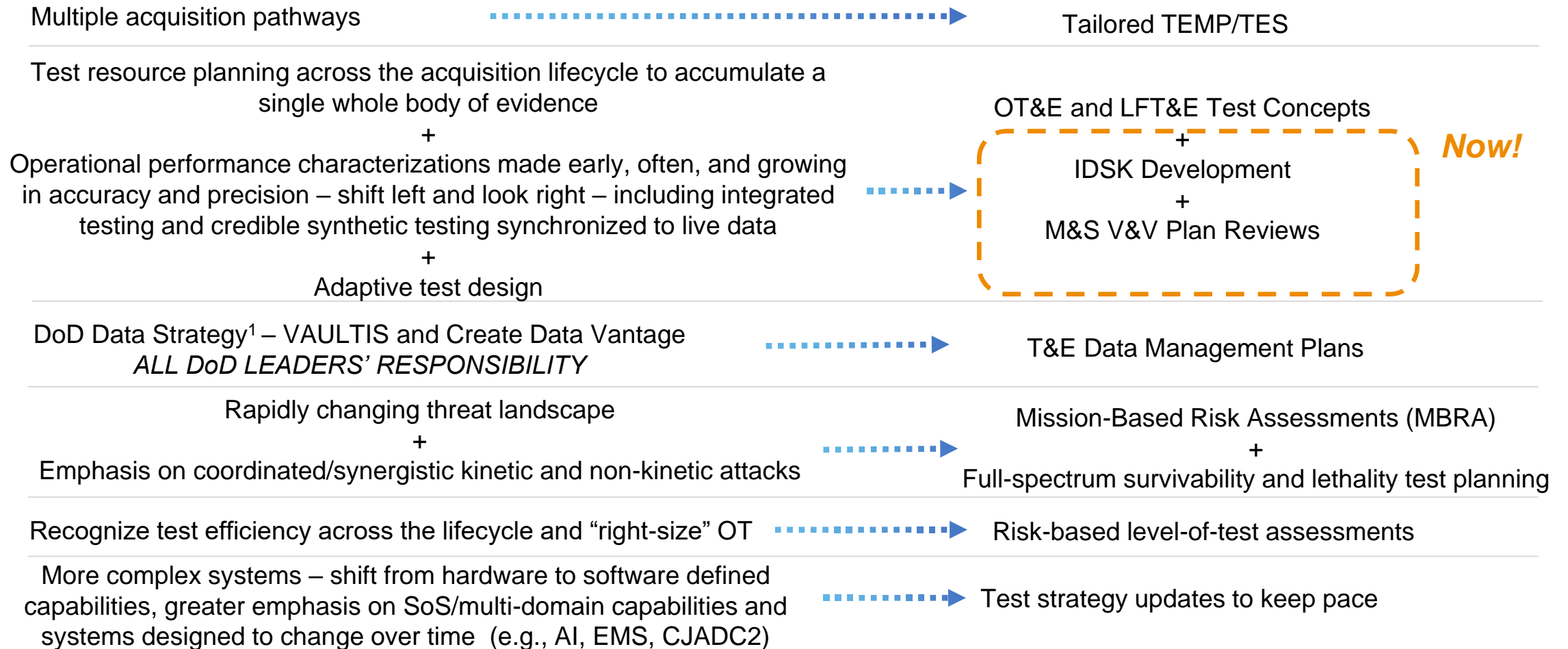


DoDM 5000.100 TEMP/TES Overview



DoDM 5000.100 TEMP/TES: Rationale for Policy Update

Evolving Acquisition and T&E Landscape



DoDM 5000.100 was created for a rapidly evolving defense and T&E landscape

Previous Policy and Guidance

Incorporates and cancels:

- Interim Guidance for Test and Evaluation Master Plan Pilot Program
- TEMP Guidebook Version 3.1

**Continue to leverage
TEMP Guidebook 3.1 with
examples until
forthcoming TEMP
Guidebook 4.0 is in place.**



DoD Manual 5000.100

Test and Evaluation Master Plans and
Test and Evaluation Strategies

ORIGINATING COMPONENT:

Office of the Director, Operational Test and Evaluation

EFFECTIVE:

December 9, 2024

RELEASABILITY:

Cleared for public release. Available on the [Directives Division Website](http://www.esd.whs.mil/DD/) at:
www.esd.whs.mil/DD/

INCORPORATES AND CANCELS:



Director of Operational Test and Evaluation Memorandum, "Interim
Guidance for Test and Evaluation Master Plan Pilot Program," 2019
Director of Operational Test and Evaluation Memorandum, "TEMP
Guidebook Version 3.1," January 19, 2017

APPROVED BY:





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Overview of Changes




HIGH-LEVEL PLANNING

-  OT&E and LFT&E concepts
-  Input into Acquisition Contracts
-  Tailor (as applicable) TEMP/TES for acquisition pathway
-  Integrated Decision Support Key
-  M&S VV&A Strategy or Master Plan
-  Mission-Based Risk Assessment (MBRA)
-  Risk-Based Level of Test Assessment
-  Full Spectrum Survivability and Lethality
-  Science- and Technology-based T&E

ADDITIONAL SUPPORTING CONTENT/DOCUMENTATION

-  Table 2. TEMP/T&E Strategy Requirements
-  Data Management Strategy
-  OT&E and LFT&E needs for AI-enabled DoD Systems, Software, EMS-Dependent Systems, Full-spectrum survivability and lethality, etc.
-  Test Events, live data sources, M&S results/runs for record, robust descriptions (describe integrated T&E, OT&E, LFT&E, and M&S events identified in the IDSK, including DOE)

DELIVERABLES

-  TEMP/TES delivered for DOT&E review and approval no later than 30 calendar days before the decision point being informed
-  M&S VV&A Plans
-  Data Management Plan

1. Introduced in DoDI 5000.89 (Nov, 2020)



NEW



UPDATED



RE-EMPHASIZED

What the T&E Community Needs to Do

Science and technology-based test strategies:

- Characterize and quantify risk to OT&E, LFT&E, the program, and mission outcomes based on T&E data
- Optimize planning of T&E through IDSK including scientific test design techniques

T&E strategy is applicable *across the acquisition lifecycle*.

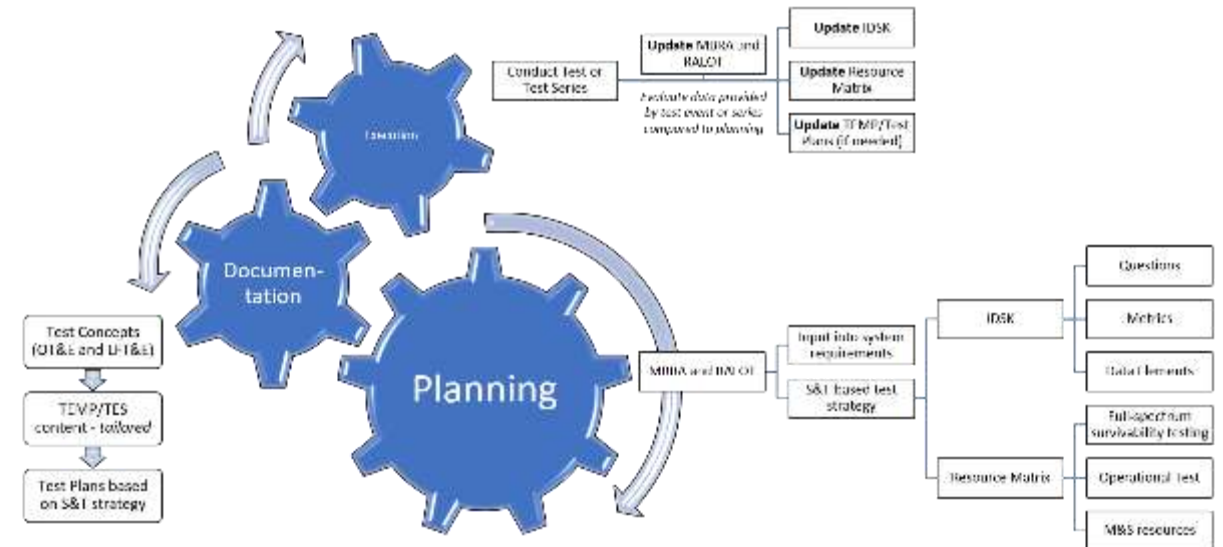
- Must be developed to support:
 - Requests for proposals
 - Acquisition contracts
 - Initial acquisition or program decisions
- **Updates to the strategy will occur:**
 - At each subsequent acquisition or program decision
 - Following any major program changes

Scope of OT&E and LFT&E is informed by:

- Risk-based level of test assessments
- Mission-based risk assessments

Key component of TEMP/T&E Strategy:

- Integrated Decision Support Key (IDSK)



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TEMP/TES Policy/Responsibilities

TEMP/TES Planning Activities

Driving TEMP/TES
Guidebook Content
Development

TEMP/TES Content

DoDM 5000.100 **Table 2** details
required TEMP/TES content

DoDM 5000.96, 5000.99,
5000.101, 5000.102 provide
additional detail on specific topics
for TEMP/TES consideration

Section 2: Responsibilities

Pursuant to Sections [139](#), [4171](#), [4172](#), and [4231](#) of Title 10 U.S.C., Section 223 of Public Law 117-81, DoDD 5141.02, and DoDI 5000.98, DOT&E:

- Reviews and approves exceptions and deviations from this issuance for acquisition programs on the T&E Oversight List for OT&E and LFT&E

In addition to the responsibilities outlined in DoDI 5000.61 and DoDI 5000.98, the USD(A&S) will enforce this issuance and review exceptions from this issuance for programs where the USD(A&S) is the Milestone Decision Authority.

- In accordance with DoDI 5000.98, the DoD Component heads will follow the procedures outlined in this issuance.



Section 3: TEMP/TES Across the Acquisition Lifecycle

At acquisition program inception, the program manager will charter a T&E Working Integrated Product Team (WIPT) to develop the TEMP/T&E strategy and will update at each subsequent acquisition milestone to optimize the use of available Contractor T&E, DT&E, OT&E, and LFT&E data and M&S results



The development of the TEMP/T&E strategy will be informed by all relevant program-related products



The TEMP/T&E strategy will include strategies for contractor T&E, DT&E, OT&E, and LFT&E data and M&S results, schedule, resources, and limitations



The TEMP/T&E strategy will include an IDSK and MBRA:



The IDSK is the linkage across acquisition decisions, operational performance metrics, test events, and test data/ M&S results integrated into a dynamically adaptive optimization of test data collection / M&S result generation that is based on a maturing characterization of system operational performance.



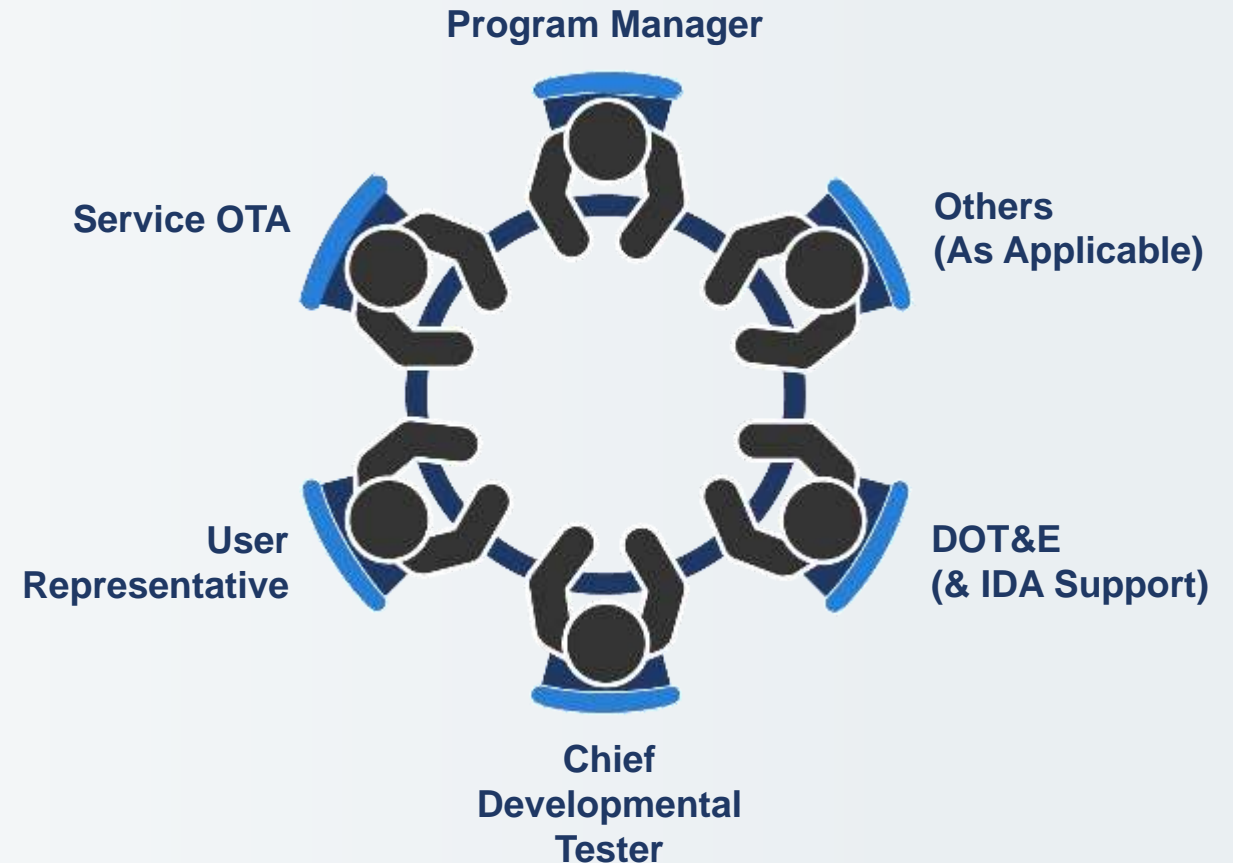
The IDSK will identify the data needed to determine operational effectiveness, suitability, survivability/lethality across the program lifecycle along with corresponding performance criteria that must be met before the program proceeds to the next phase or decision.



The MBRA will evaluate mission critical functions and the potential threat effects. MBRAs will be conducted in the context of operationally representative threats, the attack surface, and the mission to identify critical system elements and interfaces.

Section 3: TEMP/TES Across the Acquisition Lifecycle

- Program Manager charts T&E WIPT/ITT to develop the TEMP/T&E Strategy at program inception
- TEMP/T&E Strategy updates occur at each acquisition milestone



New Instruction Directs Creation of Data Management Plans (DMP)

- Current T&E Data Management Strategy requirement is contained in the TEMP Guidebook 3.1
- DoDI 5000.98 and DoDM 5000.100 now **require programs to describe their data management strategy in the TEMP/TES and provide a Data Management Plan (DMP)** as an additional deliverable
- Motivation for increased rigor and consistency comes from the DoD Data Strategy, including VAULTIS principles
- Additional DMP guidance will be in the forthcoming guidebooks

DATA IS...

Visible

Accessible

Understandable

Linked

Trustworthy

Interoperable

Secure



Section 3: Oversight

REVIEWING

For programs on the T&E Oversight List for OT&E and LFT&E, the program office will coordinate draft TEMP/T&E strategies with DOT&E staff early and often and will submit the final product for Director's review and approval **no later than 30 calendar days prior to the decision point** that the TEMP/T&E strategy is informing.

TIMELINES

The timeline for the delivery of these products may be tailored with mutual consent among DOT&E, the OTA, the lead LFT&E agency, and the program office.

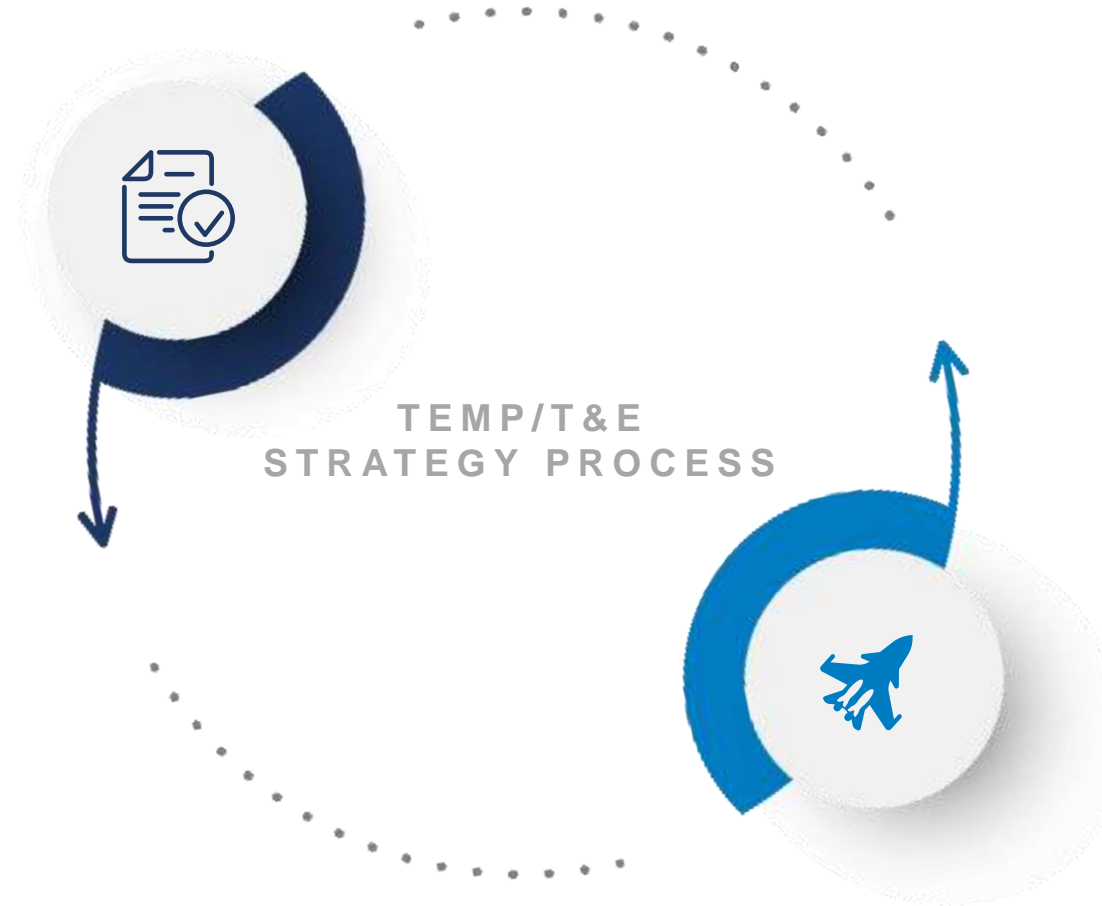
OT&E and/or LFT&E will not be conducted until DOT&E has approved the adequacy of the test plan and TEMP/T&E strategy it is related to, including the projected level of funding.



Section 4: TEMP/T&E Strategy Process

PLANNING (begins at program initiation)

- MBRA and Risk-based level of test assessments
- Input to system requirements
- S&T-based test strategy
- Integrated Decision Support Key
- T&E concepts for OT&E and LFT&E



DOCUMENTATION AND EXECUTION

- Review program artifacts that may affect the TEMP/T&E Strategy scope
- Develop TEMP/T&E Strategy based on requirements specified in Table 2
- Provide additional deliverables: Data Management Plans and M&S V&V Plans
- As testing is conducted and new information is learned, update MBRA, risk-based level of test, IDSK, Resource Matrix, TEMP/Test Plans

Section 4.1: T&E Strategy Planning, Including Development of the IDSK

IDSK = Linkage across acquisition decisions, operational performance metrics, test events, and test data / M&S results integrated into a dynamically adaptive optimization of test data collection / M&S result generation that is based on a maturing characterization of system operational performance.

Additional IDSK guidance will be detailed in the forthcoming guidebooks.

KEY



BLACK TEXT/LINES: relationships among decisions, operational performance, requirements, test events, and resources



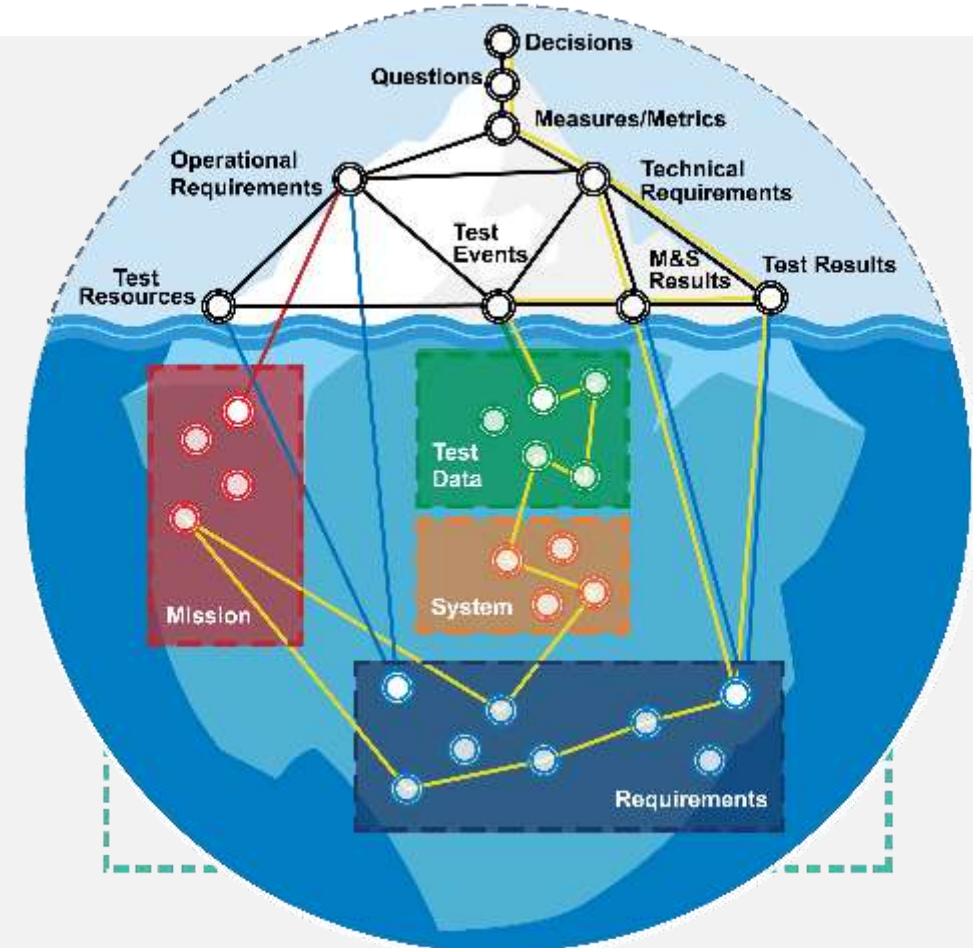
WHITE TEXT: information that the IDSK can connect to and have dependencies upon



YELLOW LINES: illustrate how stakeholders may create custom queries to support decision-making, track system performance, or help coordinate T&E activities



RED, GREEN, OR BLUE LINES: respective connections to Mission, Test Data, or Requirements



An IDSK enables timelier and more effective decisions across a system's lifecycle by optimizing test, data collection, and analysis to evaluate operational performance early and often.

Section 4.1: T&E Strategy Planning, Including Risk-Based Level of Test and MBRA

Additional risk-based level of test assessment guidance will be in the forthcoming guidebooks:

- (1)** The TEMP/T&E strategy will include risk-based assessments to determine the necessary level of independent testing and the extent to which data from earlier tests can be used for each program or acquisition decision.

Additional MBRA guidance will be in the forthcoming guidebooks:

- (1)** The TEMP/T&E strategy will incorporate MBRAs to guide OT&E and LFT&E scope. Appendix 4A, Table 3 outlines MBRA steps using system-theoretic process analysis to characterize system designs, prioritize vulnerabilities, identify potential attack conditions, and evaluate threat effects on the mission, considering both kinetic and non-kinetic threats, including AI-specific threats.
- (2)** MBRA will assess how a system impacts mission objectives, evaluating risks and vulnerabilities of DoD systems against a full spectrum of threats, including combined effects, within their intended operational context.

DoDM 5000.100 Guidebook Plan



What Can You Expect the TEMP Guidebook 4.0 to Include?

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TEMP/TES Planning Activities

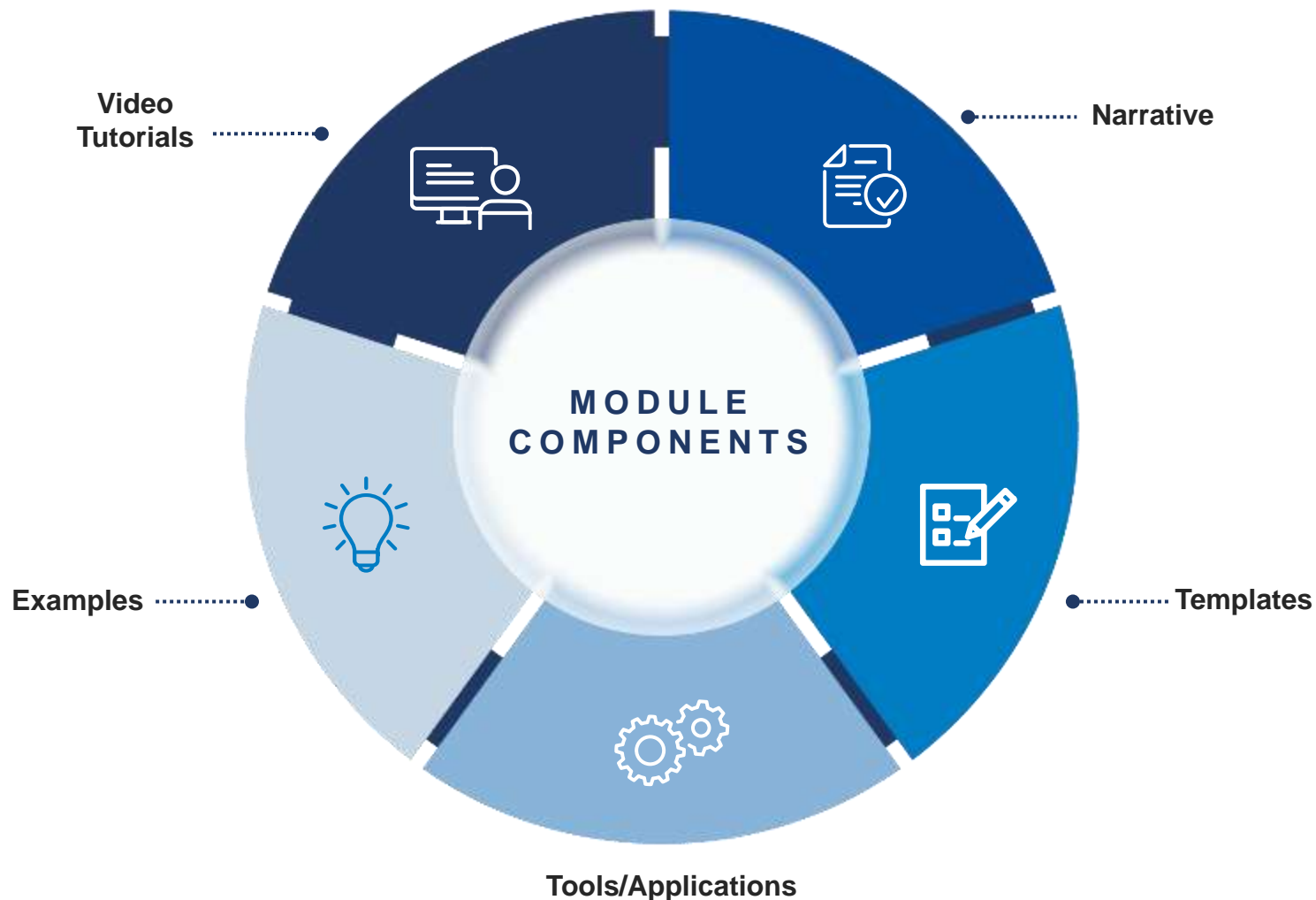
TEMP/TES Required Content

5000.100 Guidebook Focus Area Modules (Modules will be developed by or in coordination with other Guidebook Leads / Subject Matter Experts)

★ Data Management	S&T-based TEMP/TES Strategy*
★ MBRA	Risk-Based Level of Test
M&S VV&A	★ IDSK
Resourcing	OT&E LFT&E T&E Concepts
System Requirements	Other topics?

What is a Guidebook Module?

A module is one or more of the following components:



INTERACTIVE TEMP/TES Guidebook 4.0



Leverages Relevant
Material (Examples /
Narrative) from 3.1
+
New/updated material
generated by Modules



CLOSING STATEMENTS Q/A



THANK YOU