

CHANGING THE FOCUS OF DEVELOPMENTAL T&E

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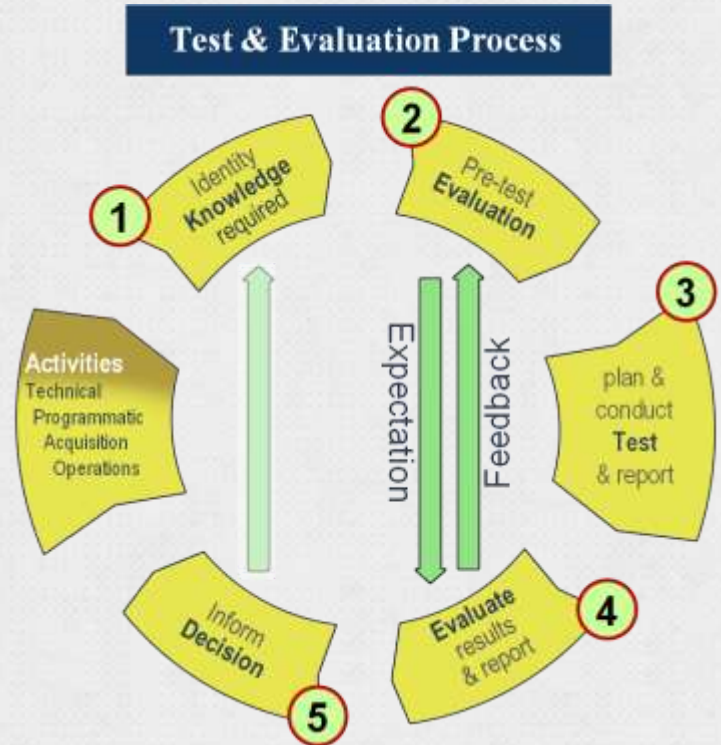
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MTSI
MODERN TECHNOLOGY SOLUTIONS, INC. ®

Connecting People to Solve Problems of Global Importance

Purpose: Reduce uncertainty
in decisions

Product: Information /
Knowledge

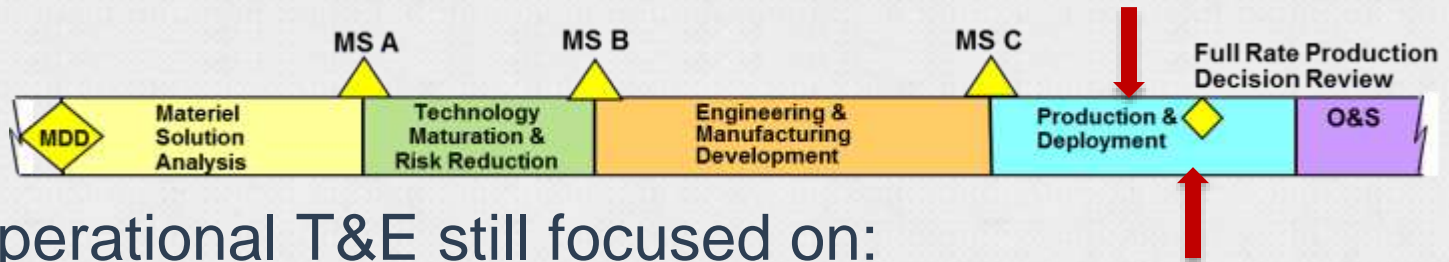


Test what? How much?

So what information will reduce risk & for what decisions?

CURRENT FOCUS

- Developmental T&E
 - Verify – system requirements
 - Identify deficiencies
 - Decisions: OTRR, FCA/PCA
 - Problem: Limited utility – data rich, information poor



- Operational T&E still focused on:
 - Operational Effectiveness, Suitability, & Survivability
 - Decisions: Production, Deployment

- Goal – Learn as much as possible
 ... As fast as possible
 Decision support



- Value metric
 - # questions answered / decisions supported

WHAT have we got?

- Capabilities
- Limitations
- Why?

so WHAT?

- Mission context
- System context

now WHAT?

- Accept
- Change – How?
- Mitigate – How?

BENEFITS

- Increased value of information – Information “rich”
 - More knowledge gained for test effort
 - Increases number of decisions addressed
- Scalable to system level or complexity
 - Component – Subsystem – System – S-o-S
 - Simple – Complicated – Complex

CHALLENGES

- Control of scope – What to test?
- Control of quantity – How much testing?

HOW TO ACHIEVE?

- Start with Decisions – How the information will be used
Technical – Programmatic – Acquisition – Operations
- Ask better questions to set evaluation objectives
✓ Open questions about capabilities & limits
- Use Developmental Evaluation Framework (DEF) to set strategy and boundaries
 - Ties knowledge from DT&E to key decision points
- Start early – requirement definition & before RFPs



SUMMARY

- Requirements verification focus limits value from DT&E
 - Data rich but Information poor

WHAT have we got?	so WHAT?
<ul style="list-style-type: none"> • Capabilities • Limitations • Why? 	<ul style="list-style-type: none"> • Mission context • System context

- Capabilities focus increases DT&E value
 - Information rich – more answers for better decisions
 - Scalable for system complexity
 - Flexible for rapid or routine acquisition

WHAT have we got?	so WHAT?	now WHAT?
<ul style="list-style-type: none"> • Capabilities • Limitations • Why? 	<ul style="list-style-type: none"> • Mission context • System context 	<ul style="list-style-type: none"> • Accept • Change – How? • Mitigate – How?