

# ITEA Test Instrumentation Workshop (TIW)

## *Closing Keynote*

**George Rumford**

Acting Director

Test Resource Management Center

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# TRMC Mission



## TRMC Mission: Readiness of the DoD T&E Infrastructure

### TRMC Mission Areas

#### – Test Resource – Governance

- Sustain current DoD test capability & capacity
- Certify Service T&E budgets
- Approve changes to the Major Range and Test Facility Base (MRTFB)

#### – Test Resource – Modernization

- Forecast future test needs
- Develop strategic plan (30-year outlook, updated annually)
- Deconflict DoD modernization efforts with common test resource needs

#### – Test Resource – Investments

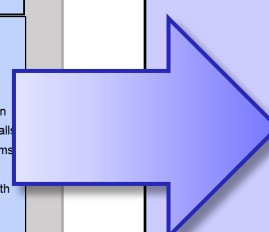
- Develop new test technologies (T&E/S&T)
- Improve T&E capabilities (CTEIP)
- Support Joint mission interoperability & cyber testing (JMETC)



# TRMC Investment Portfolios

## Legacy Investment Structure

Long-Term multi-Service Investments			Near-Term Investments	
Joint Improvement & Modernization (JIM)			Resource Enhancement Project (REP)	Threat Systems Project (TSP)
JIM-Core	JIM-EW	JIM-Hypersonics		
<ul style="list-style-type: none"> <li>3-5 year requirement horizon</li> <li>EMD of major multi-Service test capabilities</li> <li>Development, not procurement</li> <li>Services &amp; Agencies budget for O&amp;M</li> <li>\$110-140M/year, \$600-\$700M over 5 years</li> </ul>	<ul style="list-style-type: none"> <li>Special DoD area of emphasis</li> <li>EMD of electronic warfare (EW) test capabilities</li> <li>Assess aircraft performance against complex new threats.</li> <li>Service budget for O&amp;M</li> <li>Total cost ~\$465 over ~7 years</li> </ul>	<ul style="list-style-type: none"> <li>Special DoD area of emphasis</li> <li>EMD of hypersonic ground test capabilities</li> <li>Focus on hypersonic cruise &amp; boost glide missiles</li> <li>Service budget for O&amp;M</li> <li>Total cost ~\$350 over ~5 years</li> </ul>	<ul style="list-style-type: none"> <li>1-2 year horizon</li> <li>EMD of instrumentation to address near term OT shortfalls</li> <li>Coordinated with DOT&amp;E</li> <li>\$18-20M/year</li> </ul>	<ul style="list-style-type: none"> <li>1-2 year horizon</li> <li>Address shortfalls in threat systems representation</li> <li>Coordinated with DOT&amp;E</li> <li>\$3-5M/year</li> </ul>



## Portfolio Investment Structure

### • Strategic Portfolios

- Hypersonics
- Directed Energy
- Cyber
- Nuclear
- Electronic Warfare
- Space
- Autonomous Systems (and Artificial Intelligence)
- Multi-Domain Integration

### • Foundational Portfolios

- Common Range Instrumentation
- Target/Threat Systems
- Knowledge Management (and Big Data Analytics)

### • Major Projects

- Joint Improvement Modernization
- Quick Reaction Test Capability

**Strategic Portfolios cover both Offensive & Defensive**

**Portfolios support testing across all paths of the acquisition framework (Major Capability, MTA, Software, etc.)**

**Portfolios support all types of testing (Demos, Experiments, DT, OT, etc.)**

**Portfolios consist of investments across all test resource categories (M&S, Test Facilities, HWILs, SILs, Test Ranges, STBs, Workforce, etc.)**



# Discussion Points (Keep // Stop // Start)



- **Sprint vs. Marathon**
- **Near-term // Mid-term // Far-term**
- **Most Critical // High Priority // Important**
- **Unfunded Requirement // Out-Year Initiative**
- **Constructive Competition**
- **Software Factories of the Future**
- **Spectrum Usage of the Future**
- **Charge Policies of the Future**
- **Scheduling Policies of the Future**
- **Data // Security Policies of the Future**