



# 23<sup>rd</sup> Annual NDIA T&E Conference

“Test and Evaluation in Support of Operational Suitability, Effectiveness and Sustainment of Deployed Systems”

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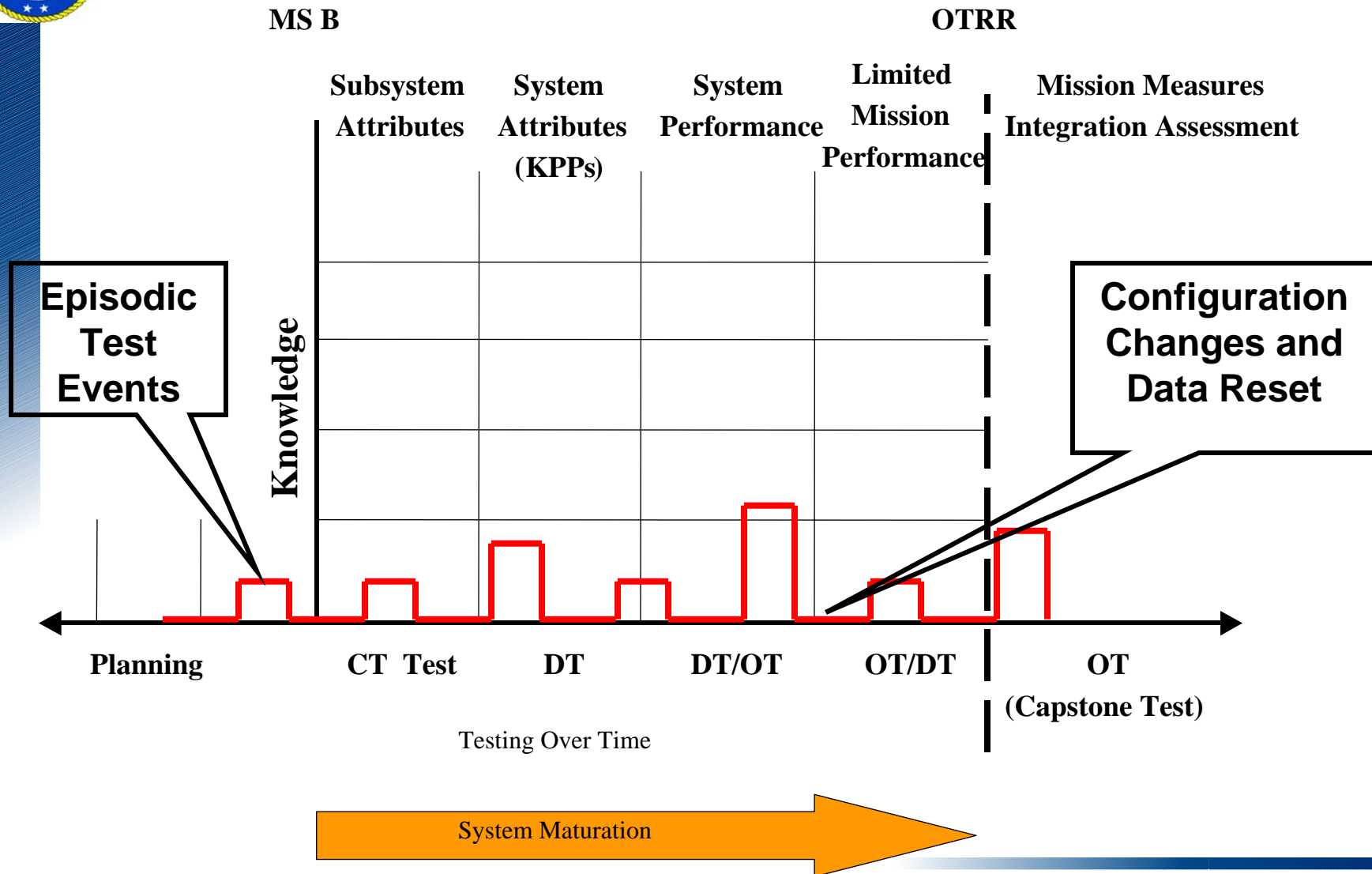
Navy Operational Test and Evaluation Force  
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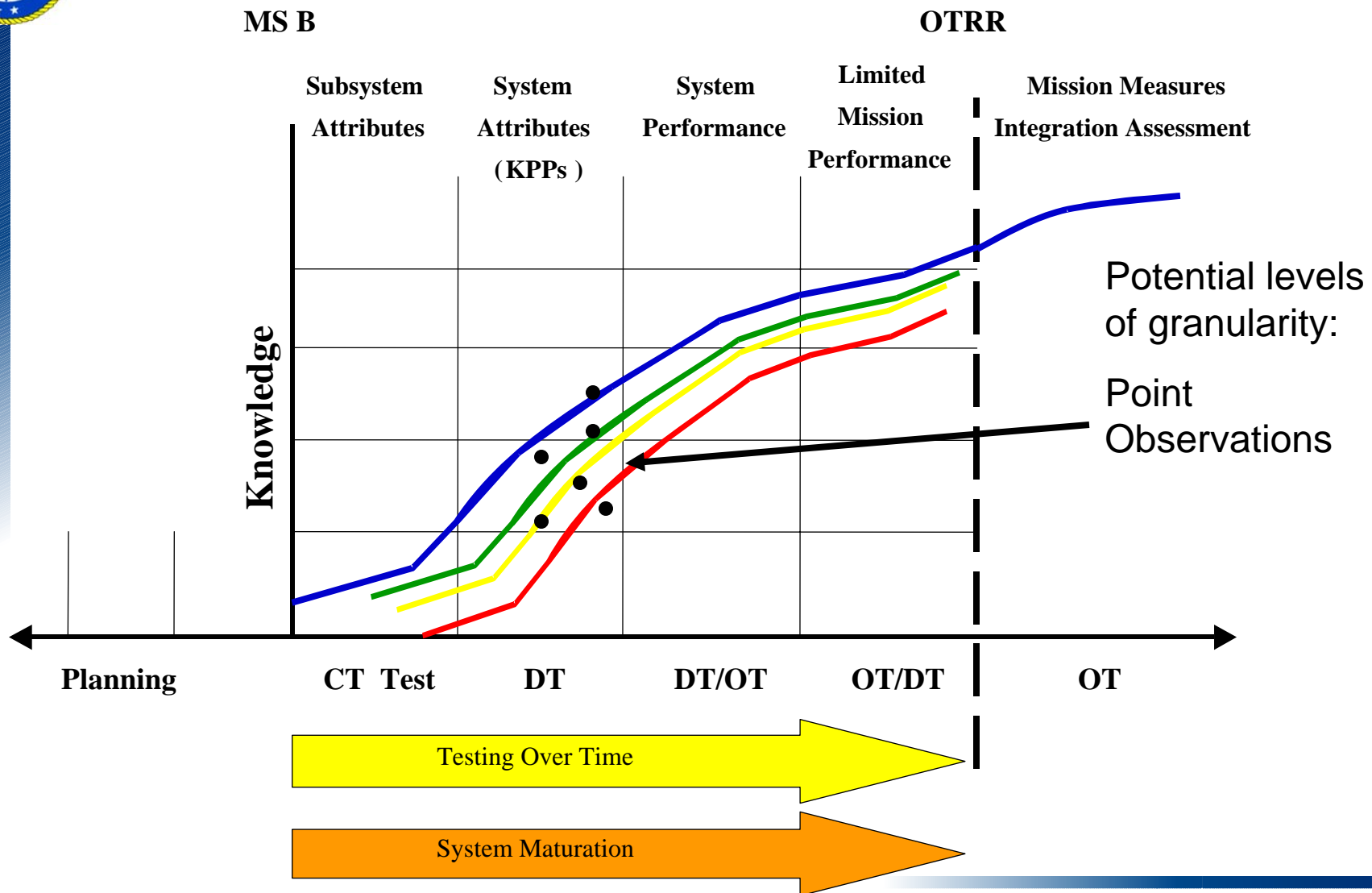
## T&E Rapid Response to the Warfighter

- How does the T&E community, as part of the systems engineering process:
  - Obtain, maintain, and increase its body of knowledge, to assess and project with greater confidence, a product's potential capability and suitability ( $A_o$ , Reliability, Deployability, Sustainability) during product development as the product and requirements change?
- Knowledge not limited to quantitative data

# “Traditional” T&E Process



# Integrated Test Knowledge Over Time





## Several Benefits to Dynamic System T&E

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- Greater depth and breadth of knowledge
  - Greater understanding of impact to changes
  - Greater understanding of test cost
  - Greater ability to assess product capability at points in time.
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## Several Challenges to Dynamic System T&E

- Transparency – ability to see across boundaries
- Permeable boundaries – ability to pass information and data (transportability) across boundaries
- Product configuration management
- Graduated Reliability during development
  - Thresholds (maturity measures)