Fielding effective, secure systems to warfighters at the speed of need is essential, but this goal is difficult to achieve given that industrial-age acquisition and systems engineering processes, including Test and Evaluation (T&E), do not mesh well with development and use of modern software-intensive systems. Agile software processes that combine acquisition events with developmental and operational testing show promise in decreasing historic timelines. Combining software development (Dev) with built-in information technology security and assured hardware platforms (Sec) with information technology operations (Ops) throughout the DevSecOps software build is also streamlining the delivery of secure software-intensive systems. Finally, increasing the focus on what the warfighter needs now and what is necessary for potential conflicts will provide more usable and effective systems. Other key ideas for improving effectiveness and accelerating this process include early prototyping via modeling, simulation, and gaming; evaluating hardware prototypes; combining test events; the use of Artificial Intelligence to improve data gathering and reporting; and evolutionary program development. Simulation and gaming environments can be used to allow warfighters and testers to evaluate the advantages of system variants and alternative tactics before the hardware and software are finalized.

For information on exhibiting or sponsorships, contact James Gaidry, 703-631-6220 or jgaidry@itea.org

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### Planned Topics:

- **Accelerating Availability** – Delivering fully-capable systems to warfighters sooner
- **Accelerating T&E** – Feedback on the success of methods to accelerate T&E
- **Agile Software Processes** – Agile software processes across acquisition and T&E
- **Artificial Intelligence (AI)** – Use of AI technologies to improve test events and reporting
- **Combining Operational and Developmental Testing** – Sharing developmental and operational test events to reduce redundancy and accelerate test completion time
- **Cyber Breakthroughs** – Innovations in Cyber for accelerating delivery of systems
- **Data Management and Analytics** – Automatically producing analyses and portions of required test reports
- **Evolutionary Delivery** – Delivery of hardware, software, and the systems for evaluation by testers and warfighters
- **LVC and Gaming Environments** – Use of distributed LVC and gaming environments to support virtual prototyping by warfighters and testing of critical, sensitive system attributes
- **Methods for Improving T&E of Cyber Functionality** – Examples of methods to improve and accelerate cyber security of systems
- **Mixing Live and LVC** – Mixing live tests with virtual-constructive elements to achieve validated results
- **Model-Based T&E** – Model-based T&E and modeling to manage complexity
- **Model-Based vs Model-Driven Engineering** – For networks, sensors, weapon systems, and architectures
- **T&E Partnerships** – Government, industry, and academia collaboration to improve T&E
- **Testing Autonomous Systems** – Role of LVC and Agile in testing autonomous systems
- **Testing/Training as a Service** – For collaborative improvement in both areas
- **Threat Representations** – Roles of accurate threat representations for LVC testing
- **DevSecOps** – combining software development (Dev) with built-in information technology security and assured hardware platforms (Sec) and information technology operations (Ops) to produce multiple, capable software releases that build-in cybersecurity quickly
- **Tools** – To support testing of complex systems