



Naval Aviation Integrated T&E

13 September 2011

Presented to:

ITEA Annual Symposium

Plenary Panel 2

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NAVAIR's Role in Naval Aviation is....

- ... TO DEVELOP, ACQUIRE, AND SUPPORT AIRCRAFT, WEAPONS AND RELATED SYSTEMS WHICH CAN BE OPERATED AND SUSTAINED AT SEA
- ... TO PROVIDE ANALYSIS AND DECISION SUPPORT FOR COST / SCHEDULE / PERFORMANCE TRADES AND INVESTMENT DECISIONS
- ... TO MAKE THE NAVY AND MARINE CORPS MORE CAPABLE, READY, AND AFFORDABLE IN A JOINT / COALITION ENVIRONMENT

COMPARATIVE SCALING

USS GEORGE WASHINGTON (CVN-73)
OVERLAID ON TYPICAL AIRFIELD RUNWAY
(12,000 FT.X150 FT)

OUR CAPABILITIES SUPPORT THE UNIQUE MISSION OF NAVAL AVIATION



History of IT in Naval Aviation

- **Circa 1980's**
 - DT Assists: Limited Participation by OT during Dedicated DT events
 - No Contractor Participation
- **Circa 1990 - Early 2000's**
 - Combined DT, OT and Contractor Test Teams.
 - Independent Test Plans & Data Requirements
 - IT defined
- **Present - Future**
 - Fully Integrated, Co-Located Test Teams
 - Integrated Test Plans & Data Requirements
 - Single databases for Data & Deficiency Tracking
 - Leveraging experimentation, fleet operations



Integrated T&E “Growing Pains”

- **Very large test teams**
 - Each organization brought their entire team
- **Collaborative, but parallel, environments**
 - Test planning requirements
 - Test operating procedures
 - Data
- **Early exposure to developing systems**
 - Overreactions during initial testing
 - Acceptance of potential deficiencies over time
- **Operational testers present in the DT environment**
 - Integrated on the team, not integrated in IT CONOPS



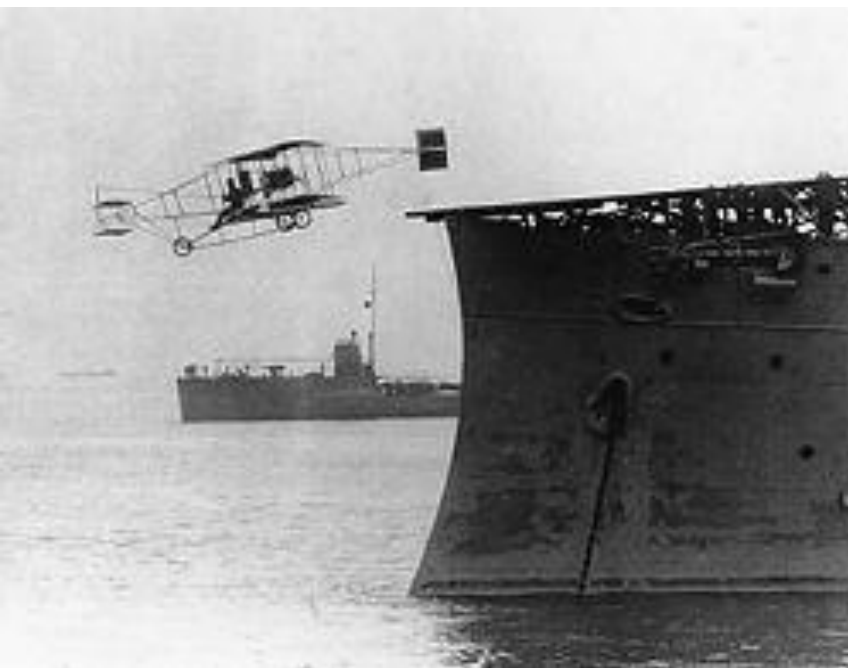
Integrated T&E Growth Potential

- Fully integrated IT resourcing and ITT CONOPS
 - Eliminate organizational duplication
 - Integrate maintenance for early suitability assessments
- Capabilities-based T&E
 - Shifts focus from testing for functional effectiveness to mission effectiveness
 - Identifies needed relationships among what were previously considered independent systems
 - Verifies that the right Integrated Warfighting Capabilities are being delivered to the fleet
 - Aligns directly with OT Mission-Based Test Design
 - Integrates OT even earlier in the Acquisition Process through Operational Test and Evaluation Framework
- Fully leverage fleet opportunities
 - Experimentation
 - Early operational capability



Centennial of Naval Aviation

100 Years of Achievement 1911-2011 100 Years of Progress



Eugene Ely takes off from the USS Birmingham on 14 November 1910. It was the first successful flight from a ship, marking the birth of naval aviation



Eugene Ely lands his Curtiss pusher biplane on USS Pennsylvania anchored in San Francisco Bay, 18 January 1911