ADUSD (Innovation & Technology Integration)

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ADUSD (Innovation & Technology Integration)
Advanced Concept Technology Demonstrations (ACTD's)

• ACTD’s provide rapid military utility assessment for emerging, mature technologies

• ACTD’s target needs of Combatant Commanders

• ACTD’s facilitate technology transition from all sources
Anatomy of an ACTD

Selection → ACTD DEMO → Terminate or Rtn to Tech Base → Residuals & Enter Acquisition

ACTD

<table>
<thead>
<tr>
<th>Dev/Integration</th>
<th>Tech Testing</th>
<th>Op Eval</th>
<th>Operational Use</th>
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<tbody>
<tr>
<td></td>
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<td>2 Years</td>
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1 – 3 Years
Some pivotal joint capabilities lack “Critical Mass” within any one Service mission area.

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<tr>
<th>Mission Managers</th>
<th>ATO Visualization</th>
<th>Time Sensitive Targeting</th>
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<tr>
<td>Joint Fires and Engagement</td>
<td>Kill Box Management</td>
<td>Predictive BDA</td>
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<tr>
<td>Airspace Command and Control</td>
<td>Battlespace Fires and Airspace Planning</td>
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<tr>
<td>3D Visualization</td>
<td>Air/Ground Deconfliction</td>
<td>ATO Planning and Execution</td>
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Joint Capabilities

Core Military Capabilities

ARMY  NAVY  USMC  USAF
Technology Transition Role of ACTDs

- Get new, relevant technology to joint warfighters quickly
- Assist integration of technology and joint doctrine
- Enhance combatant commander options for integrated employment of core Military Service capabilities

Customers: Joint Combatant Commanders
Technology transition programs can work in harmony or independently but they all share a common goal - to accelerate the best technologies available to the warfighter into residual capabilities, acquisition programs and ongoing sustainment.
OSD (AS&C) investment approximates a 1:4 ratio of AS&C investment to overall DoD support (including leveraged resources)

Other DoD funding includes Direct Cash and Dedicated “in-kind” support from all sources
ACTD Program Success

- Total ACTDs FY95-03 = 118
- Total ACTDs Completed = 45
- Total ACTD Products = 108

**ACTD Product Results**

- 38 EMD/LRIP
- 6 Software Sustainment
- 4 Return to Techbase
- 66 Terminate
- 31 Operational Employment

More than Thirty ACTDs Employed in Operations Enduring Freedom and Noble Eagle
ACTD’s and the War on Terrorism

ACTDs in Enduring Freedom/Noble Eagle
- ACTDs in Use in EF/NE = 30
- ACTDs in Preparation for EF/NE = 2
- ACTD Plans accelerated for EF/NE = 8