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NPS-SOCOM Field Experimentation Program (TNT) 12-1 Event Robotics and Unmanned Systems Overview

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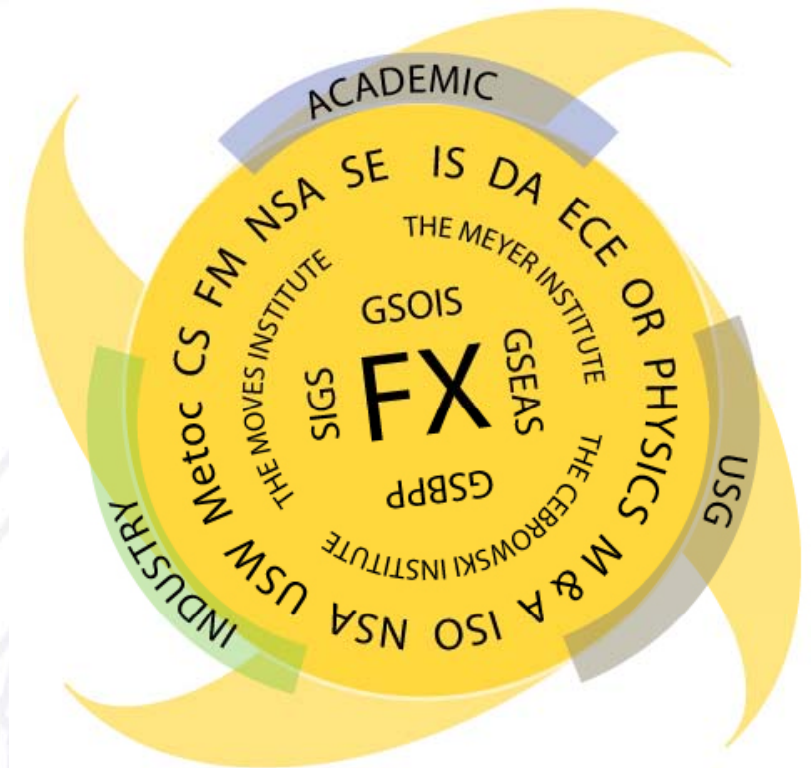




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SOCOM - NPS Field Experimentation Program

- **Informing System**
- **Attributes**
 - **Multi-Institutional**
 - **Semi-Structured**
 - **Learning Environment**
- **Addresses**
 - **Problem Domains**
 - **Time to Battlefield**
 - **System of Systems Challenges**
 - Agile Response
 - Test and Evaluation Design
 - Concurrent systems evolution





- **By the numbers**
 - 714 participants
 - 80 government agencies
 - 90 industry organizations
 - 12 universities
 - 65 planned experiments
 - 28 ad hoc experiments
- **Attributes**
 - Individual focus
 - Domain relevance
 - Capability based
- **Process**
 - Nomination
 - Selection
 - Coordination



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TNT @ Camp Roberts





Tactical Network Testbed

Technical Operations Center (TOC): Both runs experiments and is the venue for SA and COP experiments.





Specialized Support Systems

Light Reconnaissance
Vehicle (LRC)



Developed under an
SBIR/CA

All Terrain Vehicles (ATV)



Maintained by NPS, along with
other vehicles, to support
participants.



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TNT is a Happy Place!





Bring on the bots

- 90+ sorties
- SOF Challenges for UAS
- SOF Challenges for UGS
- SOF Challenges for USV/UUVs
- Challenges for All
 - Cyber space
 - Early lock-in
- FY – 11 Numbers
 - 58 different unmanned systems at TNT
 - 7 unmanned ground systems
 - 51 unmanned aerial systems



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Long Distance Control





Recon Scout





Big Birds





Systems Approach





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Now you see it





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Continuing Student Work





- Swarm Robots
- Skate
- Pointer Counter Sniper
- Quadrotor



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