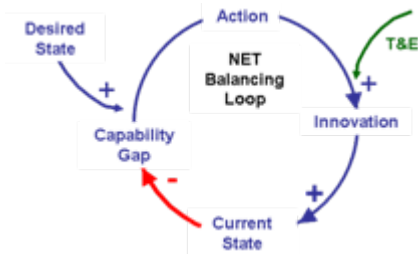


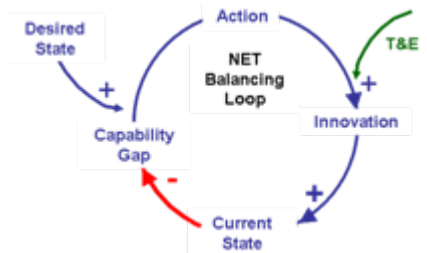


How Test and Evaluation is Supporting U.S. Customs & Border Protection's New & Emerging Technology Program

Closing the Capability Gap with Innovation Technology and Test and Evaluation



Stephen M. DeFrank Jr.
Contractor, ManTech Team
U.S. Customs and Border Protection



Office of Technology Innovation & Acquisition



Agenda Topics

- **Who is the CBP?**
- **What is NET?**
- **How is T&E Closing the Gap**
- **Current T&E Success Stories**
- **Lessons Learned**



Who is CBP?



OFO

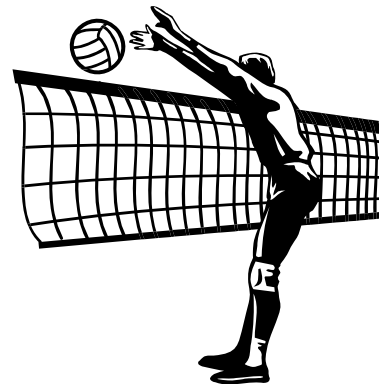
CBP

OAM



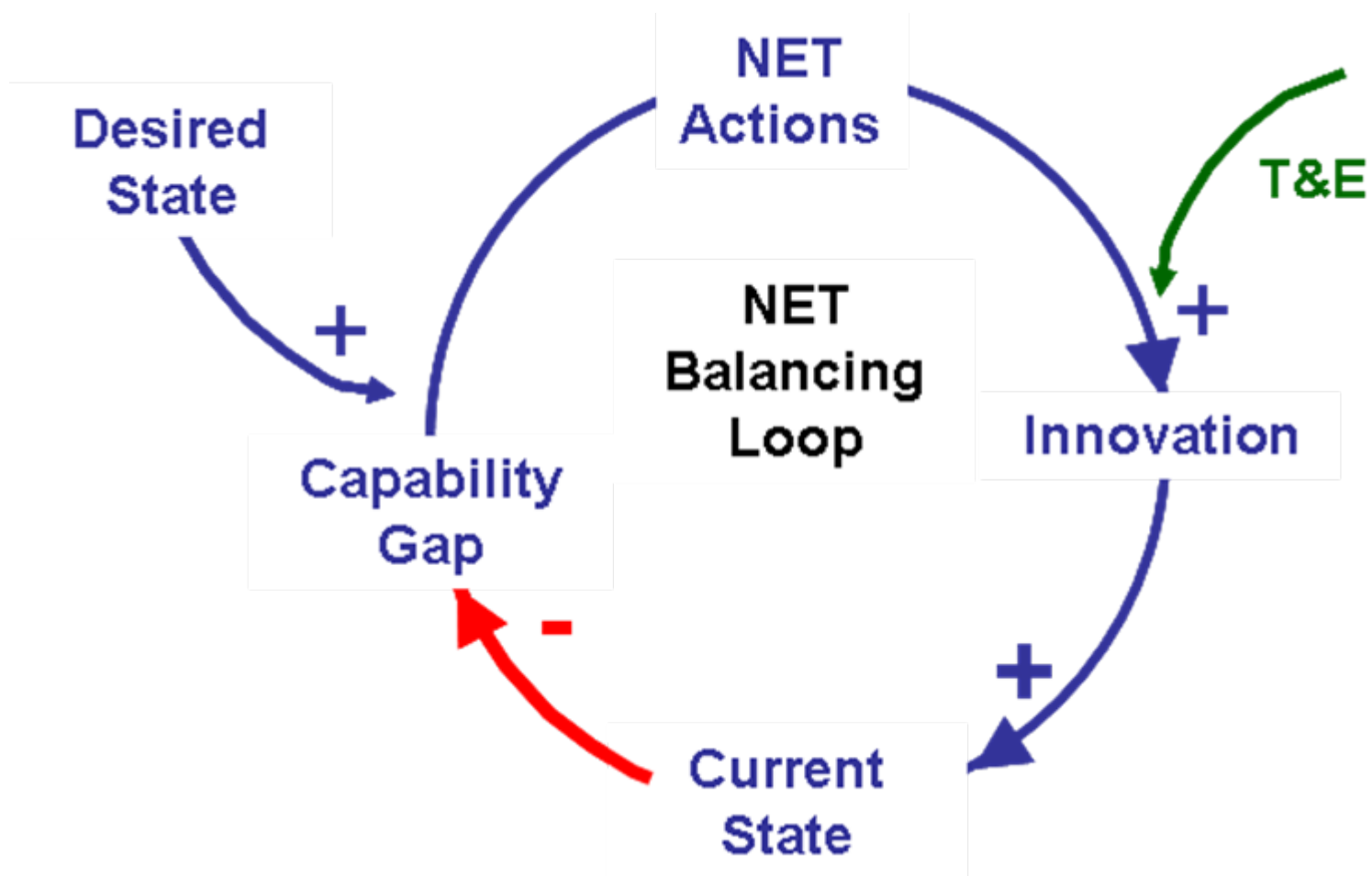
What is NET?

The New and Emerging Technology (NET) Project is an initiative within the Office of Innovation & Technology (OTIA) to evaluate potential solutions to CBP needs using a simplified Operational Utility Evaluation (OUE) process that provides senior leadership with information upon which to make decisions



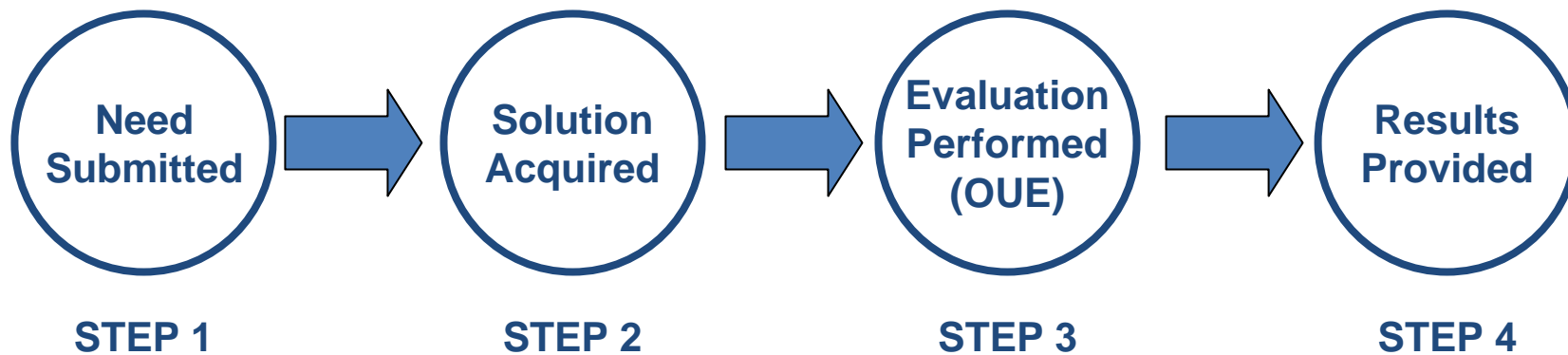


How is T&E Closing the Gap?





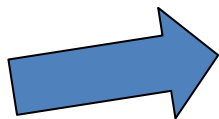
Simplified NET Process



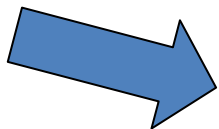


Step #1 – Need Submitted

**Need
Statement**



May be submitted anytime

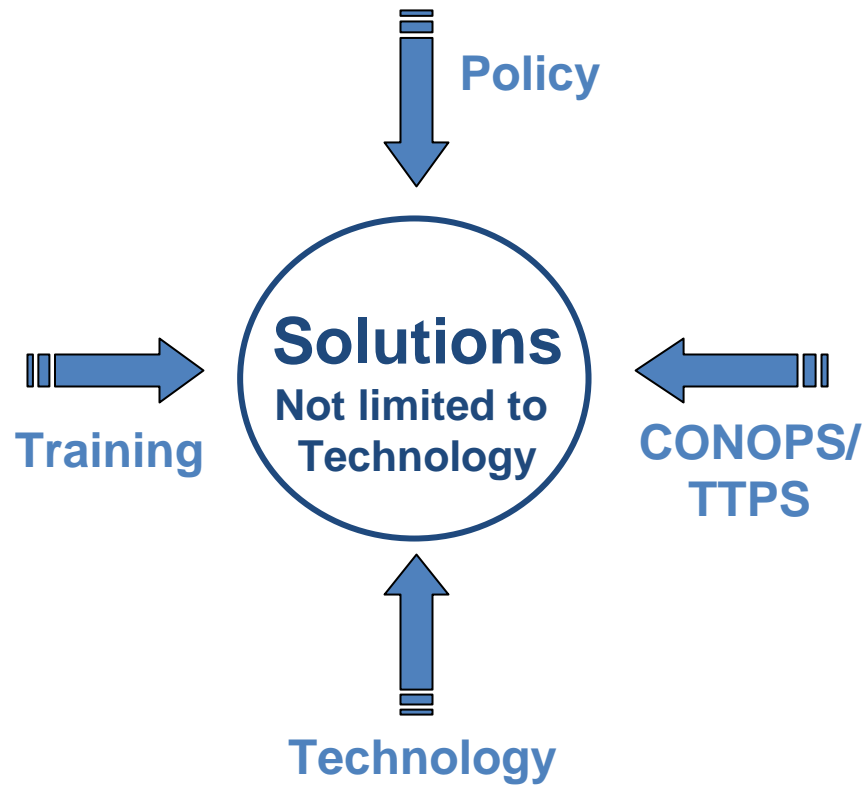


Submitted at quarterly Working Group Meetings



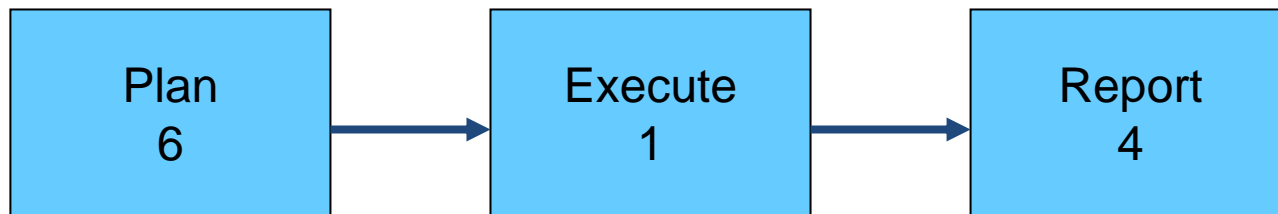


Step #2 Solutions Acquired



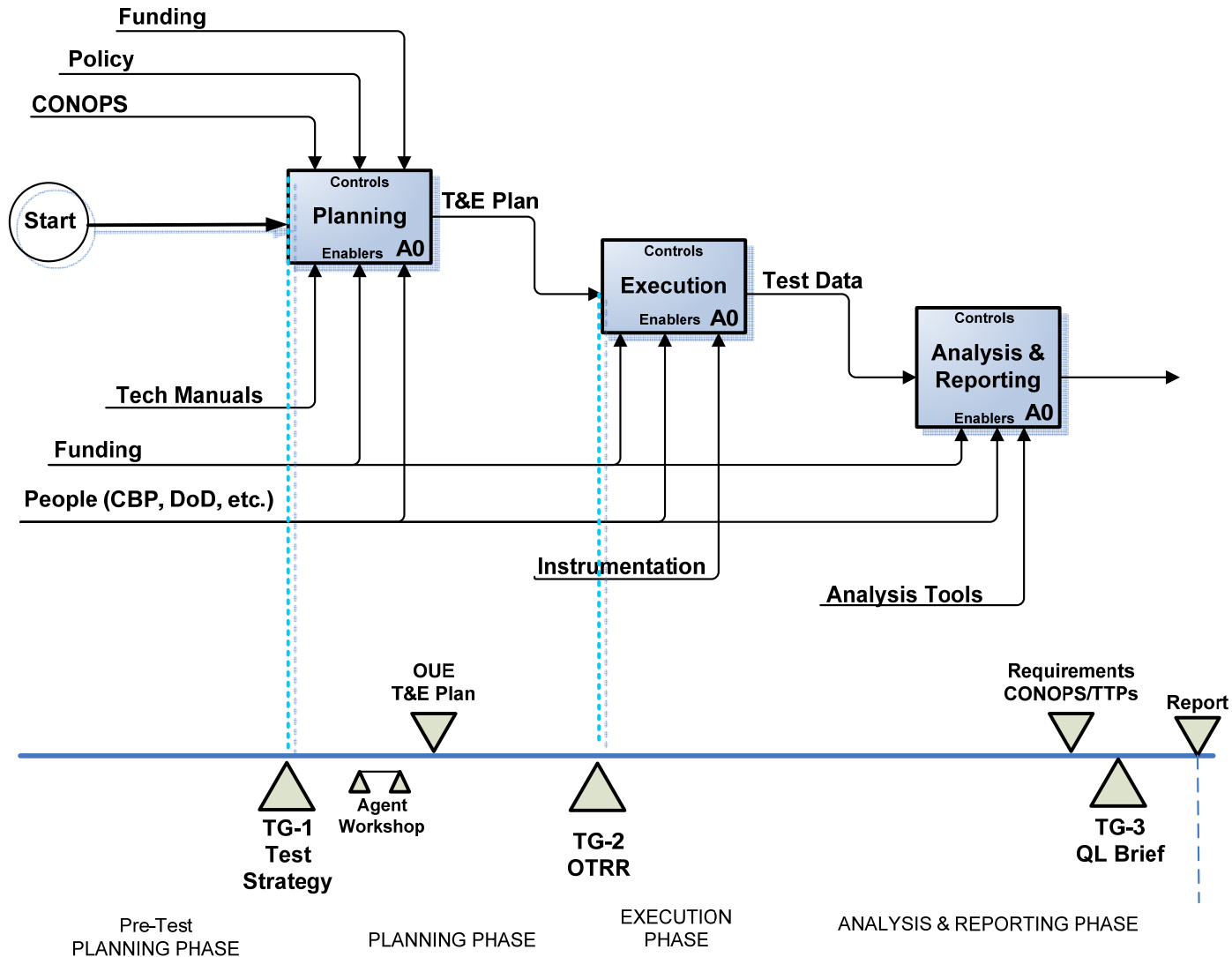


Step #3 – OUE Performed



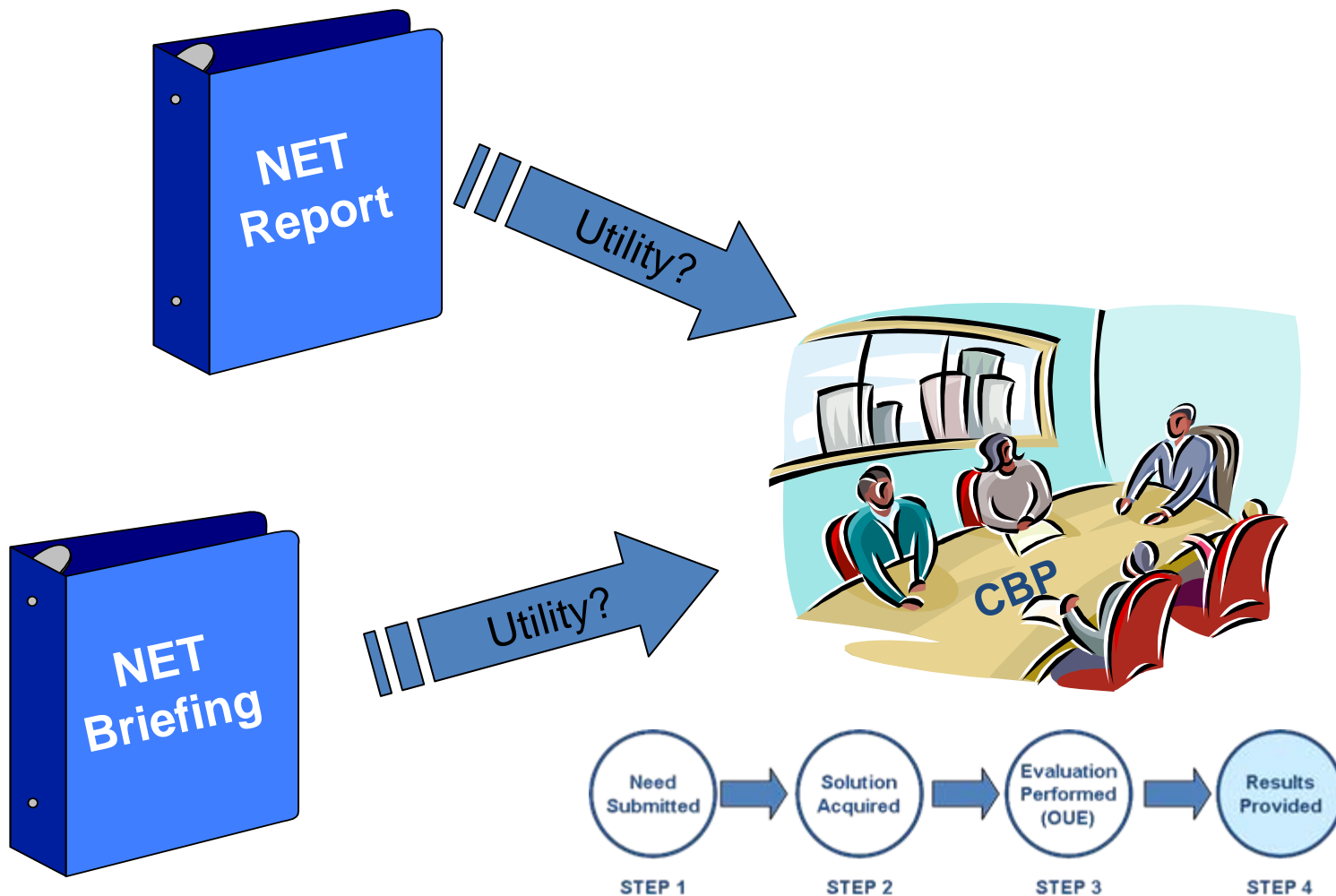


6-1-4 (Plan-Execute-Report)



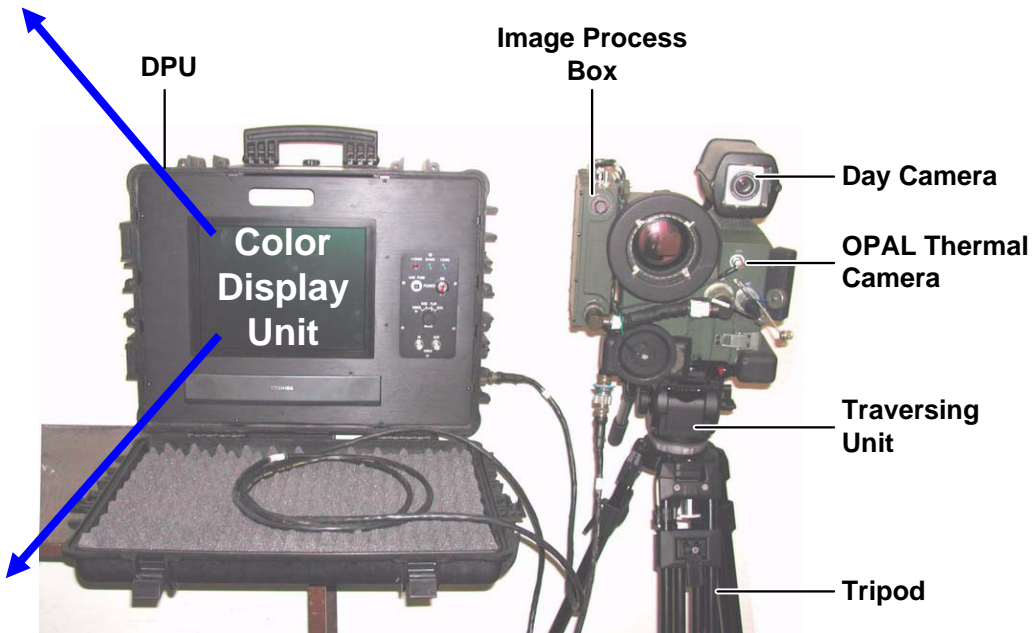
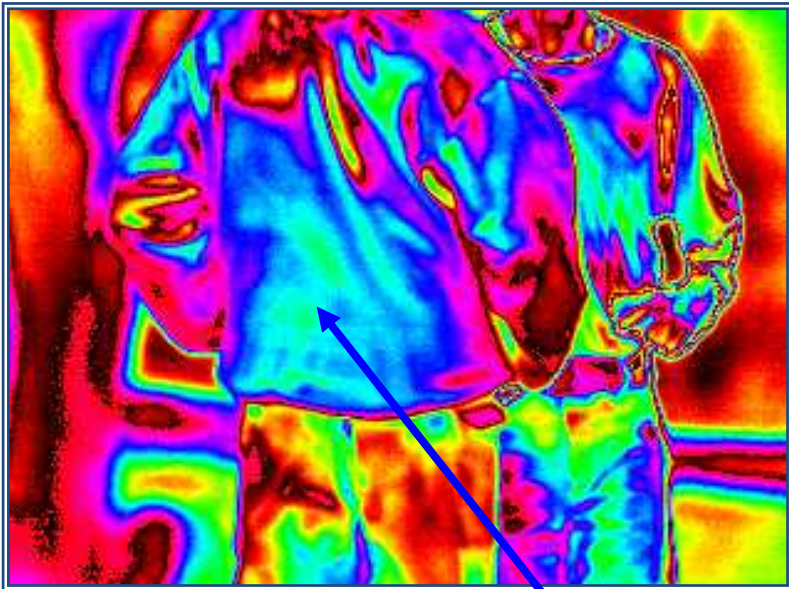


Step #4 – Results Provided





OPAL Color Thermal Camera System



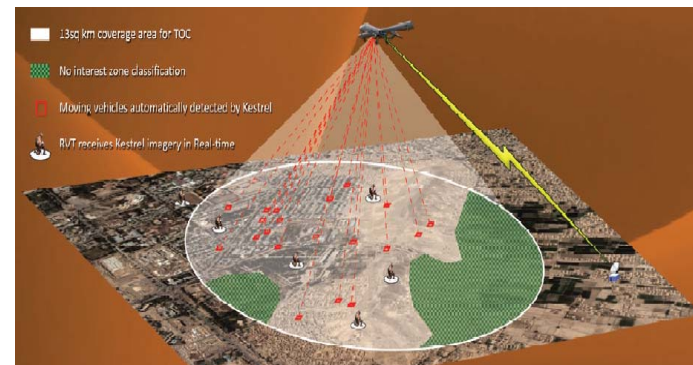
Concealed Item



Kestrel Moving Target Indicator

- A SW program that provides analysis of EO/IR imagery either real time or recorded
- Automatically detects & tracks moving objects from the video imagery
- Puts a Red Box around detected objects
- Kestrel Land MTI by Sentient Inc.
 - TRL 9 used by Australian DoD in Middle East
 - 2 x 2 pixel resolution for motion detection
 - Ground speeds as low as 2 km/hr
 - Fast ground target detection up to 100 km/hr
 - Land and Maritime Versions

Insert Video Here





Other NET Projects

1. **Moving Target Indicator**
2. **Encrypted Wireless Mesh Network**
3. **GPS Tracker**
4. **Advance Signal Exploitation**
5. **IP Addressable Communications Receivers**
6. **Mobile Direction Finding Equipment**
7. **Hand Held 2 Fingerprint Device**
8. **Under Vehicle Surveillance System (UVSS)**
12. **VIN Bar Code Scanner**
13. **Game Cameras**
14. **OPAL**
19. **SPIDER**
20. **Thermal Imager**



Summary

- **NET is a simplified process to evaluate potential solutions to CBP needs**
- **Solutions may be material or non-material**
- **Operational Utility Evaluations (OUEs) or NET Technology Demonstrations are conducted to determine utility of the proposed solution**
- **Results of testing are provided to leadership to make informed decisions on acquisition of technologies**

Closing the Capability Gap with Innovation, Technology, and T&E