



RDECOM



*Cerberus
Partnership with
Industry*

Night Vision

Night Vision & Electronic Sensors Directorate



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

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Cerberus History



- In response to an AMC FY03 request (Operation Noble Eagle) to provide a perimeter security system to account for the manpower shortage at strategic CONUS locations, Cerberus was developed and fabricated by the Special Products and Prototyping Division of NVESD.
- NVESD worked with an industry partner (using an in-house IDIQ contract), who developed the command and control architecture, leveraged from a Chem/Bio Defense program.



Initial Cerberus Unit



Cerberus C2 – Industry
Developed, Gov't
Designed

- FY04, Congressional funding was used to partner with an industry platform integrator to develop more tactically relevant platforms.
- Working with Department of Homeland Security we validated the dual use application of Military technology for the Border surveillance mission.
- Positive interaction with the Field Agents and Soldiers along w/ real time fixes resulted in an operationally significant capability and field user “buy in”.
- NVESD continued to work the design and architectural issues. Once perfected, we worked with several industry partners to transfer the design and integration.
- FY08-09 USMC involvement led to additional variants and additional industry partners.



DHS Operator
Compartment



Cerberus – C2



Cerberus – Tactical Trailer



Military
Variants



DHS – Mobile Surveillance System

Cerberus Family of Sensor Systems



Cerberus HMMWV System



Cerberus Standard Range Trailer



Cerberus Long Range Trailer



Cerberus G-BOSS LITE



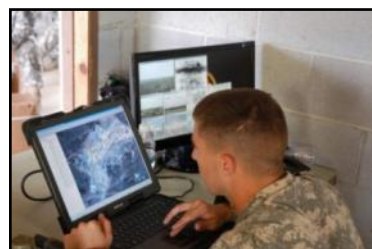
Cerberus Scout System
RSTA



Cerberus Hydra



Cerberus Scout System
Multi-Mission



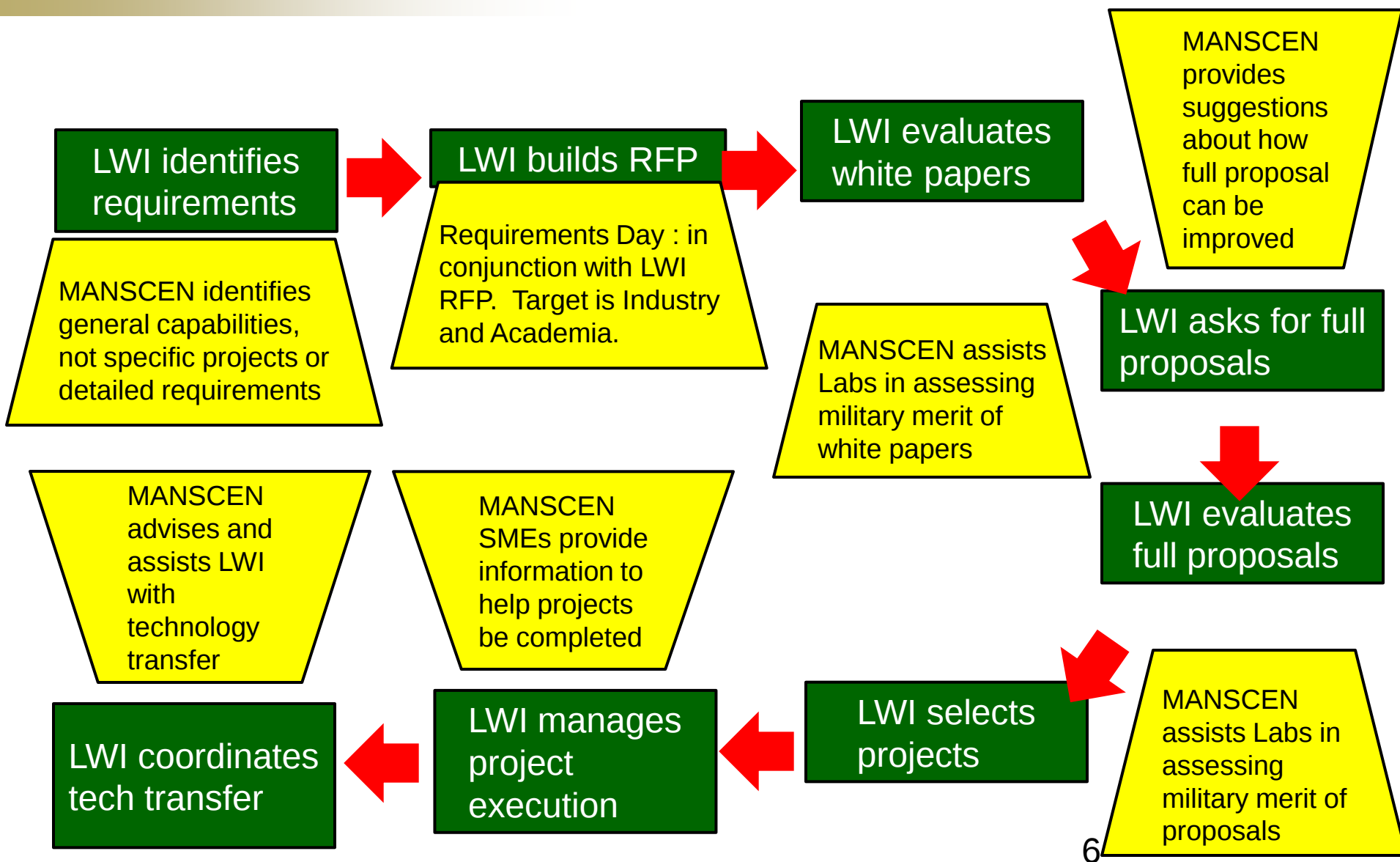
Common Operating Picture
for all Systems

435 Variants developed with Industry Partnership

Conclusion



- Rapidly deployable Cerberus-like systems have proven themselves. Additional variants capture Lessons Learned.
- No multiyear S&T funding had been available for the R&D.
- Initial Industry involvement in the integration of Cerberus through Congressional funding.
- NVESD worked with the users (DoD/DHS), industry, and the PM community to design, develop, and field this capability to the DHS Agents along the SW Border and for the warfighters.
- Future industry involvement will be determined by user needs and requirements.



Questions

