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UNIVERSITY OF
Rhode Island
Raytheon
Integrated Defense Systems
IOS
INTELLIGENT OPTICAL SYSTEMS, INC.
Los Alamos
NATIONAL LABORATORY
EST. 1943
Raytheon
CIEDD Strategy & Efforts
Richard Moro
10 December 2008
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U. S. COAST GUARD
Raytheon Proprietary/Competition Sensitive
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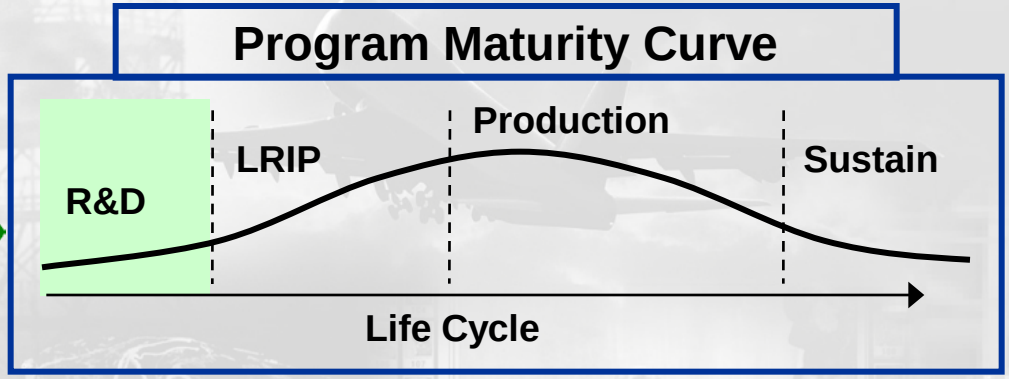
Advanced Technology Directorate

Raytheon
Integrated Defense Systems

Vision: To Lay the Technical Foundation for Future Growth

Proposals
Abstracts
Whitepapers
Conferences
Patents



- **Technology Program Capture and Execution (6.1, 6.2, 6.3)**
  - Basic research, applied research, and Advanced Technology Demonstrations to support new & existing IDS business thrusts
  - 40+ Active technology programs
  - Sizes range from <$10K to over $40M
- **Leading the IDS push into adjacent markets**
  - Nuclear Detection
  - Explosives Detection
  - Cargo Security
  - Software Tools

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Strategic Framework: Program Plan to Build an IED

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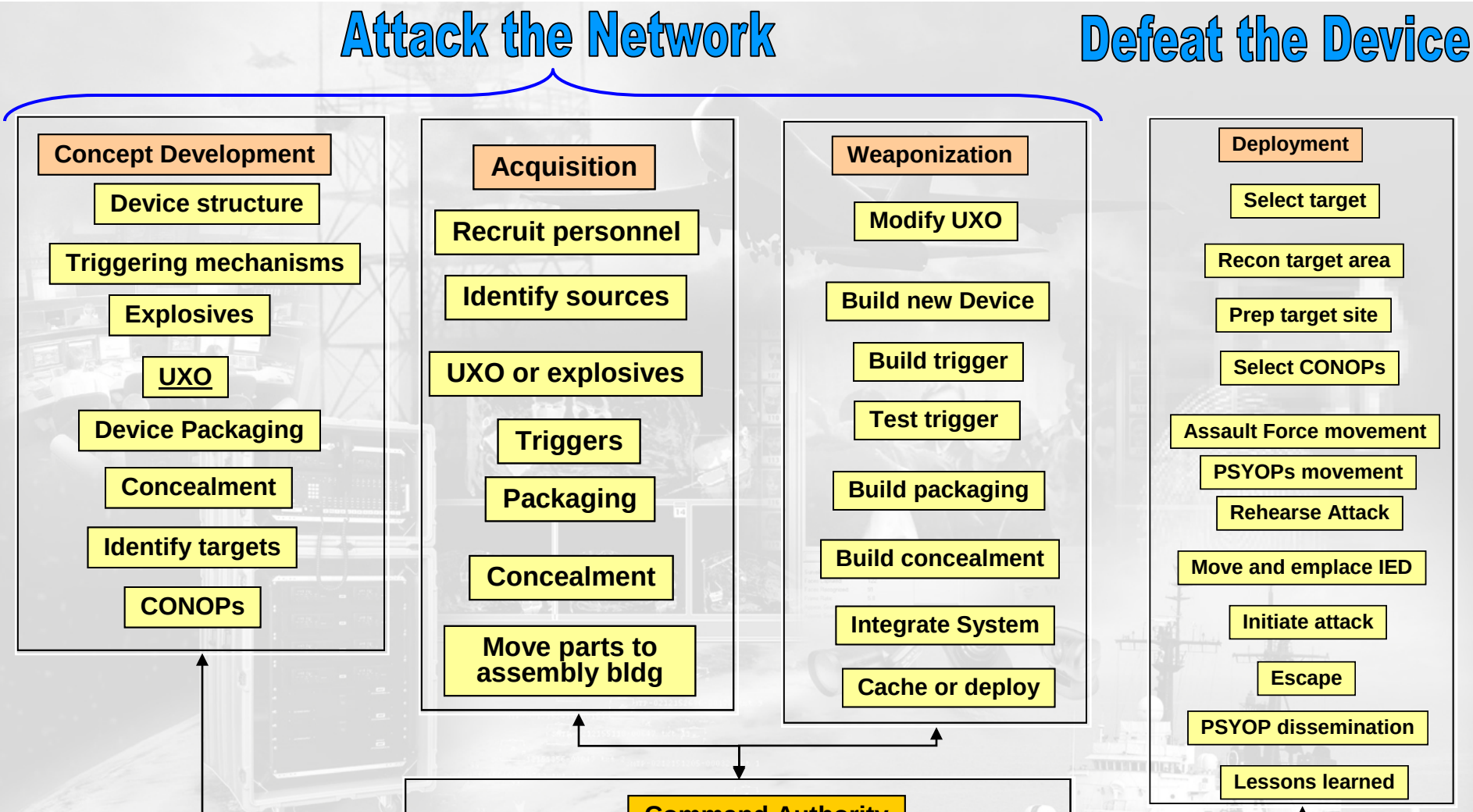

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IOS INTELLIGENT OPTICAL SYSTEMS, INC.
PSI PHYSICAL SCIENCES INC

Advanced Technology CIEDD Strategy and Efforts

Raytheon
Integrated Defense Systems

- Developing the enabling SME, Sensors and Algorithms
- Develop the winning teams to go from R&D to production
  - Universities + National Labs + Small Businesses +Raytheon
- Leverage the corporate CIEDD enterprise campaign

Subject Matter Expertise	Sensors & Systems	Collaborative Partners	Collaborative Vehicles
Residue Transfer Studies	AIRIS - SED	University of Rhode Island	CRADA (Cooperative Research and Development Agreement)
Test Sample Spray Depositions	HSM - SED	Los Alamos National Laboratory	Directed University Research
Baseline Residue Detection System Study	UV Raman - SED	Northeastern University	Centers of Excellence
IED Defeat Architecture & CONOPS	Camera Blinder	Penn State University	Joint White Papers and Proposals
HME Precursor Tracking	Noise Band Radar	Physical Sciences Inc.	
Explosives Chemistry	Cargo & Container Security Devices		
	Algorithms & Tools		Sub-Contracts and Teaming Agreements
Standoff Mine & Minefield Detection		Intelligent Optical Systems	
	THz Super Resolution Algorithm		
Detection in Clutter Environments		Charles River Analytics	
	Adversial Behavior Prediction		
EO/IR Sensors & Algorithms		QD Vision	
	Principal Component Analysis		
Fusion Evaluation Infrastructure		Performance Indicator	
	Mine & Minefield Detection Algorithms		
	Covert Taggant Materials		