



	Defense Sciences Office (DSO)	Information Processing Technology Office (IPTO)	Information Exploitation Office (IXO)	Microsystems Technology Office (MTO)	Strategic Technology Office (STO)	Tactical Technology Office (TTO)
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1.0 Robust, Secure Self-Forming Tactical Networks						
1.1 Creating Global Network Capability						
1.2 Linking Strategic & Tactical Networks						
1.3 Technology for Tactical (Wireless) NCW						
1.4 Enhancing NCW Network Capabilities						
2.0 Detection, Precision ID, Tracking, and Destruction of Elusive Targets						
2.1 Sensors to Find Targets						
2.2 Sensor Exploitation Tools						
2.3 Battle Management Systems						
3.0 Urban Area Operations						
3.1 Improved Urban ISR						
3.1.1 Sensors Tailored for the Urban Environment						
3.1.2 Transforming the Local Environment into Familiar Territory						
3.2 Tagging, Tacking and Locating Capabilities						
3.3 Weapons for Urban Operations						
3.4 Asymmetric Warfare Countermeasures						
3.5 Pre- and Post-Conflict Capabilities						
3.6 Command, Control, Communications and Intelligence (C2) for Urban Warfighting						
3.6.1 Command, Control, and Intelligence (C2)						
3.6.2 Urban Communications						
4.0 Advanced Manned and Unmanned Systems						
4.1 Aeronautical Systems						
4.1.1 Rotary-Wing						
4.1.2 Fixed-Wing						
4.1.3 Aeronautical Technologies						
4.2 Land Systems and Future Combat Systems						
4.2.2 Robotic Vehicles/Ground UAV's						
4.2.3 Vehicle Technologies						
4.3 Maritime Systems						
4.3.1 Vessels						
4.3.2 Maritime Technologies						
4.4 Vehicle System Technologies						
4.4.1 Navigation						
4.4.2 Weapons						
5.0 Detection, Characterization and Assessment of Underground Structures						
6.0 Assured Use of Space						
6.1 Access and Infrastructure						
6.2 Space Situational Awareness						
6.3 Space Mission Protection						
6.4 Space-based Support to the Warfighter						
7.0 Increasing the Toon to Tail Ratio						
7.1 Cognitive Computing						
7.2 High Productivity Computing Systems						
7.3 Language Processing						
8.0 Bio-Revolution						
8.1 Biology as a Template for Enhancing Military Systems						
8.2 Protecting Human Assets						
8.2.1 Biology for Sensing & Fixing the Battlefield Environment						
8.2.2 Surviving Combat Injuries						
8.3 Maintaining Combat Performance						
8.4 Restoring Combat Capabilities after Severe Combat Injury						
9.0 Core Technologies						
9.1 Quantum Science and Technology						
9.2 Bio-Info-Micro						
9.3 Materials						
9.4 Power and Energy						
9.5 Microsystems						
9.5.1 Microelectronics						
9.5.2 Photonics						
9.5.3 MEMS						
9.5.4 Systems-on-a-Chip						
9.6 Information Technology						
9.7 Mathematics						
9.8 Manufacturing S&T						
9.9 Lasers						