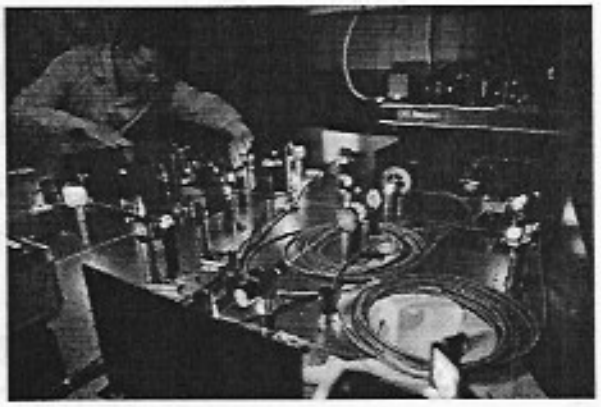
You can read all about it in CSIS' *Statement Before the House Armed Services Committee Subcommittee on Emerging Threats and Capabilities "Chinese Advances in Emerging Technologies and their Implications for U.S. National Security"*, or watch the video of the hearing for which it was prepared. The Congressional hearing video is titled *China's Pursuit of Emerging and Exponential Technologies*.

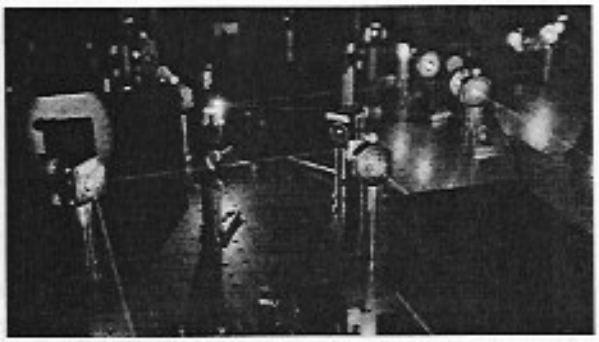


To sum it all up, Carter says that the Chinese have "developed a national strategic plan—in fact, many of them—to overtake us in the race to dominate these new technologies, and are rapidly closing the gap in innovation, deployment, and militarization of these new systems with the U.S." Carter identifies the "new technologies" referenced in the title of this article as ""artificial intelligence and robotics, miniaturization and ubiquitous connectivity, and quantum computing." Carter warns, "We may have more and better aircraft carriers, tanks, and missiles than the PLA, but without access to data and connectivity many of these systems are ineffective or even inoperable."

Regarding the Chinese military anti-satellite wafare technology threat, Carter had this to say:

The PLA has tested a range of anti-satellite weapons, including conventional ground-based kinetic kill vehicles, directed energy weapons, jamming and spoofing capabilities, and "kill-satellites" designed to disable or destroy other satellites on orbit.

They have expanded their electronic warfare capabilities, testing their capabilities to jam radar and communications and spoof GPS systems. China has also developed some of the most sophisticated offensive cyber capabilities in the world.



Perhaps most concerning to DR is China's combined AI (artificial intelligence) and quantum computing push, since those two capabilities/technologies are potentially reall game changers/paradigm shifters. "In particular, China sees artificial intelligence (AI) and quantum as foundational to both economic and military competitiveness in the long term, and has become not just a copycat or adopter of these technologies, but an innovator in its own right," says Carter. Carter also discussed China's combined military and civilian economic power-enhancing approach. Carter says that "China's strategy is not just to exploit the weaknesses in our military technology but to develop their own innovative, dynamic high technology sector to dominate the next generation of civilian and military technologies, particularly AI," and adds that "They seek to leverage both commercial and military innovation in ways that complement each other and build both military and economic power."

Will the Russian Air Force Beat the US Air Force to the Punch with 6th-Gen Jet Fighter Aircraft-Mounted Laser Weapons, Radio-Photonic Radar ('Radio Vision'), Microwave Weapons and Guided Electronic Munitions? Let's Hope Not.

Russian Yu-71 Hypersonic Attack Aircraft (HAA)/'Nuke Glider' and Yu-74 Ultra-Maneuverable Hypersonic Glide Vehicle (HGV) Nuclear Attack Threats: Can We Defend Against Them?

Army Research Lab (ARL) developing Hardened Automonomous, Artificially-Intelligent (AI) Distributed Robot Swarms (or, Swarm Bots) for Future Electronic Warfare Environments: Will They be Ready and Capable for World War III (WWIII)?

DIUx/Kratos UTAP-22 Mako and XQ-222 Valkyrie Combat UAS/UAV/Drone Aircraft: Developmental Artificially Intelligent (AI)Attack Aircraft Wingmen on Their Way for Future Warfare!

Xendurance Extreme Endurance Athletic Performance Enhancing Nutrition Supplements: Can it Help Turn Future Soldiers into Super Soldiers?

Tactical Assault Light Operator Suit (TALOS) + FlyBoard Air Ducted-Fan Hoverboard = Flying Super Soldiers: Future Military Special Operations Forces (SOF) Assaulters/Operators to Fly Themselves to the Target in Exo-Armor 'Iron Man'-Type Combat Suits?

USSOCOM Tactical Assault Light Operator Suit (TALOS) Exo-Armor Combat Suit for the Future Soldier/Warfighter: 'Iron Man', or Future Iron Thud on the U.S. Military Procurement Scrap Heap?

Russian Ratnik-3 (Warrior-3) Infantry Combat System with Exoskeleton to Turn Future Russian Military Infantry Soldier/Warfighters into 'Supermen'? Let's Hope Not.

Korean Method-2 Giant Manned Bipedal Robot (GMBR) Exo-Bionic Exoskeleton for Future Warfare: Future Soldier/Warfighter Going 'Avatar'-Style with Armored, Armed/Weaponized and Camouflaged Variant?

Rise of the Robot Soldier and Squad X Core Technologies (SXCT): 'Terminator'-Like Artificially-Intelligent (AI) Cybersoldiers and Drone and Boat Swarms to Augment Infantry Warfighters with Total, Multi-Perspective 3D Battlefield Awareness, or just Kill all of Us?

Will AI (Artificial Intelligence) and Super-Intelligent Robot Soldiers Save Us, or Kill Us?

Will TALOS (Tactical Assault Light Operator Suit)-Outfitted Future Soldiers Get Lightweight Abalone Shell-Based Flexible Scalar Biomimetic Metal Foam, Carbyne (Linear Acetylenic Carbon) and/or Multilayer Graphene Ballistic Armor Composites?

Prox Dynamics PD-100 BLACK HORNET PRS (Personal Reconnaissance System) Micro Helicopter Drone: Palm-Sized 'Nano UAS' Provides Cargo Pocket ISR Capability for Infantry Recon Ops! (Video!)