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975th Forum for Security Co-operation 12 May 2021 Agenda item 1

Forum for Security Cooperation Security Dialogue CHALLENGES OF THE NEW GENERATION WARFARE

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12 May 2021

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The New Generation Warfare

- Fourth Industrial Revolution
- Disruptive technologies
- Lack of control mechanisms over diverse array of weapons systems
- Proxy wars



Advantage over Conventional Means Speed Accuracy Maneuverability Crisis Instability Image Source: scienceandglobalsecurity.org

Robotics and Autonomous Precision Weapons



- Syria
- Libya
- Nagorno Karabakh







Image Sources: mil.am, topwar.ru, rt.com

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Drone Technology: Evolutionary, not a Revolutionary

- Technology not a panacea
- Impact of poor air defenses
- Meaning of a complete force



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Political Aspect: Adaptation



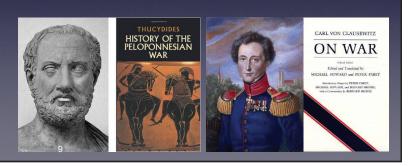
Technological Aspect: Cheap Wars and International Law

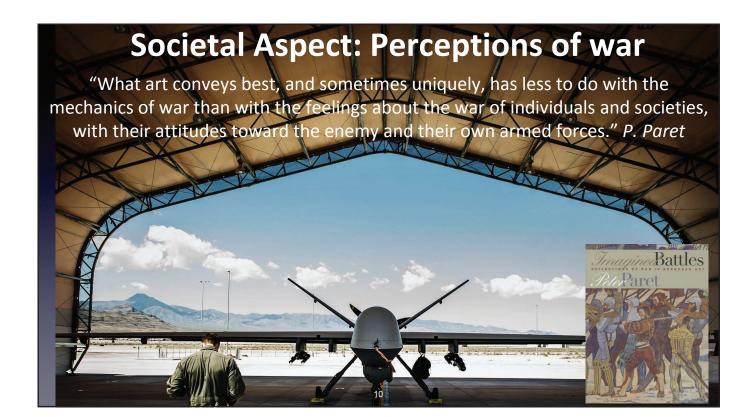
- Precision weapons as cheap way to win wars
- Transforming principles of international law
- Blurring the lines of the ethics of combat engagement
- Outsourcing decision making to algorithms



Operational Aspect: Battlefield Transformation

- Merging combat zone and rear area
- "The strong will do what they can, and the weak will suffer what they must" (Thucydides)
- Separation of total war from limited aims (Clausewitz)
- Uncertainty of "combat zone"





Technology Management and Arms Control

- Importance of regulations for innovative weapons technologies
- Hypersonic weaponry as a threat to he core principle of assured retaliation
- "Swarm" tactics
- Redesigning Missile Technology Control Regime

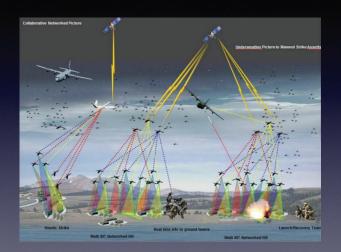


Image source: uasvision.com

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Conclusion

- Character of warfare vs nature of warfare
- Discourse beyond technological, operational, and arms control realms
- Political and societal determinants