

Research Establishment

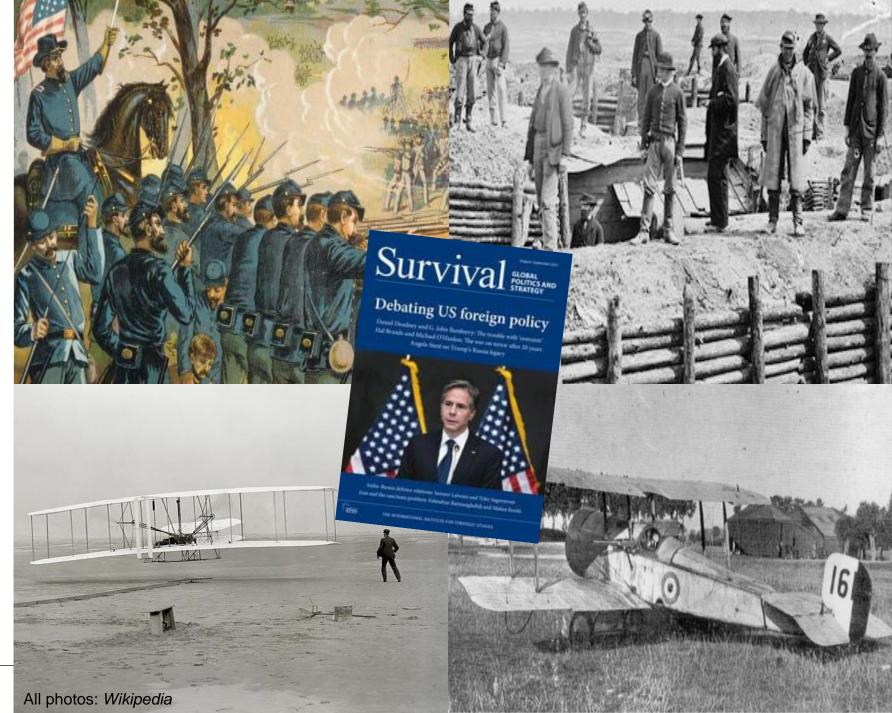
Multi-domain operations, emerging military technology and the future of manoeuvre warfare

Dr. Michael Mayer NATO STO ORA Conference October 2023

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Rationale

- Foresight analysis: Implications of future military technology
- Developing appropriate capabilities and concepts
- F.S. Gady, «Manoeuvre vs Attrition in US Military Operations» Survival (July 2021)



Technology and Future Warfare

- Ubiquitous sensors
- Networked, intelligent, autonomous systems
- Multifaceted and accelerated decisionmaking
- Emphasis on new(er) warfighting domains



Offense versus Defense

- Technology incentivise one form over another
- «Cult of the offensive»
 meets trench warfare
- Hammes & Johnson «defence ascendant» vs Biddle scepticism



Manoeuvre Warfare

- «Shattering cohesion and will to fight»
- Manoeuvre, attrition and positional warfare
- Strategic, operational and tactical manoeuvre
- Everything important, but which function gets *most* emphasis



Multi-domain Operations

- Work in progress
- Countering long-range sensors and precision fires (A2/AD)
- Coordination and synchronisation across domains at «speed of relevance»
- Data-centric concept with JADC2 as the glue



MDO in the FOE

- Tactical: Asymmetric mobility, visibility and surprise in contested environments
- Entrenchment, camouflage, dispersion, and mobility
- Operational: Planning, massing, tempo and dilemmas
- Strategic: Conflict phases (manoeuvre to attrition), escalation risks, proxy wars



Conclusions

- Preparing for both manoeuvre and attrition
- Offense-defence and fait accompli warning
- Relevance: Force structure planning, acquisitions and warfighting doctrine





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Email: michael-john.mayer@ffi.no