TEM POLICY & ETHICS OF IAS

FROM PRINCIPLES TO PRACTICE: WHY CONTEXT IS KEY FOR A GOOD NARRATIVE

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* Views expressed in this presentation are my own and do not necessarily represent Othe views of the Joint Artificial Intelligence Center or any other organization or government



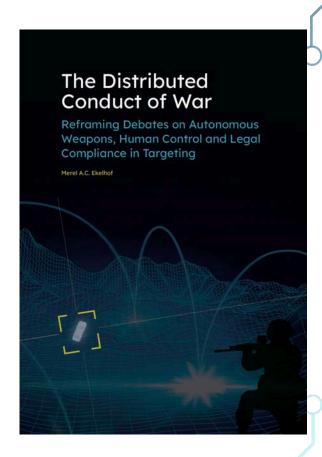
UN CCW GGE on LAWS



IHL/LOAC implementation



Targeting practices



OBJECTIVES FOR TODAY

- The importance of a good narrative
- Targeting as a framework to examine the operationalization of principles: beyond the trigger pull
- Final take-aways

NARRATIVE 1

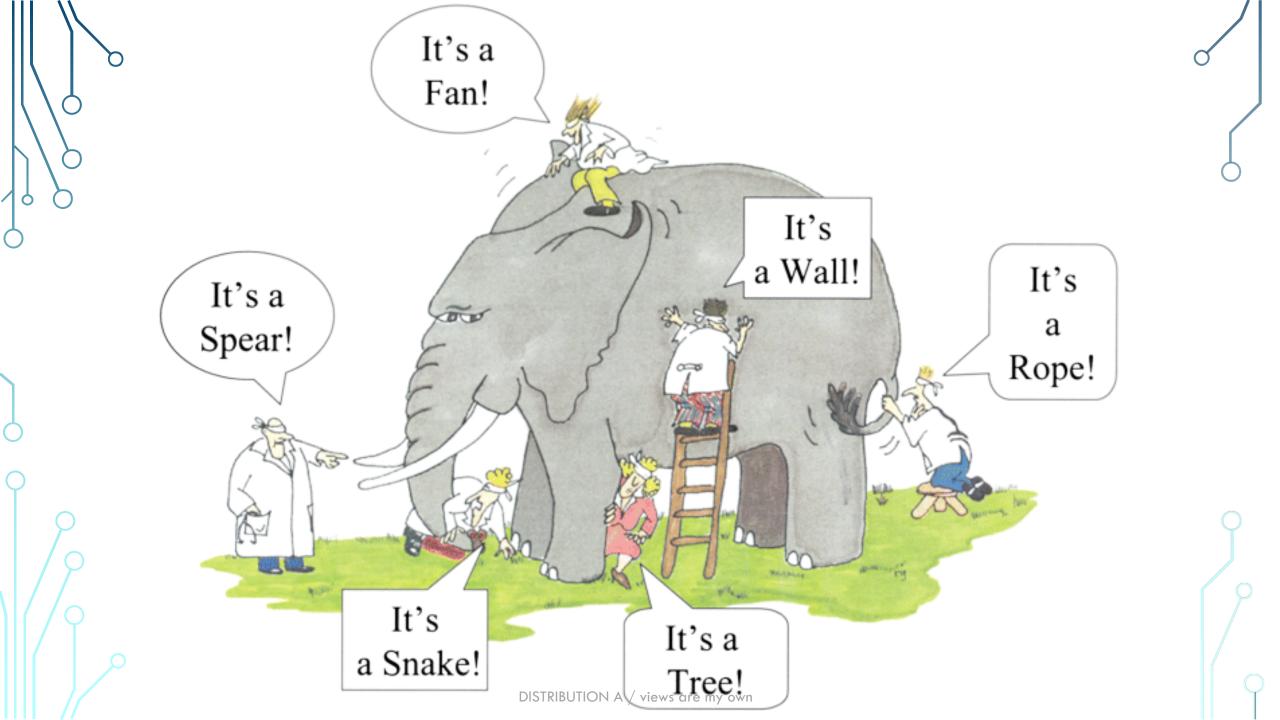




NARRATIVE 2



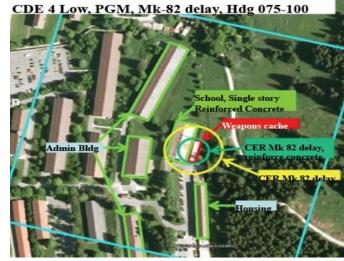




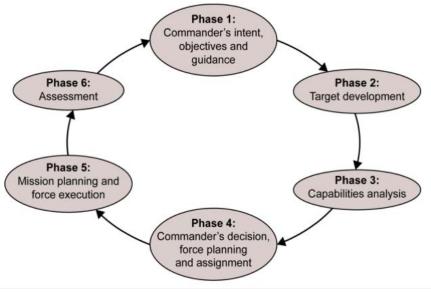
TARGETING IS MORE THAN DROPPING BOMBS

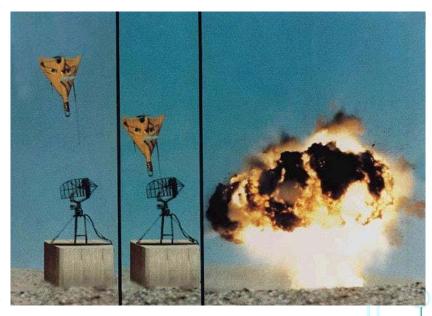




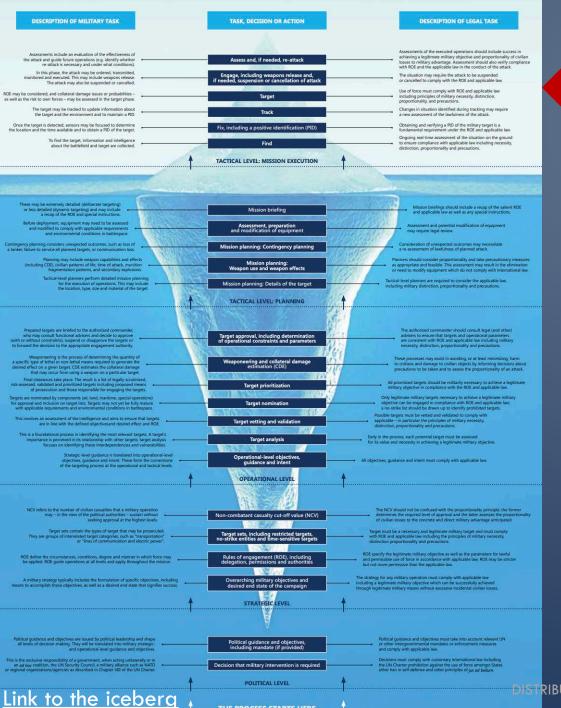








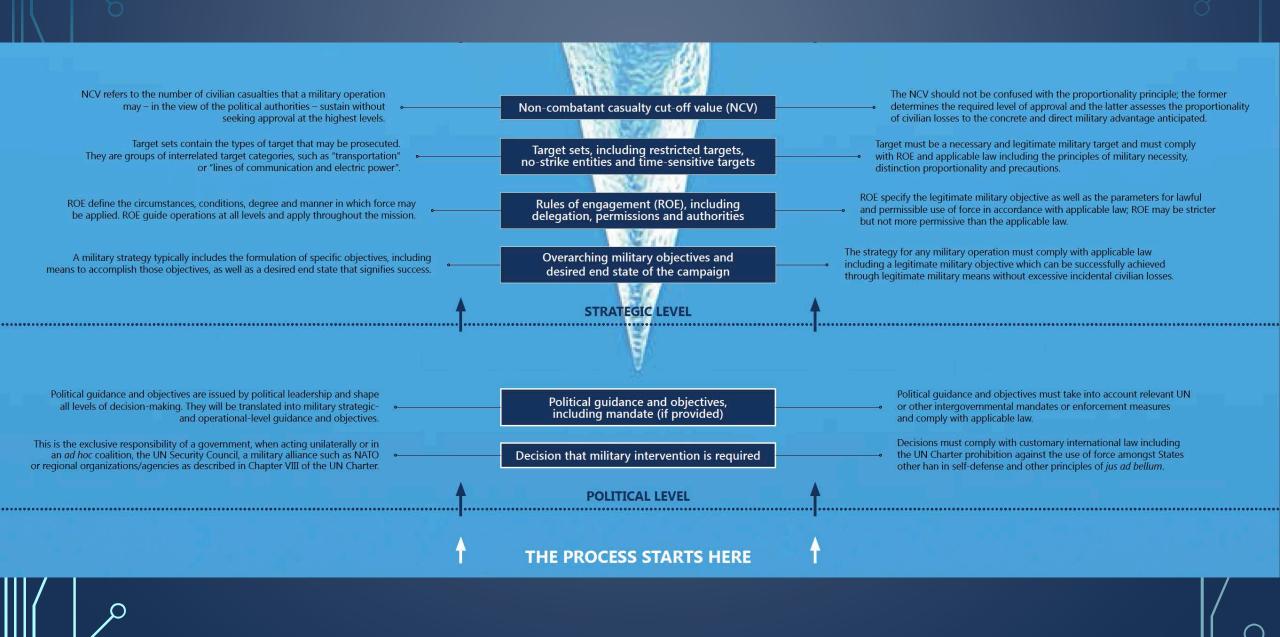
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THE PROCESS STARTS HERE

KEY TAKE-AWAYS

- Human judgment and control are distributed
- Implementation of law, policy, and ethics is a collective responsibility distributed across the entire process and, more broadly, the organization





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Assessments of the executed operations should include success in Assessments include an evaluation of the effectiveness of achieving a legitimate military objective and proportionality of civilian Assess and, if needed, re-attack the attack and guide future operations (e.g. identify whether losses to military advantage. Assessment should also verify compliance re-attack is necessary and under what conditions). with ROE and the applicable law in the conduct of the attack. In this phase, the attack may be ordered, transmitted, Engage, including weapons release and, The situation may require the attack to be suspended monitored and executed. This may include weapons release. if needed, suspension or cancellation of attack or cancelled to comply with the ROE and applicable law. The attack may also be suspended or cancelled. Use of force must comply with ROE and applicable law ROE may be considered, and collateral damage issues or probabilities – including principles of military necessity, distinction, **Target** as well as the risk to own forces - may be assessed in the target phase. proportionality, and precautions. Changes in situation identified during tracking may require The target may be tracked to update information about Track the target and the environment and to maintain a PID. a new assessment of the lawfulness of the attack. Once the target is detected, sensors may be focused to determine Obtaining and verifying a PID of the military target is a Fix, including a positive identification (PID) the location and the time available and to obtain a PID of the target. fundamental requirement under the ROE and applicable law. Ongoing real-time assessment of the situation on the ground To find the target, information and intelligence Find to ensure compliance with applicable law including necessity, about the battlefield and target are collected. distinction, proportionality and precautions. TACTICAL LEVEL: MISSION EXECUTION These may be extremely detailed (deliberate targeting) Mission briefings should include a recap of the salient ROE or less detailed (dynamic targeting) and may include Mission briefing and applicable law as well as any special instructions. a recap of the ROE and special instructions. Before deployment, equipment may need to be assessed Assessment, preparation Assessment and potential modification of equipment and modified to comply with applicable requirements and modification of equipment may require legal review. and environmental conditions in battlespace. Contingency planning considers unexpected outcomes, such as loss of Consideration of unexpected outcomes may necessitate Mission planning: Contingency planning a tanker, failure to service all planned targets, or communication loss. a re-assessment of lawfulness of planned attack. Planning may include weapon capabilities and effects Planners should consider proportionality and take precautionary measures Mission planning: (including CDE), civilian patterns of life, time of attack, munition as appropriate and feasible. This assessment may result in the elimination Weapon use and weapon effects fragmentation patterns, and secondary explosions. or need to modify equipment which do not comply with international law. Tactical-level planners perform detailed mission planning Tactical-level planners are required to consider the applicable law, Mission planning: Details of the target for the execution of operations. This may include including military distinction, proportionality and precautions. the location, type, size and material of the target. TACTICAL LEVEL: PLANNING

FINAL TAKE-AWAYS

- Language is important, but not everything;
- Be specific about which capabilities are autonomous;
- Look at use-cases to inform how principles can be operationalized;
- Go further and look at what you need to do in your organization to ensure responsible Al & autonomy;
- Talk about it!

THANK YOU

"...there exist no fully autonomous systems, just as there are no fully

autonomous soldiers, sailors, airmen or Marines"

DEPARTMENT OF DEFENSE

DEFENSE SCIENCE BOARD

TASK FORCE REPORT:

The Role of Autonomy in DoD Systems

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