



Developing the MOEs for Crossing Rivers and Gaps

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Objectives

To propose and demonstrate the means of developing a standardized set of MOEs for crossing wet gaps (i.e., the RCO). With a standardized approach to preparing MOEs, a baseline can be established from which to gauge which RCOs are more hazardous and which may need additional materiel to be successful.

Main Research Ideas

A systems engineering approach was used to derive measures of effectiveness for crossing a water gap. From that set of measures, the projection of the forces into the intended zone of operation within a specified period of time was determined to be a key determinant of success.

Research Results

s/n	MOE	Description
1	MOE – g	Planning, Techniques, Tactics and Procedures due to RCO
2	MOE – c	System Functionality Expectation
3	MOE – i	Influence of Procedures with the Use of RCO
4	MOE – f	Influence of Procedures When System Is <i>Not in Use</i>
5	MOE – u	Efficiency of RCO functions to support operation
6	MOE – b	System Functional Boundary Conditions
7	MOE – s	Influence of procedures on processes and mechanism due to <i>lack of use</i> RCO
8	MOE – x	System Operational Context Validity

Benefits of the Research

This study looks at the current measures of effectiveness of river crossing operations for all land operations maneuvers. A review of the current MOEs would enhance the focus of operations and assist the decision makers and troops to target specific task and ensure mission success

Future Works

It is recommended that a force-on-force model be setup to simulate various MOPs, which would then be used within the integrative framework to formulate MOEs. The outcome would be another interpretation of the results presented in the thesis

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