

Reconnaissance and Assessment of the Built Environment for MOUT

Norbert Gebbeken^{*1}, Achim Pietzsch¹ and Martin Larcher¹

¹*Institute of Engineering Mechanics and Structural Mechanics, University of the Bundeswehr
Munich, Germany*

Mainly buildings, bridges and culverts are crucial to protect soldiers and to ensure mobility and rescue routes. In general, only the resistance and effectiveness of the own protective structures are known.

For the planning and execution of military operations in urban terrain (MOUT), it is essential to recce and to assess the built environment, mainly local buildings, existing bridges, and further structures of interest (culverts, posts, tunnels, passes). Even MOUT in megacities has become a scenario that needs to be considered.

This is a special challenge, because there might be no or little knowledge about materials, structures and / or standards. Expert knowledge is required in order to support the operation command.

In this contribution the current situation of reconnaissance and assessment of the built environment in the theatre will be described. Already available engineering tools will be presented that are developed for reconnaissance and assessment of bridges and buildings for mission support. Ongoing MOUT related research will be highlighted.

Keyword: MOUT, Protective Structures, Reconnaissance, Built Environment