A Systems Analysis of Army Long Range and Support Fires

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Abstract: The modern battlefield requires continuous learning and development for effective warfighting. The United States Army's vision for the Army of 2028 is to be ready to meet these evolving demands of warfare and to win decisively against adversaries in multi-domain, high-intensity situations. A major component of realizing this vision is enhancing the ability to conduct long-range fires. At multiple Federally Funded Research and Development Centers, research is being conducted to support this effort. This paper uses Systems Engineering concepts to conduct a fault analysis of these support fires to identify where improvements need to be made within these assets. Interviews with Field Artillery officers concentrated efforts to areas specified to need the most improvement. A weighted matrix was created to leverage the gathered data. Findings indicate four primary areas in which to enhance: computer systems, communication systems, integrative training, and the feedback system.

Keywords: Systems Architecture, Integration