

Overarching question: What technologies, extant or reasonably attainable, will enhance the ability to employ, support, and sustain forces at extended distances or in compartmentalized terrain that creates physical separation?

Constraint: Capability enhancements cannot adversely affect a rifle company's "deployability" and mobility; weight and cube are key planning considerations.

Supporting questions:

How can we improve situational awareness and the ability to direct and coordinate operations?

- What intelligence capabilities, such as remote sensors or smaller UAVs, can be made organic to rifle companies?
- Is there a way to provide rifle companies direct access to higher echelon fires and intelligence networks? What fire support tasks can be automated?
- How can we solve the on the move, beyond line-of-sight, over-the-horizon communications problem?
- How can industry help satisfy an increased demand for aerial reconnaissance and communications relay?

How can we improve mobility/counter-mobility?

- Are there obstacle, barrier, or structure breaching capabilities that can be made organic to a rifle company?
- Can we provide temporary protective barriers, lethal or non-lethal?
- How can we improve force protection capability and capacity of squads, platoons, and companies in an extended battlespace?
- How can we improve the ability to employ, maintain and sustain small detachments of a/c?
- What are industry thoughts on creatively answering an expected demand increase for forward arming and refueling points and/or expeditionary airfields?

How can we increase logistical self-sufficiency?

- What unmanned air and/or ground delivery means adequately support re-supply?
- Are there alternative fuels or water-making/purification technologies that will reduce re-supply requirements?
- Can we provide companies the ability to rapidly construct defensive positions and/or protective shelters?
- What medical technologies would improve the ability of hospital corpsmen to prevent, diagnose or treat illnesses, injuries, and wounds?
- How can we provide distributed units sufficient power to support communication and intelligence systems?
- What technologies might enhance on-scene equipment maintenance?