

## **Laboratory Metrics to Support Base Realignment and Closure Efforts**

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### **ABSTRACT:**

The Army Staff devoted significant effort to analyzing contributions of Army facilities leading up to the 2005 base realignment and closure (BRAC) recommendation. The Staff approached this analysis in terms of both physical and operational capacities. Physical Capacity is a measure of an installation's capacity in terms of essential facilities. Operational Capacity, on the other hand, is a measure of the Army's capacity in terms of its ability to support unit requirements (e.g. ability to support like Information Technology needs and networks, RDTE (test ranges), ammo production, and BDE's training and land requirements). The Staff, however, oversimplified their model in order to expedite the process and failed to get visibility into the needs of depots, industry, and RDTE labs. For example, when determining the excess for a RDTE lab, the unit of measure was Total Facility (in thousands of square feet) over Acquisition Workforce (number of employees). The study was unable to find a clear way to show the worth of institutions such as ARL to the Army. In an effort to conduct more effective analysis in the future, the Army BRAC Team would like to review portions of their analysis and evaluate the metrics used for quantifying capacity of facilities in order to find a more robust solution. The cadet team will work directly with USMA faculty as well as members of the Army BRAC Team to review the BRAC analysis and make recommendations for change. The cadet team will determine if the metrics from the Army BRAC model are sufficient to describe the mission for the RDTE labs, and if they are not adequate, then will change the metrics in order to find a better solution. The desired product/process will model the Army BRAC team's analysis, but it will take the special needs of the RDTE labs into account.

### **KEYWORDS:**

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