



Large Area Runway Repair Gone Expeditionary

Project Summary: Dynamic basing concepts of minimal presence and short-term operations are forcing a change in base support requirements from permanent, in-place or prepositioned support to just-in-time and just-enough support with minimal logistics requirements. The most critical of these support functions is airfield damage repair (ADR). Current ADR capability requires significant manpower, equipment, and repair materials to be brought to the repair site.



While suitable for permanent bases, this capability does not meet the needs of adaptive basing which must be agile, mobile, and rely on a smaller footprint for equipment, materials, and manpower. Large craters are anticipated as a repair requirement based on crater interaction experiments and weapons effects prediction which can render an airfield inoperable.

Benefit:

The LARGE program will develop, integrate, and assess new and mature technologies that will enable airbase recovery in expeditionary environments and dynamic basing concepts. Scalability of new concrete formulations and are disruptive to adversary's planning. Provide TTPs, training materials and equipment (leave behinds) to supplement/enhance current aircraft surface repair capabilities.

Duration of project: FY24 – FY25

Participants: INDOPACOM, OUSD(R&E) JCTD Office, AFCEC, NAVFAC EXWC, AF IMSC, MARCORSYSCOM, U.S. Army ERDC

Project advocacy (funding or otherwise): USINDOPACOM