



Building Strong®

Innovative Solutions for a Safer, Better World

## US Army Corps of Engineers Reachback Operations Center (UROC)

### Providing Relevant Solutions to the Armed Forces and the Nation

The USACE Reachback Operations Center (UROC) at the U.S. Army Engineer Research and Development Center (ERDC) provides a “reachback” engineering capability to support contingencies across the full operational and natural disaster spectrum. The UROC rapidly leverages the Corps’ extensive resources to support deployed forces or those requiring specialized assistance.

Deployed troops are linked to subject matter experts (SMEs) within the U.S. Army Corps of Engineers, government, private industry, or academia to obtain solutions to complex problems. Personnel may contact the UROC for reachback support using the UROC’s Reachback Engineer Data Integration (REDi) website, phone, email, or UROC’s satellite-based TeleEngineering Communications Equipment.

### Engineering Expertise

Common topics of requests for information (RFIs) include:

- Bridge Assessment
- Airfield Design and Repair
- Dam Breach and Hydrology Analysis
- Trafficability (On or Off Road)
- Geophysical Environment Analysis
- Climate Information and Analysis
- Force Protection / Survivability
- Bomb Damage Assessment
- Critical Infrastructure Assessment
- Base Camp Development
- Engineering, Master Planning and Facilities
- Construction and Mapping

### Innovative Development

UROC personnel have designed Field Force Engineering tools to enhance the capabilities available to DoD forces.

- **The Automated Route Reconnaissance Kit (ARRK):** Incorporates GPS, video, and inertial measurement unit providing automated data collection capability for on-the-move reconnaissance for both ground and airborne platforms. Numerous operations and natural disaster response missions have been supported.
- **TeleEngineering Communications Equipment-Deployable (TCE-D):** Provides assured reachback by leveraging commercial-off-the-shelf technology in a UROC integrated solution for internet or telephone access, secure and nonsecure VTC functionality and data transfer. The system is a critical component when other communications infrastructure is unavailable.
- **Reachback Engineer Data Integration (REDi):** Website provides a common database, mapping tool and robust user interface for submitting, managing, tracking and archiving all data and reachback support managed through the UROC related to the engineer reachback process and the Field Force Engineering program.



Engineers with problems beyond their capability to solve with in-theater resources are connected with SMEs via reachback through the UROC.



REDi is a single user interface through which data sources, services and tools provided by the UROC may be accessed and managed.

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The U.S. Army Engineer Research and Development Center (ERDC) solves the nation’s toughest engineering and environmental challenges. ERDC develops innovative solutions in civil and military engineering, geospatial sciences, water resources, and environmental sciences for the Army, DOD, civilian agencies, and our Nation’s public good. Find out more on our website: [www.erd.usace.army.mil](http://www.erd.usace.army.mil). Approved for public release; distribution is unlimited. January 2014.