



**US Army Corps
of Engineers®**
Engineer Research and
Development Center

ike with GATER (Geospatial Assessment Tool for Engineering Reachback)

Description

The U.S. Army Corps of Engineers (USACE) Reachback Operations Center (UROC) provides a rapid field data collection solution for Department of Defense (DOD) personnel deployed worldwide through ike combined with its Geospatial Assessment Tool for Engineering Reachback (GATER). The

GATER is a suite of applications allowing for a three-tier business process: a field data collection device (the ike); a desktop application (mobile Gater) that serves as a conduit to synchronize data from the field to the desktop; and then to the online data repository (online Gater) that allows visualization capability and on-line GIS mapping.



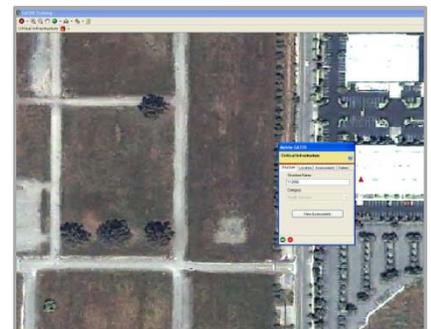
Capabilities

Once field data is collected and uploaded to the desktop level, the user can extract shapefiles and generate reports that depict their data collection(s). When data are uploaded to the geodatabase within the UROC, it populates the UROC's USACE Global Situation Map via ESRI's ArcGIS Explorer, as well as the corresponding on-line GATER application. Through the synchronization process, the UROC passes data collection updates and software upgrades (both GATER and ike) to the end user.



Supporting Technology

The UROC provides site-specific commercial satellite imagery and standardized data collection modules on the ike for critical infrastructure assessments (SWEAT-MSO), EOD, real estate-lease (CREST), access/entry control points, environmental site and closure surveys (EnvST), real property (DoD RIPR), construction project tracking and bridge recon (DRAFT DA 1249)



Benefits

The UROC maintains a data repository for all collected data and supports both the commercial ike 1000 and the military ike 504 with SAASM GPS. All data collected on the ike is safeguarded with 256-bit encryption. The UROC performs daily data migration from the NIPR to the SIPR to allow for further analysis and interoperability among various national databases.



Point of Contact

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