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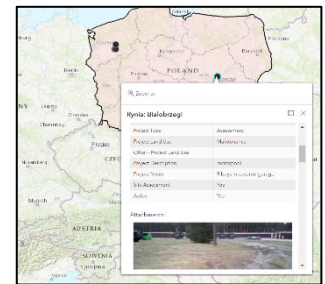
**DISCOVER | DEVELOP | DELIVER**

## IRIS Survey123

### Description

The U.S. Army Corps of Engineers (USACE) Reachback Operations Center (UROC) provides a rapid field data solution utilizing a suite of software applications, designed by the Environmental Systems Research Institute (esri). Field surveys are principally created and digitally accreted using the ArcGIS Survey123 Connect and ArcGIS Survey123 mobile applications respectively. The applications are accessed using either a Panasonic CF-33 Toughbook with internal SmartCard Reader, or US government-issued mobile phone (Android or iOS) with Purebred, DISA's PKI Engineering mobile application to provide a secure, scalable method of distributing software certificates for DoD PKI subscribers' use on commercial mobile devices. Together, the field applications and hardware form a complete form-centric solution for creating, sharing, and analyzing rapid field collections, or SWEAT-MSO/ASCOPE infrastructure field surveys.

Field collections are hosted on the USACE Joint Engineer Common Operational Picture (JECOP) ArcPortal, where those data are replicated to the UROC's Reachback Engineer Data Integration (REDi) One Engineer Vision (OEV) online map, enabling field workers and stakeholders the ability to easily gather, visualize, aggregate, and analyze those data, while ensuring secure upload, storage, and export of that information.



### Capabilities

Through the Survey123 mobile field application, users can capture high resolution photos, dictate notes and audio recordings, and attach sketches associated with POIs. In addition to basic field data (photos, notes, etc.), custom forms are available for SWEAT-MSO/ASCOPE infrastructure field surveys. The collected data is bundled into a geolocated assessment point icon via the on-board GPS from the CF-33 or mobile phone. Once the field data is collected and sent to the JECOP ArcPortal, it can be utilized locally to extract information and generate reports, or it can be synchronized to the geo-database through the UROC's REDi portal to be stored and shared. Through the synchronization process, the UROC passes data collection and any IRIS software upgrades to the end user.

### Benefits

The UROC can provide site-specific AOI offline maps or imagery and standardized data collection forms, such as on-site Environmental Condition Reports, for deploying units without mobile internet access. In addition, the UROC maintains a data repository for all collected data, as well as software updates. The UROC performs data migration from the unclassified network to the SIPR network to allow for further analysis and interoperability among various national databases, as needed.

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