



PROJECT: SWLRI - Strategy for Water and Land Resources: Irrigation network mapping

YEAR: 2013-14

COUNTRY: Iraq

CLIENT: Consortium SGI Studio Galli / MED Ingegneria / El Concorde Constructions

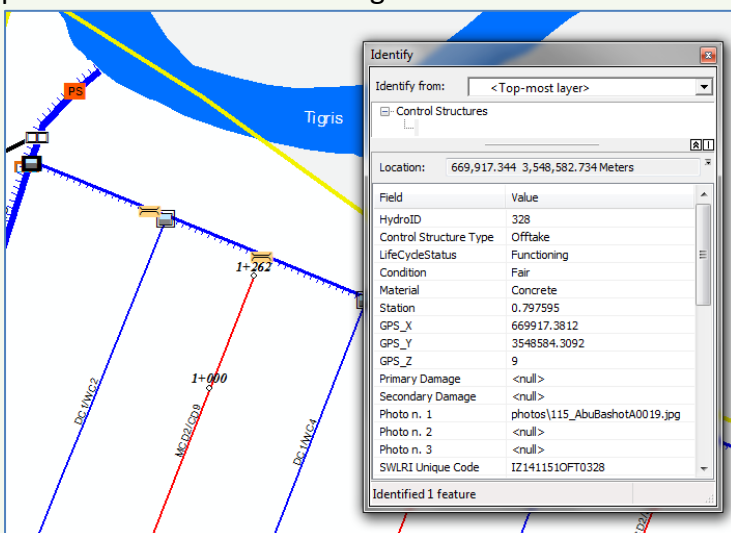
DESCRIPTION

GISMAP collaborates with the SWLRI Project (Strategy for Water and Land Resources in Iraq) for the realization of detailed digital maps (scale 1:5000) of irrigation projects managed by Iraqi Ministry of Water Resources, for a total surface of 12,000 km².

Digital maps were based on the interpretation of Worldview 2 very high resolution satellite images (to derive irrigation and drainage network) and on field data collected by Iraqi surveyors to assess the main characteristics and conditions (material, operability, presence of damages, etc.) of all irrigation and drainage structures.



The database structure was derived from the ESRI Irrigation data model, allowing the storage of all attributes required to perform an evaluation of irrigation schemes conditions and maintenance or rehabilitation needs.



The database was enriched with derived data such as station of each structure and a hierarchical unique canal naming system.

Digital mapping was completed with information concerning the territorial coverage, such as highways, water bodies, built areas, etc. and with the realization of the geometric network.