



GCI

GCI - DR. SCHINDLER

GEO CONSULT INTERNATIONAL GMBH & CO. KG

Country:

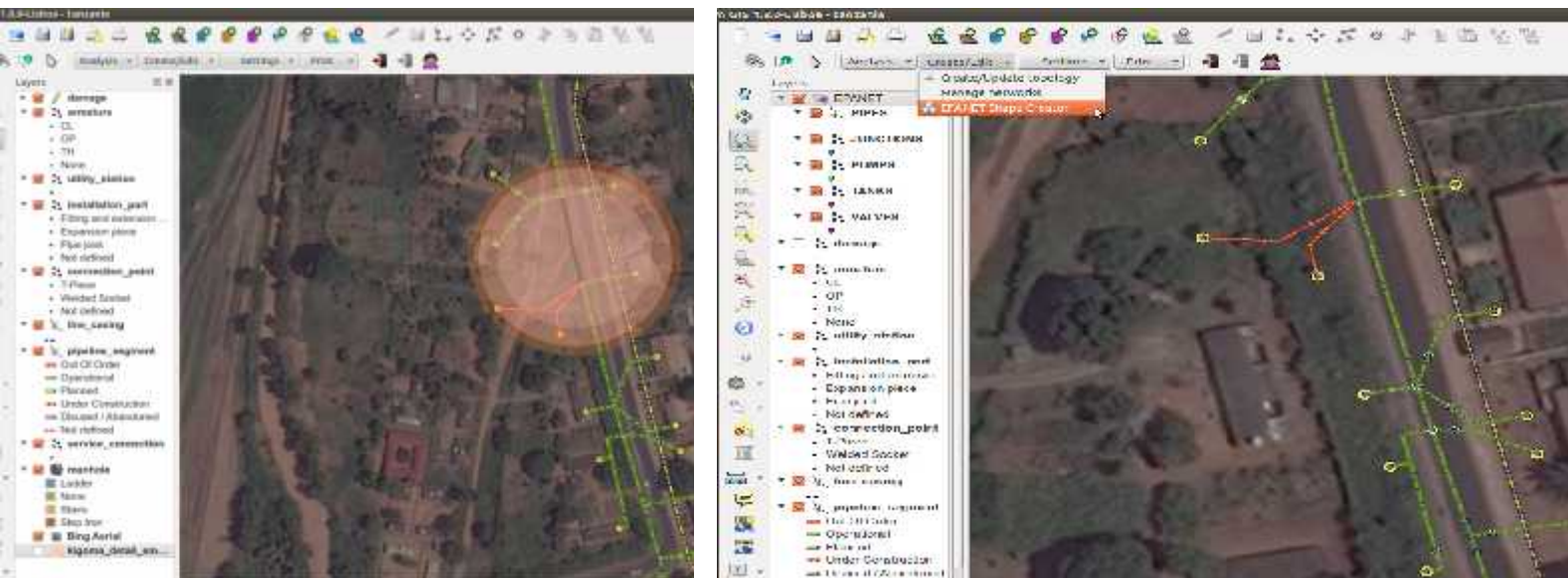
Tanzania

Project name:

The Provision of Consultancy Services for Capacity Development Measures in Kigoma, Lindi and Subawanga Towns

Name of Client:	Urban Water and Sanitation Authorities
Project location within country:	Lindi, Subawanga and Kigoma
Name of legal entity:	GCI – Dr. Schindler Geo Consult International GmbH & Co. KG
Project value carried out by legal entity:	60,000 €
No of staff provided:	1 STE (4 p/m)
Start date (month/ year):	10/2014
Completion date (month/year):	11/2016
Origin of funding:	KfW – Kreditanstalt für Wiederaufbau (German Development Bank)
Name of Associated firms:	GITEC Consult GmbH

Screenshots of Water Network Toolbox



Detailed description of the project:

The project comprises three components:

- Support to the Planning Department: Mapping and Zoning of the Water Distribution Network
- Enhancing the capacities of the UWSSAs to plan, operate and maintain water supply and sanitation facilities
- Development of a Planning and GIS unit

It is a common fact that many authorities in developing countries struggle to bear the costs for licensing of proprietary software solutions. Besides the constraint of the licensing the lack of capacity for the further development of customer specific adaptation is often a reason for failed successful implementation of GIS software solutions. Especially in authorities with poor computer skills open source software is a great alternative to proprietary solutions, because with using and adaptation of open source software capacities can be build up.



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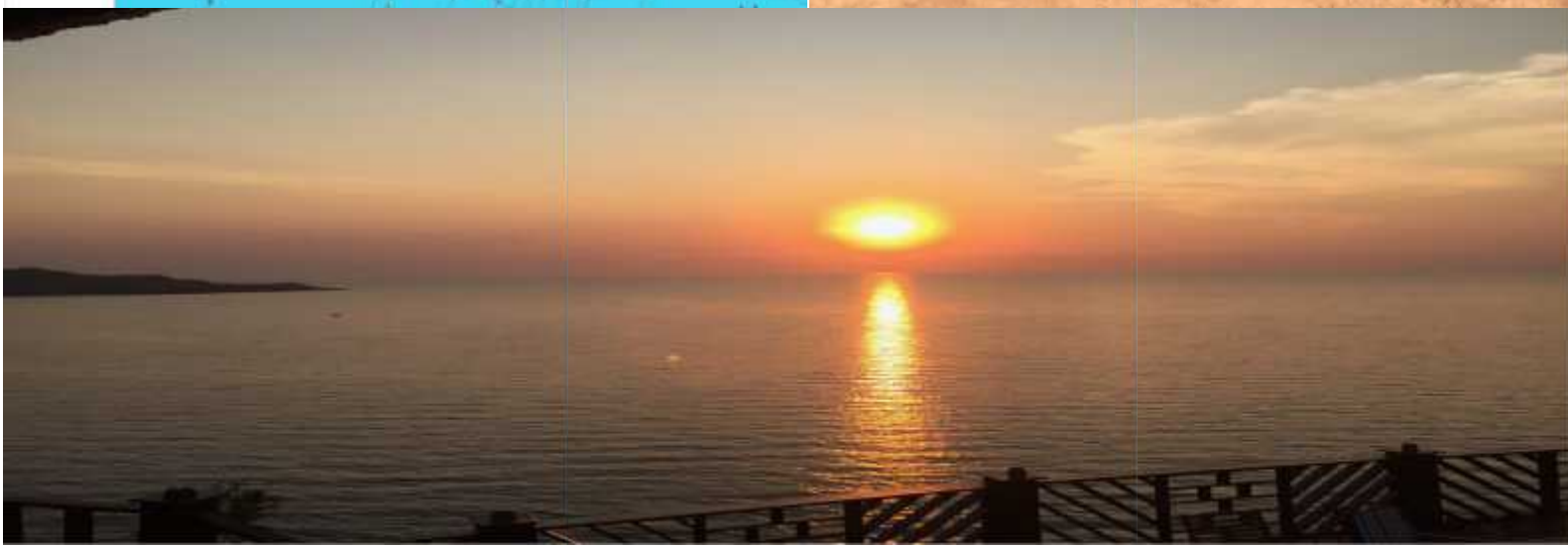
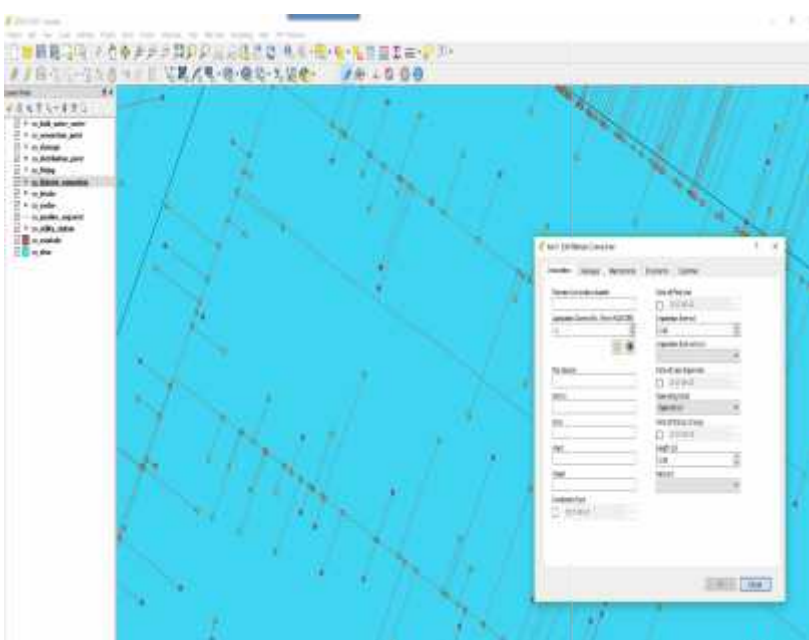
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Detailed description of services provided:

- Supporting the procurement of survey equipment
- Supporting the set-up of a GIS unit within the Planning Department (functions, job descriptions, recruitment support)
- Further development of GIS software (Quantum GIS based, open source, Water Network Toolbox (WNT)):
 - Ability to model the complete water distribution network including essential elements such as pipeline segments, Armatures, connection points, service connections, water meters, utility stations (tanks, pumps)
 - Monitoring the water network with a range of tools for registration and documentation of damages and inspections Including the upload of pictures as well as detailed descriptions
 - Hydraulic modeling with an export tool allowing the exchange of data between WNT and EPANET
 - A mobile application for the inspection teams allows the surveying of damages with real time data transaction

The WNT provides basic functionalities for the management of the water network and provides the possibility for adaptation such as translations or user specific modifications. With this software solution it is possible to establish and strengthen the GIS department of UWSSA through learning and using the basic setup of the WNT.

Tracing Mr Livingstone



Sunset at Lake Tanganjika

