

### **3.3-P09. Enhanced Capabilities of custom GIS solution for the CTBT OSI Application**

In order to support scientifically credible investigations during OSI, enhanced capabilities of custom GIS solution for the OSI application has been developed. The principal purpose of the enhancements was to establish an easy-to-use enhanced human-machine interface prototype GIS suitable for data and maps management related to OSI workflows during operations. CTBTO used professional GIS software to plan, manage and review the OSI geospatial data, but its use was limited to trained GIS professionals working with specialized GIS software. As the resources both in time and personnel of an Inspection Team are limited by the CTBT and on-going operations during OSI, GIS services needed to be expanded to a wider range of users in order to streamline the information flow during an OSI. The goal was achieved by using custom developed, task orientated applications that are accessible offline using a web interface. The enhancement of the system included the Mission Planning Application, the Field Team Planning Application and the Viewing Application. System with mentioned enhanced capabilities has been deployed during IFE14 and proved its efficiency during conduct of the field missions supporting scientific teams in their forensic investigations.

**Primary author:** PRAH, Matjaz (Croatian Electric Utility (HEP), Division of Strategy and Development)

**Presenter:** PRAH, Matjaz (Croatian Electric Utility (HEP), Division of Strategy and Development)

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