

3D Visualization of Different OSI Data Types with More Standard 2D Representation

During an OSI, inspectors should expect to have access to certain types of data for an inspection area prior to deployment, irrespective of where on Earth the OSI occurs. Satellite and aerial imagery, cartographic maps, digital elevation models, geological maps are all data types that can be found for almost any part of the planet prior to OSI deployment. We explore how to visualise such baseline datasets in 3D to support of the Inspection, from pre-deployment through to entry into country. In an OSI, there are four main scenarios where this type of data visualisation is important: 1. Planning prior to Point of Entry procedures, 2. Mission planning and logistics during the OSI, 3. Visualisation of treaty-relevant data, 4. Producing briefing materials for all stakeholders. In this poster, we present a detailed exploration of how best to represent these data in both 2D and 3D environments. We contrast the power of visualising such data in a 3D environment to standard 2D representation of the same data, using the commercial software GeoVisionary, developed by the British Geological Survey and Virtualis Ltd. Ultimately, we discuss the potential benefits of adopting GeoVisionary, or a similar tool, into the inspector toolkit.

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Track Classification: 3. Advances in sensors, networks and processing