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## Scientific support of good practice: guideline for GPR survey of underground utilities and voids in urban areas

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In recent years, GPR technology became an important technique in engineering practice as a tool for efficient detection, mapping and identification of underground utilities. Many countries recognized that and brought regulations for its use. One of the main tasks of the Working group 2: "GPR surveying of transport infrastructure, utilities and voids" within COST Action TU1208 was to develop document where existing regulations and good practice would be integrated. This document, "Guideline for the detection and the mapping of underground utilities and voids using Ground Penetrating Radar (GPR), with a particular focus to urban areas" was aimed to represent a basic document for development of standards in countries where GPR technology is fully recognized. General structure of the document involves main goals represented through scope, basic terminology analysis of existing standards and available equipment. Survey procedure is clearly defined with overview of suggested complementary methods. Project classification is also given along with survey planning, georeferencing procedures and data processing. Particular emphasis is given to preparation of deliverables according to EU directives. Each project type is represented with detailed example.