

# Lithuania

## Lithuania starts development of 3D Cadastre

In Lithuania, the State Enterprise Centre of Registers (SECR) has initiated a research and development project to build pilot technology for preparing, storing and managing spatial 3D data.

The pilot marks the first step in developing a 3D cadastre with national coverage and the project will be completed in 2021.

The outcomes, which will help implement initiatives for economic developments, are expected to enable the integration of a wide range of information. This includes up-to-date spatial data, data collected and stored in the Real Property Register as well as other relevant cadastres, registers and information systems (such as Register of Subsoil, Register of Territorial Planning Documents, topographical plans and engineering network plans maintained by municipalities) and spatial data created in Building Information Modelling (BIM) processes.

Created and maintained 3D models will be available on the Internet through the Regional Geographic Information Environment Service REGIA ([www.regia.lt](http://www.regia.lt)) for viewing, analysing and integrated use. Together with the advanced e-services developed during the project, these provide vital tools for citizens taking part in state governance, dealing with real property investments, planning their trips, travelling and searching for various information.

Representatives of government institutions, national or local strategy developers, public security officers and others will also use the up-to-date 3D data for decision-making, analysis, modelling and efficient planning. For businesses, the 3D data opens new opportunities to become more competitive, precise and faster. The technology will also be relevant to investors, professionals from various fields such as architecture, land management, urban planning and development, and real estate.

SECR is the keeper of the main state registers, as well as the main provider of data-based public e-services in Lithuania. Its primary function is the administration of the 11 main state registers and 11 information systems.



Fig. 1 – 3D data model and BIM integration



Fig. 2 – Point Cloud