

CONCEPTUAL APPROACH TO GEODETIC SUPPORT FOR 3D CADASTRE

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The article considers the approach to 3D cadastre geodetic control creation. Within the framework of this approach it is suggested to present the given production process by two technological operations: creation of geodetic control network in cadastral block to coordinate the external contour of capital construction object (CCO) and 3D modeling of its internal elements (premises). To implement these technological procedures, a regulatory framework for performing geodetic measurements and a coordinate system for entering the necessary information in the unified state register of real estate (USRRE) and performing 3D modeling of the structural elements of the CCO is proposed. It is noted that when implementing the proposed technological solutions, the technical plan prepared by the cadastral engineer can be considered not only as a document that allows the state cadastral registration of the ACS and its structural elements, but also as a regulatory document that determines the compliance of the erected building with its design parameters.

Keywords: 3D cadastre, 3D model, real estate objects, capital construction object, unified state register of real estate, state cadastral registration, characteristic point, coordinates, average square error, standard accuracy

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