

CONTENT AND PRACTICE OF DIGITAL INFORMATION SPACE CREATION FOR AUTOTRANSPORT INFRASTRUCTURE

Valentina A. Budarova

Industrial University of Tyumen, 38, Volodarskogo St., Tyumen, 625001, Russia, Ph. D., Professor, Department of Geodesy and Cadastre Activities, phone: (3452)28-36-60, e-mail: budarova@bk.ru

Natalia G. Martynova

Industrial University of Tyumen, 38, Volodarskogo St., Tyumen, 625001, Russia, Ph. D., Associate Professor, Department of Geodesy and Cadastre Activities, phone: (3452)28-36-60, e-mail: natali.cherdanceva@mail.ru

Artem V. Sheremetinskiy

Industrial University of Tyumen, 38, Volodarskogo St., Tyumen, 625001, Russia, Ph. D., Student, Department of Geodesy and Cadastre Activities, phone: (3452)28-39-15, e-mail: artemshere93@gmail.com

The purpose of the work is the relevant problem of formation of digital information space for transport infrastructure. The object of the research is the part of the automobile road, connecting the cities of KhMAD and YNAO: Surgut and Salekhard situated in the Arctic zone of Russia. On the given part Purpe-Purovsk km 494+650 – km 507+200 in the process of preliminary works there was performed a significant project-related volume of prospecting and special measuring works (by means of ground-based laser scanner Leica Nova MS60) for creation of digital model for this part of the road together with adjacent territory and objects on it. As a result of performed works there has been developed the method of production (of special working process) of engineering explorations and data processing obtained with the use of ground-based laser technology (GLT), which provides the formation of digital information space of the federal road, information requirements of its exploitation, real estate maintenance and its possible reconstruction and future repairing. The technology can be applied in the development of the transport cores of the Russian Federation. Practical results of GLT application demonstrate its reliability and expediency in the specified conditions when carrying out such works.

Keywords: spatial development strategy, digital transport infrastructure, geospatial activities, geoinformation support, linear construction, road, ground laser scanning

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