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The importance of engineering geodesy in modern urban planning

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The article examines the role of engineering and geodetic work in various sectors of the economy.

The article notes that engineering and surveying are constantly evolving and integrating modern technologies such as CAD, GIS, laser scanning and satellite navigation. This allows you to increase the accuracy, speed and efficiency of work.

Key words: Geodesy. Construction. engineering facilities. aerospace photography. digital photogrammetry electronic tacheometry. laser scanning. ground-space geodesy.

Engineering and geodetic work is an extremely important and integral part of the complex of works on survey, design, construction and operation of railways, highways and structures on them, airfields, irrigation systems, forestry facilities and forest engineering. These works largely determine both the cost and quality of construction, and the conditions for subsequent operation of engineering facilities.

At the present stage of development of scientific and technological progress, fundamental changes have occurred in the technology and methods of design and survey work and the technology of construction of engineering facilities, which is reflected in changes in the composition and methods of performing engineering and geodetic work, as well as in a qualitative change in the fleet of geodetic equipment used. Thus, computer-aided design (CAD), automated construction management systems (ACMS), geographic information systems (GIS), etc. are increasingly used in design, survey and construction processes. Obviously, a civil engineer, reclamation engineer, forestry engineer at the present stage must be fluent in both traditional geodesy methods (the latter, one way or another, are and will be used in surveys, design, construction and operation), and new modern ones, high-performance methods of engineering and

geodetic work. An engineer must be able to work both with traditional types of engineering and geodetic information - topographic maps and plans, and with their electronic analogues - digital maps, which are the basis of GIS, digital (DTM) and mathematical (MM) terrain models, on the basis of which system automated design of engineering objects at the CAD level. When carrying out surveys of engineering objects (railways and highways, logging roads, canals, pipelines, etc.) for modern design at the CAD level, initial engineering and geodetic information is collected over a wide range of variations of competitive options, which leads to a sharp increase in the volume of geodetic work

In this regard, a civil engineer at the present stage of scientific and technological progress must not only master traditional methods of geodetic work and be able to work with conventional geodetic instruments (orientation and measurement of line lengths with measuring tapes, measuring vertical and horizontal angles with theodolites, measuring elevations between terrain points with optical levels, performing topographic surveys of the area, etc.), but it is also necessary to master various types of aerospace surveys, methods of ground-based digital photogrammetry and electronic tacheometry, methods of ground-based and airborne laser scanning, methods of ground-space geodesy, as well as technologies for automated processing of field measurement results. Modern construction production is impossible without the widespread use of modern geodetic methods for laying out engineering structures on the ground, ensuring high accuracy and excluding gross miscalculations; methods of operational control of construction work and geodetic control of the operation of construction machines and mechanisms. For these purposes, laser technology, satellite navigation systems, etc. are widely used in the construction of engineering facilities. Engineering and geodetic support of design and survey work, construction and operation of highways, bridges, transport tunnels, airfields, irrigation systems, forestry facilities and forest engineering has its own specific features. Engineering or applied geodesy, which developed from the described geodetic branches, turned into a vast science that successfully solves problems in various sectors of the national economy. For example, in agriculture, the land and forest cadastre is based on the work carried out by engineering geodesy to determine crop areas, boundaries of land plots allocated for irrigation and land reclamation, water areas, forest felling and other objects that determine the scientifically based formulation of land use. In river navigation, the task of studying a river as a waterway falls to the share of geodesy, namely, surveying the river valley and its bed, determining the fall (slope) of the river bottom, determining the cross sections and topography of the river bed, determining the speed of water flow in the river at various depths, monitoring the water level. Geodetic work helps to draw up a map of the areas of their probable occurrence prior to the exploration of minerals, to conduct geological and geophysical exploration to determine the locations and quantities of their reserves, as well as to carry out ground and underground surveys, allowing for the correct and economical design of mining operations. The role of geodetic work in

urban construction and the construction of various engineering structures is great. Currently, the development of cities and towns is impossible without a detailed topographic plan, on which all ground, underground and above-ground structures are plotted and on which streets, blocks, and houses are laid out.

The plan also shows the terrain in detail. During the construction of plants, factories, high-rise buildings and other engineering objects, geodetic measurements are carried out from the beginning to the end of the construction work, namely: they precede the design, participate in surveys on the ground when choosing a site for construction, accompany installation work, monitoring their correctness carrying out, and upon completion of construction, settlements and deformations of individual parts of the created structures are recorded. Geodetic measurements are of great importance in the design and construction of hydraulic structures - dams, reservoirs, hydroelectric power stations, shipping locks, water intake and drainage structures. Measurements to determine the settlement of hydraulic structures and monitoring their technical condition are carried out both during the process and at the end of the work. This is not a complete list of the range of problems solved by engineering geodesy. Similarly, the development of astronomy as a science also served as the basis for the emergence of independent sciences, such as astrometry, celestial mechanics, astrophysics, cosmogony, cosmology, stellar astronomy, theoretical astronomy, radio astronomy and a number of others. Despite the fact that the above sciences delved into their fundamental research and moved away from each other so much that they lost all connection with each other, yet astronomy and geodesy as a whole closely interact with each other in solving many scientific problems and their application in the national economy of the country . Thus, the joint solution of scientific problems by astronomy and geodesy allows us to understand and study more deeply the Universe and the Earth on which we live, and contribute to the development of humanity as part of the Universe. and upon completion of construction, settlements and deformations of individual parts of the created structures are recorded. Geodetic measurements are of great importance in the design and construction of hydraulic structures - dams, reservoirs, hydroelectric power stations, shipping locks, water intake and drainage structures. Measurements to determine the settlement of hydraulic structures and monitoring their technical condition are carried out both during the process and at the end of the work. This is not a complete list of the range of problems solved by engineering geodesy. Similarly, the development of astronomy as a science also served as the basis for the emergence of independent sciences, such as astrometry, celestial mechanics, astrophysics, cosmogony, cosmology, stellar astronomy, theoretical astronomy, radio astronomy and a number of others. Despite the fact that the above sciences delved into their fundamental research and moved away from each other so much that they lost all connection with each other, yet astronomy and geodesy as a whole closely interact with each other in solving many scientific problems and their application in the national economy of the country . Thus, the joint solution of

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Conclusions:

Modern geodetic technologies play an important role in the construction and operation of engineering facilities. They allow you to obtain geodetic information with high accuracy and speed, which is a necessary condition for modern construction. Civil engineers, land reclamation engineers and forestry engineers must be able to work with modern surveying technologies to perform their tasks more efficiently and effectively.

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