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DEVELOPMENT OF MEASURES TO ENSURE TRAFFIC SAFETY IN THE CENTER OF FERGANA CITY

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A B S T R A C T

This article describes measures developed to ensure road safety in the central part of the city of Fergana. The development of the automobile factory in our republic, the production of cars, and the ownership of personal cars by the population are the reasons for the daily increase in the number of cars. The rapid increase in the number of cars requires the widening of highways and the design and construction of high-rise buildings to accommodate them.

K E Y W O R D S

Intersection, center, settlement, device, traffic, security, provision, road, movement.

Introduction

When studying the structure of parking lots based on analysis, it became clear that they do not meet the requirements of urban planning, occupy a lot of space as a result of their irregular placement, and prevent the general appearance of the city from meeting the requirements of modern architecture. Many issues of vehicle storage in residential areas have not yet been thoroughly studied and are waiting for their solution. In current conditions, the permanent accommodation of vehicles is not fully justified [1-5].

In the last 10-15 years, the number of vehicles, especially private cars, has increased dramatically, not only creating traffic jams in all parts of the city, markets, shopping centers, cultural and household facilities and many other places, but also the lack of special areas. it has been. The edges of the street are turning into parking lots. The increase in the number of such cars causes a number of inconveniences and problems to the population. It can be seen that the organization of car parking spaces in the territory of our existing cities is the most important thing today**current issues**is recognized as one of [6-11].

Currently, our country is among the countries with developed automobile industry. The number of cars is increasing day by day in our beautiful Fergana, which is a special sight of our valley. Today, one of the busiest and most crowded places in the city of Fergana is the farmer's market located in the center

of the city. In order to meet their needs, residents visit the market area in large numbers of cars, which in turn leads to an increase in the need for modern parking lots. Taking into account the above, we aimed to design a new multi-storey, modern parking lot in the center of the city of Fergana [12-15].

If we look at the history of the development of car storage facilities, this issue has become a global problem year after year.By the beginning of the 20th century, this problem came to the fore in large cities of the United States of America, in particular, in New York, Chicago, Cincinnati, and Detroit, mechanical car storage areas were first established as a solution to this problem (Fig. 1).

The conducted analyzes show that the growth of the number of motor vehicles in the world in 1990 reached a total of 400 million (80 motor vehicles per thousand people), now the number of motor vehicles is about 900 million (every about 150 vehicles per thousand people). In our republic, this indicator reached 1.3 million in 2000 (an average of 50 motor vehicles per 1000 people).

Figure 1. USA 1932

Currently, the number of motor vehicles in the city of Fergana has reached 500-800 thousand. This shows that the city population has an average of 100-130 vehicles per thousand people. In the next 10 years, this indicator is expected to increase even more in our Republic. As a result, it is expected that our country will join the ranks of countries such as Germany, America, England, France and Japan with a developed motor transport industry. But as the saying goes, "everything has its good and bad sides", it is clear that the increasing number of motor vehicles in our Republic today requires us to build many parking lots in urban areas.

Today, we can see that in many districts, micro-districts and districts of the city of Fergana, there are not enough places for storing vehicles in an irregular state. Currently, we have 5-6 public garages in the city of Fergana. We can see these parking lots near markets, in front of shopping complexes. Today, we can witness the fact that parking lots are located in an irregular condition in the rest of the city of Fergana, which spoils the aesthetics and appearance of the city. When we study the analysis of temporary and permanent storage places for cars in residential areas, residential districts and micro-district neighborhoods, if we see the areas of existing commercial complexes in Fergana, it is necessary to properly organize the movement of vehicles around this area.

In the above mentioned areas, we found that there are many areas that are very convenient for us to build garages and parking lots and can be easily used now, and we have explored them.

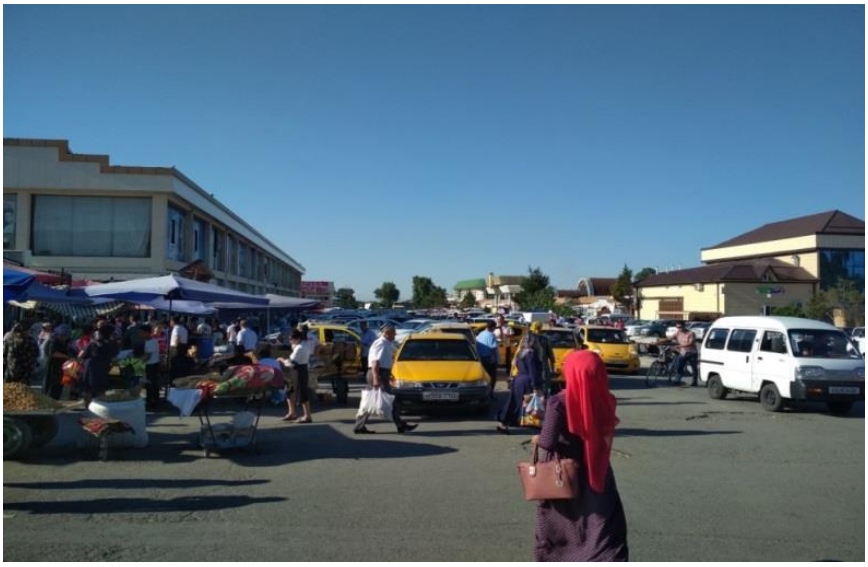

Figure 2. Parking situation around Fergana city farmers' market (August 2023)

Based on a number of researches, Fergana city got information about the farmer's market that the owners of private vehicles park their vehicles disorderly in the second streets and cause various inconveniences. The area in front of the market, back and sides, and the surrounding areas of the market were studied. Taking these problems into account, decisions are being made today in our city by our President. In particular, the Presidential Decree No. PQ-59 of February 16, 2023 on measures to reform the public transport system has set a number of tasks.

In our research conducted in the area of the market alone, it became known that 500-600 cars are stored in the parking lots and their surroundings. In this area, we can observe irregularly arranged cars (Fig. 2).

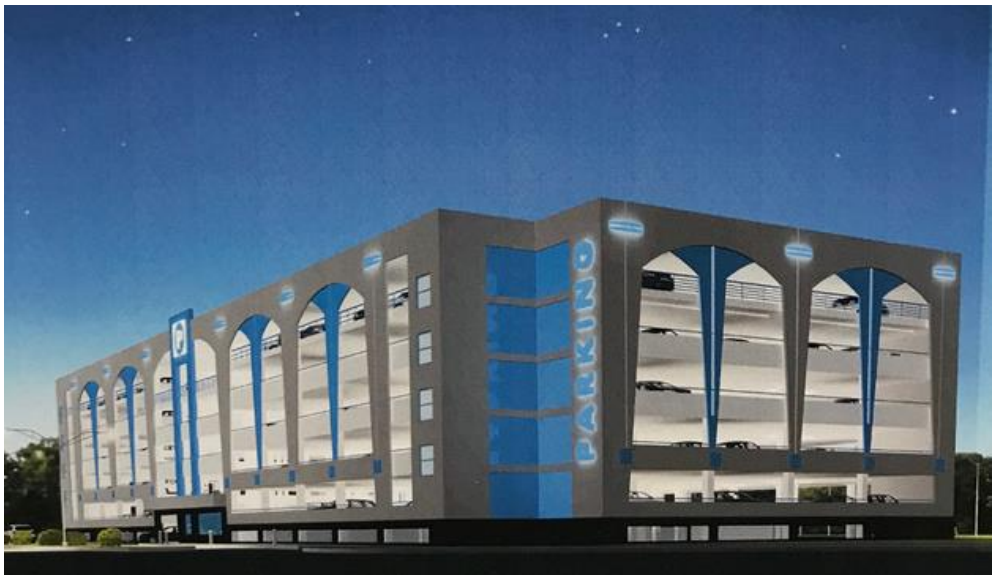

Figure 3. Complex designed parking lot

There is a question of comprehensively analyzing the problem of the future automobileization of the construction of car parking spaces in the city and creating a system of its solution in time, which will satisfy the needs of the population in movement and correspond to the set of socio-economic conditions and the requirements of urban planning (Figure 3).

In short, the ongoing scientific research is aimed at solving today's pressing issue.

References

1. Sh.M.Mirziyoyev. 16.02.2023 yil. PQ-59 sonli “Jamoat transport tizimini isloh qilish chora-tadbirlari to‘g‘risidagi” qaror.
2. Обидов, Н. Г. (2019). Фрезерные дорожные машины в условиях эксплуатации в жарком климате узбекистана. In *Подъемно-транспортные, строительные, дорожные, путевые машины и робототехнические комплексы* (pp. 377-379).
3. Таджиходжаева, М. Р., & Обидов, Н. Г. Конструктивные системы в природе и дорожных машинах. *Рецензенты: генеральный директор РУП «Гомельавтодор» СН Лазбекин*, 124.
4. Рузибаев, А. Н., Обидов, Н. Г., Отабоев, Н. И., & Тожибаев, Ф. О. (2020). Объемное упрочнение зубьев ковшей экскаваторов. *Universum: технические науки*, (7-1 (76)), 36-39.
5. Набиев, Т. С., Обидов, Н. Г., & Умаров, Б. Т. (2021). О методике оценки физико-механических свойств картофеля. In *Приоритетные направления научных исследований. Анализ, управление, перспективы* (pp. 20-24).
6. Bahadirov, G., Umarov, B., Obidov, N., Tashpulatov, S., & Tashpulatov, D. (2021, December). Justification of the geometric dimensions of drum sorting machine. In *IOP Conference Series: Earth and Environmental Science* (Vol. 937, No. 3, p. 032043). IOP Publishing.
7. Fayziev, P., Zamir, K., Abduraxmonov, A., & Nuriddin, O. (2022). Solar multifunctional dryer for drying agricultural products. *ACADEMICIA: An International Multidisciplinary Research Journal*, *12*(7), 9-13.
8. Bahadirov G.A., Obidov N.G‘., & Sultonov T.T. (2021). Ildiz mevalarni saralashda resurs tejovchi texnologiyalardan foydalanish. Ресурсосберегающие технологии на транспорте, 22 (1), 101-104. doi: 10.24412/cl-36897-2021-1-101-104
9. Gayrat, B., Bekhzod, U., & Nuriddin, O. (2022). Determination of angles of sliding and rolling of potato tubers on surfaces consisting of different materials. *Universum: технические науки*, (4-12 (97)), 24-26.
10. Бахадиров FA, У. Б. (2021). Обидов HF Картошка туганакларини саралаш учун янгича конструкциядаги барабанли саралаш машинаси. *Научно-технический журнал ФерПИ. Фергана*, (1).
11. Nozimjonovna, O. I., & Xusanboyevna, I. D. (2022). Zamonaviy trikotaj to‘qimalarining hozirgi kundagi ahamiyati. *Новости образования: исследование в XXI веке*, *1*(4), 577-580.
12. Nozimjonovna, O. I., Madaminovich, K. K., Umarjanovna, R. S., & Maqsud o‘g, E. M. M. (2022). Analysis of physicomechanical parameters of new patterned knitted fabrics obtained on knitting machines with two circular needles. *International Journal of Advance Scientific Research*, *2*(09), 1-9.
13. Obidova Irodaxon Nozimjonovna. (2022). Constructive analysis of modern circular needle knitting machines. American Journal of Applied Science and Technology, 2(06), 75–79.

14. Qaxxorovich, N. Q., Juraevich, Y. N., Nozimjonovna, O. I., & Baxtiyorovna, N. B. (2021). The Perspective Directions For The Development Of Sericulture. *The American Journal of Engineering and Technology*, *3*(09), 24-27.
15. Uralov, L., Obidova, I., Nizamova, B., Kholiqov, K., Ohunov, R., & Mamatova, X. (2023, June). Analysis of the effect of technological parameters of physical and mechanical indicators of two-layer knitted fabrics. In *AIP Conference Proceedings* (Vol. 2789, No. 1). AIP Publishing.