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THE IMPORTANCE OF DESIGNING AN EFFICIENT CITY TRANSPORT INFRASTRUCTURE (city of Samarkand as an example)

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Abstract:
Transport infrastructure is the main element of any city. It allows people, goods and services to travel from one place to another. Our cities cannot function without efficient transportation systems and infrastructure. However, transportation is a major cause of greenhouse gas emissions and air pollution.
With such a central role, it is vital that the transport infrastructure is in good condition and efficient for the future.

Keywords: transport, street, traffic, bridges, railway and tram, pedestrian.

Introduction

Samarkand is on our planet the most ancient from cities one is, Rome and Athens with is the same age. He is 2750 years old increased City each always real oriental of hospitality really example that it was with separate standing Here one how many the nation representatives always no problem living came Samarkand usually "Eastern It is called " Babylon".
In it as if huge as in the mirror road reflection is enough A lot generations pressing past road. Rich events of the city, ups and downs and reductions, expensive findings and exhibits, ancient monuments initial people this in the area a thousand years before live that they started to confirm possibility will give.
Samarkand city of Samarkand region administrative center is considered In 1925-1930, Samarkand was short time the capital task done

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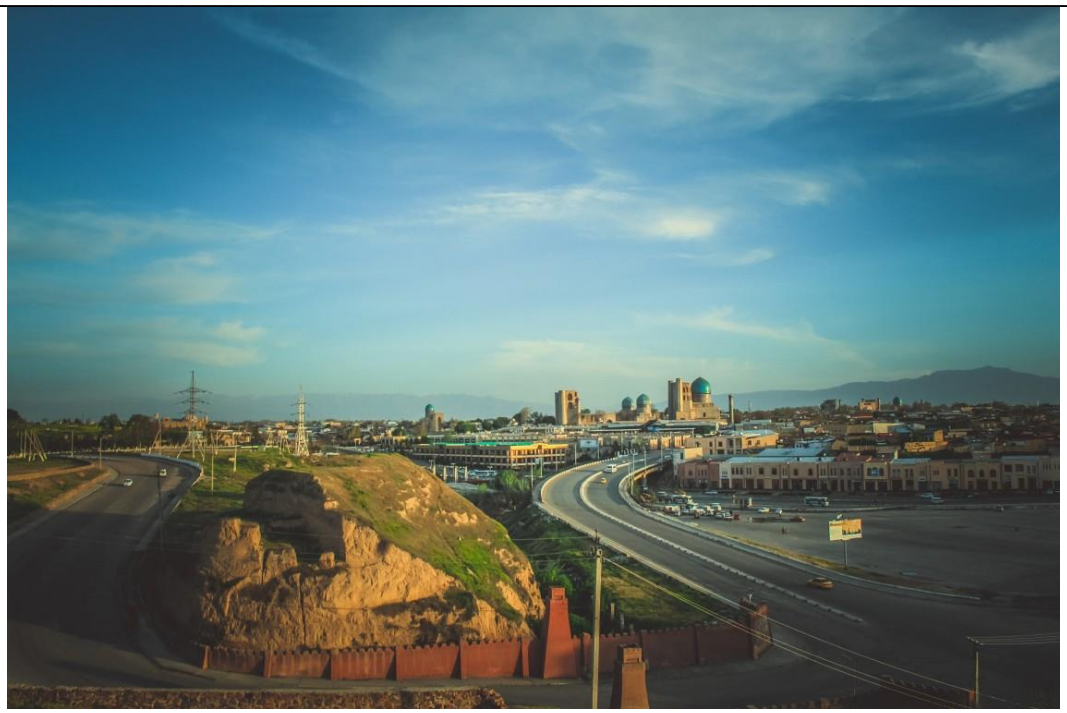

Transport infrastructure each how state of success main structural is part of This is har how of the economy is the basis and without it countries people and loads one from the place second to the place transport for never how road won't stay

Transport infrastructure each how of the city main is an element. It is for people and goods and to services one from the place second to the place travel to do enable will give. Efficient transportation systems and without infrastructure our cities doesn't work However, transport greenhouse gases waste and the air pollution main is the reason.

Such main role with transport infrastructure good in case and the future for efficient to be very important

Transport infrastructure five type

Transport infrastructure is people and of cargo movement for the basis provider stationary devices, structures and networks. City transport infrastructure five wide title under sum up can :

- Roads
- Bridges and tunnels
- Iron road and trams
- Water ways
- Bicycle ways and pedestrians corridors

Har different type of transport infrastructure separate

urban transport infrastructure When planning, urban planners today's in the day city transportation needs of the population and this needs how development possible account to get need Only so to do through they are in the future sustainable transport solutions present we reach need has been infrastructure planning can

Roads

Roads we each day which uses the most wide distributed transport infrastructure is considered They are separately places each other with tie up and of people travel that they do facilitate for is used. Roads three to the category to be can : car roads, highways roads and local roads

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Trunk roads transfer ability and speed according to the most big road type is considered They are limited access to the points have and all types of vehicles, including trucks and buses by use can Arterial ways to highways than more access points provides, but they lower to capacity has also slower to speed have.

Local roads arterial and to highways than less access provides, smaller to places service does and to both to a lower speed than have

Bridges and tunnels

Bridges to people river, valley or road such as obstacles on foot or in a vehicle cut to pass possibility giving are structures. Bridges two main type available : suspended bridges and belt bridges. Suspension bridges of the bridge weight raise for from cables uses a belt bridges while of the bridge each two at the tip hole harvest doer from belts uses - this each from the side less weight gives, this while them suspension to the bridges than much stable does.

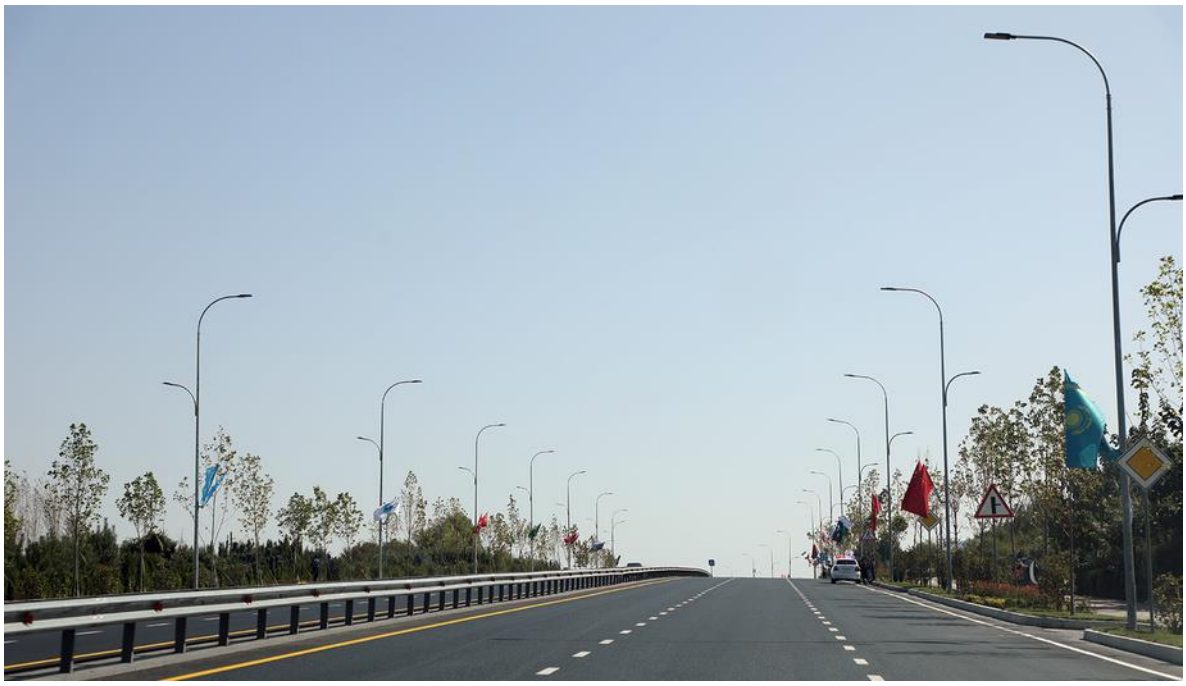

Figure 1. Transit passing vehicles to the city of Samarkand access the way

The tunnel is pedestrians, vehicles and / or trains for land under transition place Tunnel ground from underneath passing subway or highway to be can

Iron road and trams

Iron roads load and passenger transport for built Iron road from transport the most wide spread out use city in places they are car the way with not connected to places fast and efficient access provides. They are to other modes of transport than more efficient and cleaner the type of transport provides. A lot numerous people transportation, iron roads our on our roads traffic eliminate to do and in our cities noise and the air pollution to reduce help will give.

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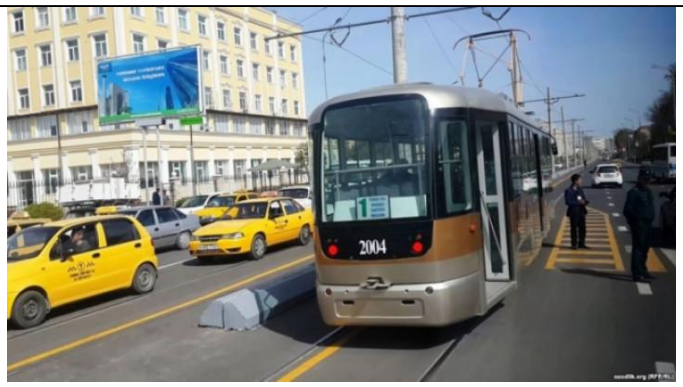

Tram electricity energy with working iron road of transport one type being them of the world many in cities to find can City trams two to the category divided by : street in the middle rails across movable the street trams (buses as) and defined route across rails across movable trams.

Water ways

Water ways centuries during load and people transport for used They are one from the place second to the place go to himself special method offer they do

Some water ways natural, others while a person by created Natural water to the roads rivers, streams and streams enters Man-made water to the roads canals, ditches and trenches enters

Har one water of the road to himself special positive and negative sides there is this while its transport infrastructure shape as to use ok does An example for, naturally water ways most of the time to man-made ones than more water flood with depend

Bicycle ways and pedestrians corridors

Bicycle corridors and pedestrians corridors city across on a bicycle to walk those who want for machines or pedestrians on the way obstacle from being without worrying this makes it easier. Also they to cyclists on a bicycle their driving for sure the way present reach through to them safe to be help will give. Bicycle ways out of the way separation possible or they are his next to to be can However, pedestrians protection to do for they are always from the corridors separation need

Transport infrastructure planning when it comes to things it gets complicated

Future transport infrastructure planning complicated the work is the decision acceptance from the doers many factors account to receive Demand does Husband availability, transport systems to build and of them use costs, public opinion such as many restrictions there is.

To the planners this decisions acceptance in doing help to give for one how many tools work developed This tools another in places done increased affairs and each one in the situation what good performance possible about information to give through future transport infrastructure planning with depends some complexities solution to do can

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City transport planner how from tools Do n't use them the most complicated the question overcame transitions should : we don't know things how do you plan

Transport in planning solution to be done need has been another questions :

- What kind of transport system do we have? do we want
- His stable that how trust harvest do we do
- This new the system to build with depends expenses how much
- We are from scratch let's start do you need or now there is things with our work do you need ?

these questions answer to give difficult, but to a good transport system from reaching before to them answer to give need To this reach while never one of us out of consideration outside castle we can't.

References

1. Rakhimov, A., & Khaidarov, Sh. (2023). Teoreticheskie and eksperimentalnye issledovaniya system seismozashity s vyklyuchayushchimisya svyazami. Tendentsii i perspektivy razvitiya gorodov, 1(1), 234–236. izvlecheno ot https://inlibrary.uz/index.php/prospects-urban-development/article/view/27344
2. Khaidarov, Sh., & Achildiev, R. (2023). The organization odnostoronnego dvizheniya ts na dorogakh ili ix uzkatkhx. Trends and perspective development of cities, 1(1), 91–94. izvlecheno ot https://inlibrary.uz/index.php/prospects-urban-development/article/view/27246
3. Haydarov, Sh. (2023). FORMIROVANIE BAZY DANNYX PREDUPREJDENIY O DOROJNYX ZNAKAX S ISPOLZOVANIEM ALGORITMA RASPOZNAVANIYA OB'EKTOV. Predprinimatelstva i pedagogy, 5 (1), 103-112.
4. Berdikulov, A. A. (2023). TIPY TURISTIChESKIX GRADOSTROITELNYX OBRAZOVANIY. OBRAZOVANIE NAUKA I INNOVATSIONNYE IDEI V MIRE, 18 (6), 116-123.
5. Utkirovna, TK (2023). Calculation of Retaining Walls on City Riversides. Pioneer : Journal of Advanced Research oath Scientific Progress, 2 (3), 46-52.
6. Sh, F. (2023). PARKING PLACES AND GARAGES IN CITIES. Journal of new century innovations, 24 (2), 52-56.
7. Karimova, ZZ (2023). WAYS TO INCREASE THE SAFETY OF PEDESTRIAN MOVEMENT. Journal of new century innovations, 24 (2), 44-51.
8. Akram, I., & Zukhra, K. (2022). Problems and Prospects of Transport Development in Samarkand. Global Scientific Review, 3, 19-22.
9. Pardaev, O. N., Berdikulov, A. A., Khaidarov, Sh. Z. O'., & Shahrukh, R. O'. B. (2021). Developing in cities road movement speed Alternativeization methods. Science oath Education, 2 (6), 313-319.
10. Madiev, FM, & Khaydarov, SZ (2020). SHAKHRISABZ CITY–ARCHITECTURAL HISTORICAL RESPONSIBILITIES. FM Madiev, & SZ Khaydarov (Editor), Zbior articles scientist recenzowanych. in, 6, 58-61.
11. Madiev, FM, & Sh, N. (2019). Improving traffic in Samarkand. In VI International scientific-practical conference "GLOBAL SCIENCE AND INNOVATIONS (pp. 71-73).

Volume 2, Issue 3 March - 2024 **ISSN (E):** 2938-3803

12. Saidova, N., & Khaidarov, Sh. (2019). VLIYANIE NA SOSTOYaNIE GORODA, CHARACTERISTIKA I VIDY OTXHODOV, OBRAZUYushchIXSYa NA PREDPRIyatiYaX PO PROIZVODSTVU KIRPIChA. In NAUCHNAYa DISKUSSIYA SOVREMENNOY MOLODYOJI: AKTUALNYE VOPROSY, DOSTIJENIYA I INNOVATsII (pp. 37-39).
13. KELDIYAROVA, G. F., Yakubov, T. B., OLIMOVA, D. A., & Khaydarov, Sh. Z. (2018). ECOLOGICAL ANALYSIS I PROVEDENIYA PLANIROVOChNYX, STROITELNYX RABOT V SAMARKANDSKOM OBLASTI. In NAUCHNAYA DISKUSSIYA SOVREMENNOY MOLODYOJI: AKTUALNYE VOPROSY, DOSTIJENIYA I INNOVATsII (pp. 177-179).
14. Shakhbozjan Khaidarov. Proposals For Solving Transport Problems In Large Cities. EUROPEAN JOURNAL OF GEOGRAPHY, REGIONAL PLANNING AND DEVELOPMENT, 1 (1), 10 7 -11 1.
15. Eshatov, I. K., & Achildiyev, R. M. (2023). PLACEMENT OF COMMERCIAL AND DOMESTIC SERVICE COMPLEXES TAKING INTO ACCOUNT NATURAL AND CLIMATIC REGIONS IN THE REGIONS OF UZBEKISTAN. JOURNAL OF ENGINEERING, MECHANICS AND MODERN ARCHITECTURE, 80-86.
16. Makhmadalievich, A. R., & Payzullayevna, S. N. (2023). Transport in Urban Planning. Journal of Engineering, Mechanics and Modern Architecture, 2(4), 17-22.
17. Achildiyev, R. M., & Otabekova, D. (2022). Yirik shaharlarda transport muammolarini hal etishda xorijiy tajribalar. Academic research in educational sciences, 3(11), 496-502.
18. Boynazarov, M., Boynazarovich, B. M., & Muysinovich, M. F. (2023). SMART CITY AND INNOVATIVE IDEAS. JOURNAL OF ENGINEERING, MECHANICS AND MODERN ARCHITECTURE, 332-337.
19. Bardakçı, B. N. (2022). Mahalle olgusunu yeniden inşa etmek üzere akıllı bir yaklaşım denemesi (Master's thesis, Konya Teknik Üniversitesi).
20. Шукуров, И. С., Луняков, М. А., & Халилов, И. Р. (2015). Организация инженерно-технического обустройства городских территорий. М.: Издательство АСВ, 23(4).