IMPACT OF TRANSPORTATION SAFETY ON ECONOMIC GROWTH AT MARITIME INDUSTRY IN THE UAE

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ABSTRACT

The sustainable growth of society is connected to the safety of transportation. The analysis of the impact of transportation safety on economic development is therefore presented in this research against the backdrop of coordinated development. The degree of combination between transportation safety and economy as well as their interaction are determined in accordance with the various stages of transportation safety development. Additionally, while supporting other important long-term transportation goals, such as enhancing safety, energy independence, and environmental sustainability, governments must prioritize productivity growth. Investments in safe, efficient transportation infrastructure increase connectivity and reduce cost, which benefits the economy.

Keywords: *Transportation Safety, Economic Growth, Maritime Industry UAE.*

1. INTRODUCTION

The transportation industry, which makes extensive use of infrastructure, is a vital part of the economy and an often employed tool for development [1]–[3]. This is especially true given the

global economy's increased dependence on the movement of people, goods, and information and communication technologies [4]–[6]. The amount and caliber of transportation infrastructure are directly tied to the level of economic development [7]–[9]. High rates of growth are frequently linked to densely inhabited infrastructure and transportation hubs [10], [11]. Effective transportation networks create chances and benefits for society and the economy, which have beneficial ripple effects including increased employment, market accessibility, and investment [12]–[15]. However, this research is mainly done to know the impact and significance of transportation safety on economic growth and what factors can assist the transportation sector to maintain safety and security.

2. THEORETICAL FRAMEWORK

2.1.Transportation safety

Transportation is a way to communicate or move from one place to another [16], [17]. Without an effective transportation system, the people of a country cannot easily make connections with each other [18]–[20]. In the current time and because of technological development the process of transportation has become so easy that saving the time of humans and opening many opportunities to the world [21]. Transportation safety is important and is significant in developing an economy [22]. In addition, transportation is the main way to communicate with local and international bodies to conduct business [23]–[25]. It can take place in three forms like road transportation, air transportation, and water transportation [26], [27]. In case a country has developed a high technology dependence transportation system then they provide their serval industry lots of opportunities to conduct business [28]–[30]. In addition, especially to conduct global business, those countries play a significant role because of the safe and secure transportation system [31], [32]. In UAE the water transportation is highly developed to provide the maritime industry to be successful in their way [33], [34]. The importance of transportation safety is to protect the national interest of the country and ensure the citizens of the country are secure through their actions [35], [36]. Transportation safety provides not the only opportunity for economic growth in business but also provides safety to the passenger [37], [38]. In addition, in the case of transporter property, safety is essential to safely deliver the time from one place to another and make the deal successful [39]–[41]. The more the transportation of a country will be safe, the safety and innovative technology the people of the country will get advanced facilities [42]. Transportation safety plays an important role in the development of the economy of any country [43].

2.2. Economic growth

Economic growth refers to the increase in the amount of service and goods produced at a particular time per head in population [44]–[46]. It refers to the aggregate of economic production. An increase in economic growth measures the increase of the gross domestic product (GDP) of a country [47], [48]. It references the increase in the value of the national output, expenditure, and the country's income [49], [50]. The higher a country's economic growth, the higher will be the living standard of that country [51], [52]. Further, it also denotes an increase in real income and development in useful areas like health and education [53]. UAE has a strong economic infrastructure and in 2019 the growth of the UAE economic forecast was 3.7% which was a positive outlook of their economic performance [54]. In 2017 their growth of GDP was 0.80% and the annual GDP percentage was 8.20%. In the economic growth, the contribution of the transportation sector is 5.40%. The higher economic growth lowers the risk of unemployment [55], [56]. The firms in the economy start to expand and try to impose more employees for creating opportunity [57], [58]. In addition, the positive growth in economic development also reduces the borrowing from the government [25], [59]. Because economic growth creates higher tax review and so that less money needs to be paid on the benefits such as unemployment [60], [61]. The public service provided by the government can be improved because of the higher economic growth [62]–[64]. The higher tax revenues the government can spend on the welfare of health education and other projects provide better life opportunities [65]–[67]. The technological infrastructure of the country can be improved by spending money on research and development by firms [68]. It reduces the poverty of a country and provides a better life experience that will open up new ways to see their life and enjoy the facilities [69], [70]. Therefore, economic growth is a vital factor for a country to ensure an advantage in the market [71], [72].

The main idea of the theoretical framework is to identify the impact of transport safety and the infrastructure of power development on economic growth in the context of the maritime industry [73]. In addition, it will examine the main drivers of the maritime industry transport [9], [74]. It will analyze the relation of the dependent variable and the independent variable and how both influence each other [75]–[77]. It also focuses on innovative transportation policies that will enhance the change to ensure the growth of the economy in the context of the maritime industry.

3. LITERATURE REVIEW

Transportation, logistics, and this kind of infrastructure influence economic growth. Quality and secure transport provide access to the local and international market easily [78], [79]. In addition, efficient transport can provide cheaper service so that more service can be taken [80]. Large scale transport encourages the local and international economy to encourage the logistics business to grow [81], [82]. A sound and secure transportation system lower the cost of moving goods and people [83], [84]. Thus it increases the productivity of the economy [85]. These as early discussions an increase in the economy increases the living standard of the country [82], [86], [87]. The time of assessing the expenditure related to transportation safety the main concern needs to be produced as it is the central component of the economy's growth [88]–[90]. High productivity investment in the safety of transportation ensures the economic welfare of a country [91], [92]. Thus it also creates many job opportunities and contributes to long-term economic development [93].

3.1. Relation and Impact of transportation safety in economic development in the maritime industry of UAE

The maritime industry is related to shipping, ocean, navigation, or any other activation in the sea surface [94], [95]. In the developing countries, the population is going faster, in that context the low cost effective maritime industry and transportation play a significant role in economic growth and sustainability [96]. In the current economic and global context of UAE, the maritime industry is the backbone of the global trade and economy [97]–[99]. The water transportation system of the UAE provides regional and international hubs for the purpose to provide opportunities for economic development [100]–[102]. In addition, it includes the development of the port, maintenance, and growth of dry docks, ship operation, maritime protection, and safety [103]. In the country UAE, they have more than 16 seaports and in the case of port terminal containers, they have more than 9 [104], [105]. As per the world's shipping council in UAE two of the world's 50 port containers are located [106].

In UAE there are some major seaports and waterways for example; seaport of Mina Rashid emirates and location in Dubai, Port of Jebel Ali emirate and location in Dubai, Port of Mina Khalid location and emirate in Sharjah, Port of Mina Zayed location, and emirate in Abu Dhabi, Port of Khorfakkan location in Khorfakkan and emirates in Sharjah, Khalifa Port location and emirates in Abu Dhabi and many others [107], [108]. Their water ports are reactive in handling logistics and cargo all over the world. It was estimated that almost 61% of cargo from the GCC

countries arrived via the port of UAE [109]. In the UAE the commercial port can consist of 310 breathe and have the capacity of cargo to cover 80 million tonnes [110], [111].

They also provide the ferry service all over the country [85], [112]. The transport and safety are so developed in the country that contributes overall economic development by 13.80% in the year 2016. In addition, it has a value of around 45,395 in 2017 and a percentage of contribution of 14.10 % in 2017. Thus it helps to develop the GDP of the country and provide a high value to the citizens' lives [106], [113]. In addition, UAE provides a high priority to developing their transportation infrastructure to ensure that people get attached to their system easily and invest in their business [114], [115]. Their higher GDP growth is an indication that their too much development in the transposition in terms of the maritime industry opens up the path to making connections with the outer world [116]–[118]. Again, the main source of their economy is oil that also exports with the help of their maritime industry and excellent transportation system [119].

For sustainable economic development transport and economy are linked with each other [120], [121]. The external dimension of the economy provides an economy to grow fast. In case transportation lagging behind then, it loses the international and global market potential and loses competitive facilities in the market [111], [122]. In order to provide diversification and share with a country, the influence of transportation and its safety is important [123], [124]. Based on that, one can tackle the initiative to be innovative and creative in other sectors that will open up new business paths for expansion and economic growth [125]–[127]. Boosting economic relations between the two countries is based on secure transportation and the cost-effective way by taking the help of the maritime industry. With the facilities of the waterway, one can straighten their supply chain distribution with other countries and ensure the quality transport on time [128]. Because of the navy safety, there is no risk of the theft or loss of the product that ensures the secure transaction. On the other hand with technological development with proper weather forecast the news related to seastorm, rain can gather and precaution and awareness can be spread [129], [130]. In other modes of transportation in the aviation industry or in road transport, the risks are high of theft or other cases like the accident, attack, or any natural calamity [131]–[133].

Compared to the maritime industry, transportation is easy and cost effective [134]. It also reduces the impact of environmental pollution and traffic on the road [48], [135]. Because of the influence of transport, economic growth is possible and it also creates job opportunities in the country in different categories and provides youths of the country to explore the passion and implement their

new innovative ideas to develop the transportation that will contribute to local and international development [136]–[138]. The job opportunities are also a type of influence in the economy that sincere the living standard of humans of the country and ensure the competitive position of the country worldwide [50], [134], [139]. The savings in cost can be invested in other areas of economic development such as education, research and development, and the health of the country that will create more engineers, doctors, scientists who will contribute to future secure transport and increase the standard of living [60].

3.2. General Research Model

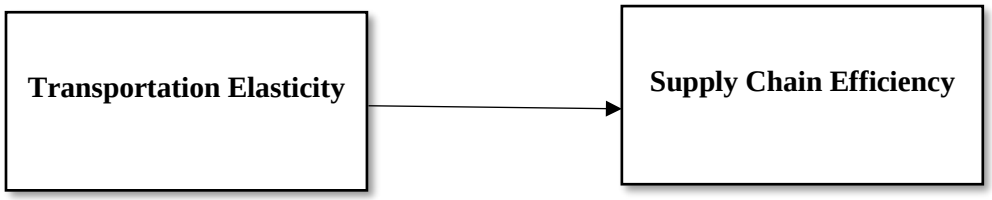

Figure 1: Conceptual Research Model

4. DISCUSSION

Transport and the economy are intertwined for sustainable economic growth. If transportation is not kept up with, it will miss out on potential global and international markets as well as competitive facilities. The impact of transportation and its safety is crucial for sharing with a nation and offering diversification. Based on that, one might take the initiative to be inventive and creative in other fields, which will open up new business opportunities for growth and expansion.

Using the maritime sector's assistance will help to increase the two nations' economic ties by providing safe and economical transportation.

Moreover, the promotion of increased productivity, which results in the creation of higher-paying jobs throughout the entire economy, is one way that transportation policy can have a large and long-lasting impact on total economic growth. However, unless they increase long-term economic output, construction jobs and expenditures on steel and concrete are actually economic costs rather than advantages in the near run. Proposals to spend money on surface transportation and its safety measures with the primary goal of generating jobs pose a severe risk to the country that we will rush to complete projects that won't necessarily boost the economy. This research has provided several evidences to support the notion that transportation safety will result in the creation of more employment, lifesaving, technological development and growing economy.

5. CONCLUSION

Economic growth is made possible by the influence of transportation, which also generates employment opportunities in a variety of fields and gives young people in the nation the chance to follow their passions and put new, creative ideas into practice to develop the transportation that will aid in regional and global development. The availability of jobs is another factor in the economy that affects how well off people are in a nation and how competitive it is on the global stage. Moreover, transportation safety can help in protection of life through administration, technology development, and regulation of all modes of transportation.

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