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From Ports to Prosperity: Leveraging Maritime Sector for Poverty Reduction

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ABSTRACT

The maritime sector has the potential to boost economic growth, environmental conservation, and social inclusion, contributing not only to a country's economic development but also to maintaining social and economic balance. Ports play a significant role in increasing the welfare of communities and providing job opportunities. This article highlights the pivotal role of the maritime sector in reducing poverty by generating employment and creating economic value. The employment opportunities and economic value provided by ports play a crucial role in poverty reduction. Using a literature review, the economic significance of ports in Singapore, Panama, Bangladesh, Indonesia, and Nigeria is examined, emphasizing the strength and impact of the maritime sector. These success stories, including Singapore's global trade role, Panama Canal's global impact, Bangladesh's economic development through ports, Indonesia's potential for maritime sector development for growth, and Nigeria's poverty alleviation efforts through ports, are just a few examples. Successful instances underscore the potential of the maritime sector in reducing poverty. By combining economic growth, environmental sustainability, and social inclusivity, this sector can serve as a significant tool in combating poverty.

Keywords: Maritime sector, blue economy, poverty reduction, prosperity

Limanlardan Refaha: Yoksulluğun Azaltılması İçin Denizcilik Sektöründen Yararlanmak

ÖZ

Denizcilik sektörü, ekonomik gelişimi, çevresel korumayı ve sosyal katılımı iyileştirme potansiyeline sahiptir ve ülkelerin ekonomik büyümesine katkı sağlamanın yanı sıra sosyal ve ekonomik dengenin sağlanmasında önemli bir unsurdur. Limanlar, toplulukların refahını artırma ve iş imkanları sunma konusunda önemli bir rol oynamaktadır. Bu makale, denizcilik sektörünün, iş yaratma ve ekonomik değer üretme yeteneğiyle yoksulluğu azaltmada kilit bir rol oynadığını ortaya koymaktadır. Limanların sağladığı iş olanakları ve ekonomik değer, yoksulluğun azaltılmasında önemli bir rol oynamaktadır. Makalede literatür taraması yöntemi kullanılarak; Singapur, Panama, Bangladeş, Endonezya ve Nijerya'daki limanların ekonomik önemi incelenmekte ve denizcilik sektörünün gücü ve etkisi vurgulanmaktadır. Singapur'un küresel ticaretteki rolü, Panama Kanalı'nın küresel etkisi, Bangladeş'in limanlardaki ekonomik gelişimi, Endonezya'nın kalkınma

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için denizcilik sektöründeki potansiyeli ve Nijerya'nın limanlar aracılığıyla yoksullukla mücadele çabaları bu başarı öykülerinden sadece birkaçıdır. Başarılı örnekler, denizcilik sektörünün yoksulluğun azaltılmasındaki potansiyelini ortaya koymaktadır. Bu sektör, ekonomik büyümeyi, çevresel sürdürülebilirliği ve sosyal kapsayıcılığı bir araya getirerek yoksullukla mücadelede önemli bir araç olabilir.

Anahtar Kelimeler: Denizcilik sektörü, mavi ekonomi, yoksulluğun azaltılması, refah

1 Introduction

The maritime sector stands as a formidable force driving global connectivity, economic prosperity, and the alleviation of poverty on a scale that extends far beyond the boundaries of nations. Encompassing a diverse array of industries such as shipping, shipbuilding, ports, fishing, offshore energy production, and marine tourism, this multifaceted sector serves as the linchpin connecting nations, facilitating the seamless movement of goods, commodities, and people across the world.

The concept of poverty encompasses a multidimensional framework that extends beyond mere economic insufficiency. At its core lies income and material deprivation, wherein individuals lack access to fundamental necessities like food, shelter, and healthcare. However, poverty transcends financial constraints, as per the capability approach, acknowledging the limitations individuals face in exercising choices and opportunities essential for a fulfilling life. Social exclusion and marginalization intersect with poverty, highlighting how certain groups face disproportionate challenges due to systemic inequalities and limited access to education, healthcare, and employment. Inadequate infrastructure further perpetuates poverty by hindering access to vital services. Moreover, poverty is marked by vulnerability to shocks and the absence of resilience to recover from crises. Psychological and emotional aspects, including diminished well-being and mental health challenges, also characterize poverty. This multi-dimensional view underscores the necessity for holistic strategies addressing income disparities, structural inequalities, social inclusion, and empowerment to effectively combat poverty and its farreaching implications. Understanding poverty within this broader context is vital in assessing the impact of port-related activities on poverty alleviation and socio-economic development within communities.

In today's interconnected global economy, the maritime industry plays a pivotal role, underpinning the foundation of international trade and serving as a catalyst for economic growth and development. Its significance extends beyond the mere movement of goods; it symbolizes opportunity and progress for communities worldwide. This article explores the profound economic power wielded by the maritime sector and its indispensable role in tackling one of the most pressing challenges of our time: poverty. By delving into case studies from diverse nations—ranging from Singapore's status as a global maritime leader to Panama's important role in global trade and connectivity, Bangladesh's emphasis on empowering fishing communities, Indonesia's strategic use of maritime resources, and Nigeria's success in uplifting coastal regions—the profound impact of the maritime sector in alleviating poverty becomes evident.

Through these case studies, this article sheds light on the transformative potential of the maritime sector. It showcases how strategic leveraging of maritime resources, coupled with sustainable practices, not only generates economic growth but also fosters social inclusion, enhances livelihoods, and contributes to environmental conservation—serving as a blueprint for addressing poverty on both local and global scales. The examination of success stories within the maritime sector illuminates a path forward, demonstrating how investments in infrastructure, skill development, and sustainable practices can unlock opportunities, create jobs, and uplift communities. This article seeks to highlight the pivotal role

of the maritime sector in navigating pathways out of poverty and lays the groundwork for understanding its transformative potential in fostering lasting socio-economic progress.

2 The Maritime Sector's Economic Power and Its Role in Alleviating Poverty

The maritime sector holds significant economic power with far-reaching implications for poverty alleviation. Encompassing shipping, shipbuilding, ports, fishing, offshore energy production, and marine tourism, this multifaceted industry plays a crucial role in connecting nations and facilitating the movement of goods and people worldwide. Through the creation of employment opportunities, skill development, and income generation, the maritime sector becomes a powerful driver for poverty reduction. Nations strategically leveraging their maritime resources witness not only economic growth but also improvements in the livelihoods of coastal communities. The sector's contribution to global trade establishes it as a linchpin of the world economy, while its intricate connections to various industries underscore its potential to uplift societies, foster sustainability, and create lasting positive impacts on poverty-stricken regions. As a nexus of economic development and social progress, the maritime sector emerges as a pivotal force in navigating pathways out of poverty on both a local and global scale.

2.1 Economic Significance of the Maritime Sector

The economic significance of the maritime sector is profound and multifaceted. It encompasses a wide range of activities related to the sea, including shipping, shipbuilding, ports, fishing, offshore energy production, and marine tourism. This sector plays a crucial role in global trade, connecting nations and facilitating the movement of goods, commodities, and people across the world.

The maritime sector acts as the backbone of globalization by enabling the efficient movement of goods across borders. Shipping accounts for the vast majority of international trade, carrying everything from raw materials to finished products. Ports serve as critical nodes in this network, where goods are loaded, unloaded, and distributed to their final destinations. Without the maritime sector, the interconnected global economy as we know it today would not be possible. The maritime sector is the backbone of international trade. Over 80% of the volume of international trade in goods is carried by sea, and the percentage is even higher for most developing countries (UNCTAD, 2021). This includes commodities like oil, natural gas, raw materials, manufactured goods, and more. Additionally, the maritime sector provides a level of economic stability and resilience by diversifying transportation options. In times of geopolitical tensions, natural disasters, or other disruptions, maritime routes can often provide alternative pathways for trade. This redundancy helps cushion the impacts of regional or global economic shocks (UNCTAD, 2018, s. 23).

The maritime sector provides employment opportunities to millions of people worldwide. This includes seafarers, dockworkers, shipbuilders, engineers, and various other professionals associated with maritime activities. The maritime sector significantly contributes to the GDP of many countries, particularly those with extensive coastlines or strategic ports. Revenue generated from activities such as port operations, shipping, and offshore exploration forms a substantial part of national income (International Trade Administration, 2022).

Ports, harbors, and related infrastructure are critical components of the maritime sector. They serve as vital nodes in the global supply chain and facilitate the movement of goods between land and sea transportation. The maritime sector has been a driving force behind technological innovations. This includes advancements in ship design, navigation systems, safety measures, and environmental

sustainability practices. The maritime industry is a driving force for technological innovation. From the development of more fuel-efficient ships to advancements in navigation and safety systems, the sector continually pushes the boundaries of what is possible. These innovations not only benefit the maritime industry itself but also have broader applications in areas like transportation, energy, and environmental sustainability (Munim & Schramm, 2018).

The maritime sector is instrumental in the exploration and extraction of offshore energy resources, including oil, natural gas, and renewable energies like wind and tidal power. Nations often rely on maritime activities for economic stability. Fishing, tourism, and marine research are examples of sectors that are closely linked to the maritime industry. Control over strategic maritime routes and access to important ports can have significant geopolitical implications. Naval presence and maritime security are crucial for safeguarding national interests (OECD, 2020).

The economic significance of the maritime sector extends far beyond mere transportation. It is a cornerstone of global trade, a source of livelihood for millions, a driver of technological progress, and a key player in national and international economies. Recognizing and understanding this significance is crucial for policymakers and stakeholders in ensuring the sustainable development and prosperity of maritime-dependent regions and industries. Its impact extends across multiple industries and influences the prosperity and well-being of nations worldwide. As the global economy continues to evolve, the maritime sector will remain a cornerstone, adapting to new challenges and driving innovation in the pursuit of sustainable and efficient maritime activities.

2.2 Linking Maritime Sector to Poverty Reduction

The globe is currently grappling with numerous crises, notably in food, fuel, coal, natural gas, and the economy. The maritime economy stands as a potential solution to mitigate these challenges, offering a unique avenue to bolster any struggling economy. With over 70% of our planet covered by the sea, the maritime sector holds a pivotal position in ensuring global stability. Notably, approximately 90% of the world's import-export trade relies on maritime transportation, emphasizing the crucial role the ocean plays in facilitating global trade and addressing pressing economic and resource-related issues (Askari, Bushra, & Hossain, 2021, s. 112).

The maritime sector has garnered significant interest in emerging economies. It represents an alternative economic approach aimed at combating poverty by fostering international trade and connecting sellers with buyers. This approach not only stimulates economic growth but also emphasizes the imperative of environmental sustainability in coastal regions and marine ecosystems. By promoting social inclusion, the maritime sector contributes to an enhancement of livelihoods, presenting a comprehensive framework that addresses economic, environmental, and social dimensions. This paradigm shift towards a sustainable and inclusive blue economy underscores its potential to serve as a catalyst for positive change and development in these regions (Bari, 2017).

The maritime industry, with its diverse sectors such as shipping, fishing, shipbuilding and repair, offshore energy extraction, strait and canal crossings, maritime research and development, maritime tourism and recreation, marine biotechnology and aquaculture, maritime logistics and supply chain management, maritime education and training, and port operations, has been recognized as a powerful agent in alleviating poverty. This chapter explores the existing literature on how engagement in the maritime industry can contribute to poverty reduction. Key findings highlight the transformative impact of stable employment, skill development, and income generation on individuals and communities. One of the fundamental ways in which the maritime industry contributes to poverty reduction is through the

provision of stable employment opportunities. Research indicates that maritime jobs, whether on ships or in port-related activities, often offer consistent and reliable sources of income. This stability not only ensures financial security for individuals but also has a positive ripple effect on entire communities. Case studies and empirical evidence will be explored to underscore the link between maritime employment and the reduction of poverty rates (UNCTAD, 2022).

The maritime sector provides a unique platform for skill development, offering individuals the opportunity to acquire specialized knowledge and expertise. Training programs, apprenticeships, and on-the-job experiences in fields such as marine engineering, navigation, and fisheries management empower workers with valuable skills. The chapter will delve into how these acquired skills not only enhance employability within the maritime industry but also open doors to broader economic opportunities. Interviews with maritime professionals and insights from training initiatives will illuminate the transformative potential of skill development in poverty alleviation. Beyond stable employment and skill development, maritime activities contribute significantly to income generation (OECD/ILO, 2017).

In conclusion, this chapter synthesizes existing literature to establish a robust connection between maritime employment and poverty reduction. It highlights the transformative role of stable employment, skill development, and income generation in empowering individuals and communities. As the maritime sector continues to evolve, understanding and harnessing its potential to lift people out of poverty becomes increasingly crucial for sustainable economic development.

3 Success Stories: How Maritime Employment Transforms Communities and Alleviates Poverty

Following section explores specific examples from five diverse countries where strategic emphasis on maritime sector employment has been a catalyst for significant poverty reduction, bringing about positive outcomes for communities.

Case Study 1: Singapore - A Beacon of Economic Prosperity

Singapore, despite its small size, has strategically positioned itself as a global maritime hub. The maritime sector, including shipping and port operations, has played a pivotal role in the country's economic success. Connectivity stands as the hallmark of Singapore's port, solidifying its reputation as a global maritime leader. Since 1986, Singapore has consistently held the title of the world's busiest port in terms of shipping tonnage, boasting an impressive annual average of 140,000 vessel calls. Serving as the nexus for 200 shipping lines connected to over 600 ports globally, Singapore's success as a premier hub for container transshipment is underpinned by its unparalleled global connectivity. In 2022 alone, the port handled a staggering 37.3 million TEUs, a testament to its pivotal role in facilitating international trade. Singapore's port distinguishes itself through comprehensive facilities and services that excel in terms of quality, efficiency, competitiveness, and reliability (MOE Singapore, 2023). With the capability to manage over 2,000 containers per vessel and an impressive turnaround time of less than 12 hours, the port ensures seamless operations on a grand scale. This commitment to excellence has earned Singapore the prestigious title of the "Best Global Seaport" for the second consecutive year and the "Best Seaport in Asia" for the 34th time at the 2022 Asia Freight, Logistics, and Supply Chain Awards (AFLAS). Beyond its dominance in cargo handling, Singapore's maritime infrastructure has positioned it as a flourishing regional cruise center. Annually, the international cruise terminal welcomes around one million visitors, drawing more than 30 international cruise ships, totaling approximately 400 port calls each year (MPA Singapore, 2023). In essence, Singapore's maritime prowess extends beyond its role as a global trade facilitator, embracing its status as a dynamic and sought-after destination for cruise enthusiasts worldwide. Positive Outcomes (MINDEF Singapore, 2018):

- High-Income Jobs: The maritime industry in Singapore provides high-income jobs, contributing to a low national poverty rate.
- Global Trade Hub: Singapore's strategic location and efficient ports have made it a key player in global trade, attracting international businesses and creating employment opportunities.
- Urban Development: The success of the maritime sector has spurred overall economic growth, leading to urban development and improved living standards.

Case Study 2: Panama- Gateway to Commerce

Panama, known for the Panama Canal, represents a compelling case study for showcasing the transformative impact of the maritime sector on poverty alleviation and socio-economic development. The Panama Canal, a crucial maritime passage connecting the Atlantic and Pacific Oceans, stands as a cornerstone of global trade, facilitating the movement of goods and vessels worldwide. The canal's strategic importance in international shipping not only generates substantial revenue for Panama but also plays a pivotal role in global trade dynamics. Panama's economy heavily relies on the maritime sector, extending beyond the Panama Canal. The country boasts a robust maritime industry involving port operations, shipping services, and maritime-related activities. Ports like Balboa and Cristóbal are essential nodes in global trade networks, contributing significantly to the country's economy and employment (International Monetary Fund. Western Hemisphere Dept., 2023).

The maritime industry in Panama creates jobs in port operations, logistics, ship registration, and related services, offering employment opportunities for local communities. The country's advantageous geographical location has made it a logistics and transportation hub, attracting international businesses and investment, further stimulating economic growth (CEPAL, 2014). Moreover, Panama has been investing in infrastructure development and expansion of its port facilities to accommodate larger vessels, enhancing its competitiveness in the global shipping industry. The country's commitment to modernizing and improving its maritime infrastructure underscores its role in bolstering trade and economic development. Additionally, Panama's efforts in promoting tourism related to its maritime assets, such as its beautiful coastal areas and marine attractions, contribute to local economies and job creation in the tourism sector (UNCTAD, 2023, s. 32-34).

By highlighting Panama's success in leveraging the maritime sector, especially the Panama Canal, for economic growth, employment generation, and infrastructure development, the case can showcase how a nation's strategic focus on maritime activities contributes significantly to poverty alleviation and overall socio-economic progress (Beaton & Hadzi-Vaskov, 2017). Positive outcomes (Sabonge, 2014):

- Economic Growth and Employment Generation: Panama's maritime sector, particularly the Panama Canal and its ports, serves as a catalyst for economic growth. The operation of the canal and associated maritime activities contribute substantially to the country's GDP. These activities create employment opportunities in port operations, logistics, shipping services, and tourism, providing livelihoods for local communities and contributing to overall job creation within the sector.
- Infrastructure Development and Global Connectivity: Investment in the modernization and expansion of port facilities and maritime infrastructure enhances Panama's competitiveness and connectivity in global trade networks. Upgrades in port facilities like Balboa and Cristóbal allow

- Panama to accommodate larger vessels, boosting its efficiency in handling international trade, attracting more shipping traffic, and fostering better connectivity with global markets.
- Revenue Generation and Trade Facilitation: The Panama Canal serves as a critical artery for international trade, facilitating the transit of ships carrying goods between the Atlantic and Pacific Oceans. The revenue generated from canal tolls significantly contributes to the country's income.

Case Study 3: Bangladesh - Empowering Fishing Communities

The maritime sector significantly impacts the international economy and plays a crucial role in poverty reduction within Bangladesh. In the nation's economy and trade landscape, ports wield substantial influence, emerging as key contributors to poverty alleviation. Approximately 30 million Bangladeshis directly rely on the maritime sector, particularly in commercial transportation and related industries, for their livelihoods (Askari, Bushra, & Hossain, 2021, s. 115). The maritime routes serve as vital conduits in the process of globalization, fostering opportunities that contribute to poverty reduction efforts. Particularly for Bangladesh, maritime transport stands as a cornerstone for socio-economic advancement. It offers an effective and efficient means of transport, enabling the movement of various goods in large quantities. Importantly, it presents a cost-effective option, crucial for marginalized communities, allowing for the transportation of goods at lower expenses compared to other available transport alternatives. By providing access to affordable transportation and trade routes, the maritime sector directly impacts poverty reduction, empowering communities by facilitating economic activities and access to markets, thus contributing significantly to uplifting livelihoods and socioeconomic prospects (Shamsuzzaman, Mozumder, Mitu, Ahamad, & Bhyuian, 2020).

Ports serve as fundamental drivers of national economic development, crucial in keeping stride with the demands of a modern, globalized world. Their sustainable development stands as a prerequisite for overall progress. In the context of Bangladesh's heavy reliance on international trade, ports play a pivotal role in its economic landscape. There's a pressing need to concentrate efforts on not only optimizing the current port capacities but also advancing towards the establishment of deep-sea ports equipped with cutting-edge technological facilities and enhanced handling equipment. Notably, significant developmental projects are underway in Sonadia, Matarbari, and Payra, underscoring the nation's commitment to fortify its port infrastructure. Adapting to the demands of modern industries and globalization necessitates a strategic emphasis on port advancements, ensuring Bangladesh remains competitive and responsive to the evolving global trade landscape (Askari, Bushra, & Hossain, 2021, s. 116). Bangladesh's emphasis on the fishing sector within the maritime industry has played a crucial role in poverty reduction, particularly in coastal communities. Positive Outcomes (International Monetary Fund. Asia and Pacific Dept., 2013):

- Livelihood Diversification: Fishing communities have diversified their sources of income, reducing vulnerability to economic shocks.
- Infrastructure Development: Investments in the fishing industry have led to improved infrastructure in coastal areas, benefiting both the industry and local communities.
- Community Empowerment: The empowerment of local fishing communities has translated into better education and healthcare outcomes, breaking the cycle of poverty.

Case Study 4: Indonesia - Harnessing Maritime Resources for Development

Indonesia stands as the world's largest recipient of official development assistance (ODA) for the ocean economy, having received an average of USD 302.5 million annually during the 2013-18 period.

Remarkably, this constitutes 10.7% of the country's total ODA, surpassing the share allocated to other coastal and island nations (1.9%) and regional peers (6.5%). Development partners have been pivotal in supporting Indonesia's shift toward a sustainable ocean economy, focusing notably on specific areas such as curbing ocean pollution originating from land, fostering green shipping and enhancing ports, and promoting ocean conservation initiatives. In the context of poverty reduction in Indonesia, ports emerge as transformative instruments for socioeconomic advancement. The strategic allocation of ODA towards green shipping and port development can significantly impact poverty alleviation. Upgrading ports not only enhances trade opportunities but also creates employment, stimulating economic growth in coastal regions. By focusing on sustainable port development and fostering green shipping practices, Indonesia can empower local communities, providing better access to markets, improving livelihoods, and offering new avenues for economic prosperity, all crucial elements in the fight against poverty (OECD, 2021, s. 11).

Indonesia's vast maritime resources have been a key driver of economic development. The country's focus on sustainable fisheries and marine tourism has yielded positive outcomes. Positive Outcomes (World Bank, 2021):

- Job Creation: The maritime sector in Indonesia has created jobs, particularly in fisheries and tourism, contributing to poverty reduction.
- Tourism Boost: The development of marine tourism has attracted visitors, generating income for local communities and stimulating economic growth.
- Environmental Conservation: The emphasis on sustainable practices ensures the long-term viability of marine resources, benefiting both the environment and the economy.

Case Study 5: Nigeria - Empowering Coastal Communities

The Port of Lagos, Nigeria's largest port complex, has been a significant contributor to poverty reduction. Through its operations, it has created a multitude of jobs directly and indirectly linked to port activities. The employment opportunities at the Port of Lagos range from dockworkers, cargo handlers, administrative staff, to various skilled labor roles (UNCTAD, 2022).

The port's efficient operations have facilitated trade, contributing to economic growth and providing sustainable livelihoods for local communities. The positive outcomes derived from port employment in Nigeria exemplify how the maritime sector has successfully alleviated poverty by creating jobs, stimulating economic growth, and enhancing community well-being. Nigeria's extensive maritime wealth has served as a cornerstone for the nation's economic growth. With a substantial coastline and abundant marine resources, Nigeria has strategically capitalized on its maritime potential. The country's emphasis on developing sustainable practices within its fisheries and marine tourism sectors has been instrumental. Nigeria's commitment to these sectors has not only fostered economic prosperity but has also contributed positively to environmental conservation. This deliberate focus on harnessing the nation's maritime resources showcases its significant role in Nigeria's economic development and its potential for sustained growth (Onikosi-Alliyu, 2022). Positive Outcomes (Ugochukwu & Chijioke, 2015, s. 17-19):

Wealth Distribution: The employment opportunities created in the maritime sector contribute to wealth distribution within communities. Employees in these sectors often support their families and contribute to local economies, thereby reducing poverty at a grassroots level.

- Infrastructure Development: Investments in port infrastructure and related facilities not only
 improve trade efficiency but also create additional economic opportunities. Upgrades in port
 infrastructure positively impact logistics, trade relationships, and the overall economy.
- Skills Enhancement: The focus on the maritime sector has led to skill development programs and capacity building. Training initiatives empower individuals with specialized skills, enhancing their employability within the sector and beyond.

4 Conclusions

In conclusion, the multifaceted maritime sector stands as a beacon of hope and opportunity in the global fight against poverty. Its expansive reach across shipping, shipbuilding, ports, fishing, offshore energy, and marine tourism forms the backbone of international trade, fostering connections between nations and enabling the movement of goods and people worldwide. These success stories from Singapore, Panama, Bangladesh, Indonesia, and Nigeria highlight the diverse ways in which maritime employment has transformed communities and alleviated poverty. These cases serve as valuable examples for other nations seeking to leverage their maritime potential for sustainable economic development and poverty reduction. Throughout the exploration of diverse case studies—from Singapore's strategic positioning as a global maritime hub to Panama's global trade practices, Bangladesh's empowerment of fishing communities, Indonesia's focus on harnessing maritime resources, and Nigeria's success in uplifting coastal communities—the transformative power of the maritime sector in alleviating poverty becomes unequivocally evident.

The success stories showcased a consistent pattern of positive outcomes. High-income jobs, economic diversification, infrastructure development, skill enhancement, and social welfare impacts emerged as common threads in these narratives. The emphasis on sustainable practices not only generated economic growth but also nurtured environmental conservation, contributing to long-term viability. By creating stable employment, fostering skill development, and facilitating income generation, the maritime sector has proven to be a formidable driver of poverty reduction. Furthermore, its role in promoting social inclusion, enhancing livelihoods, and spurring economic development in coastal regions underscores its potential as a catalyst for positive change on both local and global scales. As nations strategically leverage their maritime resources and invest in sustainable practices within this sector, they pave the way for lasting socio-economic advancements. The maritime sector's integration of economic, environmental, and social dimensions presents a comprehensive framework that holds promise for uplifting societies, fostering sustainability, and steering regions towards a prosperous future.

In embracing the transformative potential of the maritime sector, governments, international organizations, and stakeholders must continue to collaborate, innovate, and invest in initiatives that prioritize inclusive growth, environmental stewardship, and socio-economic progress. Through concerted efforts and strategic investments, the maritime sector can continue to chart pathways out of poverty, driving progress and prosperity for generations to come.

5 Declarations

5.1 Founding Source

There is no founding source in this study.

5.2 Competing Interest

There is no conflict of interest in this study.

References

- Askari, H. R., Bushra, R. T., & Hossain, M. N. (2021). The Maritime Sector in the Economic Development of Bangladesh. Bangladesh Maritime Journal, 5(1), 111-126.
- Bari, A. (2017). Our Oceans And The Blue Economy: Opportunities And Challenges. Procedia Engineering, 5-11.
- Beaton, K., & Hadzi-Vaskov, M. (2017). Panama's Growth Prospects: Determinants and Sectoral Perspectives. IMF Working Papers.
- CEPAL. (2014). The Panama Canal Turns 100: History and Possible Future Scenarios. United Nations, ECLAT.
- International Monetary Fund. Asia and Pacific Dept. (2013). Bangladesh: Poverty Reduction Strategy Paper. IMF Staff Country Reports.
- International Monetary Fund. Western Hemisphere Dept. (2023). Panama's Growth Story. IMF Staff Country Reports.
- International Trade Administration. (2022, September 12). Norway Country Commercial Guide. Retrieved from Norway Shipping, Maritime Equipment & Services: https://www.trade.gov/country-commercial-guides/norway-shipping-maritime-equipment-services
- MINDEF Singapore. (2018, April 19). Fact Sheet: Safeguarding Singapore's Maritime Trade and Industry. Retrieved from https://www.mindef.gov.sg/web/portal/mindef/news-and-events/latest-releases/article-detail/2018/april/19apr18_fs/
- MOE Singapore. (2023, April 14). Maritime. Retrieved from Ministry of Education: https://www.moe.gov.sg/sgis/sponsoring-organisations/industries/maritime#:~:text=The%20maritime%20industry%20in%20Singapore,7%25%20of%20our%20country's%20GDP.
- MPA Singapore. (2023, November 10). Global Connectivity. Retrieved from https://www.mpa.gov.sg/regulations-advisory/maritime-singapore/what-maritime-singapore-offers/global-hub-port#:~:text=It%20is%20the%20focal%20point,million%20TEU%20handled%20in%202022.
- Munim, Z., & Schramm, H. J. (2018). The Impacts of Port Infrastructure and Logistics Performance on Economic Growth: The Mediating Role of Seaborne Trade. Journal of Shipping and Trade volume, 3(1).
- OECD. (2020). Environment at a Glance 2020. Paris: OECD Publishing.
- OECD. (2021). Sustainable Ocean Economy Country Diagnostics of Indonesia. DCD(2021)5.
- OECD/ILO. (2017). Engaging Employers in Apprenticeship Opportunities. Paris: OECD Publishing.
- Onikosi-Alliyu, S. O. (2022). Impact Of Seaport On Economic Growth In Nigeria. KASU Journal Of Economics And Department Studies (KJEDS), 9(1), 139-156.
- Sabonge, R. (2014). The Panama Canal Expansion: A Driver of Change for Global Trade Flows. ECLAC.
- Shamsuzzaman, M., Mozumder, M. M., Mitu, S. J., Ahamad, A. F., & Bhyuian, S. (2020). The Economic Contribution of Fish and Fish Trade in Bangladesh. Aquaculture and Fisheries, 5(4), 174-181.
- Ugochukwu, O. A., & Chijioke, J. E. (2015). Binding Constraints to Inclusive and Job-Rich Growth In Nigeria: A Review of Macro and Sector Policies and Strategies. International Laour Organization.
- UNCTAD. (2018). Review Of Maritime Transport. New York and Geneva: United Nations .
- UNCTAD. (2021). Review of Maritime Transport 2021. New York and Geneva: United Nations.
- UNCTAD. (2022). PART III Case Studies, Good Practices and Lessons Learned Case Study 13: Port of Lagos, Nigeria. In Building Capacity to Manage Risks and Enhance Resilience. Geneva: United Nations Conference on Trade and Development.
- UNCTAD. (2022). Review of Maritime Transport 2022: Navigating Stormy Waters. Geneva: United Nations.
- UNCTAD. (2023). Review of Maritime Transport 2023: Towards a Green and Just Transition. Geneva: United Nations.
- World Bank. (2021). Oceans for Prosperity: Reforms for a Blue Economy in Indonesia. Washington, D.C.: The World Bank.



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