ESP International Journal of Science, Humanities and Management Studies ISSN: 2583-9756 / Volume 2 Issue 2 March 2024 / Page No: 1-8 Paper Id: IJSHMS-V2I2P101 / Doi: 10.56472/25839756/IJSHMS-V2I2P101

Original Article

Effect of Blue Economic Practices and Its Potential Implications on Nigeria's Socio-Economic Development: A Comprehensive Analysis

Olaniyi, A.R1, Ajala, A.M2, Afolalu, A.B3

^{1,2,3}The Federal Polytechnic Ado Ekiti, Ekiti State, Nigeria

Received Date: 02 January 2024 Revised Date: 03 February 2024 Accepted Date: 01 March 2024

Abstract: Blue Economy refers to the sustainable use of ocean resources for economic growth, improved livelihoods, and environmental preservation. This study evaluates the effect of Blue Economic Practices in Nigeria and its Potential Implications for the country's socio-economic development. Nigeria, being a coastal nation endowed with vast marine resources, has recognized the importance of harnessing its maritime potential to stimulate economic growth. Through strategic policies and initiatives, the country has attempted to tap into the untapped potential of its blue economy. This study examines the various sectors within the blue economy that have been developed in Nigeria, including fisheries, aquaculture, maritime transport, oil and gas exploration, and tourism. The analysis takes into consideration the economic, social, and environmental aspects of these sectors, considering both the positive and negative impacts. The findings indicate that blue economy has the potential to significantly contribute to Nigeria's economic growth and development. The fisheries sector, for instance, can provide employment opportunities, boost food security, and contribute to foreign exchange earnings through exports. The maritime transport sector has the potential to enhance intra-regional trade, improve connectivity, and facilitate economic integration. However, challenges such as overfishing, pollution, and inadequate infrastructure pose significant threats to the sustainability of the blue economy in Nigeria. These issues require effective regulations, enforcement mechanisms, and cooperation among stakeholders to ensure proper resource management and environmental protection. Considering the findings, this study recommends that Nigeria should prioritize sustainable practices within the blue economy to maximize economic benefits while preserving marine ecosystems. Efforts should be made to promote sustainable fishing practices, develop aquaculture techniques, invest in maritime infrastructure, and leverage the potential of marine tourism. Overall, blue economy has the potential to transform Nigeria's coastal communities, alleviate poverty, and contribute to sustainable development. However, careful planning, strong governance, and effective management of resources which are crucial to unsurely the long-term viability and resilience of Nigeria's blue economy.

Keywords: Socio-Economic Development, Economic Practices, Economic Growth, Environmental Preservation, Blue Economic Sectors, Maritime Potential.

I. INTRODUCTION

Blue Economic practice refers to the sustainable use and development of ocean resources to promote economic growth, improve livelihoods, and ensure environmental preservation. As a country with a vast coastline and significant maritime assets, Nigeria has recognized the importance of harnessing its blue economy potentials. Nigeria, located in West Africa, has a coastline that stretches over 850 kilometers along the Gulf of Guinea. This coastline, along with its many rivers and lakes, presents immense opportunities for the country to derive economic benefits from its marine resources. The blue economy in Nigeria encompasses a wide range of sectors, including fisheries, aquaculture, maritime transportation, offshore oil and gas, tourism, and maritime security.

One of the key drivers of the blue economy in Nigeria is the fisheries sector. As a major source of protein and income for many coastal communities, fisheries provide employment opportunities and contribute to food security. Nigeria has abundant fishery resources, both in its coastal waters and inland lakes and rivers. However, the sector faces challenges such as overfishing, illegal, unreported, and unregulated fishing, and poor infrastructure. Sustainable practices, such as implementing effective fisheries management and conservation measures, are crucial to ensure the long-term viability of this sector.

Aquaculture, the farming of aquatic organisms such as fish, crustaceans, and mollusks, is another important component of Nigeria's blue economy. With its vast water resources, Nigeria has significant potential for aquaculture development. The sector has the potential to boost fish production, reduce pressure on wild fish stocks, create employment

opportunities, and generate export earnings. However, the sector faces challenges such as inadequate infrastructure, limited access to finance, and low adoption of modern farming techniques. To unlock the full potential of aquaculture, there is a need for investment in infrastructure, research and development, and capacity building.

The maritime transportation sector is also a critical component of Nigeria's blue economy. Nigeria relies heavily on maritime transportation for international trade, as over 90% of its imports and exports are transported by sea. The sector offers opportunities for job creation, revenue generation, and infrastructure development. However, challenges such as inadequate port infrastructure, inefficient customs procedures, and maritime insecurity hamper its growth potential. Improving port infrastructure, enhancing maritime security, and streamlining customs procedures are crucial for the development of this sector. Nigeria's blue economy also encompasses offshore oil and gas exploration, tourism, and maritime security, all of which have tremendous economic potential. However, the sustainable development of these sectors requires a balanced approach that takes into account environmental preservation, social inclusivity, and economic diversification.

In conclusion, Nigeria's blue economic practice holds significant potential for economic growth, job creation, and improved livelihoods. However, realizing this potential requires addressing challenges such as overfishing, inadequate infrastructure, maritime insecurity, and inefficient processes. By adopting sustainable practices and investing in the necessary infrastructure, Nigeria can harness its marine resources to drive economic development while ensuring environmental preservation.

A. In Nigeria, the Blue Economy Practice Involves Various Processes and Steps, Including the Following:

Identifying potential sectors: Nigeria has a vast coastline, rich aquatic resources, and maritime activities that form the basis for the Blue Economy. The first step is to identify potential sectors that can contribute to economic growth and sustainability, such as fisheries, aquaculture, maritime transport, oil and gas exploration, coastal tourism, renewable energy, and biotechnology.

a) Policy and Legal Frameworks:

Developing the necessary policy and legal frameworks to support the Blue Economy is crucial. This involves the formulation of laws, regulations, and guidelines that govern blue economy activities, including licensing, environmental protection, resource management, and economic incentives.

b) Stakeholder Engagement and Capacity Building:

Engaging all relevant stakeholders, including government agencies, private sector players, local communities, and civil society organizations, is important. This ensures that their views and expertise are incorporated into the planning and implementation processes. Capacity building programs are also conducted to enhance skills and knowledge in blue economy-related fields.

c) Resource Assessment and Sustainable Management:

Assessing the country's marine resources, their current status, and potential risks is essential. This includes conducting surveys, research, and environmental impact assessments to understand the potential impacts of blue economy activities and develop sustainable management practices.

d) Infrastructure Development:

Infrastructure development is necessary to support the growth of the blue economy. This includes the construction of fishing harbors, aquaculture facilities, marine transport facilities, renewable energy installations, and tourism infrastructure, among others.

e) Investment Promotion and Financing:

Attracting investments and securing financing for blue economy projects is critical. This involves creating an enabling environment for private sector investment, providing access to finance, and offering incentives and tax breaks for blue economy ventures.

f) Monitoring and Evaluation:

Monitoring and evaluating the impact of blue economy activities is crucial to ensure that they are sustainable and in line with objectives. This involves the collection of data, tracking progress, and regularly assessing the effectiveness of policies and programs.

q) International Collaboration:

Collaboration with international partners and organizations is beneficial for sharing knowledge, best practices, and experiences in blue economy development. Nigeria can learn from other countries' successes and challenges in implementing blue economy practices.

h) Sustainable Business Models:

Developing sustainable business models that combine economic growth with environmental sustainability is essential. This involves promoting responsible fishing practices, efficient resource utilization, waste management, and the use of clean technologies in the blue economy sectors.

i) Public Awareness and Education:

Raising public awareness about the importance of the blue economy and the need for its sustainable practices is critical. Education programs and campaigns can help create a culture of responsible ocean stewardship and support for blue economy initiatives.

Overall, the process of Blue Economic practice in Nigeria involves policy formulation, stakeholder engagement, resource assessment, infrastructure development, investment promotion, monitoring and evaluation, international collaboration, sustainable business models, and public awareness and education.

Blue Economy refers to the sustainable and integrated use of the ocean's resources for economic growth, improved livelihoods, and job creation. Nigeria, being a coastal country, has the potential to leverage its blue economy for development.

B. Here are Some Potential Effects of the Blue Economy on the Development Process in Nigeria:

a) Economic Diversification:

Nigeria has historically relied heavily on its oil and gas sector for revenue generation. The blue economy offers an opportunity for economic diversification by tapping into sectors such as fisheries, aquaculture, maritime transportation, and tourism. This diversification can reduce the country's vulnerability to fluctuations in oil prices and create a more resilient economy.

b) Job Creation:

The blue economy has the potential to create new employment opportunities, especially in sectors like fisheries and aquaculture. Nigeria's coastal communities, which often face high rates of unemployment and poverty, can benefit from job creation in these sectors. Additionally, the development of maritime infrastructure and logistics can also create jobs in the transportation and logistics sectors.

c) Food Security:

Nigeria is the largest importer of fish in Africa, despite having a significant coastline. Developing and promoting the fisheries and aquaculture sectors can help enhance food security by increasing local fish production and reducing dependence on imports. This, in turn, can reduce the vulnerability of the country's food system to international market volatilities and supply chain disruptions.

d) Sustainable Resource Management:

The blue economy emphasizes sustainable resource management practices to ensure long-term environmental and economic sustainability. By adopting sustainable fishing practices, protecting marine ecosystems, and investing in research and development, Nigeria can preserve its marine resources for future generations. This approach can help prevent overexploitation and degradation of the ocean ecosystem.

e) Enhanced Trade and International Cooperation:

The blue economy can foster closer ties with other coastal countries and regions, leading to increased trade and international cooperation. Nigeria can leverage its maritime industry to improve trade relations, promote regional integration, and attract foreign direct investment. This can result in increased economic opportunities and improved international partnerships.

However, it is important to note that the successful development of the blue economy in Nigeria will require overcoming various challenges, including inadequate infrastructure, limited institutional capacity, maritime security threats, and environmental sustainability concerns. Investment in infrastructure, capacity building, policy frameworks, and stakeholder collaboration will be essential to realize the full potential of the blue economy in Nigeria.

II. STATEMENT OF PROBLEM

Blue Economy refers to the sustainable use of ocean resources for economic growth, improved livelihoods, and environmental conservation. In Nigeria, the adoption of Blue Economic practices has had a positive effect on various sectors and communities.

One major impact of Blue Economic practices in Nigeria is the boost it has given to the fishing industry. Nigeria has a vast coastline and abundant marine resources, but overfishing and illegal fishing have been major challenges. Through the

implementation of sustainable fishing practices, such as enforcing fishing regulations and promoting responsible fishing techniques, the government has been able to revitalize the fishing industry. This has not only increased the income of local fishermen but has also improved food security in the country.

Furthermore, Blue Economy has opened up opportunities for job creation and economic diversification. Nigeria has successfully tapped into the potential of aquaculture and marine tourism. By investing in fish farming and encouraging local communities to engage in aquaculture activities, the country has created new employment opportunities and reduced dependency on traditional fishing practices. Additionally, the development of marine tourism has attracted both domestic and international visitors, leading to increased revenues for local communities and contributing to the national economy.

Moreover, Blue Economy has promoted sustainable energy sources in Nigeria. The country has started exploring the potential of offshore wind and wave energy, reducing its dependence on fossil fuels. This not only helps in addressing the issue of climate change but also provides a reliable and renewable energy source for coastal communities.

However, the implementation of Blue Economic practices in Nigeria also faces some challenges. Weak governance, inadequate infrastructure, and lack of funding remain significant obstacles to its full realization. The government needs to address these issues by improving policy frameworks, investing in necessary infrastructure, and providing adequate financial support to communities and businesses involved in the Blue Economy.

In conclusion, the adoption of Blue Economic practices in Nigeria has had a positive effect on various sectors of the economy. It has revitalized the fishing industry, created job opportunities, promoted sustainable energy sources, and contributed to economic diversification. However, there is still work to be done to overcome challenges and fully harness the potential of the Blue Economy in Nigeria.

Developing countries face several challenges when integrating blue economic practices, which aim to promote sustainable economic development and conservation of marine resources.

A. These Challenges Include:

Lack of technological and financial resources: Developing countries often lack the necessary financial and technological capacity to implement and manage blue economic practices effectively. Limited funds and outdated infrastructure can hinder the adoption of sustainable fishing techniques, marine pollution control measures, and development of marine renewable energy.

a) Limited Institutional Capacity:

Many developing countries struggle with weak governance structures and institutions, leading to inadequate enforcement of regulations and weak coordination among different sectors. This lack of institutional capacity hampers the integration of blue economic practices and compromises efforts to combat illegal fishing, pollution, and resource degradation.

b) Overfishing and Resource Depletion:

Many developing countries heavily rely on fisheries as a crucial source of food and income. However, overfishing, fueled by weak regulation and illegal practices, threatens fish stocks and undermines sustainable blue economic practices. Developing countries often face difficulties in implementing effective management and conservation measures to protect their marine resources.

c) Climate Change Impacts:

Developing countries are particularly vulnerable to the impacts of climate change, including rising sea levels, increased sea temperatures, and ocean acidification. These changes can negatively affect marine ecosystems, fisheries, and coastal communities. Integrating blue economic practices in the face of these challenges requires adaptation strategies and investments in climate resilience.

d) Lack of Public Awareness and Education:

Awareness about the importance of ocean resources and sustainable practices may be limited in developing countries. This lack of understanding hinders the adoption of blue economic practices and sustainable resource management. Education and awareness campaigns are needed to engage local communities in conservation efforts and sustainable marine resource exploitation.

e) Conflicts with Traditional Livelihoods:

In many developing countries, traditional livelihoods and cultural practices rely on unsustainable exploitation of marine resources. Integrating blue economic practices may require navigating conflicts between modern conservation goals

and traditional community practices. Balancing environmental protection with the social and economic needs of local communities is essential for successful implementation.

f) International Competition and Market Access:

Developing countries often face competition from developed countries in the global market for marine resources and products. Limited market access, trade barriers, and unfair competition can pose challenges for developing countries trying to integrate blue economic practices into their economies.

Addressing these challenges requires a multi-faceted approach that includes building institutional capacity, providing financial and technological support, promoting sustainable resource management practices, and ensuring the inclusion and participation of local communities. International cooperation and partnerships between developed and developing countries are critical for overcoming these challenges and achieving sustainable blue economic development.

B. Comparative Analysis

The concept of Blue Economy or Blue Economic practice has a relatively modern history. It emerged in the late 20th century as a response to the growing realization of the importance of our oceans and how they can contribute to sustainable economic growth. One of the earliest mentions of the term "Blue Economy" can be traced back to the 1980s when Gunter Pauli, a Belgian entrepreneur and author, began advocating for a new business model that promotes environmentally friendly and sustainable economic practices. He argued that by harnessing the potential of our oceans and marine resources, we can create a new wave of economic development that is both prosperous and sustainable.

The United Nations became involved in promoting the Blue Economy concept in 2012 with the convening of the Rio+20 conferences on sustainable development. The conference recognized the potential of oceans and coastal areas in supporting economic growth, improving livelihoods, and preserving marine ecosystems. It led to the official recognition of the Blue Economy as a concept that integrates sustainable economic development with concern for the environment.

Since then, the Blue Economy has gained increasing attention and recognition at both national and international levels. Numerous countries, particularly those with significant coastal areas, have started incorporating Blue Economy principles into their policies and strategies. The European Union has been at the forefront of promoting the Blue Economy. In 2014, the European Commission released the "Blue Growth Strategy," which aimed to promote sustainable growth in the maritime sector. It identified key areas for potential development, including renewable energy, fisheries, aquaculture, tourism, and biotechnology.

In Africa, the Blue Economy has been recognized as a promising avenue for economic growth and poverty reduction. The African Union adopted the Agenda 2063 and Integrated Maritime Strategy in 2014, which emphasized the importance of the Blue Economy in achieving sustainable development for the continent. Today, the Blue Economy continues to evolve and expand. It encompasses a wide range of activities and sectors, including marine transportation, coastal tourism, renewable energy generation, fisheries, aquaculture, marine biotechnology, and ocean conservation. Its underlying principle is to promote economic growth and development while ensuring the sustainable use of marine resources and the conservation of marine ecosystems.

While the concept of Blue Economy offers great potential, challenges remain in its implementation. Ensuring equitable distribution of benefits, transparent governance, and effective management of marine resources are among the key issues that need to be addressed.

Overall, the history of the Blue Economy reflects a growing global recognition of the importance of our oceans and the need to integrate sustainable practices into economic development. As countries and organizations continue to embrace the principles of the Blue Economy, it is hoped that we can achieve a more balanced, prosperous, and sustainable future for both people and the planet.

C. To Effectively Implement and Benefit from the Blue Economic Practice in Nigeria, the Following Methodology can be Adopted:

a) Stakeholder Engagement:

Engage relevant stakeholders, including government institutions, industry experts, local communities, and civil society organizations, to encourage their participation, gather input, and foster collaboration in the development and implementation of the Blue Economy practice.

b) Policy and Regulatory Framework:

Develop and enforce comprehensive policies and regulations that align with the principles of the Blue Economy. These should focus on sustainable resource management, marine conservation, and responsible maritime industry practices, while also addressing legal and governance issues to create a conductive environment for economic growth.

c) Resource Assessment and Mapping:

Conduct thorough assessments of Nigeria's marine and coastal resources to identify potential areas for sustainable economic activities. This includes mapping marine habitats, fisheries stocks, mineral resources, renewable energy potential, and tourism opportunities.

d) Capacity Building and Education:

Invest in training programs and educational initiatives to build human capacity and awareness among local communities, professionals, and relevant institutions. This will ensure that Nigeria has the necessary skills, knowledge, and expertise to effectively manage and exploit its Blue Economy resources sustainably.

e) Investment and Financing:

Encourage public and private sector investments in Blue Economy projects and initiatives through attractive fiscal incentives, venture capital funding, and access to low-interest loans. This will help stimulate economic growth while creating employment opportunities and diversifying the country's revenue streams.

f) Technology and Innovation:

Promote research and development in marine science, renewable energy technologies, aquaculture, and other relevant sectors to foster innovation and the adoption of sustainable practices within the Blue Economy. This includes investing in advanced monitoring systems, remote sensing technologies, and data management tools for improved resource management.

q) Collaboration and Partnerships:

Foster collaboration with international organizations, neighboring countries, and regional economic blocs to benefit from cross-border trade, knowledge exchange, and joint initiatives. This will enable Nigeria to tap into global best practices, share experiences, and access wider markets for its Blue Economy products and services.

h) Monitoring and Evaluation:

Establish a robust monitoring and evaluation system to track the progress, impacts, and compliance of Blue Economy initiatives. Regular assessments will help identify challenges, measure achievements, and inform adaptive management strategies for continuous improvement.

III. ANALYSIS OF THE BLUE ECONOMY SYSTEM IN NIGERIA

By adopting this Blue Economy style, Nigeria can effectively implement the Blue Economy practice and leverage its vast maritime resources for sustainable economic development while safeguarding the ecological integrity of its oceans, seas, and coastal areas.

Blue Economy refers to the sustainable use of ocean resources for economic growth, improved livelihoods, and healthy ecosystems. Implementing Blue Economic practices in Nigeria could have several positive effects on the country's economy.

A. Job Creation:

The Blue Economy has the potential to create new employment opportunities in various sectors such as fisheries, aquaculture, maritime transport, marine tourism, and offshore energy. This can help reduce unemployment rates and improve livelihoods, particularly in coastal communities.

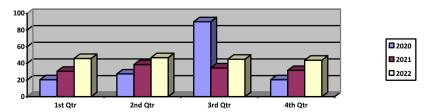


Figure 1: Job Creation

B. Economic Growth:

Developing and exploiting Nigeria's marine resources can contribute to overall economic growth. The country has a coastline of approximately 853 km and is rich in marine resources such as fish, minerals, oil, and gas. By sustainably utilizing these resources, Nigeria can boost its GDP and increase revenue generation.

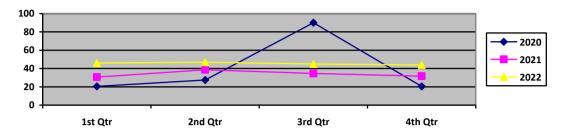


Figure 2: Economy Growth

C. Diversification of the Economy:

Nigeria's economy is heavily dependent on crude oil exports, making it vulnerable to fluctuations in global oil prices. Implementing Blue Economic practices can diversify the country's revenue sources, reducing its reliance on oil and enhancing its resilience to external shocks.

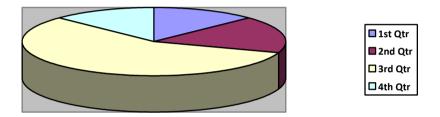


Figure 3: Diversification of the Economy

D. Food Security:

Nigeria's population is growing rapidly, and the demand for food is increasing. The Blue Economy can contribute to food security by promoting sustainable fisheries, aquaculture, and the development of value chains for marine resources. This can ensure a constant supply of seafood and other marine-based food products to meet the growing population's needs.

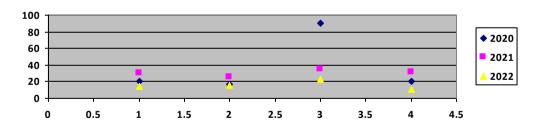


Figure 4: Food Security

E. Environmental Sustainability:

The Blue Economy prioritizes sustainable practices, ensuring the conservation and responsible use of marine resources. By implementing sustainable fisheries management, reducing pollution, and protecting marine ecosystems, Nigeria can safeguard its natural resources for future generations.

However, it's important to note that implementing Blue Economic practices in Nigeria would require significant investments in infrastructure, technology, and capacity building. Additionally, proper governance and regulation frameworks should be in place to prevent overexploitation and ensure the equitable distribution of benefits.

In conclusion, the Blue Economy practice has the potential to significantly impact Nigeria's economic development and sustainability. By harnessing the resources and opportunities offered by the ocean and its associated sectors, Nigeria can

diversify its economy, create employment opportunities, and enhance its overall economic growth. The Blue Economy can also contribute to poverty reduction, food security, and improved livelihoods for coastal communities.

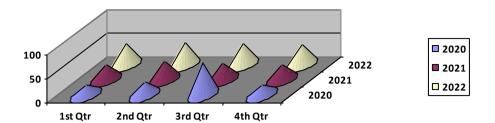


Figure 5: Environmental Sustainability

However, the successful implementation of the Blue Economy practice in Nigeria requires a comprehensive and integrated approach. This includes the development of appropriate policies and regulations, investment in infrastructure and technology, capacity building, and effective governance. It is also crucial to ensure the sustainable and responsible use of marine resources to avoid negative environmental impacts.

Furthermore, collaboration and partnerships between the government, private sector, and local communities are essential for the success of the Blue Economy practice. This will enable the sharing of knowledge, expertise, and resources, as well as the promotion of inclusive and equitable growth.

Overall, the Blue Economy practice holds great potential for Nigeria to unlock the untapped economic opportunities offered by its vast coastline and marine resources. By embracing this practice and implementing it in a sustainable and inclusive manner, Nigeria can achieve long-term economic growth, environmental conservation, and social development.

IV. REFERENCES

- [1] Catherine Piante/WWF-France (2013) The Strategic Meaning of "Blue Economy" Available at https://en.reset.org/blog/blue-economy-what-it.
- [2] Christian Bueger (2016), Maritime Security and the Blue Economy: Understanding Definition of "development" from the Cambridge advanced learner's dictionary & thesaurus © Cambridge University Press.
- [3] European Commission (2012). Communication from the Commission to the European Parliament, the Council, the European Economic and social Committee and the Committee of the Regions: Blue Growth—opportunities from the marine and maritime sustainable growth.
- [4] European Commission (2017), Staff working document on blue growth 2013-2016, Report on the blue growth Strategy towards more sustainable growth and jobs.
- [5] Martin A. M. Gansinger, Ayman Kole (2017), Mapping Media Responsibility. Contemporary Aspects of Morals, Ethics and social discourse, Hamburg, Anchor Academic Publishing.
- [6] Micheli F, Halpern BS, Walbridge S, Ciriaco S, Ferretti F, Fraschetti S, et al. (2013) Cumulative Human Impacts on Mediterranean and Black Sea Marine Ecosystems: Assessing Current Pressures and Opportunities.
- [7] Nautilus Minerals, 2014. Nautilus Minerals and State of PNG Resolve Issues and Sign Agreement. News Noone et al (Eds) (2012). Valuing the Ocean. Extended Executive Summary. Stockholm Environment Institute.
- [8] Sherman, K & Adams, S. (Eds) (2010). Sustainable Development of the World's Large Marine Ecosystems during Climate Change.
- [9] The blue economy, growth, opportunity and a sustainable ocean economy. An Economist Intelligence Unit briefing paper for the World Ocean Summit 2015.
- [10] Tolu Lawal and Abe Oluwatoyin (2011) National development in Nigeria: Issues, challenges and prospects, Journal of Public Administration and Policy Research Vol. 3(9), pp. 237-241, November 2011.
- [11] WWF Global Report (2015), Reviving the ocean economy; the case for action.