Review of: "Larache's Coastal in Morocco: Evaluating Dredging's Impact on Fisheries and Shorelineevolution"

Redouane Mghaiouini[1]

1 Université Ibn Toufail

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on Fisheries and Shoreline Evolution

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Introduction:

The major revision of the marine sand dredging sector development project was conducted to assess its impact on the environment and marine resources, and to determine necessary mitigation measures to minimize any negative effects. Initiated in 2008 in the Larache (Loukos) region, the project has seen an annual production of approximately 1,250,000 m3 of sand.

Revision Questions:

Objectives and National Sand Market Regulation:

Do the objectives of the marine sand dredging project aim to regulate the national sand market, as mentioned by Mounir HAKKOU in 2016?

Do the annual production results align with the projections made in 2020 by DRAPOR?

Environmental Impacts:

Do the comparison results indicate a significant impact on the marine environment?

What is the nature of the impact on beach evolution, and is it considered negligible according to the criteria outlined in the study?

Impact on Fishery Resources:

Is the impact on fishery resources deemed moderately significant, as mentioned in the study?

Which fish species are affected, especially in the North Atlantic region?

Temporal Evolution of Changes:

Are the changes recorded between 2010 and 2020 primarily attributable to dredging operations, or are there natural environmental or meteorological factors that could explain these variations?

Mitigation and Prevention Measures:

Have the mitigation measures mentioned in the initial text been adequately implemented since the project's inception?

Are dredging conditions and tools in compliance with recommendations to minimize negative impact?

Choice of Dredging Location:

How was the choice of dredging location made, and has it contributed to minimizing environmental impact?

Adaptability to Environmental Conditions:

Has the project demonstrated sufficient adaptability to changing environmental conditions, and have dredging operations been adjusted accordingly?

Conclusions:

The major revision has revealed. Adjustments and improvements may be necessary to ensure the project continues to meet environmental standards and minimizes any negative impact.

Recommendations:

Optimization of Dredging Location:

Periodically reassess the choice of dredging location based on environmental changes and market needs.

Enhancement of Mitigation Measures:

Implement additional mitigation measures, such as continuous ecological monitoring during dredging operations.

Consultation with Local Stakeholders:

Engage in regular communication with local communities and fishermen to understand and address concerns related to the project.

Final Conclusion:

In conclusion, this major revision provides valuable insights into the development of the marine sand dredging sector. The recommendations aim to strengthen positive aspects and address any identified deficits to ensure project sustainability.