



## Coastal Prediction - The Future of the Cameroon Coastline.

The coastline of Cameroon is a crucial part of the country's environment and economy, but it's facing significant challenges from pollution and marine debris. For over six years, the Association for Community Awareness (ASCOA), led by CEO Linus Ayangwoh, has been working to address these issues. This abstract explores the evolution of coastal prediction and its important role in ASCOA's environmental preservation efforts. **Past Efforts:** In the past, predicting and managing coastal conditions relied on traditional knowledge and basic forecasting methods. ASCOA initially focused on raising awareness about the harmful impact of pollution on marine ecosystems and analyzing historical data to understand pollution patterns along the Cameroonian coastline. **Present Initiatives:** Today, ASCOA has integrated advanced predictive technologies and comprehensive cleanup strategies. The recent launch of Cameroon Beach Cleanup Day demonstrates the organization's commitment to fighting marine debris. This initiative has engaged over 5,000 volunteers, resulting in the collection and documentation of millions of debris items. ASCOA also collaborates with other civil society organizations (CSOs) to enhance its impact and benefit from diverse expertise in environmental conservation. **Future Directions:** In the future, ASCOA plans to improve coastal prediction by using cutting-edge technologies such as satellite imagery, AI-driven analytics, and IoT-based monitoring systems. These innovations will enable more accurate forecasting of pollution events and identification of high-risk areas. Additionally, ASCOA aims to expand its volunteer network and build stronger partnerships with global environmental organizations to promote sustainable coastal management practices.

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