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INFORMATION – ANALYTICAL SYSTEM AND RESEARCH OF THE IMPACT OF COASTAL POLLUTION AND DEGRADATION ON WEST AFRICA

The aim of the research – coastal pollution and degradation has got a major influence on the GDP of most West African countries, thus, the need to identify the driving coastal pollutants and find appropriate mitigation strategies.

Object of research – coastal pollution and degradation in West Africa.

Subject of research – information-analytical system and research of the impact of coastal pollution and degradation.

Research tasks:

- to review the impact of pollution and degradation in West Africa's coastal areas;
- to gather information on the sources and causes of coastal pollution and degradation in West Africa;
- to highlight the economic implications of coastal pollution and degradation in West Africa;
- to analyze the data on marine litter at the West African beaches;
- to suggest management strategies to mitigate coastal pollution;
- to calculate the ecological effects of coastal pollutants;
- to determine the dominant waste on coastal areas in West Africa and their characteristics;
- to reduce, reuse and recycle gathered waste material on the coastal areas of West Africa.

Content of scientific work:

- analysis of strategies for mitigating coastal pollution and degradation;
- methodology and methods of research;
- increasing the level of the coastal zone safety by ensuring coastal pollutants are identified and eradicated using appropriate environmental safety measures;
- startup project on pollutants produced on coastlines.

Expected scientific value of the results:

- the use of mathematical models of dominant coastal pollutants that have been collected from the data of marine litter;
- the characterization of dominant coastal pollutants which have been left as waste materials on coastal environment.

Expected Practical value of the result:

- to inculcate the results of research findings on coastal pollutants that cause major pollution and degradation to environmental agencies;
- to review and update management strategies in West Africa.