## Assessment of the impact of climate change on structural failures in the Nigerian coastal areas

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In the recent years, structural failures have been verified in Nigeria especially within the coastal region. Apart from the known causes of structural failures such as design flaws, aging, material fatigue, negligence, accidents, terrorist attacks, extreme operational and environmental conditions, the role of natural hazards, such as floods, is becoming very prominent as one of the principal causes of structural failures in this part of the world. As have been widely confirmed by the international scientific community that the global climate change increases the rate and intensity of extreme weather events, it becomes imperative to undertake this research on the direct impact of global climate change on the structural stability in the Nigerian coastal areas. This paper assesses the effect of the climate change in the low lying coastal areas of southern Nigeria, such as Lagos of 15 million inhabitants with about half of the population living in slums being under serious threat. The research work correlates the effects of global climate change to structural failures in the Nigerian coastal areas. The results obtained lay solid foundation for the development of adaptation strategies that will be useful for designing mitigation policies. Keywords: Climate change, Structural failures, Coastal region, adaptation strategy.