# Geography of Ecological Transitions of Industrial Zones in Morocco: Towards Resilient Urban Planning in the Face of Climate Challenges Casablanca as Example using GIS

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## Abstract:

In this research, we focus on the spatial and territorial dynamics of ecological transformation in industrial areas of the city of Casablanca, Morocco, in the context of climate change, using GIS. The aim is to understand how these productive spaces in Casablanca articulate processes of urban planning, economic development, and adaptation to ecological challenges, the spatial analysis of the distribution and development of industrial areas in Casablanca, as well as the assessment of their geographical vulnerability to climate change, will be the focus of this study using GIS. The study will also investigate the geographical distribution of green transformation initiatives undertaken in these industrial areas by mapping the dynamics of infrastructure adaptation and climate risk management practices with GIS. The identification of a new geographical model of ecological, resilient and environmentally integrated industrial zones in Casablanca allows the analysis of the interactions between urban planning, economic development and climate change adaptation in this metropolis. Finally, this work develops geographical recommendations for sustainable urban and industrial planning, taking into account the issue of resilience to climate challenges and adapted to the context of the city of Casablanca. Thus, this study will contribute to a better understanding of the spatial and territorial changes taking place in Casablanca's industrial zones, in order to promote more sustainable economic development models.

## Keywords:

Industrial areas, Clim change, Urban planning, GIS.