

Mobility Challenges in Transport and Public Safety

The Impact of Transport on the Environment: A Review

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Introduction

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Research Objectives

- To find the impact of transport on the environment
- To establish the level reached in solving the problem
- To identify challenges faced when implementing solutions to the impact

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Study background

- Transport consumes as much as 28% of global energy production
- Ninety-five per cent of the energy produced is used for the transportation of people and goods
- This demand is compounded by the annual population growth rate of 1.7%
- Growth in population has subsequently pushed the urban population up which in turn demands transport

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Literature Review

- The 1972 Stockholm Declaration was the first global gathering which began pushing environment as an agenda
- Most prominent effects of transport on the environment are; climate change, waste, air pollution, noise pollution, land take and water impacts (acidification)
- The magnitude of the effect of transportation on the environment cannot be under-estimated
- Some researchers have classified this under three headings; direct, indirect and cumulative

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Literature Review

- Carbon dioxide and monoxide are major consequences of transportation activities on the environment
- These in turn cause chronic diseases and global warming
- Metals are also released into the environment

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Discussion

- Transportation activities cause as much as 22% of CO₂ emissions
- Transportation activities tend to discriminate against the disadvantaged of the society such as the blind
- A concerted effort is required from different stakeholder to achieve vast reduction in fuel consumption
- Governments as administrators of states must be involved a lot in discussions about environmental effects

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Discussion

- Vehicle producers must research and produce less pollutant engines
- The highest quality of fuel must be used at all times
- Consolidation and trip reduction strategies must be crafted
- Consumer of transport services must be encouraged to reduce their journeys involving energy consumption machinery
- Above all the economy cannot do without transport

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