ACCELERATING CLIMATE ACTION THROUGH SUSTAINABLE APPROACHES

A case study of Urban Transport in Nairobi, Kenya.

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Evelyn is an Associate at Sustainable Transport Africa, an NGO based in Kenya that focuses on Sustainable Transport & Development through promoting and lobbying for NMT, BRT, LRT, TDM, TOD, Cleaner fuels and Electric Mobility.

She is an accomplished Environmental professional with a Bachelors degree in Environmental Studies from Kenyatta University. She is a member of the International Association for Impact Assessment (IAIA), Environment Institute of Kenya (EIK) and a Registered NEMA Associate expert.

Evelyn has an outstanding experience in carrying out ESIA/EA, Data collection & Analysis, Research and Project co-ordination.

She is a great advocate for platforms that create structures that support sustainability.
Transport allows us to access activities and participate in life. Transport is still reliant on fossil fuels; Road transport (commonly used) accounts for 73% of transport energy use. GHG emissions from the transport sector are a key contributor (23% of global energy) to climate change (IPCC, 2014) while Urban transport accounts for 40% of (IEA, 2013). The effects of climate change include melting of glaciers, rising of sea levels, extreme weather events and changing rainfall patterns. It is expected that these changes will continue to occur especially in developing countries since they don’t have enough resources to
The level of GHG emissions due to transport is growing faster in emerging economies than in less developed countries because of urbanization and increased ownership and use of private motorized vehicles.

Public transportation - Congested cities –air pollution- road accidents- increased crimes

Government to encourage sustainable use of urban resources by investing in green infrastructure, green public transportation and renewable energy.

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Reducing emissions from Transport

ASI Framework – in order for transport to contribute to emissions reduction, it has to become more sustainable.

**AVOID**
Avoid or reduce travel or the need to travel

**SHIFT**
Shift to more energy efficient modes

**IMPROVE**
Improve efficiency through vehicle technology

- Urban planning, walking and cycling
- Public transport
- Individual motorised transport
Reducing emissions from Transport

ASI Components

- **Avoid measures**
  - Integrate urban & transport planning (TOD)
  - Smart logistics concepts

- **Shift measures**
  - Improved walking & cycling facilities & networks.
  - Multimodal public transportation- Rail, BRT, 2 wheelers & other MRT systems – higher occupancy thus lower GHG emission levels
  - Traffic Demand Management- urban highway re-prioritization, emissions-based road pricing, car parking costs & supply – helps to reduce negative externalities.
Reducing emissions from Transport

ASI Components

- Improve measures
  - Low emission vehicles
  - Shift to Alternative fuels – LPG, natural gas, electricity
  - Shared vehicle ownership schemes
Kenya’s National Policies relevant to Climate Change mitigation

- Constitution of Kenya 2010- Articles 69 & 70 deals with environmental issues such as climate change mitigation
- National Environment Policy 2008
- Climate Change Act 2016 – (Domestication of Paris Agreement)
- National Climate Change Action Plan (NCCAP)(2018-2022 – sets out a vision for a low-carbon climate resilient pathway
- National Climate Change Response Strategy (NCCRS) 2010
- EMCA 2015
- Energy policy – aims to mitigate climate change by encouraging the use of energy efficient & renewable energy sources
Towards Sustainable Low Carbon Transport

- Government/Political Will & Support
  Regulatory & Fiscal incentives, Land use planning
- Institutional Framework
  Formulating & Implementing policies that promote Sustainable urban transport, uptake of Electric Mobility
Sustainable Urban Transport Instruments
- Financial Strategies
  Budget allocation for sustainable low carbon transport,
- Integrated efforts by stakeholders
- Big Data Collection
  Will facilitate Research & Innovation – support Startups
  Open Data
- Mass Media
  Awareness raising campaigns

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Uptake of Electric Mobility greatly relies on the mechanisms put in place by the Government and the peoples' willingness to accept the technology.
THANK YOU!

QUESTIONS AND COMMENTS

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