



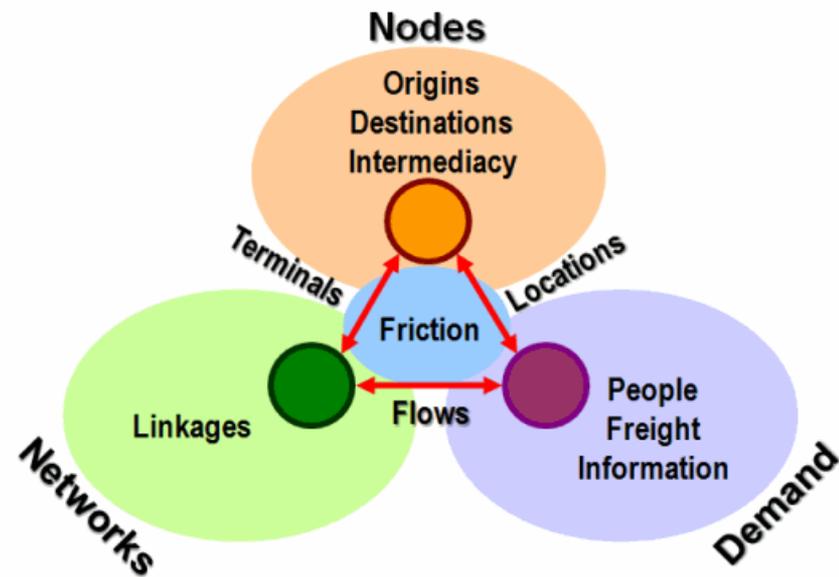
***Evaluating the Effectiveness of
Rail Transit as a Solution to
Traffic Congestion in Lagos
and Abuja***

Objectives

- To compare the causes and impacts of the problem of traffic congestion, as a **socio-economic problem**, between Lagos and Abuja
- To assess the capabilities of rail transit projects of the two cities in alleviating their traffic congestion

Research in Lagos

- Overview
 - A problem of road networks overloaded by demand for travelling between nodes accessible to the network (Rodrigue, 2009)
 - The presence of the element “demand” highlights that man, and its socio-economic condition, has a role to play in the problem



Research in Lagos

- Methodology
 - Qualitative-based
 - On-site observation:
“vehicle count” cancelled
 - Interview with local people:
drivers and police

Research in Lagos

- Blackspots of traffic jam
 - Lagos Island – CBD
 - Densely-populated suburbs
 - Road to Airport
- Time of traffic jam
 - 5am-10am, 4pm-7pm



Research in Lagos

- Causes of traffic jam
 - Demand
 - High: 222 vehicles/km
 - Lack of efficient public transport – car-dependent
 - Networks
 - Poor infrastructure: bumpy roads, flooding, absence of traffic lights
 - Reduction of lines of roads after introducing BRT
 - Flow
 - Lack of regulation: e.g. presence of hawkers
 - Poor driving habit

Research in Lagos

- Traffic jam as a socio-economic issue
 - Inefficient governance and lack of coordination
 - Lack of public funds
 - Dominance of informal employment
 - Lack of education to drivers on proper driving

Lagos Urban Rail System

