

Enabling Sustainable Transportation by the a of the Mathematical Transportation Modeling in the Context of SDGs

Background and research problem

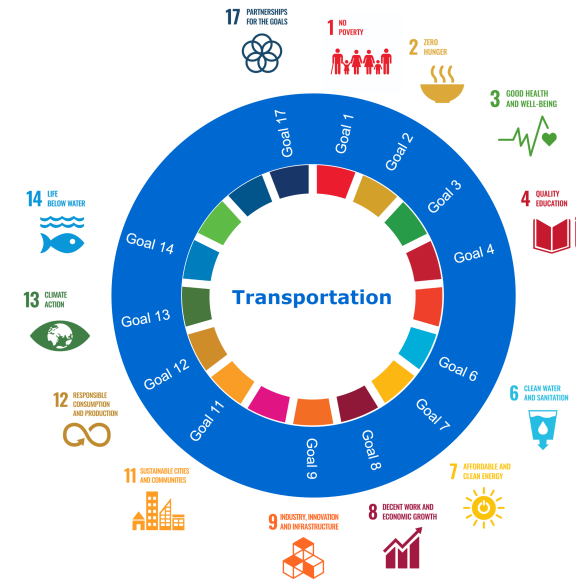
- Negative externalities of transportation such as, emission, noise pollution, and congestion that occur from fast urban developments affect sustainable human development
- SDGs can be considered as a comprehensive platform to deal with transportation challenges since it addresses transportation in several aspects.

Purpose of the study

In this research, by using SDGs' indicators, a mathematical model will formulate the interlinkages among transportation externalities as a multi-objective optimising function.

Significance of the study and expected deliverables

- Introducing an accurate transportation model that assists policymakers in developing more efficient transportation networks to save the economy.
- Copping with the negative impacts of rapid land-use change, which occurs from fast urbanisation, on transport networks.
- Enhancing the capability of existing freight corridors and terminals in urban areas, and assigning land for future freight development.



SDGs related to transportation