## **SUSTAINABLE TRANSPORTATION**

Sustainable transportation: A transport system that is sustainable in the social, environmental and climate impact.

- Three components that evaluating the sustainability:

- 1) Vehicles on the road, water or air transport.
- 2) The source of energy.
- 3) The infrastructure used to accommodate the transport.

## A sustainable transportation is one that:

- Allows the basic needs of individual to be met safely and in a manner consistent with human and ecosystem health and with equity within and between generations.
- Is affordable, operates efficiently, offers choice of transport mode and supports a vibrant economy.
- Limits emission and waste within the planet's ability to absorb them, minimizes consumption of non-renewable resources, limits consumption of renewable resources to the sustainable yield level, reuses and recycles its components, and minimizes the use of land and the production of noise.









- Sustainability emphasizes the integrated nature of human activities and therefore the need for coordinated planning among different sectors, groups and jurisdictions. It expands the objectives, impacts and options considered in a planning process. This helps insure that individual, short-term decisions are consistent with strategic, long-term goals.
- Sustainable transport planning recognizes that transport decisions affect people in many ways, so a variety objectives and impacts should be considered in the planning process.

## Various transport planning objectives support sustainability goals:

- Transport system diversity. Travelers can choose from various modes, location and pricing options, particularly ones that are affordable, healthy, efficient, and accommodate non-drivers.
- System integration. The various components of the transport system are well integrated, such as pedestrian and cycling access to transit, and integrated transport and land use planning.
- Affordability. Transport services provide affordable options so lower-income households spend less than 20% of their budgets to access basic goods, services and activities.
- Resource (energy and land) efficiency. Policies encourage energy and land efficiency.

- Land use accessibility (smart growth). Policies support compact, mixed, connected, multimodal land use development in order to improve land use accessibility and transport options.
- Operational efficiency. Transport agencies, service providers and facilities are managed efficiently to minimize costs and maximize service quality.
- Comprehensive and inclusive planning. Planning is comprehensive (considers all significant objectives, impacts and options), integrated (decision-making is coordinated among different sectors, jurisdictions and agencies), and inclusive (all affected people are able to participate).

## Thank you..