Public policies aimed at low-carbon mobility

Transport and Climate Change Week
Berlin-September 27, 2018

Boris Palacios
Vice-Minister of Transport Management
1. Alignment with the National Development Plan
2. Ministerial Structure
3. Land Transport Management
   3.1. Passenger Transport Management
   3.2. Freight Transport Management
4. National Projects
   4.1. Quito Metro
   4.2. Cuenca Tramway
   4.3. NUMP
   4.4. Development of Cycling Infrastructure
   4.5. National Pact for Road Safety
   4.6. Optimization of the Automotive Park
   4.7. Intelligent Transport Systems
   4.8. Safe Transport
Population: 16 million

Geography: It is over the Equator’s line, its territory is separated by two hemispheres. It has four regions: Coast, High-Land, Amazonia and Galapagos Island.

Road Infrastructure: 10,000 km of Inter-State Road Network to connect all the territory.

Aviation infrastructure: There are 4 international airports which facilitates the travel of 8 million.

Port Infrastructure: Ecuador records a movement of 26 million of metric tons in ecuadorian harbours.
1. ALIGNMENT WITH THE NATIONAL DEVELOPMENT PLAN

Axis 1: Rights for all throughout life

“1.8. Ensure access to adequate and dignified housing, with cultural relevance, and to a safe environment that includes the provision and quality of habitat-related public goods and services: land, energy, mobility, transport, water and sanitation, environmental quality, safe public space and recreation.”

“1.15. Promote the use and enjoyment of a safe habitat that allows equitable access to public spaces with an inclusive approach.”
2. MINISTERIAL STRUCTURE

To promote a comprehensive system of freight and passenger land transport with high quality indexes, which guarantees accessibility and connectivity for the population.

Goal:

- Efficient
- Safe
- Corporate
- Socially equitable
- Sustainable
- Inclusive
3. LAND TRANSPORT MANAGEMENT

- Develop an efficient and competitive land transport system.
- Provide citizens with an integrated and safe land transport system.
- Encourage corporate management of land transport services.
- Establish a socially equitable and differentiated tariff policy for the service, appropriate to the operating environment.
- Improve social quality of life through a sustainable and inclusive land transportation service.
Implement a **National System of Passenger Public Transport** that guarantees the **safe movement of citizens** and their belongings, through optimized operation of road corridors, with socially fair fares (clean management).

### Management Model

- **Allocated Corridors**
  - Optimization of offer.
  - Integrated operation.

- **Safe**
  - Qualified drivers.
  - Approved and inspected vehicles.

- **Modern**
  - Renewed vehicle fleet.
  - Collect-revenue systems.
  - Fleet management automation.

- **Efficient**
  - Establishment of operational indicators.
  - Audit.
3.1. PASSENGER TRANSPORT

**Operation**

- Interprovincial: 6,929 units
- Intraprovincial: 6,505 units

**Infrastructure**

- 65 Land Terminals
- Intermediate stops
- Roads: 9,660 km
3.2. FREIGHT TRANSPORT

Strengthen national logistics by providing formal, efficient, structured and competitive heavy freight transport services in the region.

**Structured**
- Promote corporate management
- Specialization

**Standardized**
- Unit approval
- Port and airport facilities

**Modern**
- Renewed vehicle fleet
- Freight monitoring systems

**Services Exporter**
- Strengthen the capacities of the operators
3.2. FREIGHT TRANSPORT

- **Operation**
  - Heavy: 46,528 units
  - Mixed: 11,251 units

- **Infrastructure**

- **Logistic Support Centers**
4. NATIONAL PROJECTS

QUITO METRO

CUENCA TRAMWAY
4.1. QUITO METRO

- 22 kilometers of route
- 15 stations
- 18 trains with 6 wagons each
- 400,000 passengers per day
- 150,000 tons of CO$_2$/year

On its route from south to north will take 34 minutes
4.2. CUENCA TRAMWAY

- 20.4 kilometers of route
- 27 stations
- 14 tramways
- 120,000 passengers per day
- Approx. 40,000 tons CO₂/year
4.3. DEVELOPMENT OF A NATIONAL LOW-CARBON MOBILITY PLAN-NUMP (EUROCLIMA+)

**GOAL**

Establish policies and programs to delineate actions in the different areas of knowledge in the GAD (decentralized autonomous governments), for the reduction of greenhouse gases (GHG); having equity and accessibility in transport as the axis.
4.4. DEVELOPMENT OF CYCLING INFRASTRUCTURE

- The country has 885.08 km of bicycle lanes built and in operation in the National Road Network.
- The infrastructure is located in 19 of Ecuador’s 23 provinces.
- 25% of the infrastructure is segregated and 75% is located on the road shoulder.
- The infrastructure promotes connectivity in rural areas, bike tourism and sports.
- Ecuador is developing the National Guidelines for cycling infrastructure and creating new methodologies to evaluate the built one. (http://www.cicloviasecuador.gob.ec/)
4.5. NATIONAL PACT FOR ROAD SAFETY

**MORTALITY RATE DUE TO IN SITU TRAFFIC ACCIDENTS PER 100,000 INHABITANTS**

<table>
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<tr>
<th>Year</th>
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<td>2012</td>
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<td>2017</td>
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**Source:** National Transit Agency
4.5. SAFE TRANSPORT CONTEST

In coordination with the Inter-American Development Bank (IDB), an information system on service quality and road safety indicators was created that must be used by operators of passenger and freight transport services in Ecuador.

SAFE PASSENGER PROJECT

Results: 352 intra- and interprovincial transport operators out of the existing 424 companies participated.

SAFE FREIGHT COMPANY PROJECT

Participation of 21 companies, from 3,647 existing freight operators at national level. As a result of the meeting, an improvement pilot project was carried out on the five best rated transport operators.
4.6. NATIONAL RENEWAL AND OPTIMIZATION PROGRAM OF PUBLIC AND BUSINESS AUTOMOTIVE FLEET “OPA”

From 2008 to 2015, Ecuador scrapped 18,624 units. The goal for the next 8 years is to renew 25,000 vehicles, through incentives that facilitate access to new units, in order to maintain an efficient, reliable, safe and environmentally sustainable vehicle fleet.

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4.7. INTELLIGENT TRANSPORT SYSTEMS

• The intelligent transport systems planned for implementation in 2018-2019 facilitate permanent control of the vehicle fleet.

• Implementation of 1,000 photo-radar systems for speed control, by type of vehicle and road, in order to reduce traffic accidents caused by these.

• Automated control of the weight and dimensions of freight vehicles, in 42 locations of the National Road Network, with the goal of protecting investment in public works and the safety of users, through a system of weighing in motion and inductive sensors, speed radars and vehicle identification cameras.

• Single National Transit Registry System for the management of the public passenger transport vehicle fleet.
4.8. SAFE TRANSPORT

Comprehensive security system for public and commercial transport at a national level, in order to improve road and citizen safety of land transport users, through permanent monitoring of units.

Security electronic devices installed in 17,000 buses and 38,000 taxis.

Speed excess control

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THANK YOU