

Study of a Nationally Appropriate Mitigation Action (NAMA) for Chile's Transport Sector: **Santiago Transport Green Zone**



Ministerio del
Medio
Ambiente

Gobierno de Chile

Climate Change Office

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PROJECT PURPOSE

GENERAL OBJECT

Enable Chile to deliver a documented implementation plan in the transport sector, contributing to the country's 20% / 2020 emissions reduction pledge and potentially create a model for innovative transport policies in Chile

- ✓ Economic and technical evaluation for the initiatives (4) included in the Transport Green Zone
- ✓ Evaluation was considered inside the Transport Green Zone geographical boundaries
- ✓ Final results were delivered in a NAMA format and in a modular approach, so that financing can take place at different stages

✓ Counterpart



Embajada Británica
Santiago



STAKEHOLDERS DEFINITION

- Public Sector



- Academia



STAKEHOLDERS DEFINITION

- Private Sector



- Civil Society Organizations



Arriba' e La Chancha

Nación Pedal

Facilitando la movilidad urbana en bicicleta

1. PROMOTION OF ZERO AND LOW EMISSION VEHICLES



General Background

- ✓ High density of Taxis on the Transport Green Zone, more than 10 Taxi Ranks
- ✓ Taxi Restrictions (not enforced)
- ✓ Low Carbon technologies are available.



Proposal

Promote ZLEV in taxis and municipal fleets through pilot plans

The actions to be considered are:

- ✓ Pilot for taxis with ZLEV
- ✓ Charging station for EV
- ✓ Low Price/Free parking for ZLEV



2. LOW CARBON BUSES FOR PUBLIC TRANSPORT

General Background

- ✓ More than 30 Services cross the STGZ from the 5 main bus companies.
- ✓ Renovation of the fleet by contract (2015-2018).
- ✓ Low Carbon technologies are available.



Proposal

This initiative seeks promote the use of hybrid and electric buses for the next bus renewal process of Transantiago

3. PROMOTION OF BICYCLE USE



General Background

- ✓ **Santiago Borough** has evaluated a bike sharing system previously and promoting the bicycle mode
- ✓ Bicycles sharing experience in **Providencia borough**



Proposal

Promote the bicycle as a sustainable transport mode through 3 actions:

- ✓ Bicycle sharing pilot (5 stations and 50 bicycles)
- ✓ 2 Bicycle ways
- ✓ Delivery activities using bicycles instead of motorbikes



4. TRAFFIC RE-DESIGN AND TRAFFIC MANAGEMENT

General Background

- ✓ Providencia Borough has implemented underground parking, integrating car and bicycles
- ✓ Bus Public Transport has been placed away from Government House: **La Moneda** due to its “bad image”
- ✓ Santiago Borough has developed several projects for improving pedestrian mobility



Proposal

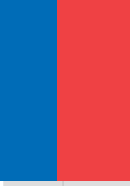
- ✓ Integrate bicycle parking to the existing car underground parking
- ✓ Pilot bus service (202) running next to the Government House
- ✓ More space for pedestrians in *Moneda st*





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CONCLUSIONS & DISCUSSION



- ✓ All the results from the 2 pilots related to new vehicle technologies will **prepare Chile to electromobility** in high scale
- ✓ Data from the pilot for buses in Transantiago will represent specific background of how hybrid and electric buses operate in our local situation, particularly useful for the next **massive Transantiago renewal process** (more than 2.000 buses between 2015 and 2018)
- ✓ Pilots for promoting electromobility seek to **reduce uncertainty** in:
 - Operational cost
 - Maintenance cost
 - Barriers due to use of new technologies
 - Batteries performance



CONCLUSION & DISCUSSION



Local conditions for implementing pilots with EV in buses and taxis are well coordinated so providers/manufacturers should be ready:

- ✓ **Define implementation costs** for electromobility (buses and passenger cars)
 - ✓ **Availability** of this technologies and support in Chile (possible dates, conditions, etc)
 - ✓ **Technical support**
 - ✓ Responding to **vandalism**
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