MEDELLÍN, A SUSTAINABLE CITY

ACI Medellín

Alcaldía de Medellín

Orden

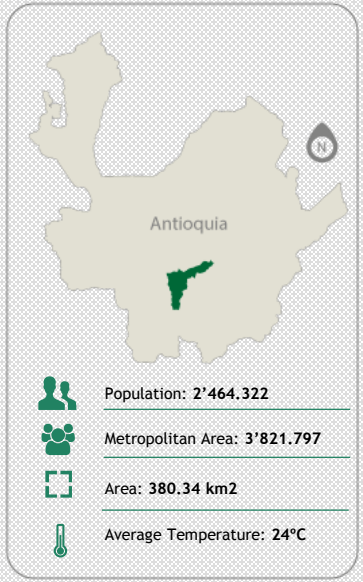
1. CONTEXT
2. ENERGY OVERVIEW
3. MOBILITY & TRANSPORT OVERIEW
   - Public Polices
   - Currently Project
   - Future Plans

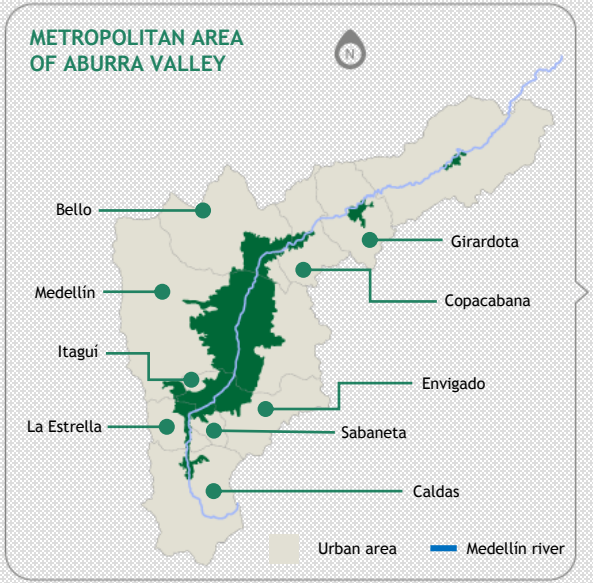
Alcaldía de Medellín

ACI Medellín

1. CONTEXT

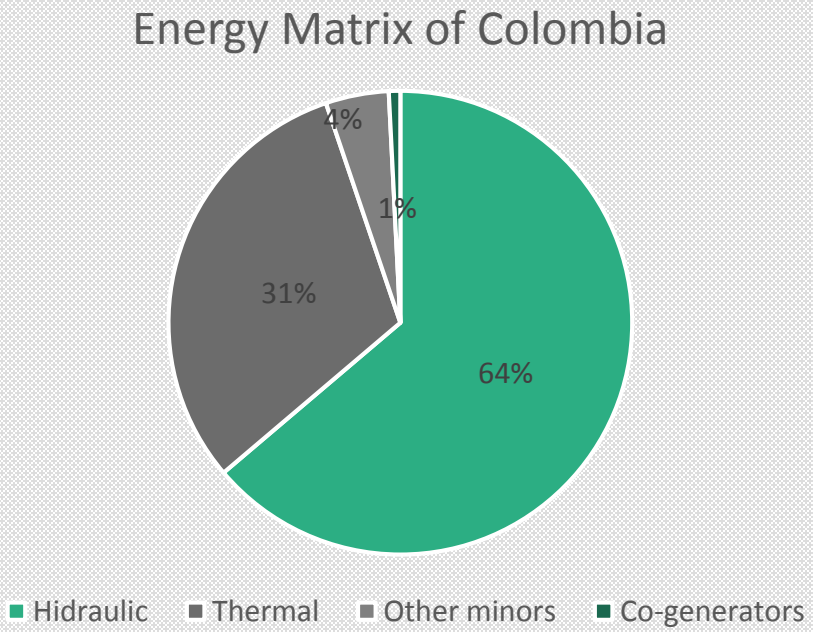
Geographic, Economic, Cultural & Historical Characteristics





2. ENERGY OVERVIEW

Colombia



CHALLENGES

1. Diversification of the energy matrix
   Expansion of non-conventional sources (> 15%)
2. Regulation of Law 1715 (Renewable Energies)
3. Incentives to individuals and the private sector.
4. Self-generation and distributed generation.
5. Integration of new technologies and users

2. ENERGY OVERVIEW

EPM

EPM is a **decentralized entity of the municipal order**. Created on August 6th of **1955**.

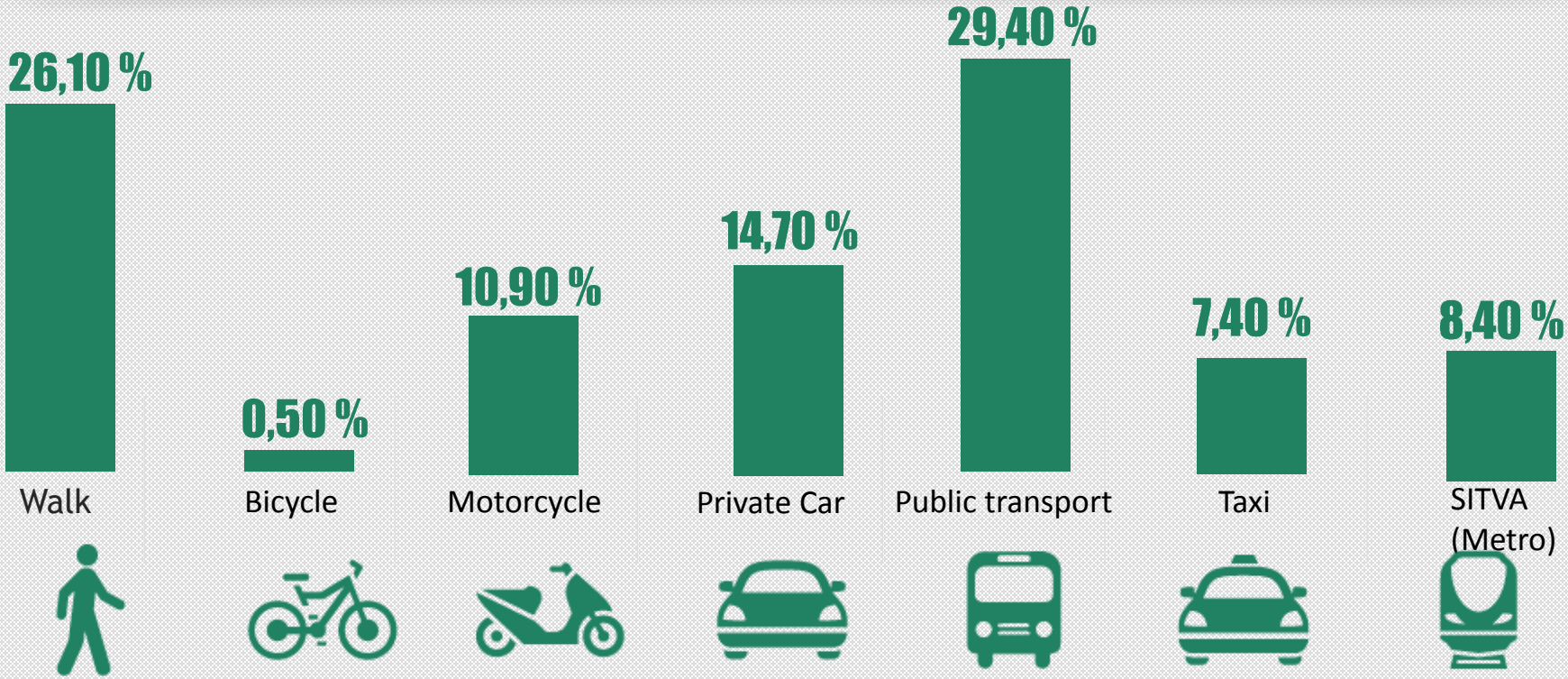
Revenues (1st semester 2017): 3.5 Billion COP
EBITDA: 1.5 Billion COP

30% of its profits are transferred every year to the Mayor Office of Medellín for the **implementation of social programs** like UVAs or the Tramway.

Energy | Water & Saneation | Natural Gas | Waste collection

3. MOBILITY & TRANSPORT OVERVIEW

Currently Situation



3. MOBILITY & TRANSPORT OVERVIEW

Challenges

80 %

of emissions affecting air and public health, come from mobile sources.

1.3

million vehicles are registered in the metropolitan area. It has increased by 61% in 7 years.

2.053 km

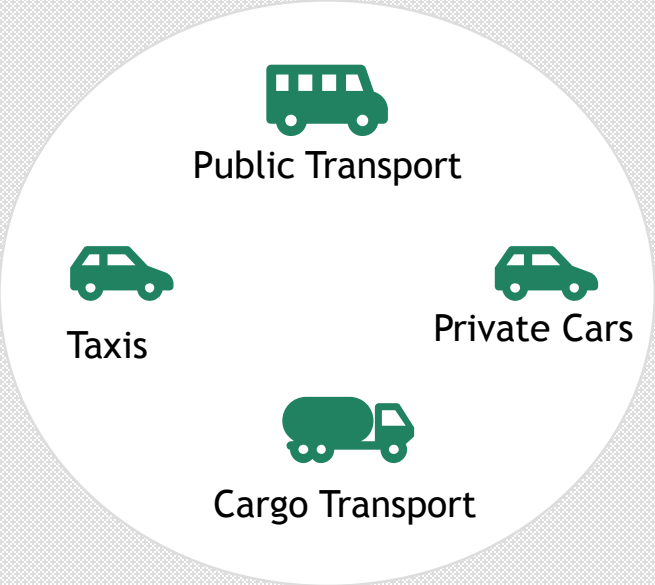
of streets, 300 bridges, 45 km of bike paths 4,100 km of sidewalks.

5.6

million trips approximately are generated in the Aburrá valley

4. ELECTRIC MOBILITY

Medellin's Future Plans



CHALLENGES

1. Public Transport: Adaptation of Technology. (The European experiences and the US have not adapted to the conditions of Medellín).
2. Private Cars: Increased supply at affordable prices.
3. Cargo Transport: Incentives for the purchase of green vehicles. (Business model)
4. Taxis: Authorization Ministry of Transportation to increase scrap - new electric vehicles.

4. ELECTRIC MOBILITY

Medellin's Future Plans

2009:
Technological surveillance

2012: 12 motorcycles & 10 Mitsubishi E MIEV

(Performance and develop a business model)

2014:2 fast charging stations (150.000 USD)

2015: Electric Buses Pilot Project (Metro de Medellín and Metropolitan Area) and Solar Vehicle with EAFIT (Private University)

2017: 5 Fast Charging stations & 15 Slow Charging Stations and Renting Car Pilot Project

4. ELECTRIC MOBILITY

Medellin's Future Plans

2018: CONSOLIDATE THE ECOSYSTEM OF ELECTRIC MOBILITY IN THE CITY

- BRT Pilot project (Metroplús)
- Networking with private suppliers: Mitsubishi, Renault, Kia, Nissan, BYD, BMW.

ευχαριστίες | Kiitos | Takk | Gràcies
謝謝 | Gracias | Terima kasih | Obrigado

THANK YOU

Grazie | Danke | رك ش | спасибо | Merci | 감사
Takk | Bedankt | Teşekkürler | Хвала | Díky

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