



Berlin High-level Dialogue on Implementing Rio+20 Decisions on Sustainable Cities and Urban Transport



JUNE 2013



ALCALDÍA MAYOR
DE BOGOTÁ D.C.



RIO+20
the future
we want →

BOGOTÁ
HUMANA



Urban Transport Planning for Sustainable Urban Development. Policies and projects for sustainable transport in Bogotá. A Different Approach for Human Development.

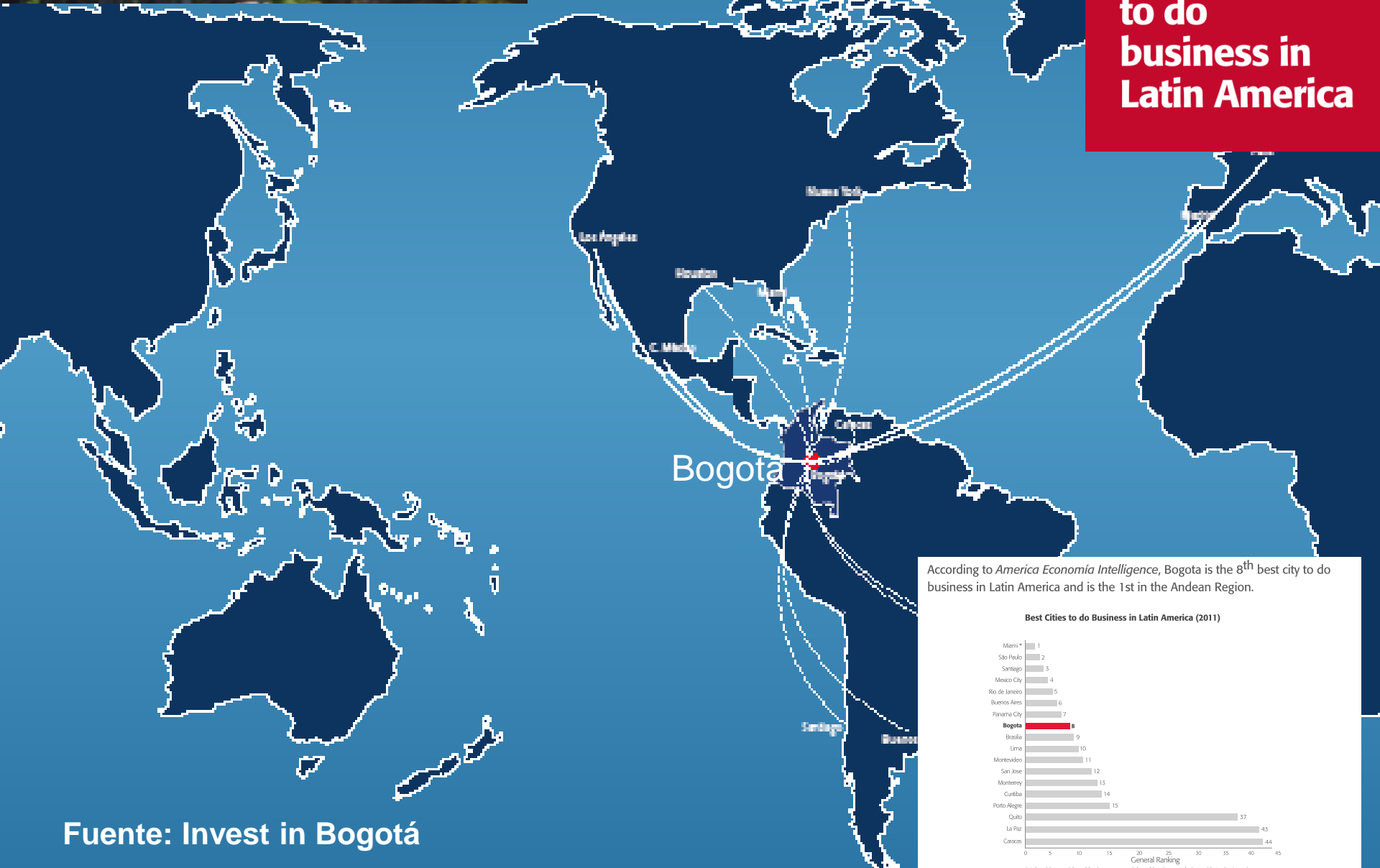
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District Planning Secretariat SDP
Msc. In Urban and Regional Planning.
Road and Transport Engineer.

JUNE 2013



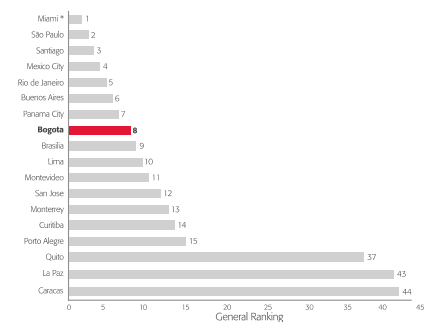
Bogota

➤ **Bogota is the 8th best city to do business in Latin America**



According to *América Economía* Intelligence, Bogota is the 8th best city to do business in Latin America and is the 1st in the Andean Region.

Best Cities to do Business in Latin America (2011)



Fuente: Invest in Bogotá

Bogota has

- **7.8 million inhabitants**

- **Colombia 47.1 million inhabitants**

- **Urban footprint**

- **44,000 Ha.**

- **440 Sq Km.**



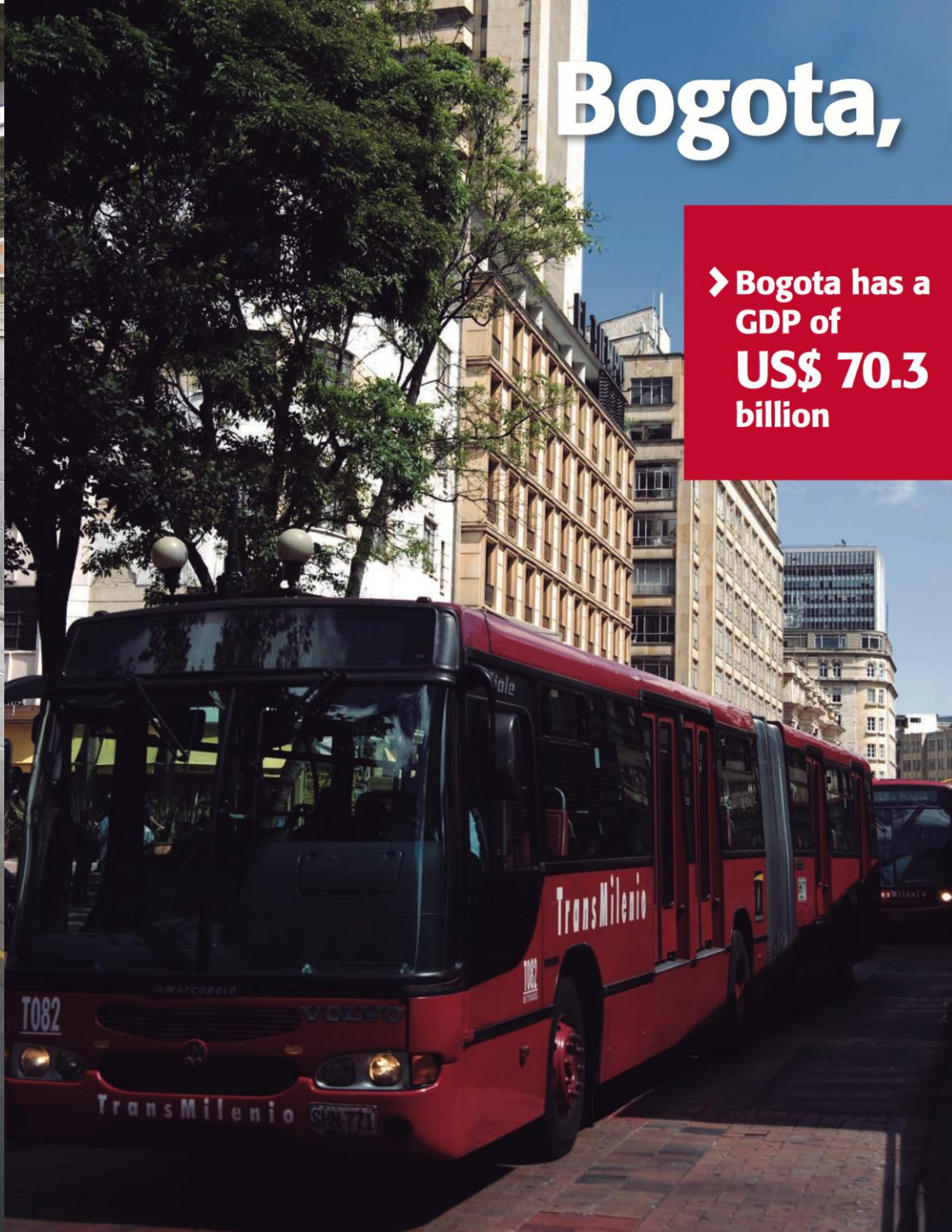
Bogota has

► Bogota has an average temperature of 66.2° F (19° C)



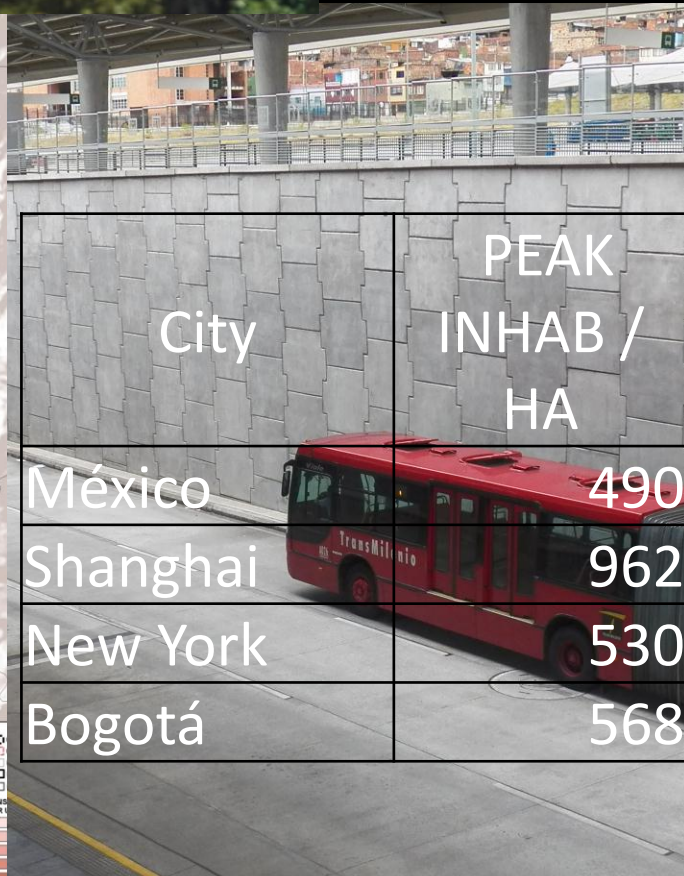
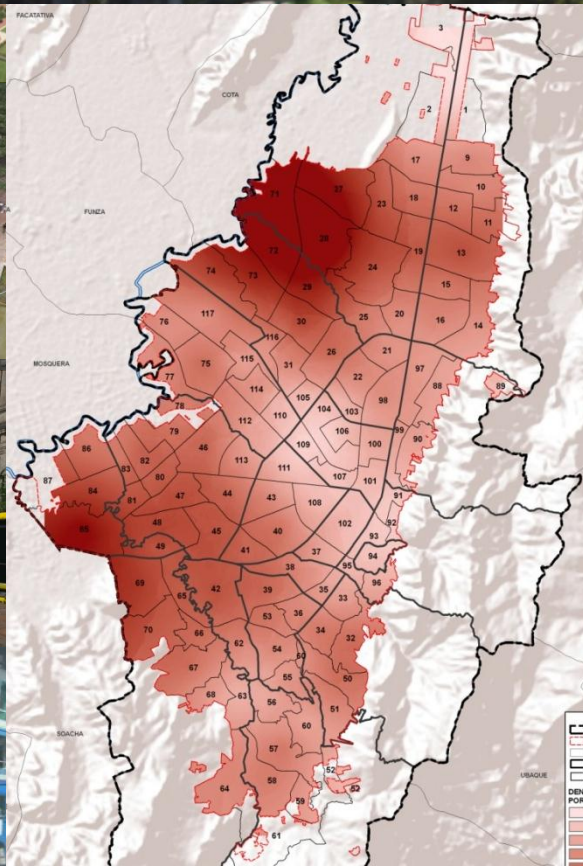
Bogota,

➤ Bogota has a
GDP of
US\$ 70.3
billion

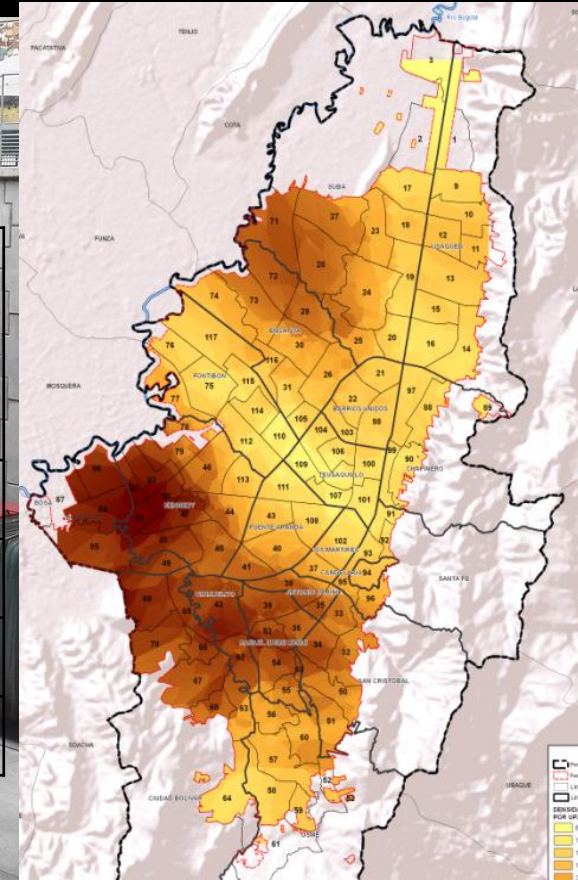


Bogota has

A HIGH DENSITY OF POPULATION



City	PEAK INHAB / HA
México	490
Shanghai	962
New York	530
Bogotá	568



Total Bogotá	Extended Down Town	Outside Down Town	Peak Density Bogotá
2.062.277 Densidad: 55.33 Houses/Ha	578.909 Densidad: 50.7 Houses/Ha	1.483.368 Densidad: 58.8 Houses/Ha	119 Houses/Ha
200 Inhab/Ha	168 Inhab/Ha	214 Inhab/Ha	568 Inhab/Ha

Bogota has

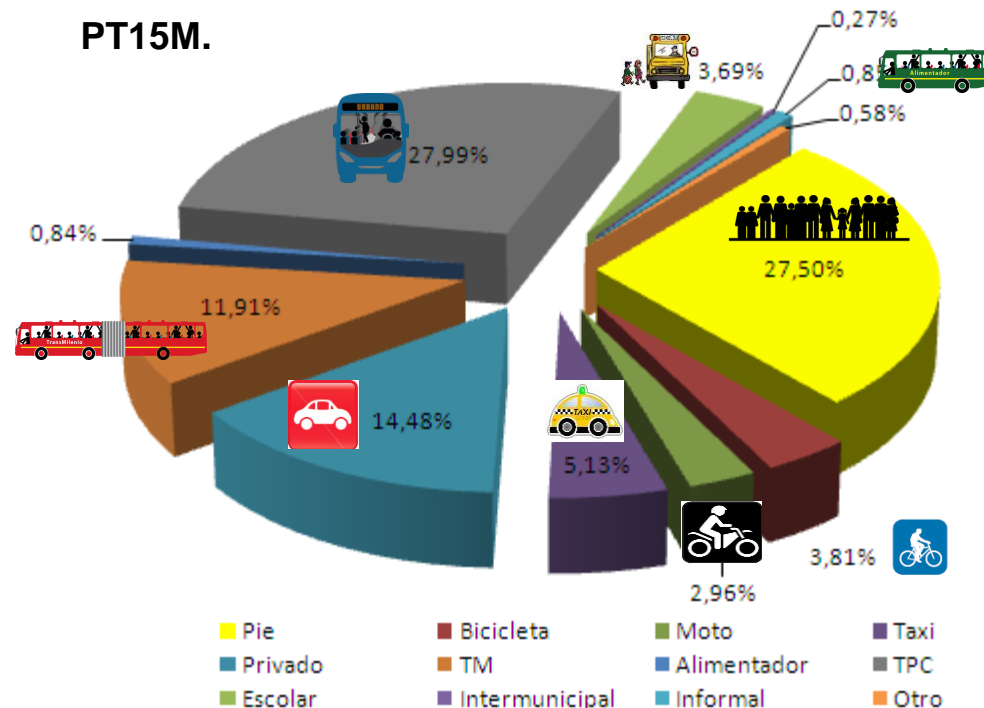
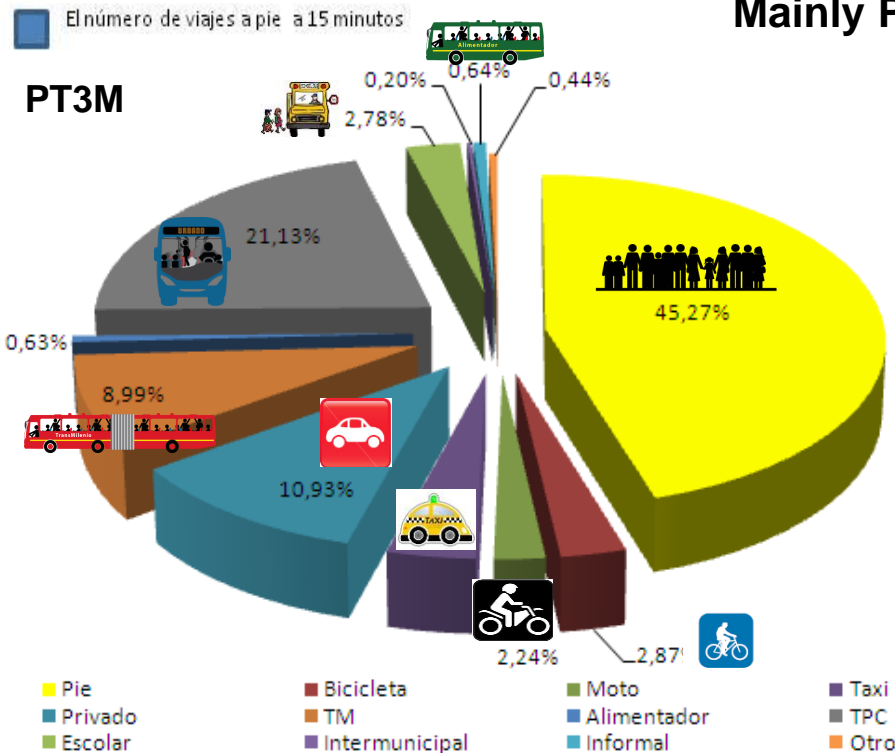
Sustainability Modal SHARE

Daily Travels including Pedestrian Travels 3 minutes (PT3M) 15.2 M.
 Travels 15 minutes (PT15M) 11.6 M.



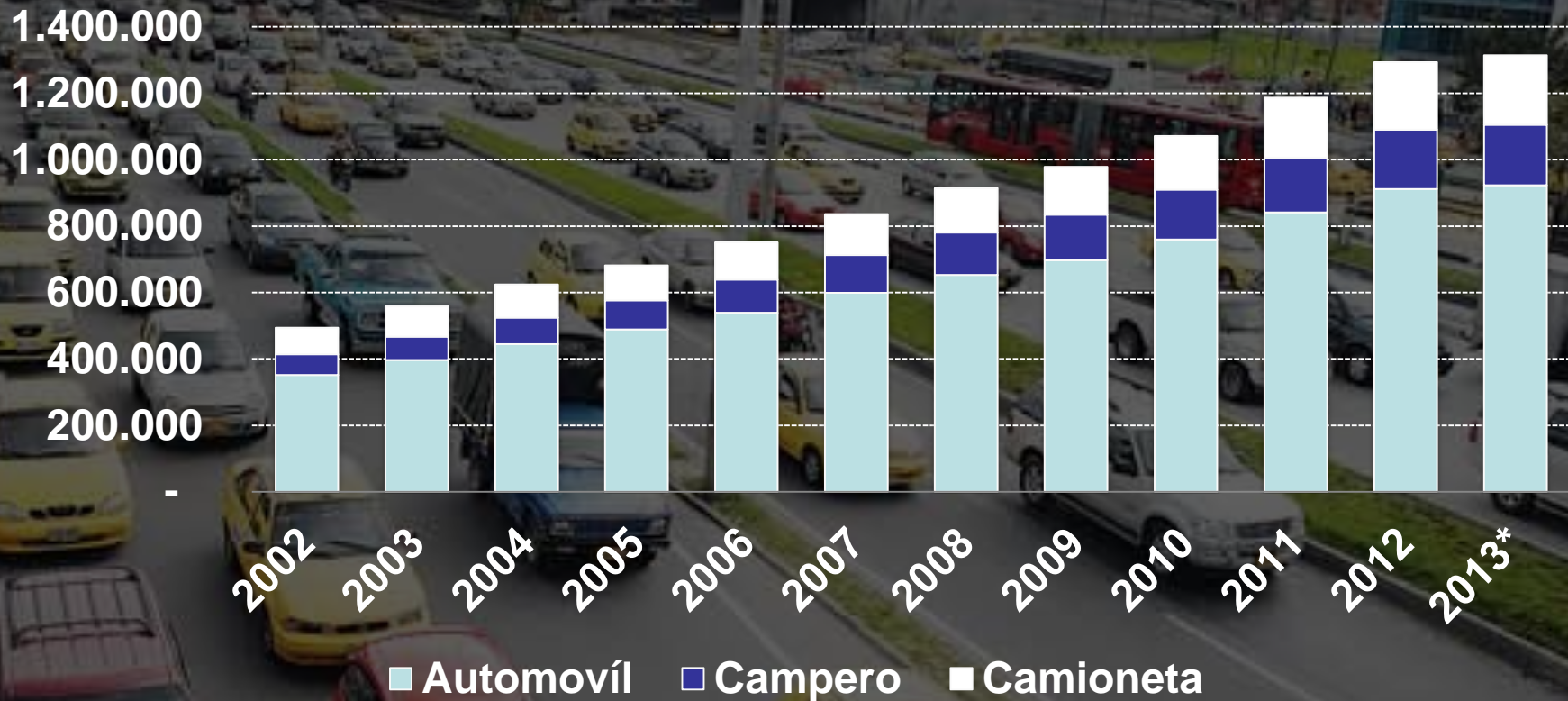
Pie	Bicicleta	Moto	Taxi	Privado	TM	Alimentador	TPC	Escolar	Intermunicipal	Informal	Otro	TOTAL
6.948.709	441.135	343.505	594.747	1.677.884	1.379.549	96.873	3.242.899	427.475	30.730	98.992	67.478	15.282.498
45,47%	2,89%	2,25%	3,89%	10,98%	9,03%	0,63%	21,22%	2,80%	0,20%	0,65%	0,44%	
3.186.483	441.135	343.505	594.747	1.677.884	1.379.549	96.873	3.242.899	427.475	30.730	98.992	67.478	11.587.750
27,50%	3,81%	2,96%	5,13%	14,48%	11,91%	0,84%	27,99%	3,69%	0,27%	0,85%	0,58%	

Mainly Pedestrian 6.9 Millions Daily Travel. + 3 minutes.



Bogota has

MOTORIZATION INCREASE



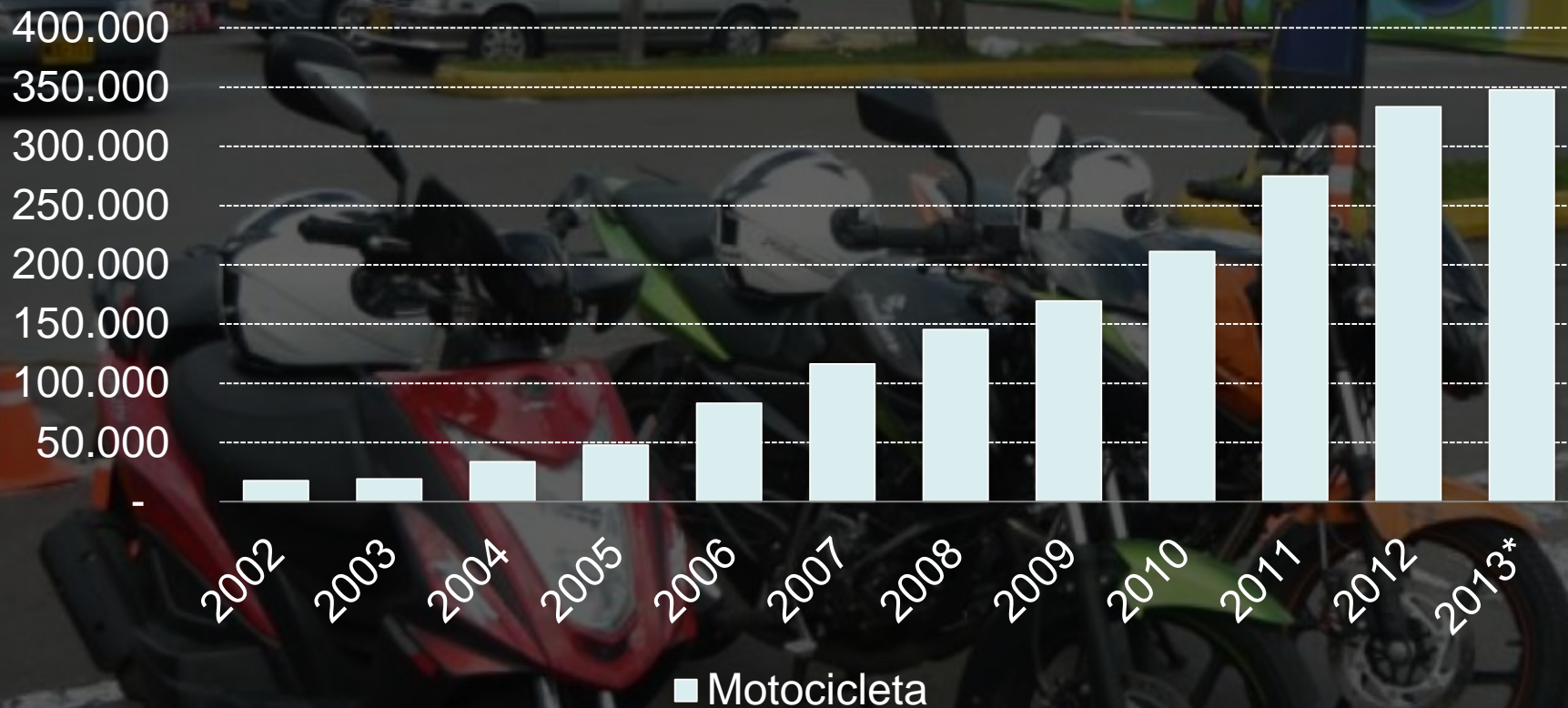
Fuente: RDA - SIM, 2013.

1.286.949 private vehicles

Average growth annual last decade 10%

Bogota has

MOTORIZATION INCREASE Motorcycles



Fuente: RDA - SIM, 2013. datos a 31 de marzo de 2013.

347.529 motorcycles

Bogota has

CICLOVIA

MAPA DE LA CICLOVIA



Mobiliario Tipo A

- Usted puede encontrar:
1. Punto de información
 2. Punto de estabilización o atención de Primeros Auxilios
 3. Puntos de alimentación
 4. Puntos de hidratación
 5. Servicio de baño
 6. Ciclotaller
 7. Accesorios para bicicletas
 8. Cicloparqueadero

Mobiliario Tipo A-1

- Usted puede encontrar:
1. Puntos de alimentación
 2. Puntos de hidratación
 3. Servicio de baño
 4. Ciclotaller
 5. Accesorios para bicicletas
 6. Cicloparqueadero

Mobiliario Tipo B

- Usted puede encontrar:
1. Punto de información
 2. Punto de estabilización o atención de Primeros Auxilios
 3. Puntos de alimentación
 4. Puntos de hidratación
 5. Servicio de baño
 6. Ciclotaller
 7. Cicloparqueadero

Mobiliario Tipo C

- Usted puede encontrar:
1. Punto de información
 2. Punto de estabilización o atención de Primeros Auxilios
 3. Puntos de hidratación
 5. Servicio de baño
 6. Cicloparqueadero

Deporte extremo



During Sunday and holidays, between 7:00am y las 2:00pm, city transforms, 120 Kms., of it's principal roadways in an space for sports. Giving to more than 1.5 millions inhabitants the opportunities to enjoy different activities. Including walking, running, skating, aerobics, yoga, and music shows outdoor



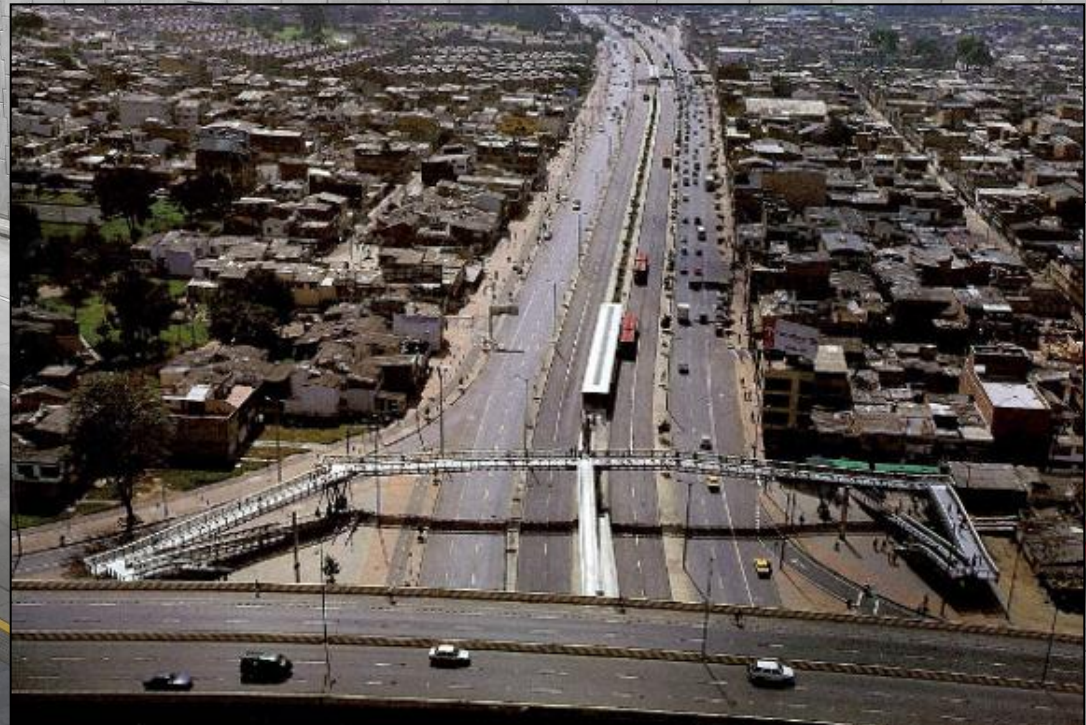
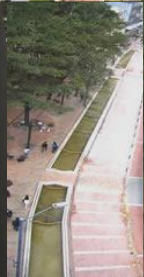
Bogota has

IN MOBILITY...



Bogota has

BRT WELL DONE



http://app.idu.gov.co/sist_vial/f1_eje_ambiental.asp
<http://www.panoramio.com/photo/20296> Jairo A. Afanador

Bogota has

BRT WELL DONE



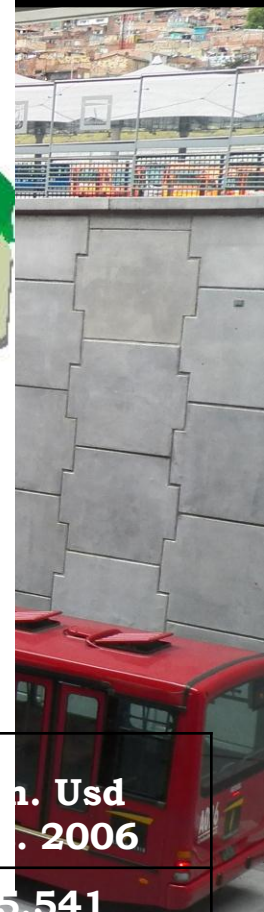
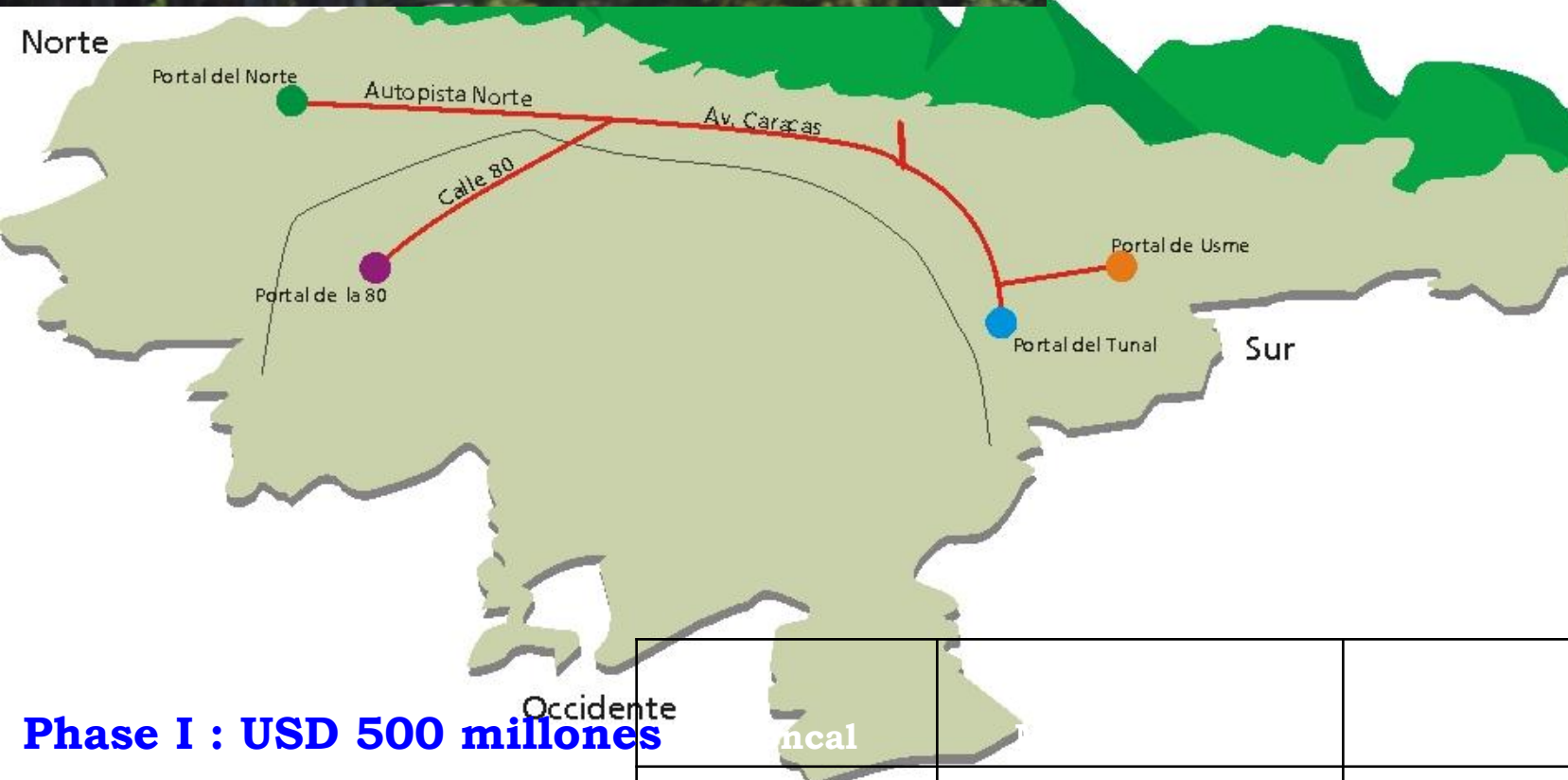
TransMilenio – Phase I (2000): Calle 80, Caracas y Autopista Norte - 42,2 Km

TransMilenio – Phase II (2006) : Américas, Av.Suba, NQS – 42,2Km

TransMilenio – Phase III (Under construction) : Calle26, Carrera 10 y Calle 6 – 23,5 Km

Bogota has

BRT WELL DONE



Phase I : USD 500 millones

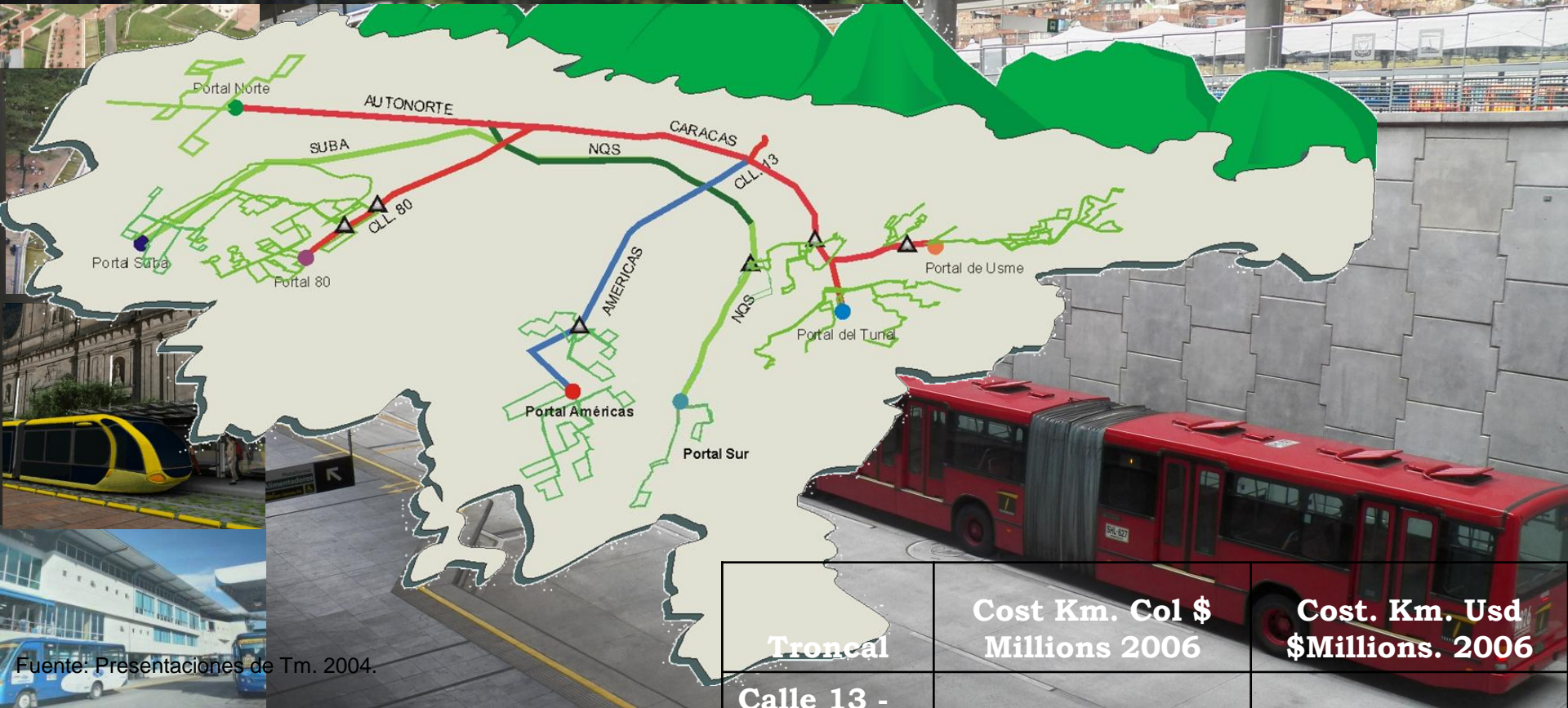
	Costo en millones de pesos	Costo en millones de Dólares (2006)
Calle 80	\$ 35.434	US \$ 15.541
Caracas	\$ 20.945	US \$ 9.186
Autonorte	\$ 28.877	US \$ 12.665
Eje Ambiental	\$ 12.999	US \$ 5.701
Promedio Fase I	\$ 25.984	US \$ 11.396

Fuente: Presentaciones de Tm. 2004.



Bogota has

BRT WELL DONE



Fuente: Presentaciones de Tm. 2004.

Phase II : USD 910 millones

Troncal	Cost Km. Col \$ Millions 2006	Cost. Km. Usd \$Millions. 2006
Calle 13 - Américas	\$ 35.377	US \$ 15.516
NQS	\$ 56.132	US \$ 24.619
SUBA	\$ 53.117	US \$ 23.297
Promedio Fase II	\$ 49.042	US \$ 21.510

Fuente: Plan Marco Sistema Transmilenio - 2007

Bogota has

BRT WELL DONE

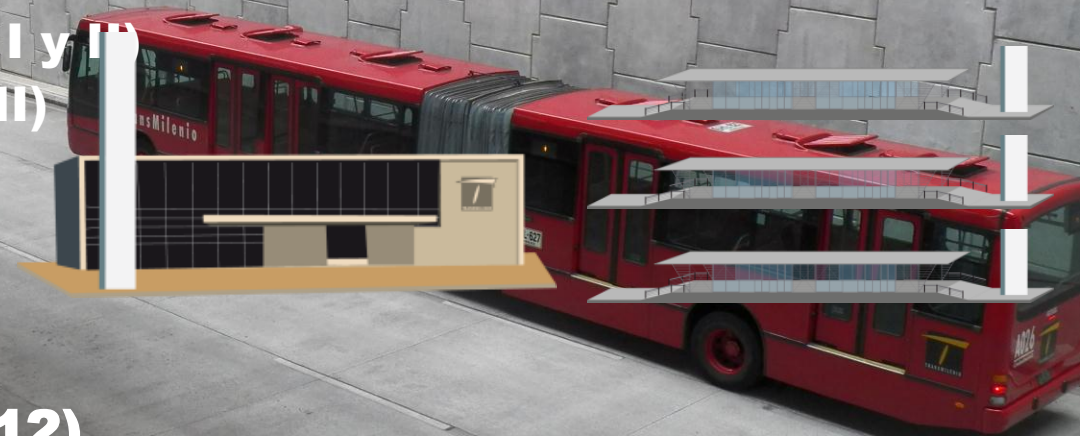
Fleet

- 72 Biarticulated Buses
- 1.255 Articulated Buses
- 515 Feeder Buses



Infrastructure

- 115 Single Stations (Phase I y II)
- 20 Single Stations (Phase III)
- 7 Portals (Phase I y II)
- 2 Portals (Phase III)
- 8 Intermedial Stations

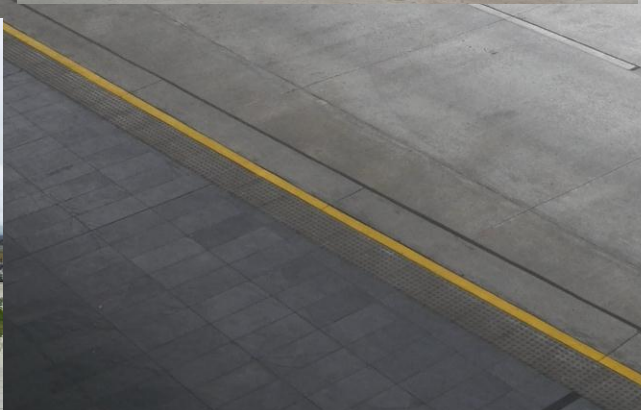


Demand 1st semester 2012)

- Average Peak hour: 199.271
- Máx Peak hour : 205.342
- Average Daily: 1.741.659
- Max Daily: 1.789.887



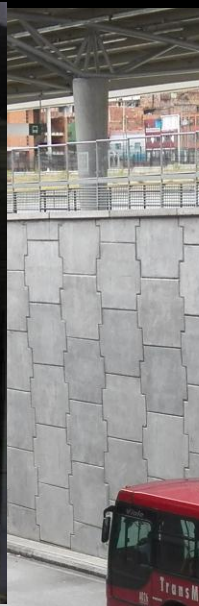
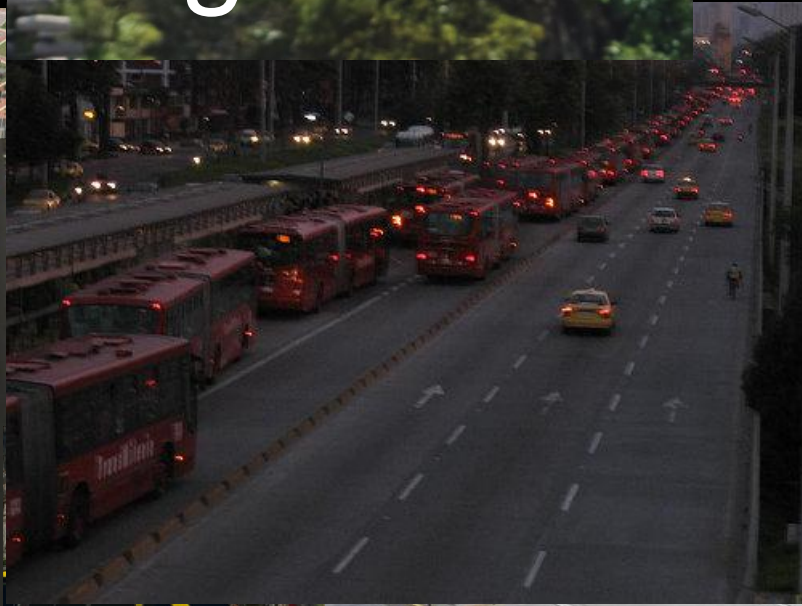
Bogota has Urban Intervention around BRT not so well done



07/07/2008 11:08 AM

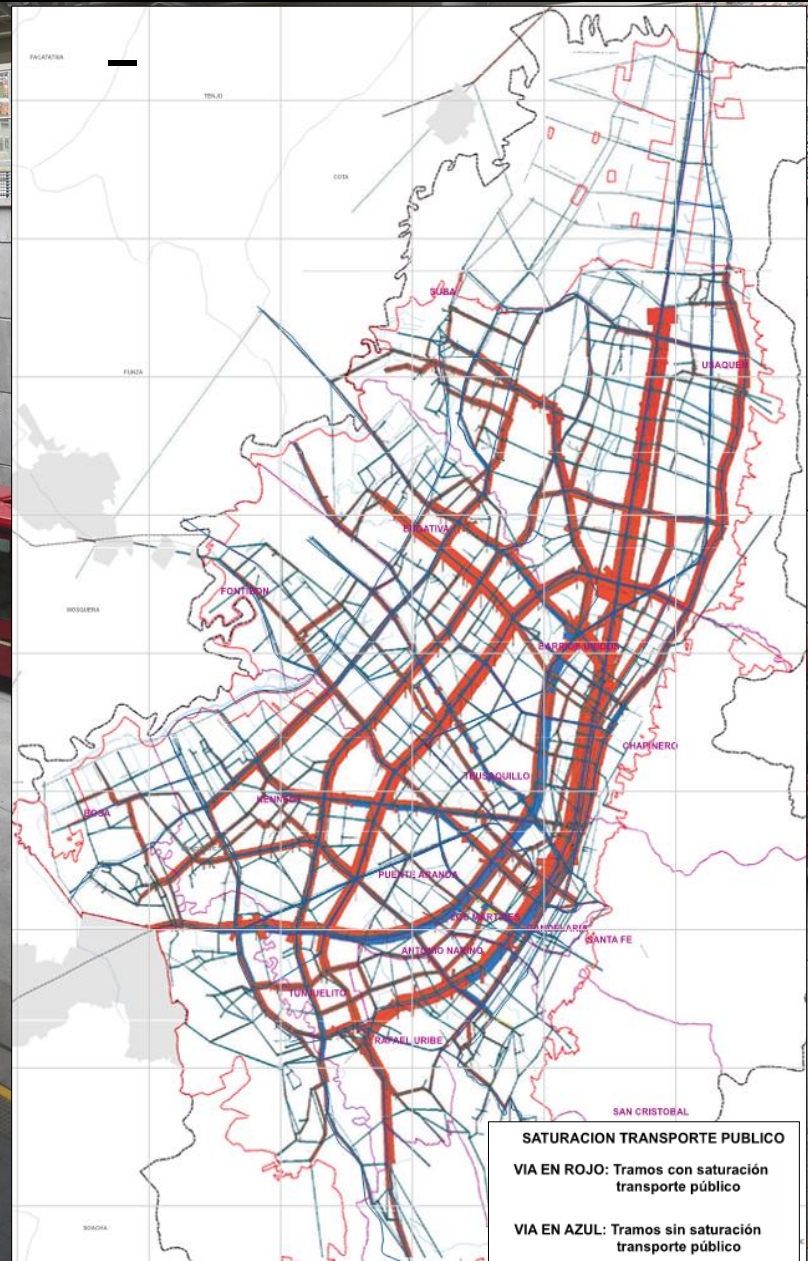
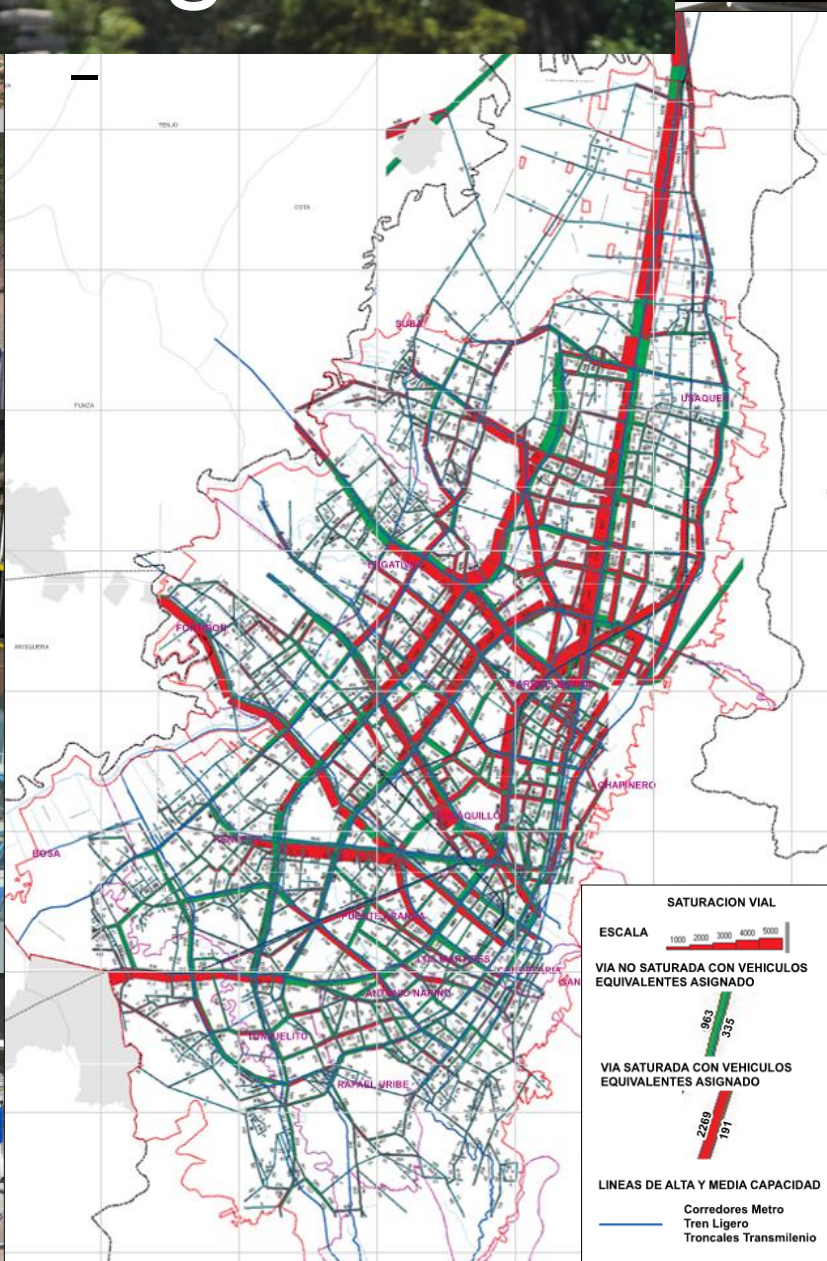
Bogota has

Peak Hour overcrowding not so well done



Bogota has

CONGESTION, POLLUTION, WASTE OF TIME...



Bogota has

A LOT OF WORK TO DO...

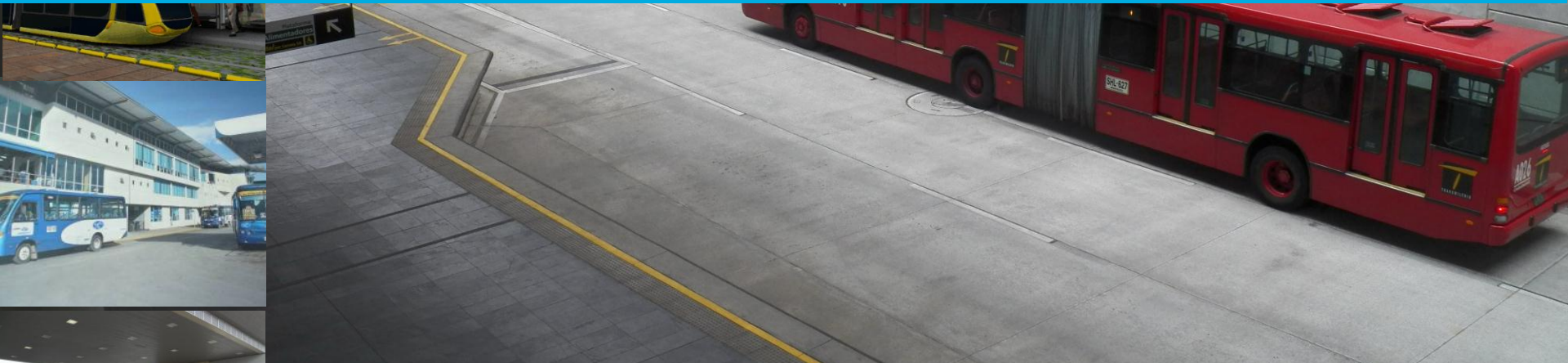


Bogota has

A WAY TO MOVE FASTER AND EFFICIENTLY



Sistema Integrado de Transporte Público de Bogotá



Bogota has

...IMPLEMENTATION PHASE OF SITP



Sistema Integrado de Transporte Público de Bogotá



Bogota has

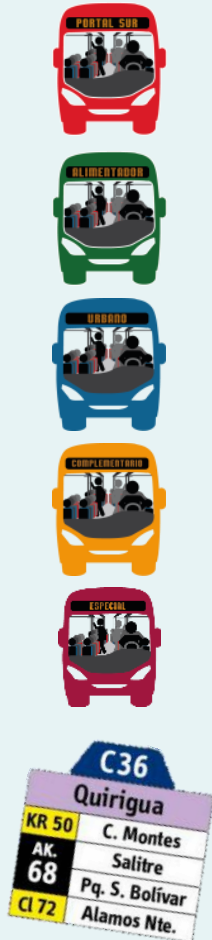
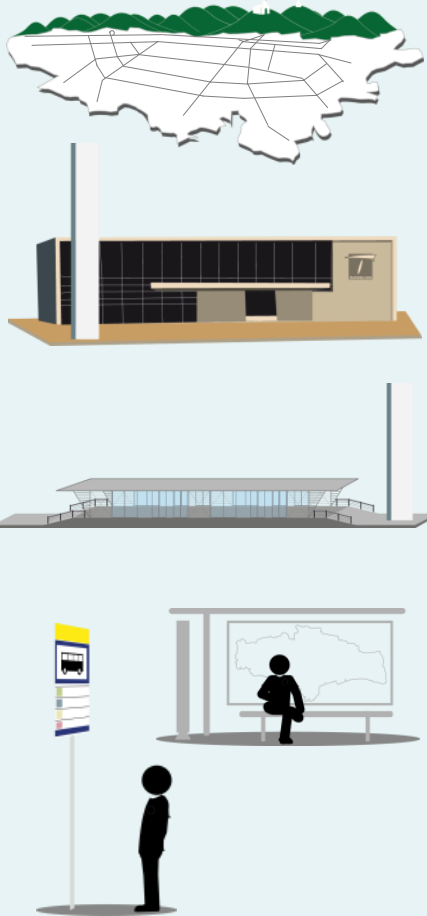
...PURPOSE AND SCOPE OF INTEGRATED PUBLIC TRANSPORT - SITP

Infrastructure

Operation

SIRCI Collection and Integrations of fee options

Media Press and Communication



Bogota has

...DREAMS AND HOPE IN FUTURE



Bogota has

...THE URBAN PLANNING IN DISCUSSION



plan de
ordenamiento
territorial
POT



Bogota

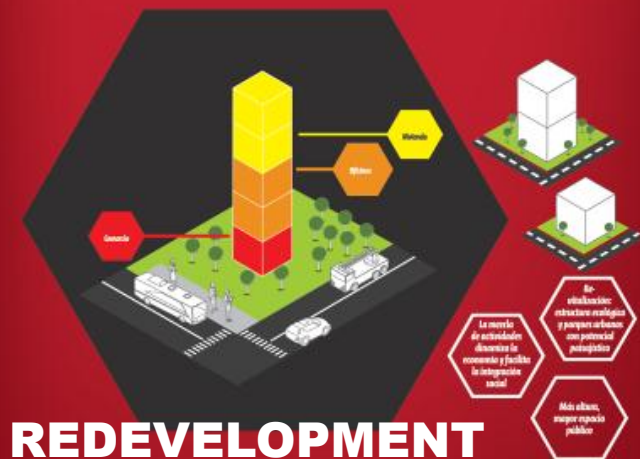
...MUST THINK, TALK, AND DECIDE ON

COMPACT CITY

Bogotá COMPACTA



LAND USES



REDEVELOPMENT



CLIMATE CHANGE



MITIGATION MEASURES

1 Medidas de mitigación

- Movilidad con sentido
- Ciudad Compacta

2 Medidas de adaptación

- Construcciones sostenibles
- Liberación de espacios



ADAPTATION MEASURES

Bogota

...MUST THINK, TALK, AND DECIDE ON

MOBILITY WITH SENSE

Movilidad
CON
SENTIDO

+

Transporte
público

=

Movilidad
(reducción de
tiempo)

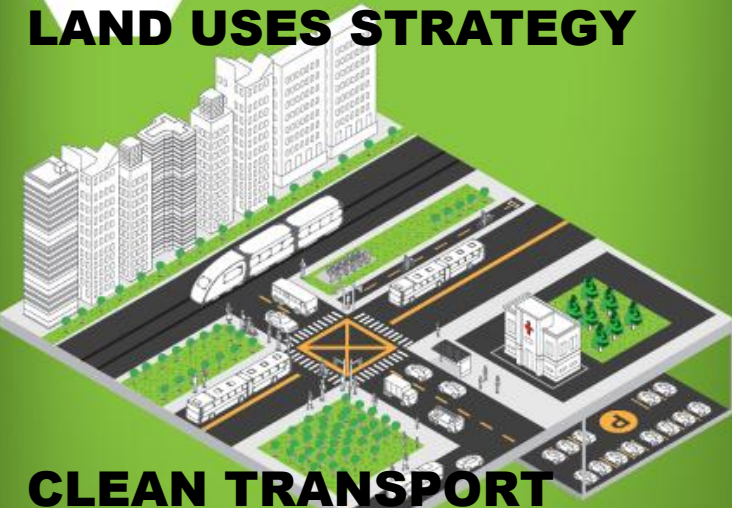
+

Mezcla de
usos

Ciudad
Compacta

Densificación

LAND USES STRATEGY



SIMPLICITY

112
decretos
de UPZ

17
planes
maestros

Otras
normas

Acuerdo 6
Acuerdo 7

Decreto
159/2004

Decreto
333/2010

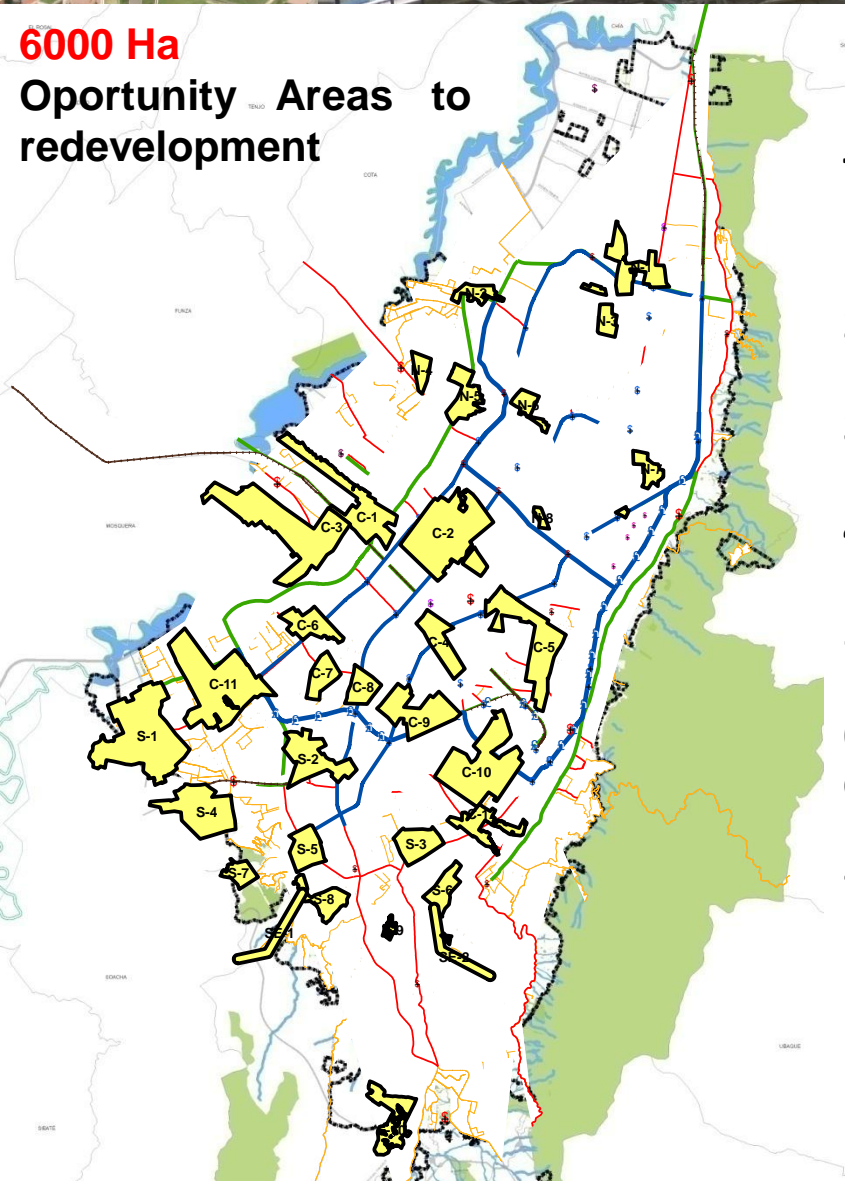
TRANSPARENCY



INSTRUMENTS FOR WINNER PPP

Bogota has ...TO DESIGN IN TRANSIT ORIENTED DEVELOPMENT

6000 Ha
Opportunity Areas to redevelopment



TODS KEYS

1. Non Motorized Mobility
2. Public Transport of High Quality
3. Public Spaces Safe and Livability
4. Mix Land Uses– High Rise Buildings
5. Retail in the first floors.
6. Management of cars and Parking. Congestion charges.
7. Land Value Capture and Betterment Levy
8. . Participation and community safety



Transporte publico



Desarrollo urbano



Bogota has

...TO DESIGN INTERMODALITY

TYPE 1



LEHRTER BAHNHOF BERLIN



ARNHEM CENTRAL STATION

Type 1. Real estate development in itself: Station with mixture of other uses

TYPE 2



ESTACION CENTRAL TRANSMILENIO



ESTACION DE LA SABANA - METRO

Type 2 Real estate developments in the immediate vicinity of the station

TYPE 3



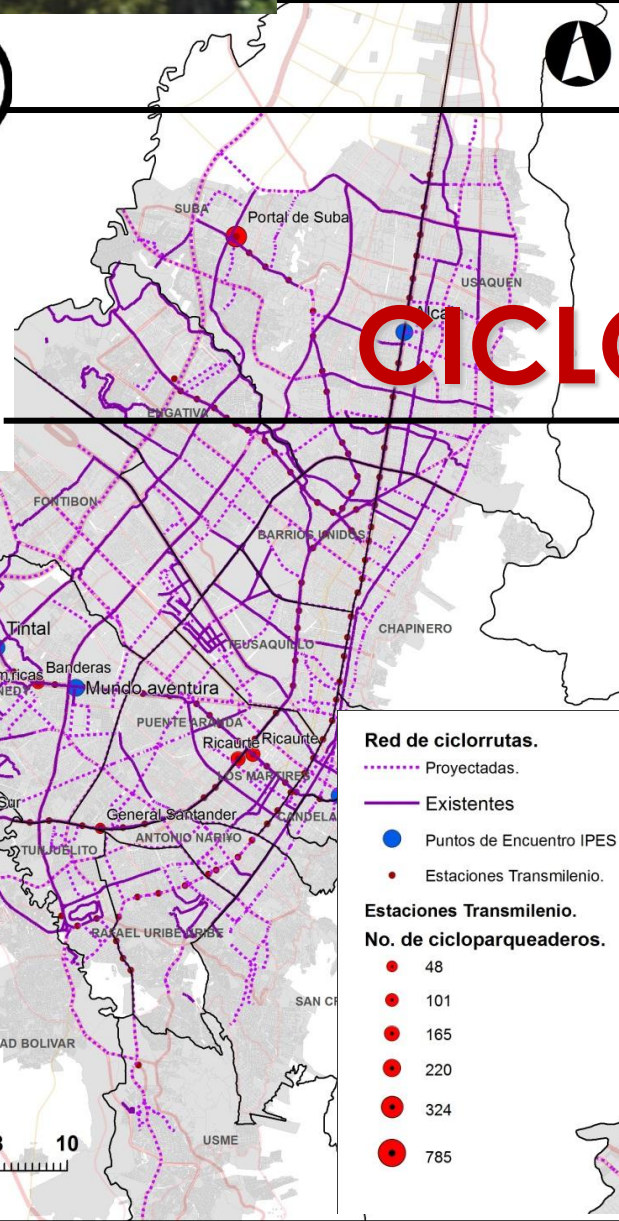
CORREDOR TRANSPORTE MASIVO - CURITIBA

Type 3. Real estate developments due to the effect of the transport corridor.



Bogota has

...TO COMPLETE AND TO IMPLEMENT OUR BIKE NETWORK



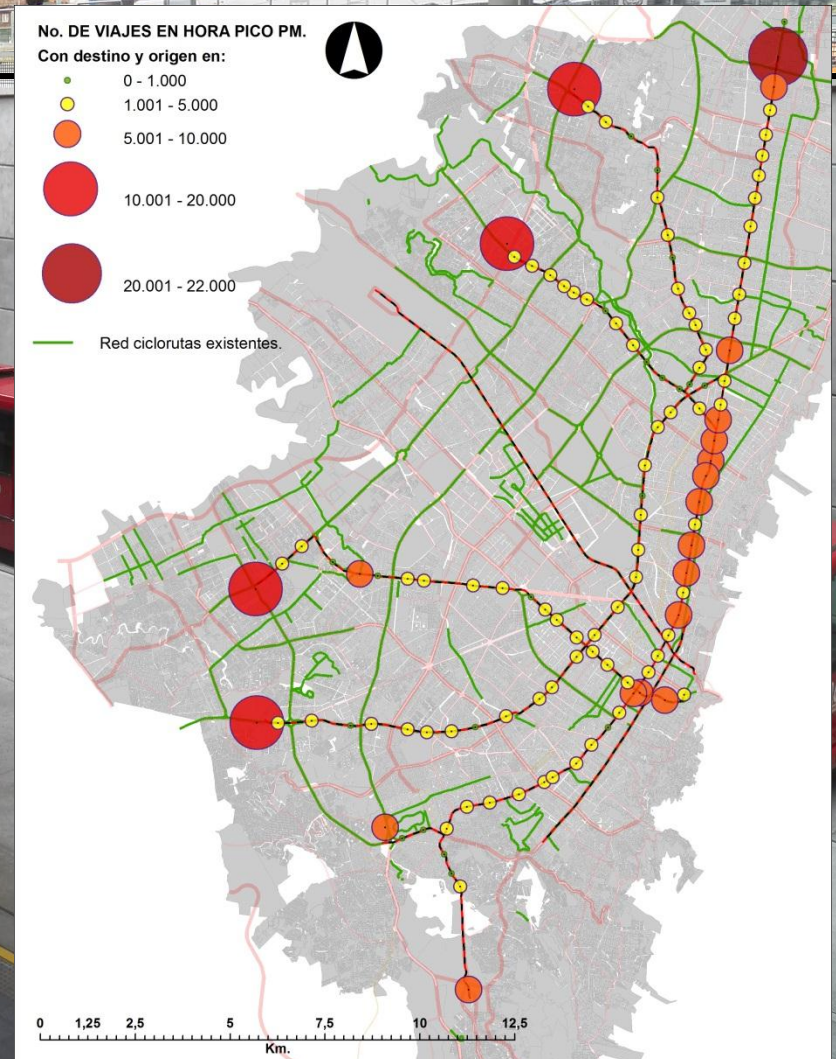
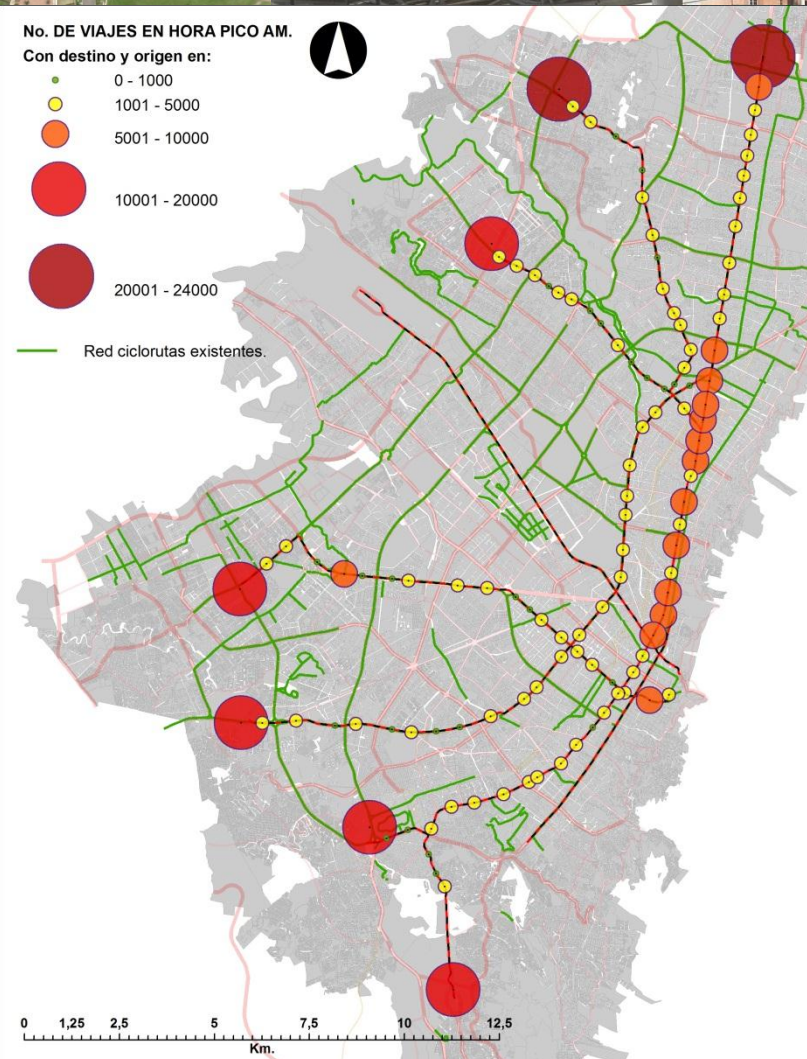
- Red de ciclorrutas.**
- Proyectadas.
 - Existentes
- Estaciones Transmilenio.**
- Puntos de Encuentro IPES
 - Estaciones Transmilenio.
- No. de cicloparqueaderos.**
- 48
 - 101
 - 165
 - 220
 - 324
 - 785



CICLORRUTAS Y CICLOPARQUEADEROS

Bogota has

...BIKE OPPORTUNITIES AROUND BRT STATIONS



AM

PM

Bogota has ...BICICARRIL. EXCLUSIVE BIKE LANES TO SCHOOL



Bogota has

...PEDESTRIAN 7TH STREET



BEFORE



AFTER

Bogota has

...PUBLIC BIKES, experimental Phase in 7th Street



Station Points.

**Carrera 7ma con Calle 24
Parque Santander (Carrera 7ma**

con Calle 15)

**Plaza de Bolívar (Carrera 7ma
con Calle .**

**Only your ID, an e-mail and Ride
382 Bike to ride.11)**



Bogota has



... METRO...



SE



Bogota has

...a lot of sensations, enjoyable moments,
and all our kidness, you are welcome



Thanks all of you