

#### **RETROFIT VEHICLES IN MEXICO CITY**

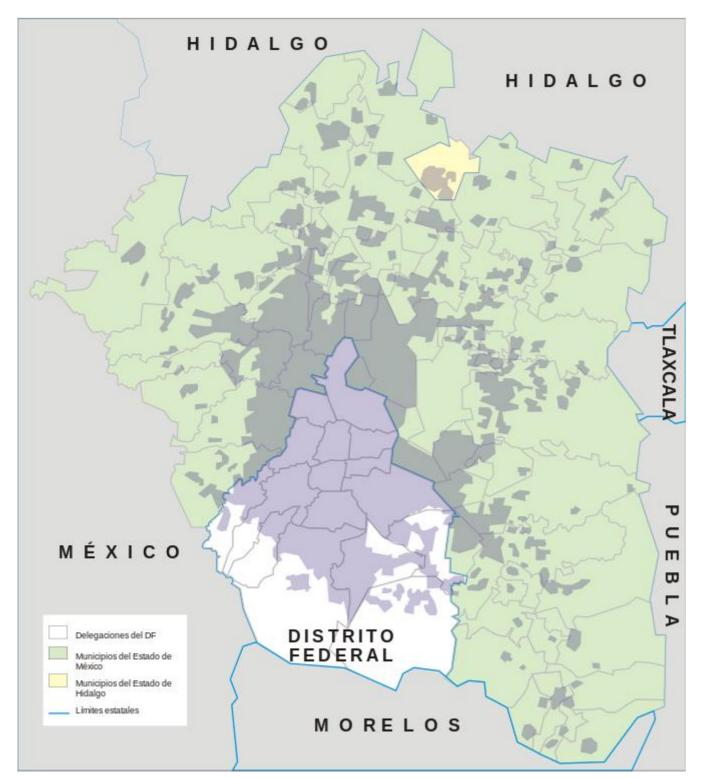


#### MINISTRY OF ENVIRONMENT AND PASSENGER TRANSPORT RED

**7 FORO VERT MARCH 2016** 

### **MEXICO CITY METROPOLITAN AREA**





Mexico City Metropolitan Area:16 boroughs of Mexico City59 municipalities of the state of Mexico1 municipality of the state of Hidalgo.

#### Mexico City Metropolitan Area population:

Just over 20 million, making it the largest metropolitan area in North America followed by the New York metropolitan area.

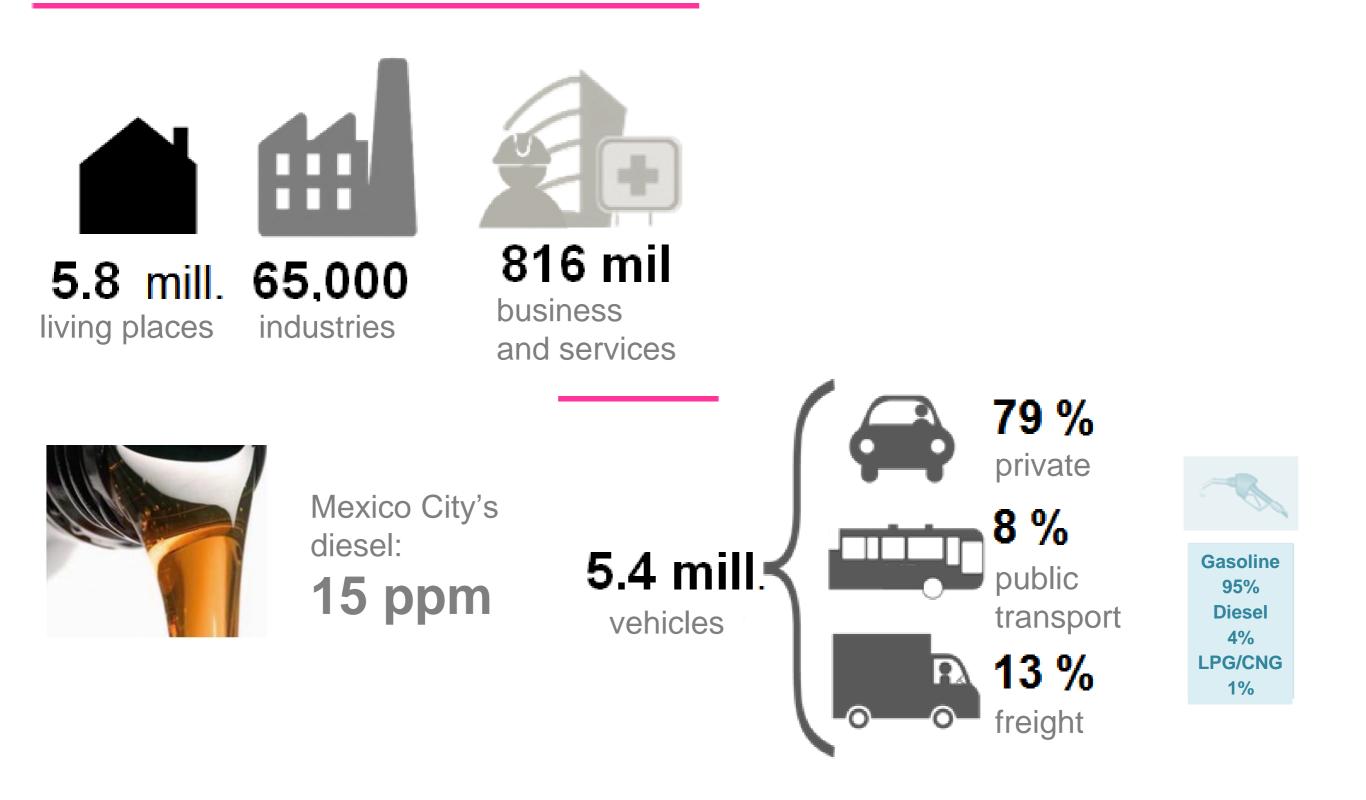
# Mexico City Metropolitan Area geography and environment:

Spreads over the valley of Mexico, at an average of 2,240 m (7,349 ft) above sea level.

The valley of Mexico is surrounded by mountains creating a basin with only one small opening at the north, trapping all exhaust emissions of the city.

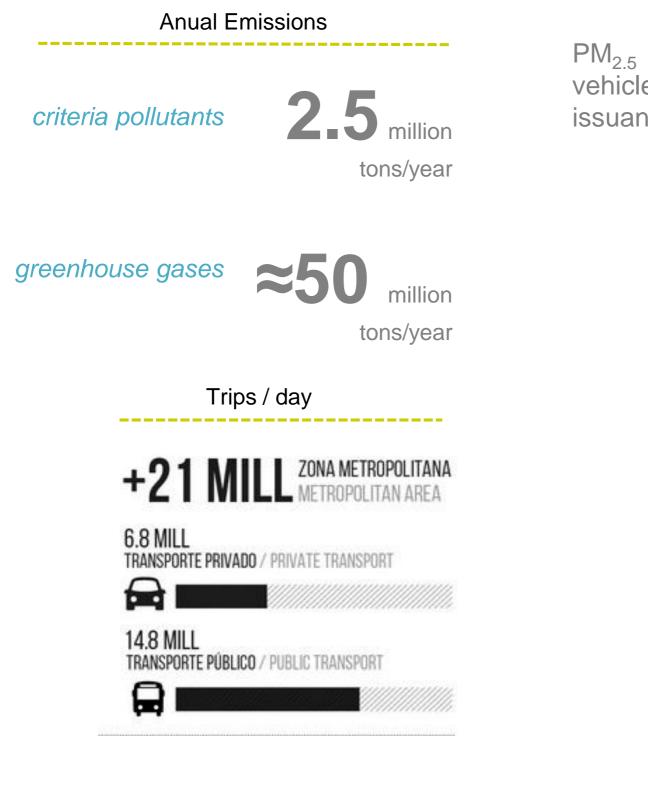
# BACKGROUND



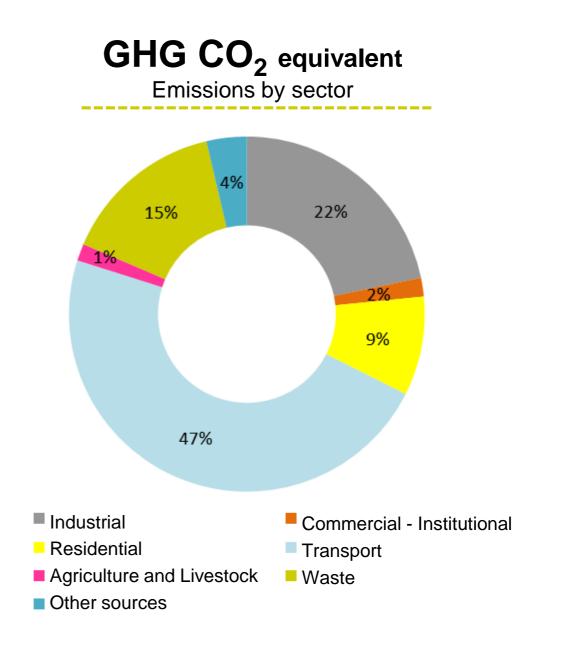


### BACKGROUND





 $PM_{2.5}$  emissions from combustion processes of diesel vehicles is the second category of importance for issuance, contributing to 15 % in MCMA.



## AIR QUALITY MANAGEMENT TOOLS

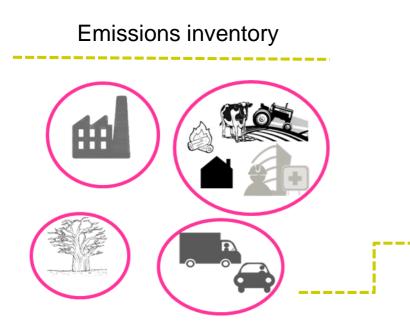


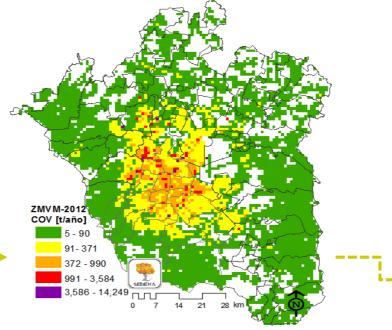
- Programs, laws, regulations y standards
- Air quality monitoring
- Emissions inventory and PROAIRE

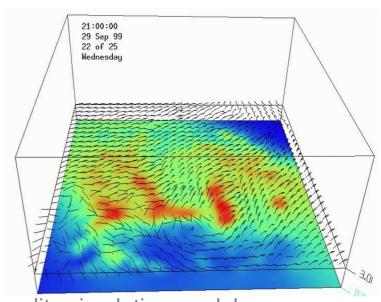
Mobile sources and sustainable transport programs



Monitoring network with 28 stations







Air quality simulation models



(potential) 6500 vehicles under selfregulation







Year 2016 - 2018

400 RTP vehicles

> for DPF retrofit> & for substitution







(potential) 1600 garbage trucks



### **RTP – PASSENGER PUBLIC TRANSPORT**

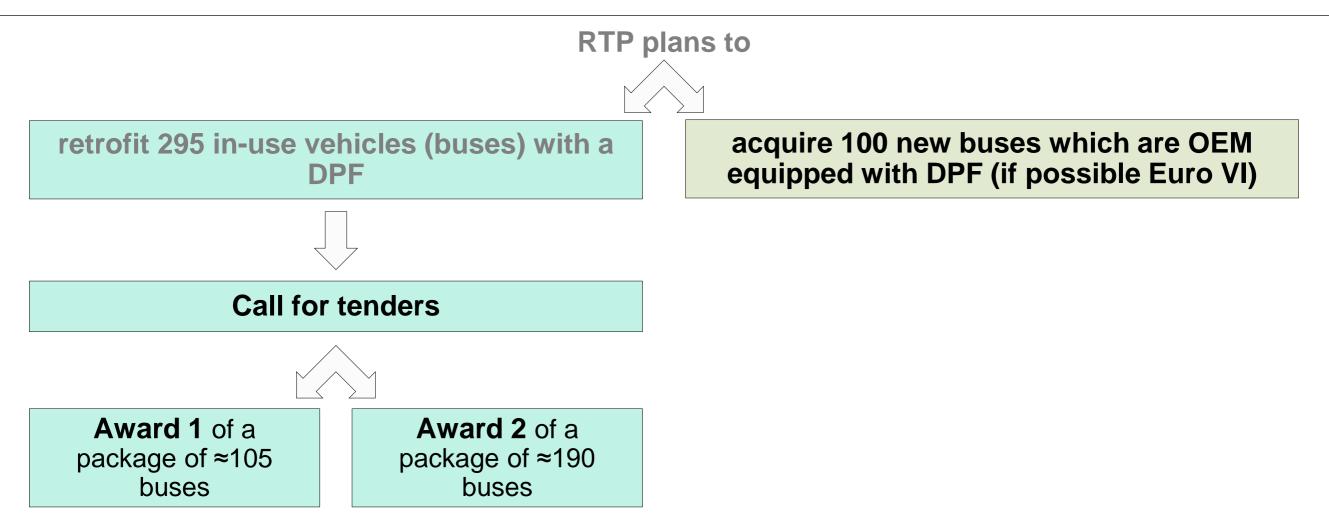
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- RTP is a decentralized government company
- Represents 17% of the population mobility in the city
- Fleet 1,357 buses
- Offers service to 490,000 users per day on 94 routes

## DPF program of RTP of Mexico City (for 2016)





Two awards:

- to maximize experience and to establish competition with view to future market
- both are realized in two stages, with the same conditions but each with a specific vehicle categories / list
- offers can be submitted to both packages, however each package will have a different winner



Туре	<b>&amp; N</b> °	Kind of Service Chassis		Engine					
	of this type	(Scholar bus, Trunk, Zonal)	Brand & model	Ø age	Brand & model	Ø age	Ø km per year	Power (kW)	Emission class
A	239	Ordinary	Mercedes/B enz/Torino	2006	OM906LA	2006	85,000	230	EURO III
В	145	Expreso	Mercedes/B enz/Torino	2009	OM906LA	2009	86,000	230	EPA04
С	105*	Scholar bus	Internationa I/Reco	2009	DT466	2009	15,000	175	EPA04

\*first stage

#### ➢ Retrofit (with DPF) of ≈ 105 scholar buses in two steps

- Step 1: retrofit N\* buses and run a 3-month demonstration test in real operation. \*N necessary to demonstrate compatibly (minimum 3)
- Step 2: if all retrofits successfully pass the test, implement the remaining 147 buses

# Establishment of a local DPF service organization in cooperation with a competent local firm / representative

- providing support to DPF provider for the installation of the DPFs
- performing aftersales DPF service / maintenance of all installed DPFs (in accordance with aftersales service contract)

#### Certified DPF system according FOEN and CARB list



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