

1. Monitoring levels of PM₁₀ across CDMX

Particulate Matter, PM, affects more people than any other air pollutants. This is why PM₁₀ is one of six air pollutants which are constantly being measured by a network of monitoring stations across CDMX. The recommended limit of PM₁₀ over 24-hours is a mean value of 75 $\mu\text{m}/\text{m}^3$.

Next you are going to investigate how the levels of PM₁₀ changes over a period of 7 days in some areas of CDMX. Your station and year are shown below.

STATION

MER
Merced

LOCATION

Commercial and residential area in the city centre

YEAR

2000

LIMIT

75 $\mu\text{m}/\text{m}^3$
24-hour mean

The data collected by monitoring stations is used to inform citizens about the quality of air using an Air Quality Index. The table on the left shows you how the air quality index is obtained from the mean values of PM₁₀. For example if a station measures a mean value of **PM₁₀ = 10 $\mu\text{m} / \text{m}^3$** then the Air Quality Index is **Good**.

Air Quality Index	PM ₁₀ VALUE in $\mu\text{m} / \text{m}^3$
Good	0 to 50
Acceptable	50 to 75
Unhealthy	75 to 155
Very unhealthy	155 to 235
Extremely unhealthy	over 235

The table on the bottom shows you the mean values of PM₁₀ recorded by your local station for the first 7 days of April.

Task 1: Complete the Air Quality Index column for the first 7 days of April using the information on the table on the left.

Sometimes monitoring stations need maintenance or breakdown, so you may not have data for all of the days!

Task 2: Calculate the mean value of the PM₁₀ over the 7 days. Write it down at the bottom of your table.

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MEAN = $\frac{\quad + \quad + \quad + \quad + \quad + \quad +}{\quad}$

DATE	PM ₁₀ VALUE in $\mu\text{m} / \text{m}^3$	Air Quality Index
01 APR	76	Unhealthy
02 APR	81	
03 APR	98	
04 APR	67	
05 APR	81	
06 APR	---	
07 APR	101	
MEAN		

2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

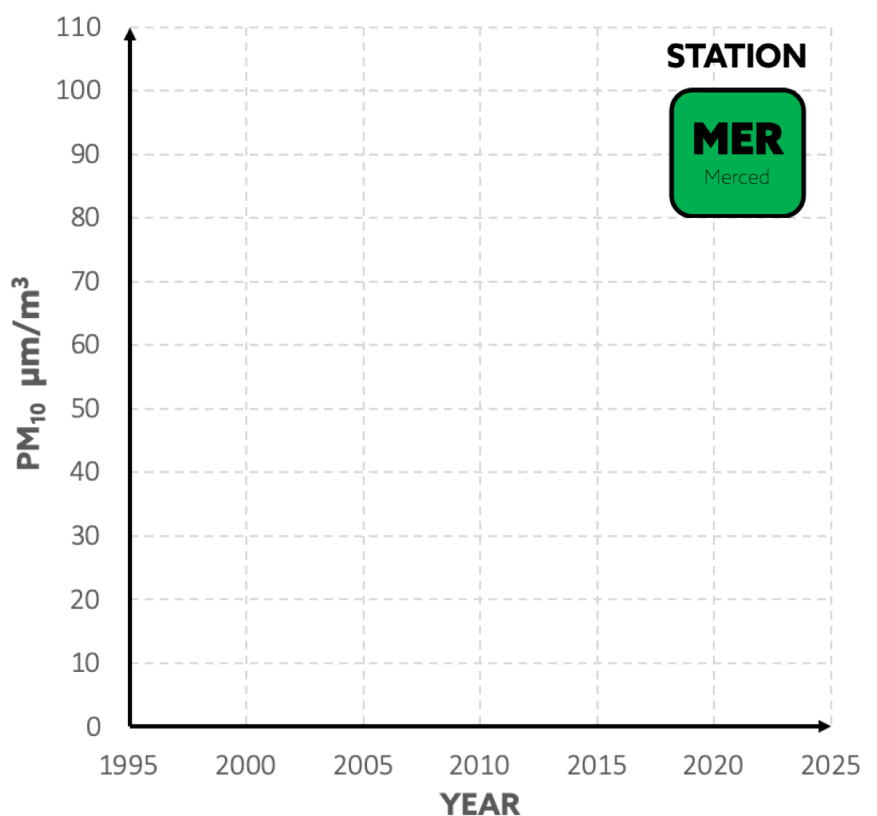
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YEAR	MEAN in $\mu\text{m} / \text{m}^3$
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2020	

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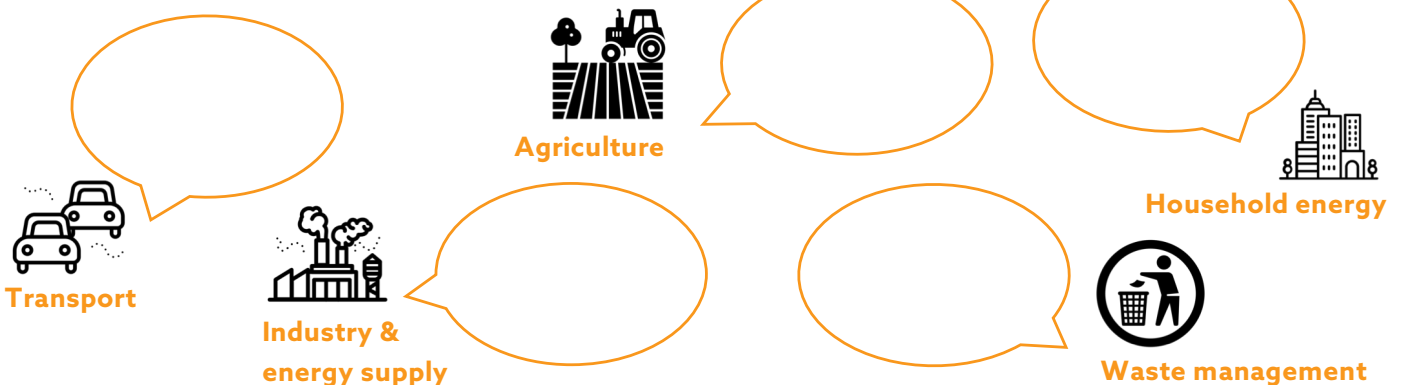
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Plot the values of PM₁₀ on the graph to help you understand if they have increase or decreased over the past 20 years.

Question:

Can you suggest 3 ideas that could help reduce the levels of PM₁₀ over the next 5 years?

Who can help to put these ideas into practice?
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01 APR	68	Acceptable
02 APR	62	
03 APR	80	
04 APR	42	
05 APR	53	
06 APR	58	
07 APR	75	
MEAN		

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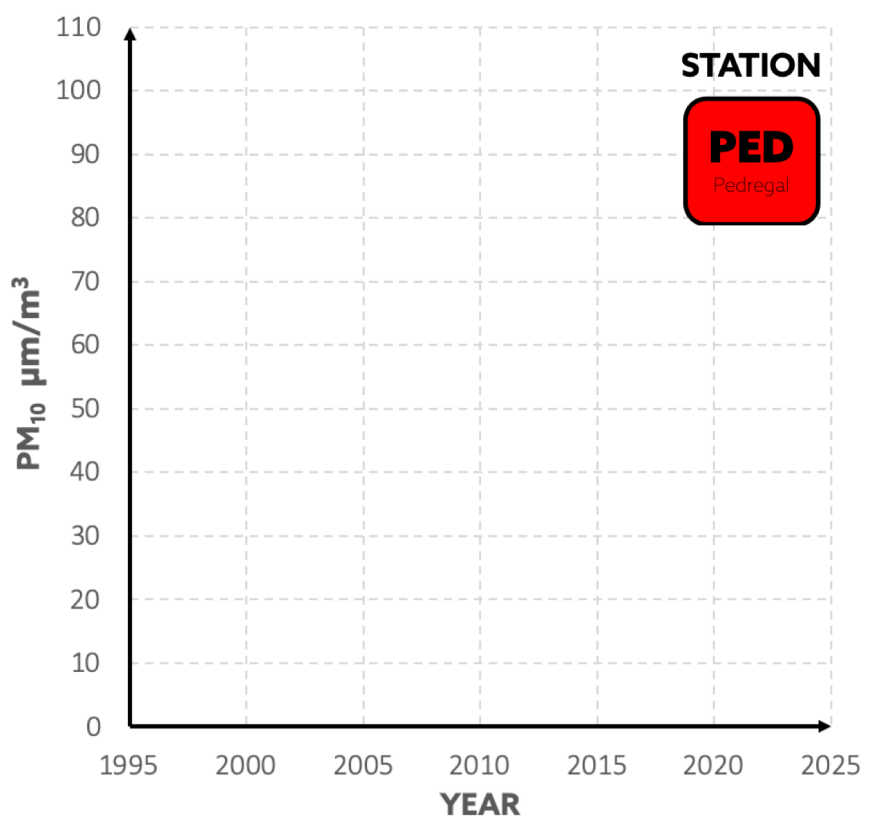
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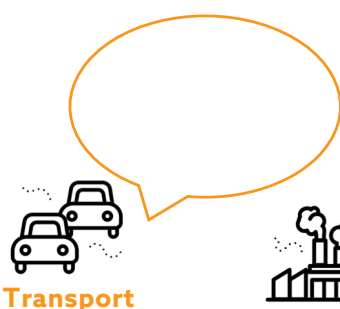
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24-hour mean

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01 APR	80	Unhealthy
02 APR	92	
03 APR	79	
04 APR	47	
05 APR	---	
06 APR	---	
07 APR	---	
MEAN		

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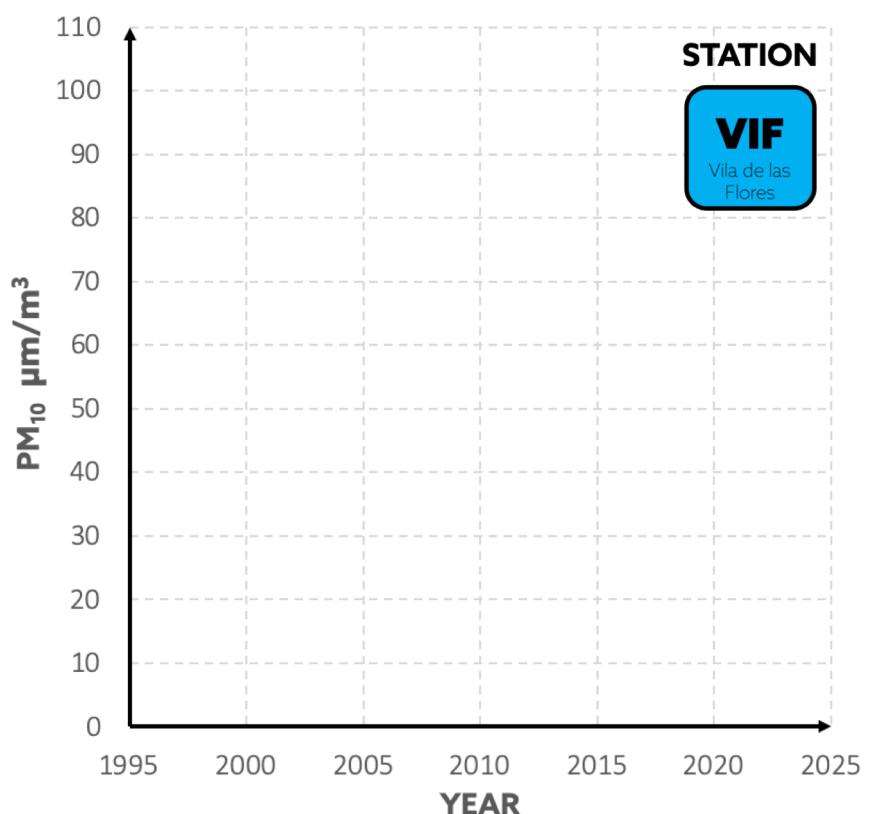
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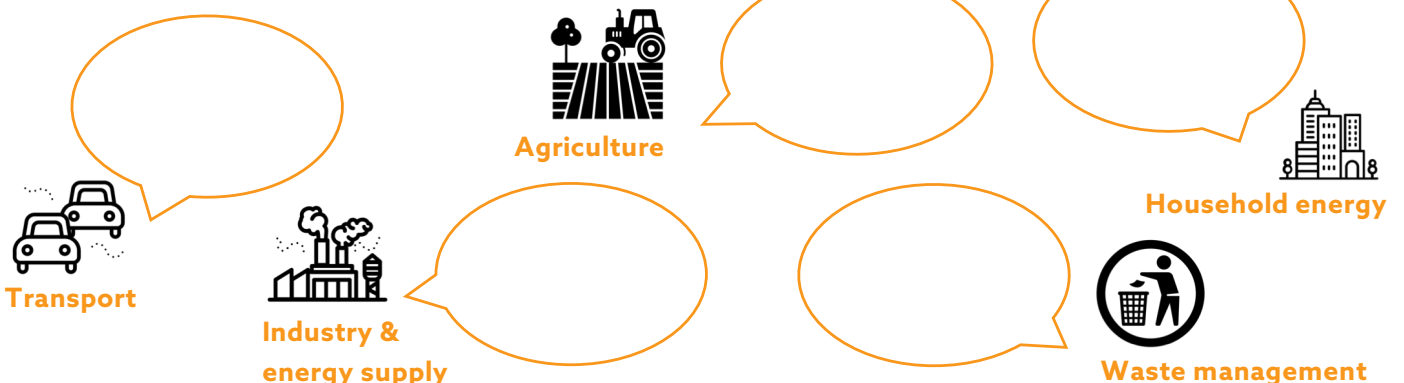
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24-hour mean

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01 APR	79	Unhealthy
02 APR	79	
03 APR	86	
04 APR	78	
05 APR	75	
06 APR	98	
07 APR	91	
MEAN		

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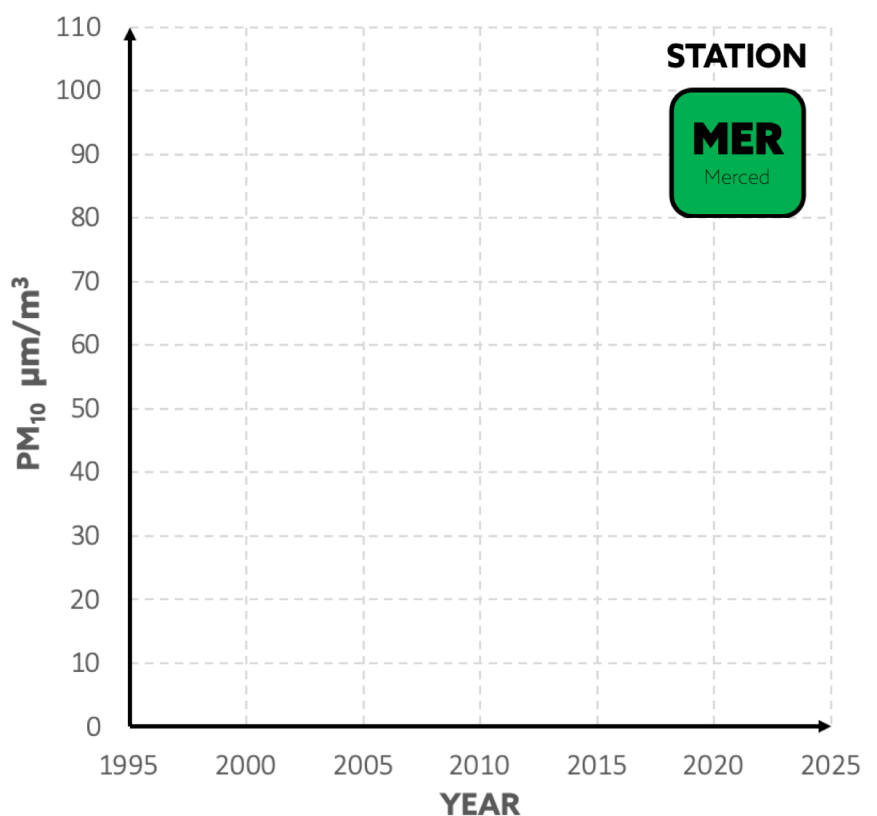
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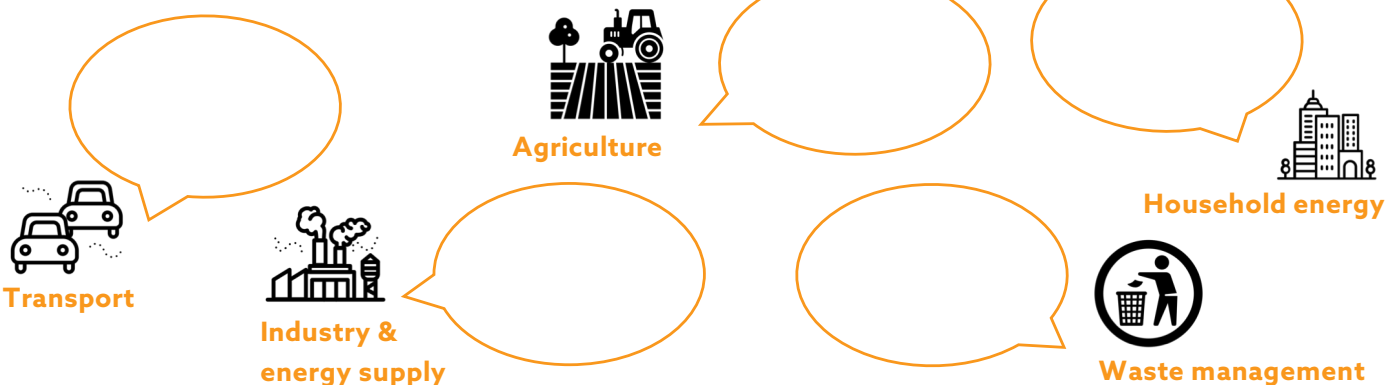
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02 APR	57	
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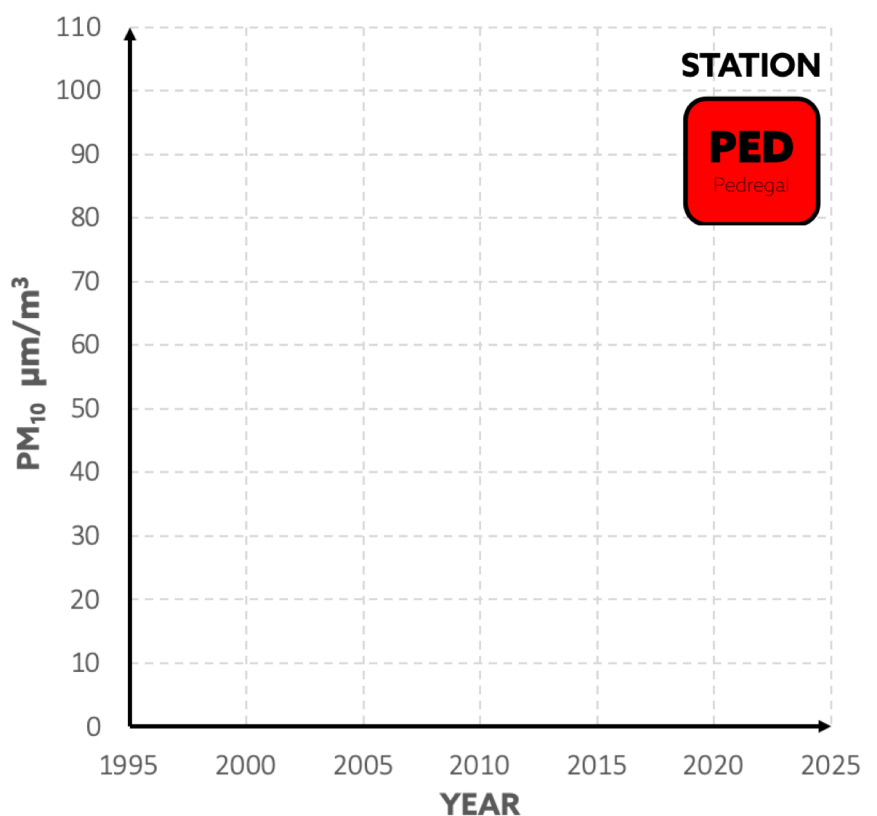
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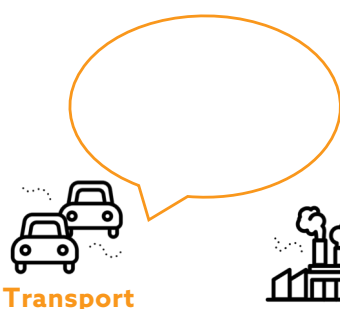
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Transport



Industry &
energy supply



Agriculture



Household energy



Waste management

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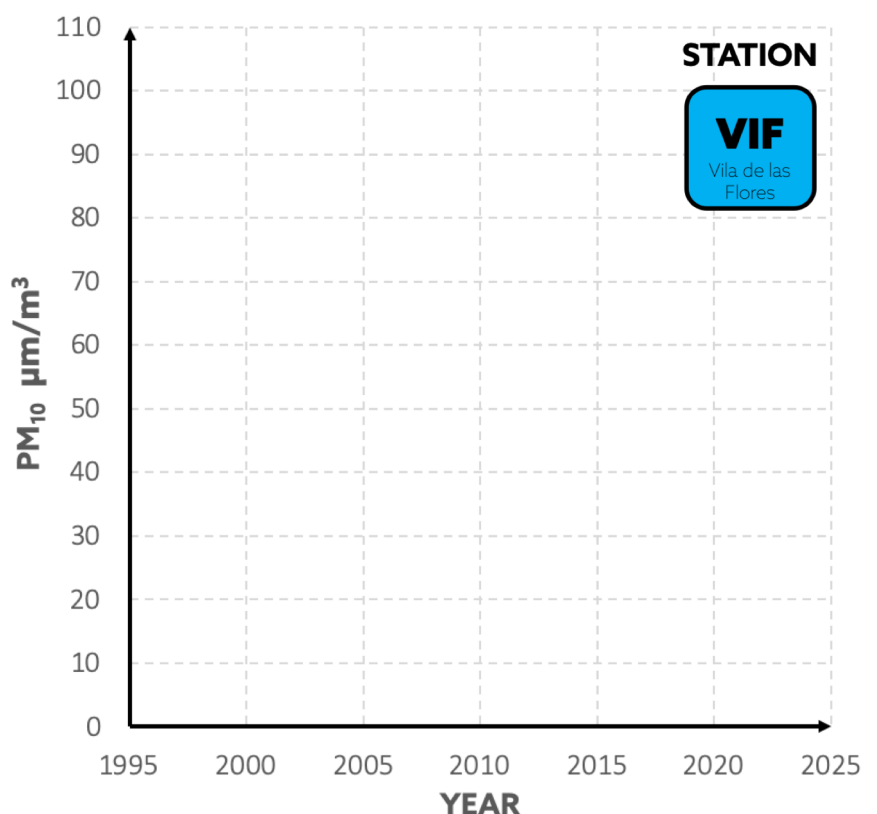
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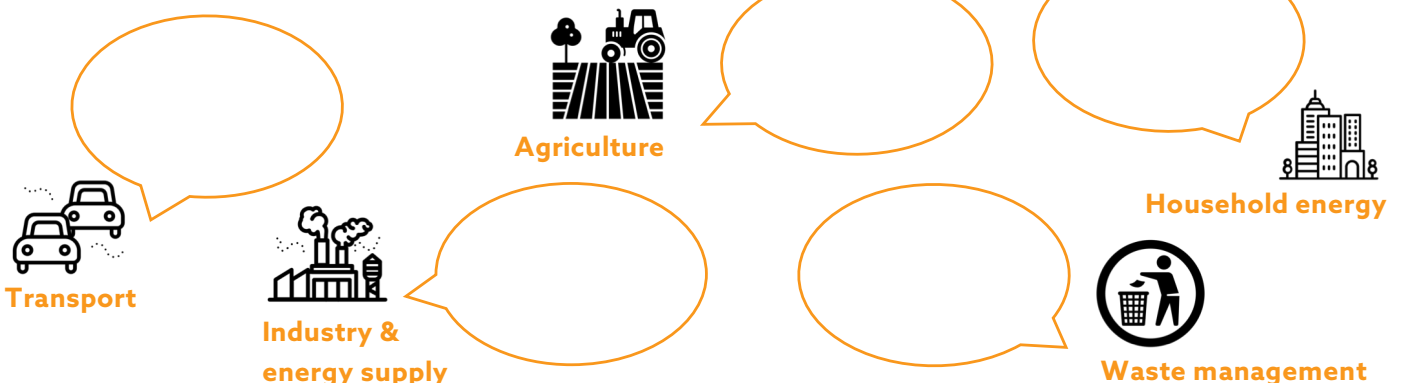
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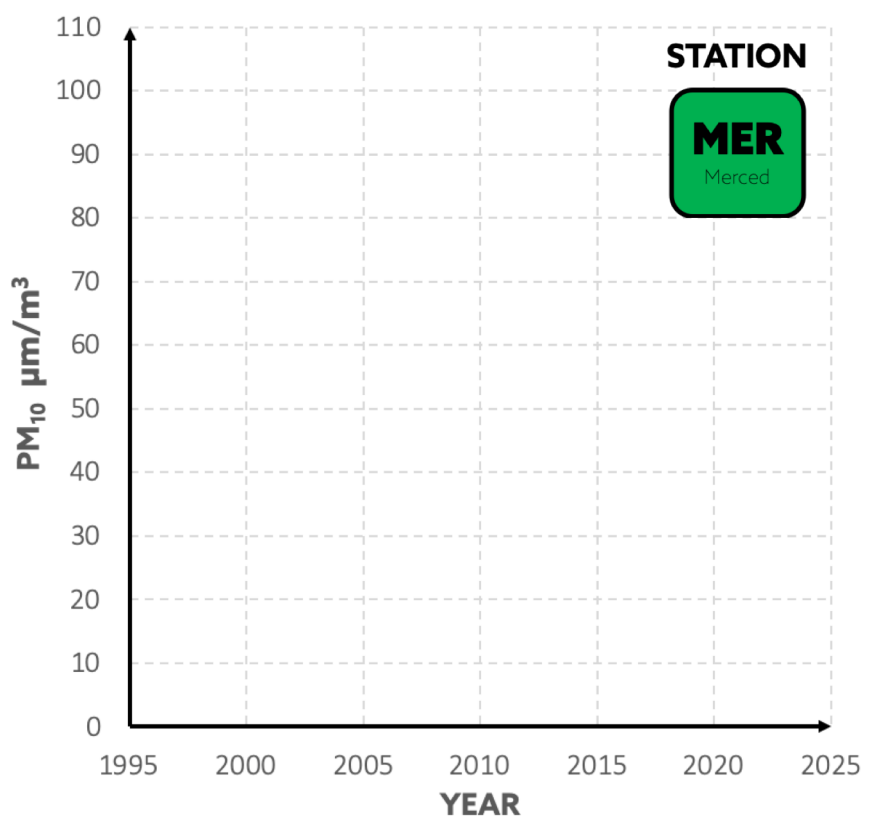
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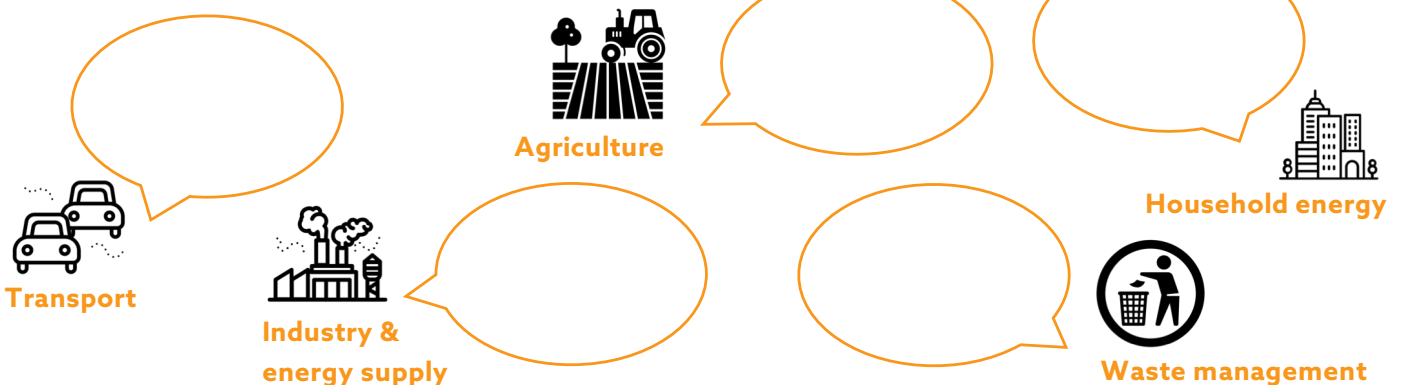
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05 APR	---	
06 APR	51	Acceptable
07 APR	50	
MEAN		



2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

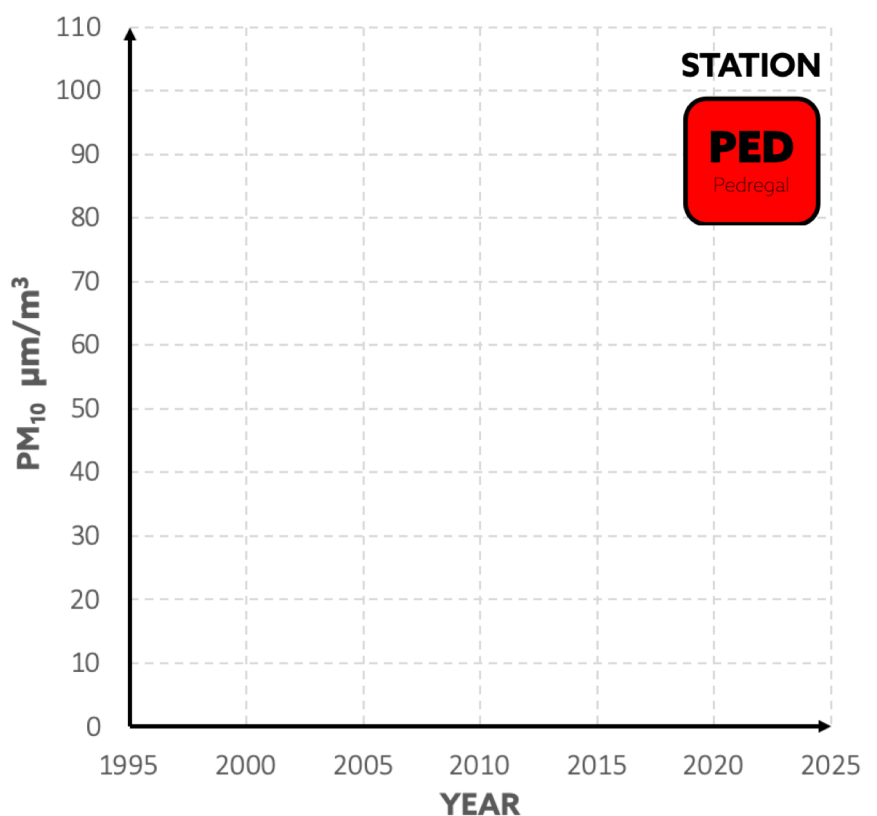
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YEAR	MEAN in $\mu\text{m} / \text{m}^3$
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2005	
2010	
2015	
2020	

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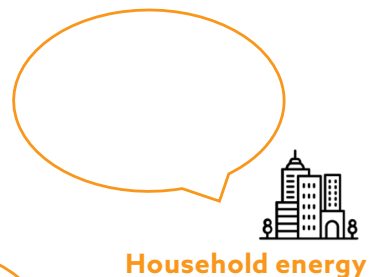
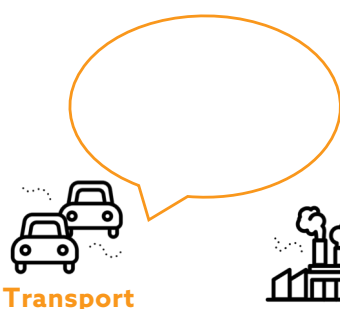
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Can you suggest 3 ideas that could help reduce the levels of PM₁₀ over the next 5 years?

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STATION

VIF
Vila de las Flores

LOCATION

Industrial area north of the city

YEAR

2010

LIMIT

75 $\mu\text{m}/\text{m}^3$
24-hour mean

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Good	0 to 50
Acceptable	50 to 75
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Very unhealthy	155 to 235
Extremely unhealthy	over 235

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DATE	PM ₁₀ VALUE in $\mu\text{m} / \text{m}^3$	Air Quality Index
01 APR	68	Acceptable
02 APR	61	
03 APR	69	
04 APR	66	
05 APR	78	
06 APR	79	
07 APR	80	
MEAN		

2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

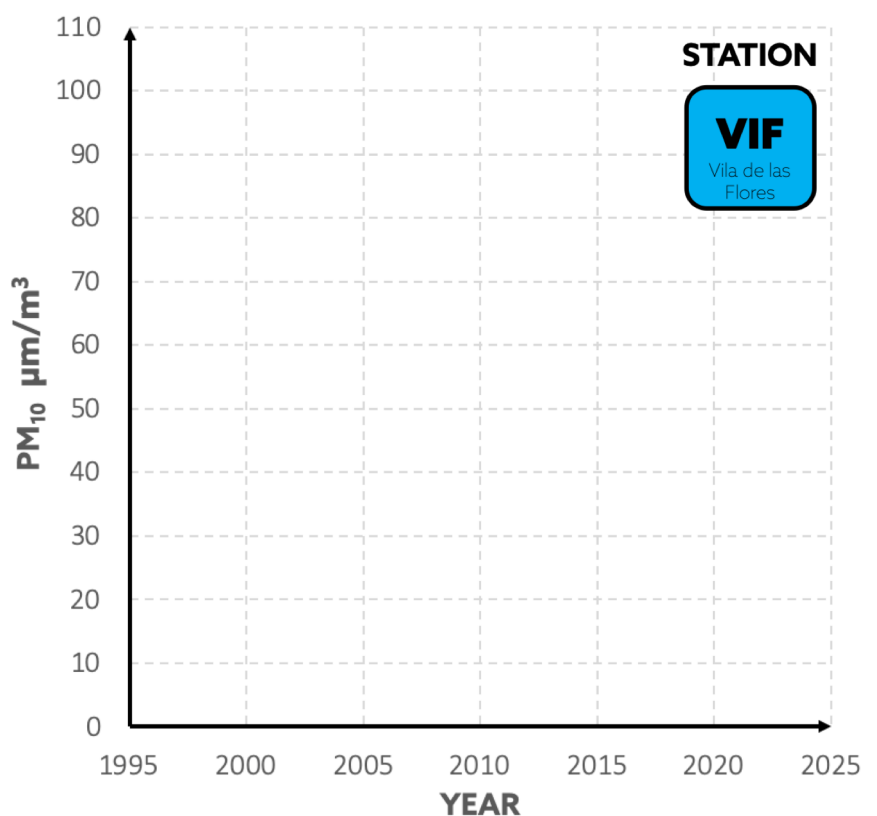
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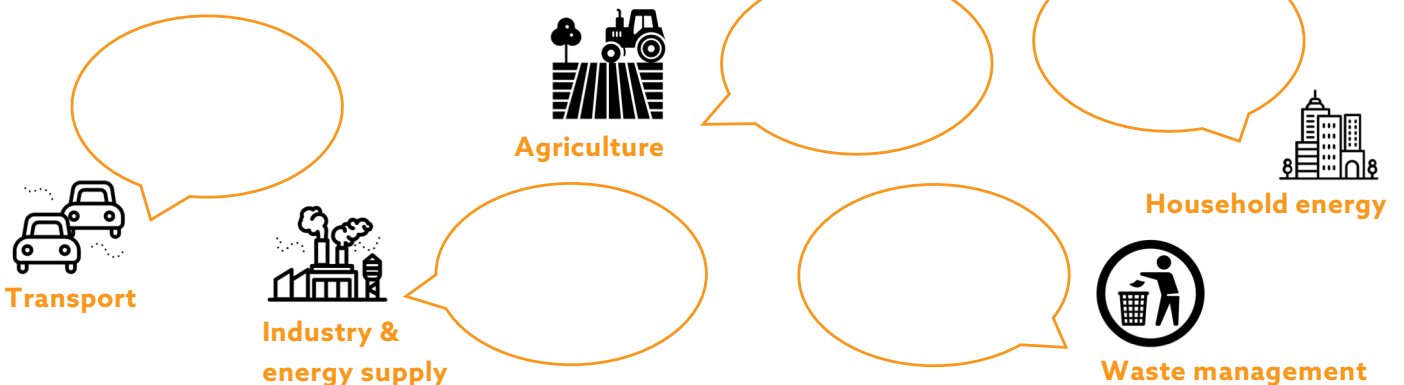
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Merced

LOCATION

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residential area in
the city centre

YEAR

2015

LIMIT

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DATE	PM ₁₀ VALUE in $\mu\text{m}/\text{m}^3$	Air Quality Index
01 APR	56	Unhealthy
02 APR	57	
03 APR	41	
04 APR	30	
05 APR	39	
06 APR	53	
07 APR	55	
MEAN		



2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

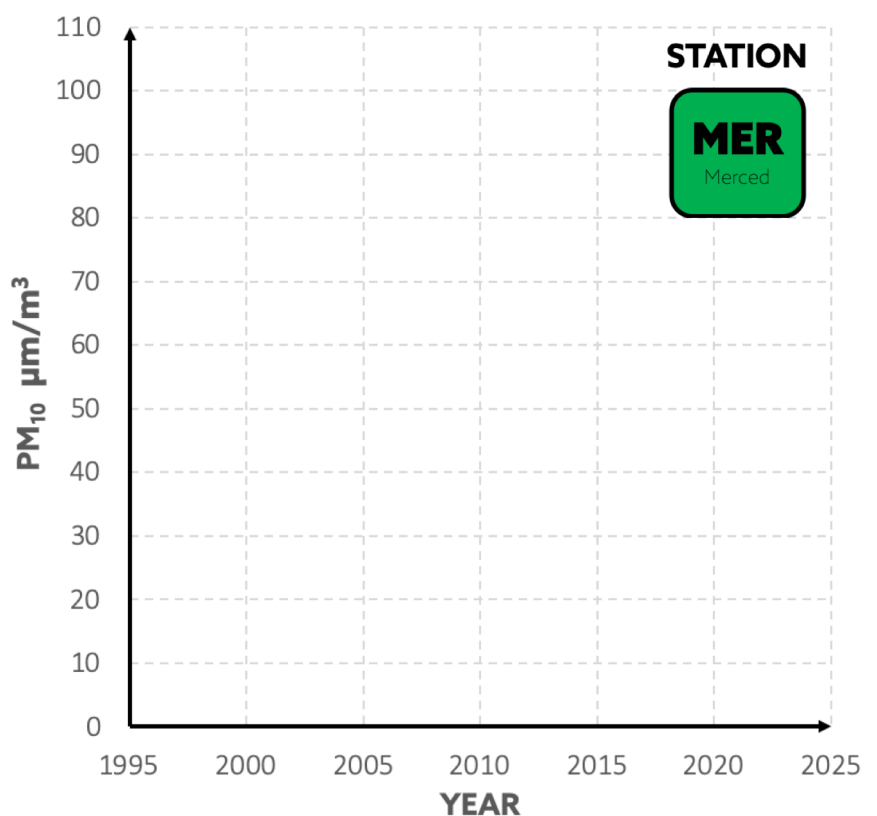
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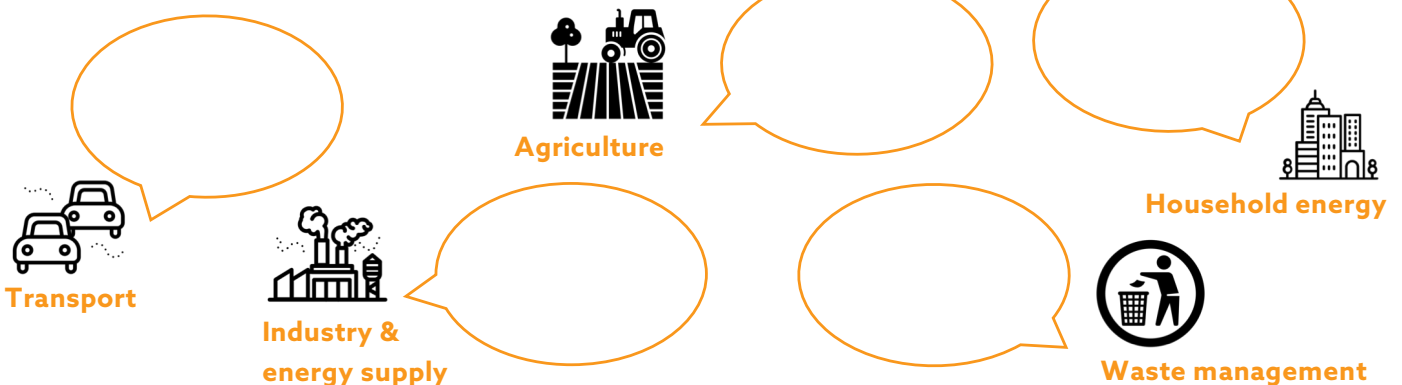
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STATION

PED

Pedregal

LOCATION

Residential area
south of the city

YEAR

2015

LIMIT

75 $\mu\text{m}/\text{m}^3$

24-hour mean

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DATE	PM ₁₀ VALUE in $\mu\text{m}/\text{m}^3$	Air Quality Index
01 APR	48	Acceptable
02 APR	49	
03 APR	30	
04 APR	22	
05 APR	36	
06 APR	47	
07 APR	---	
MEAN		



2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

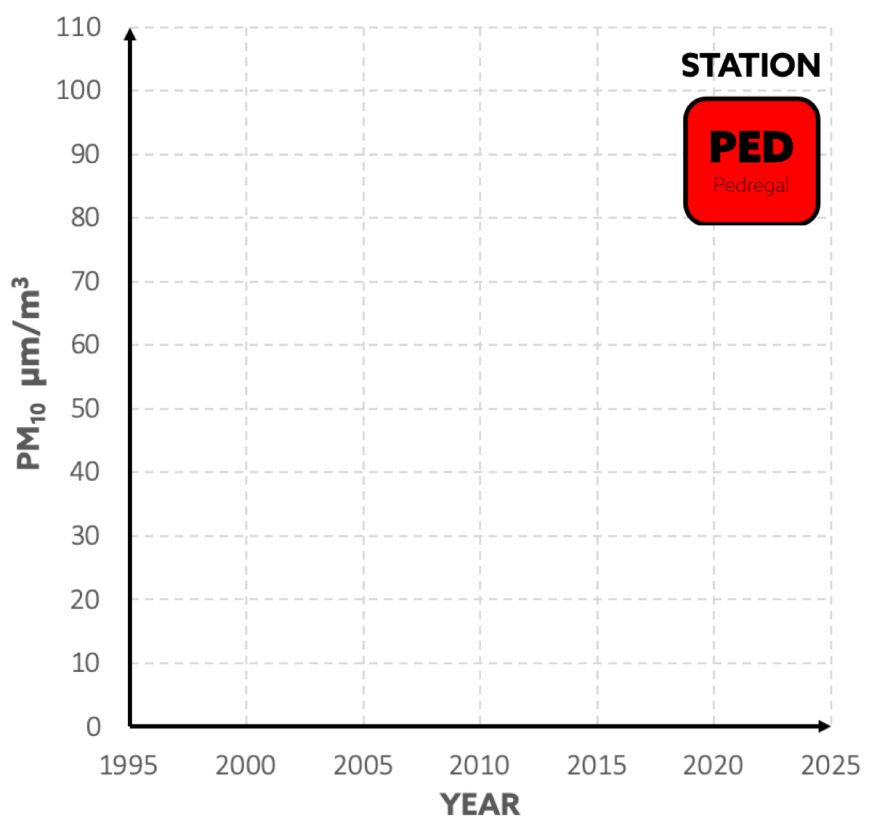
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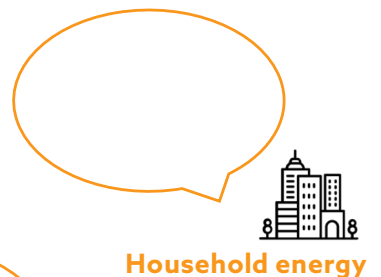
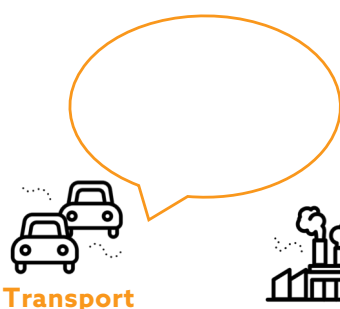
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STATION

VIF
Vila de las Flores

LOCATION

Industrial area north of the city

YEAR

2015

LIMIT

75 µm/m³
24-hour mean

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DATE	PM ₁₀ VALUE in µm / m ³	Air Quality Index
01 APR	74	Unhealthy
02 APR	52	
03 APR	48	
04 APR	38	
05 APR	38	
06 APR	52	
07 APR	63	
MEAN		

2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

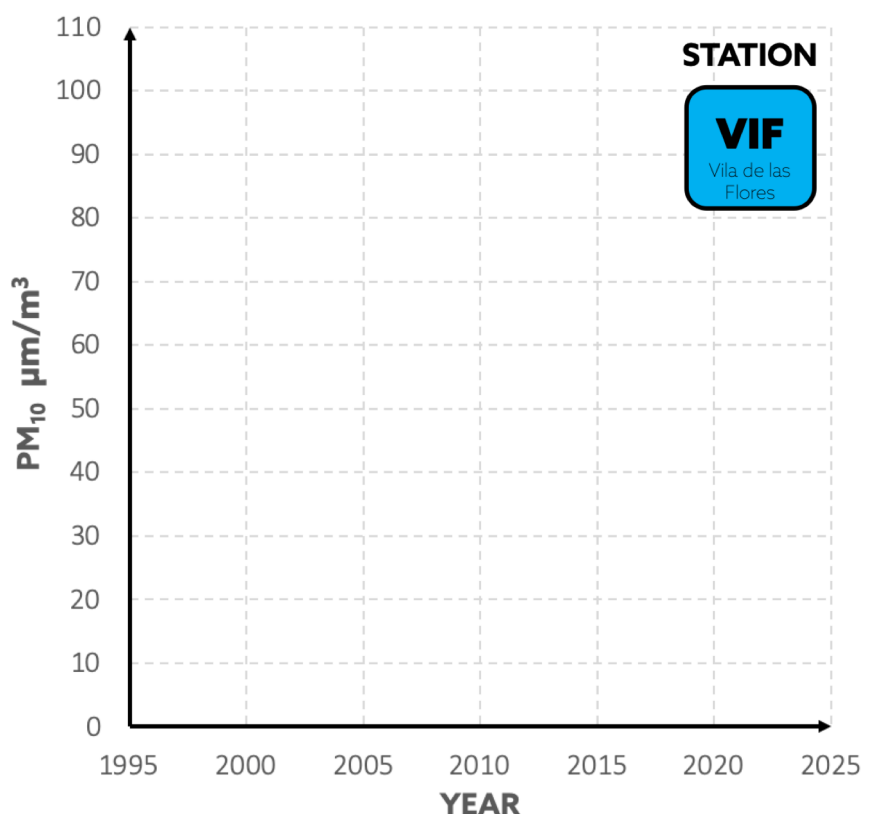
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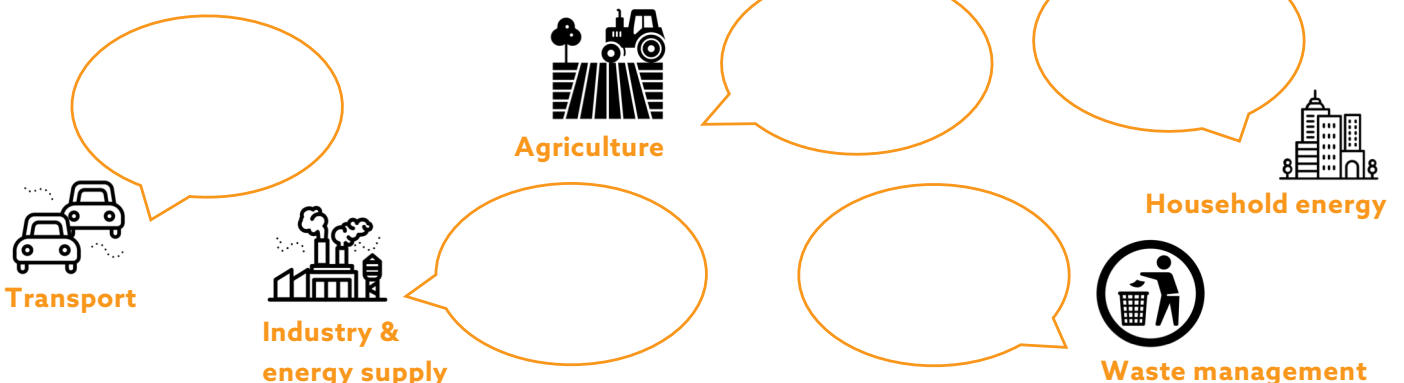
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MER

Merced

LOCATION

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YEAR

2020

LIMIT

75 $\mu\text{m}/\text{m}^3$

24-hour mean

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01 APR	57	Acceptable
02 APR	54	
03 APR	42	
04 APR	38	
05 APR	35	
06 APR	46	
07 APR	44	
MEAN		



2. How levels of PM₁₀ have changed in the past 20 years in CDMX ?

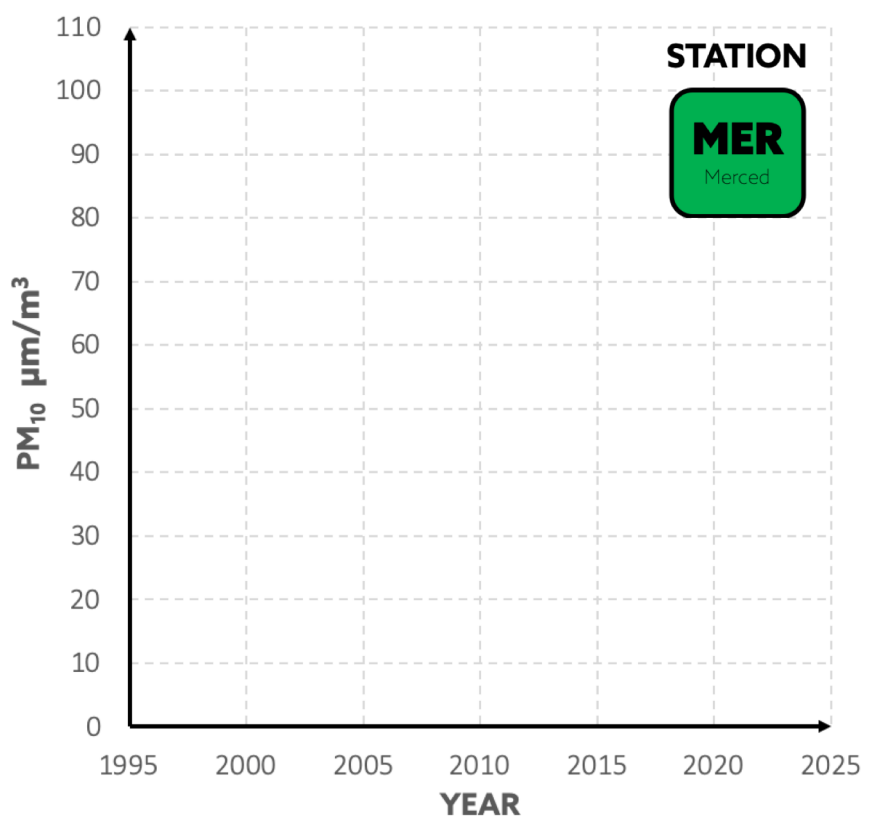
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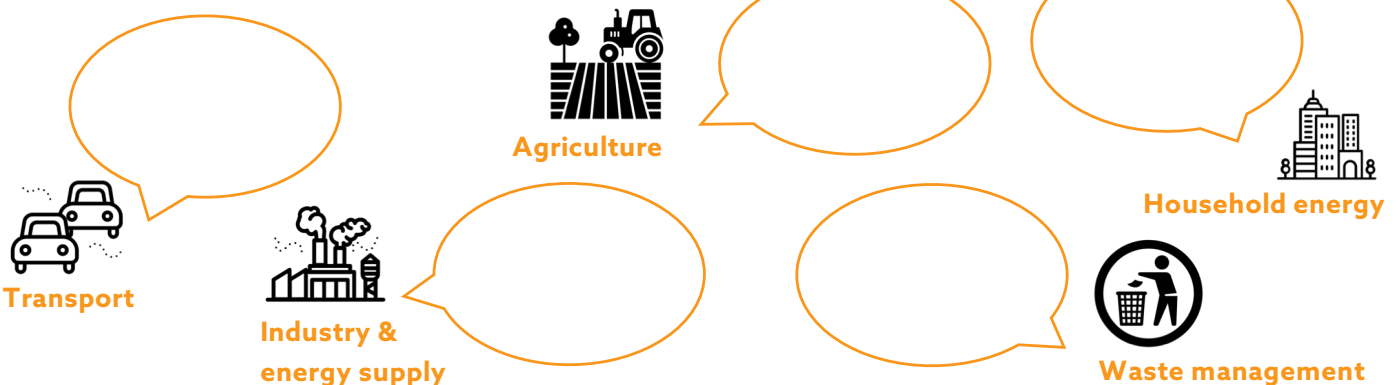
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02 APR	38	
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07 APR	32	
MEAN		



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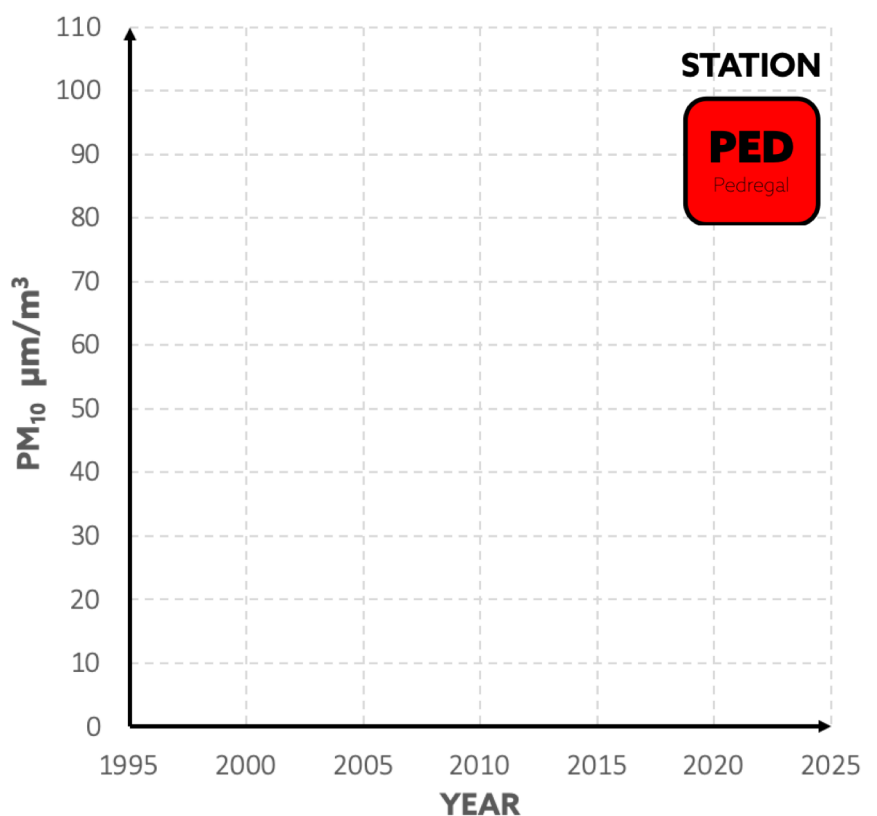
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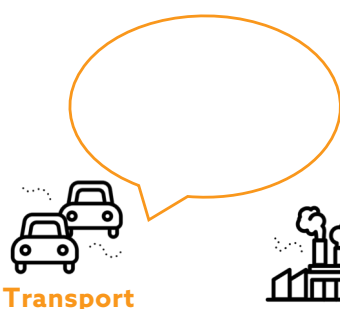
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Transport



Industry &
energy supply



Agriculture



Household energy



Waste management

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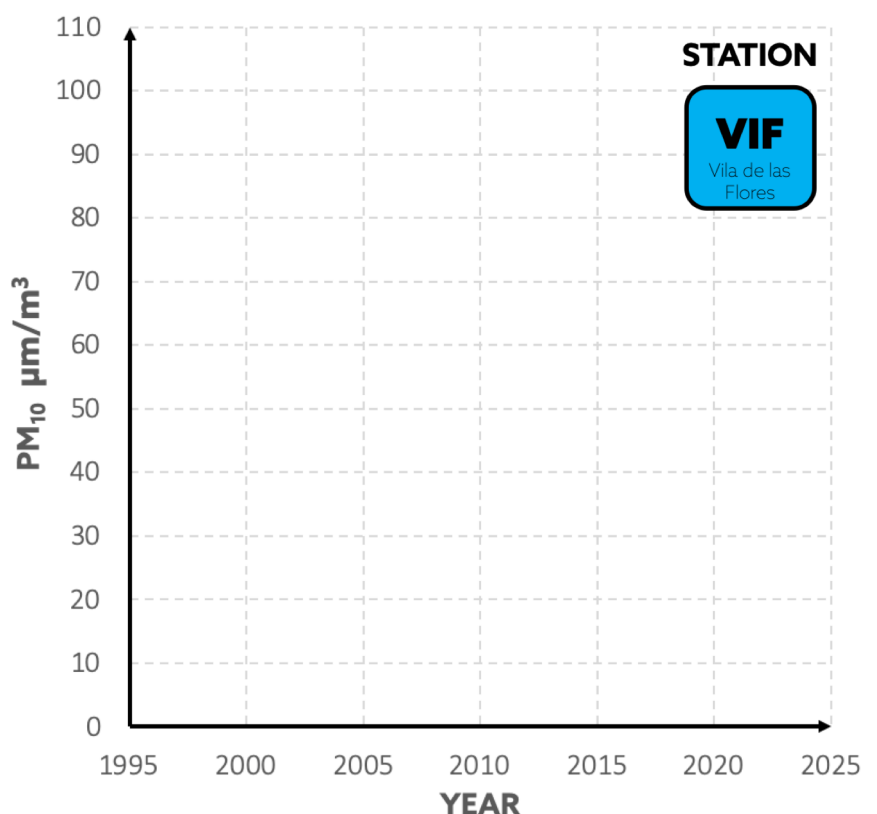
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