



# ***The Sustainable Mobility and Public Space Plan of Vitoria-Gasteiz***

***A commitment towards active and sustainable mobility.***

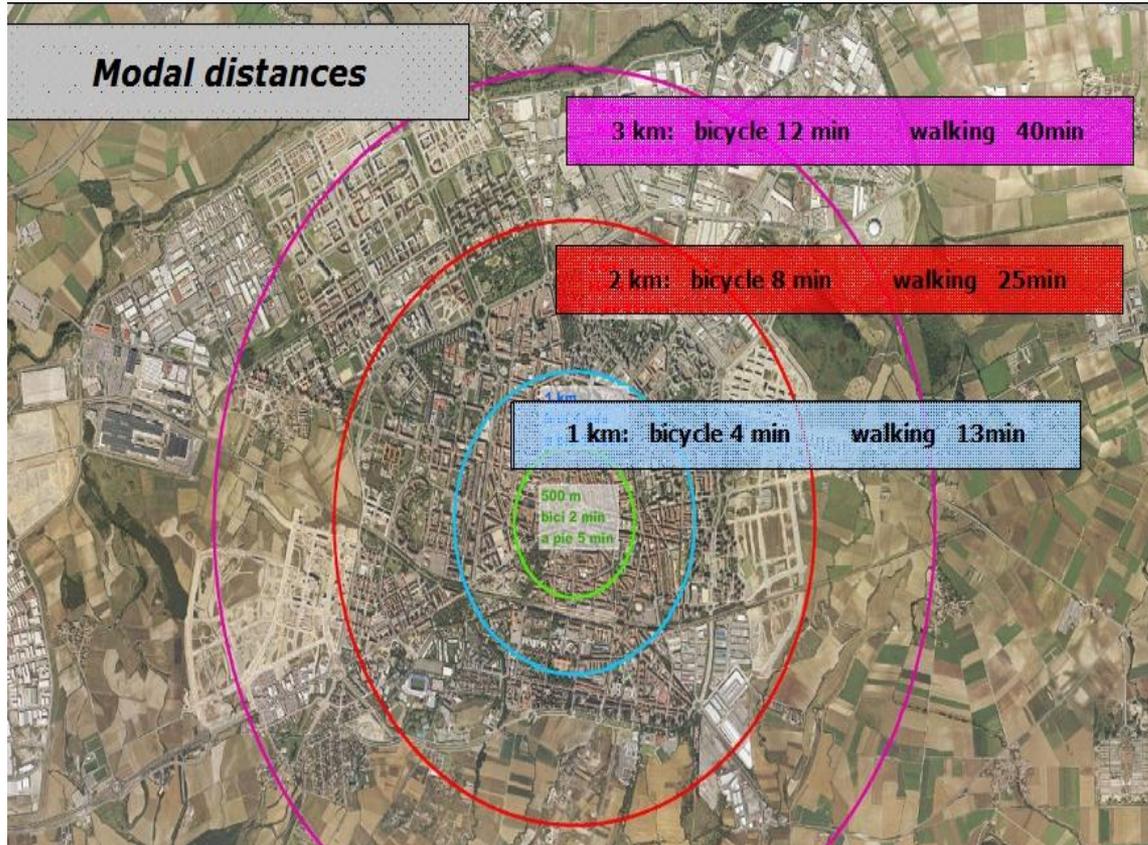
***Juan Carlos Escudero***  
***Environmental Studies Centre***  
***Vitoria-Gasteiz City Council***

**VITORIA  
GASTEIZ**



THE CIVITAS INITIATIVE IS CO-FINANCED BY  
THE EUROPEAN UNION

# A compact, diverse and medium-sized city.

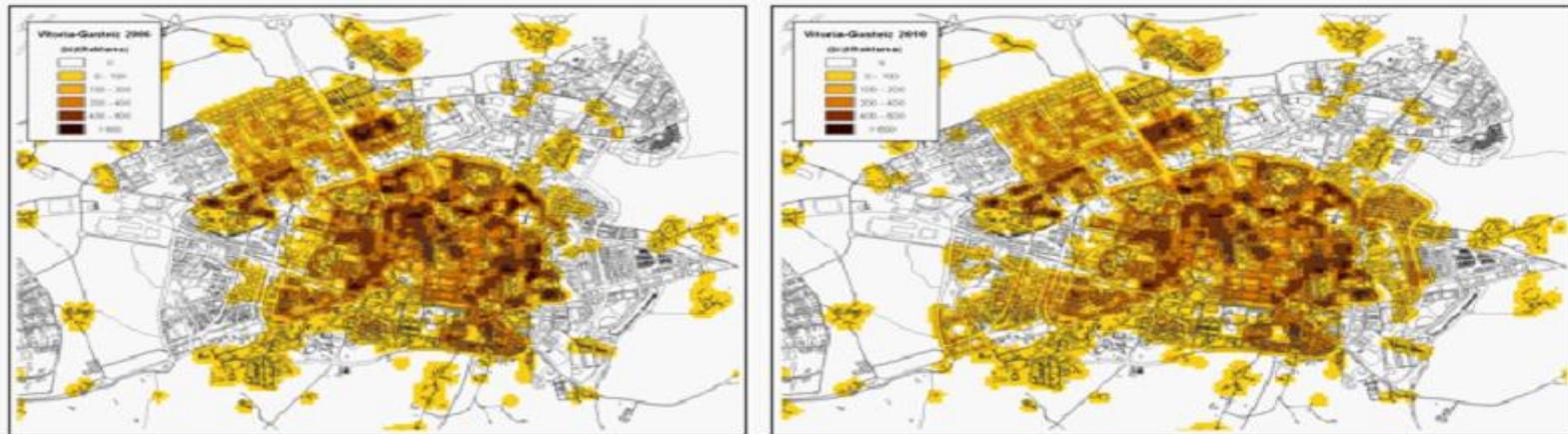


**A COMPACT CITY,  
Pedestrian scale until recent growth and latest urban  
developments.**

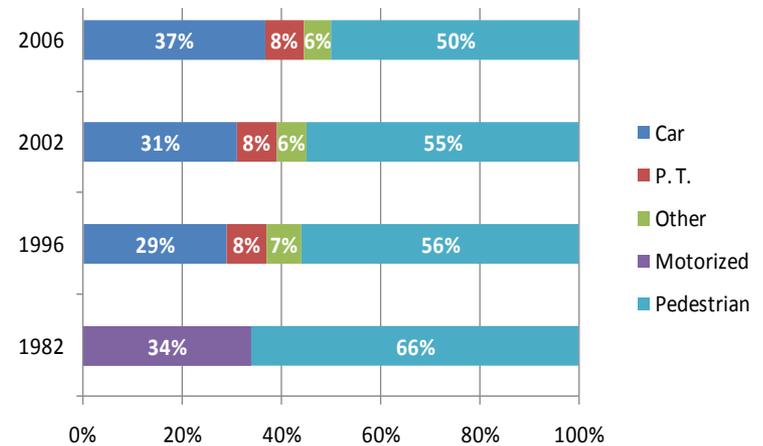
- 240,580 inhabitants.
- 276.81 km<sup>2</sup>.
- 46 homes/ha (residential areas)
- 101.51 inhabitant/ha (residential areas)
- A city where everything is at hand, accessible on foot and by bicycle.



# A commitment by convenience ...



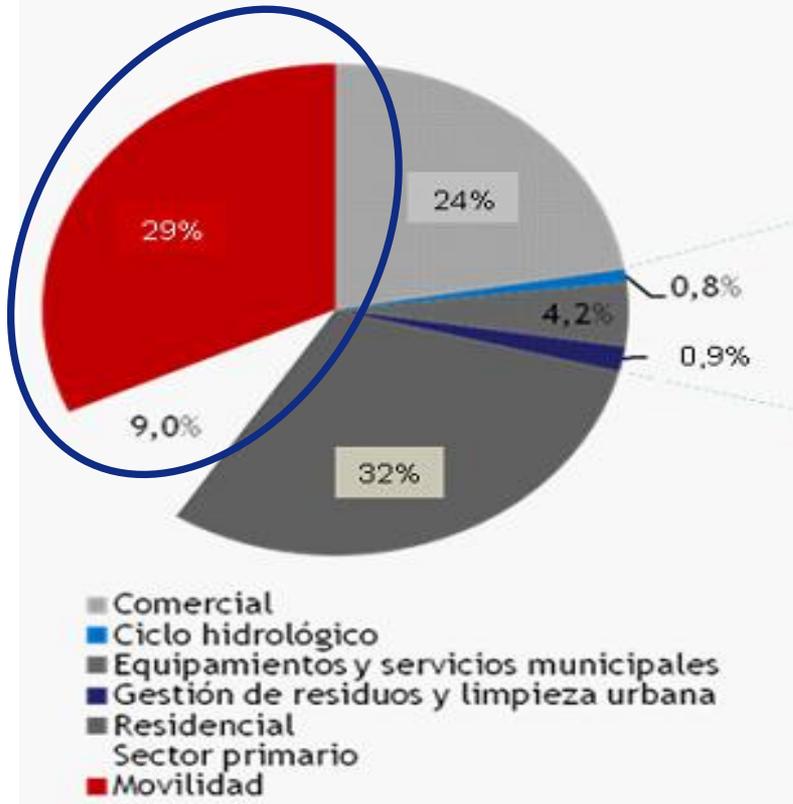
- **Current Master Plan programmed a major urban development in the short to medium term.**
- **In the last 8 years have been built about 16,000 homes**
- **City expansion in another 9 million square meters.**



# How to become a Carbon Neutral City by 2050?

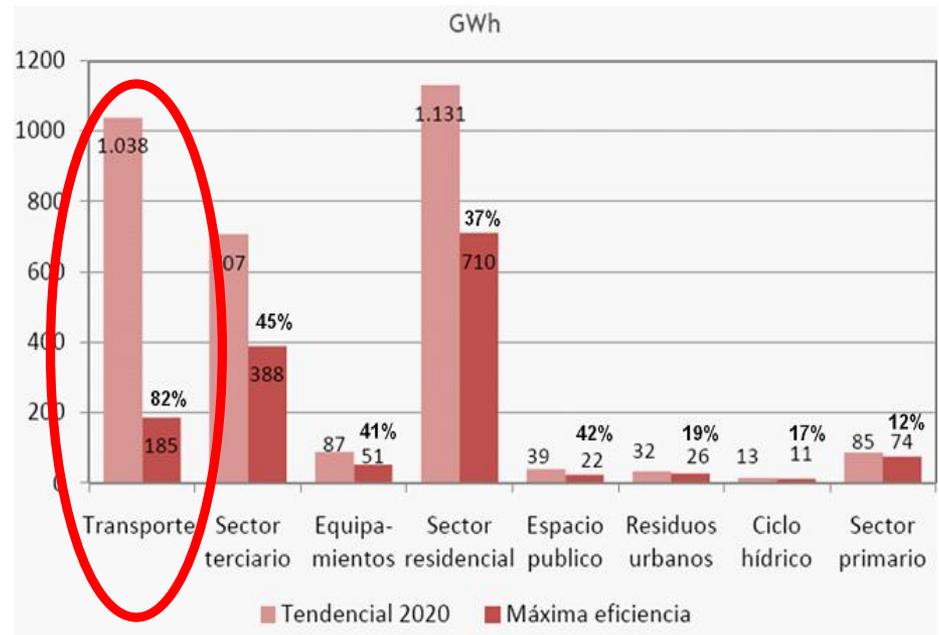
Reducing transport energy consumption up to 82%

Municipio ( 841.710 t CO<sub>2</sub> )



## MOBILITY

29% of CO2 Emissions in 2006



# ***Sustainable Mobility and Public Space Plan (SUMP)***

## ***Main challenges and goals:***



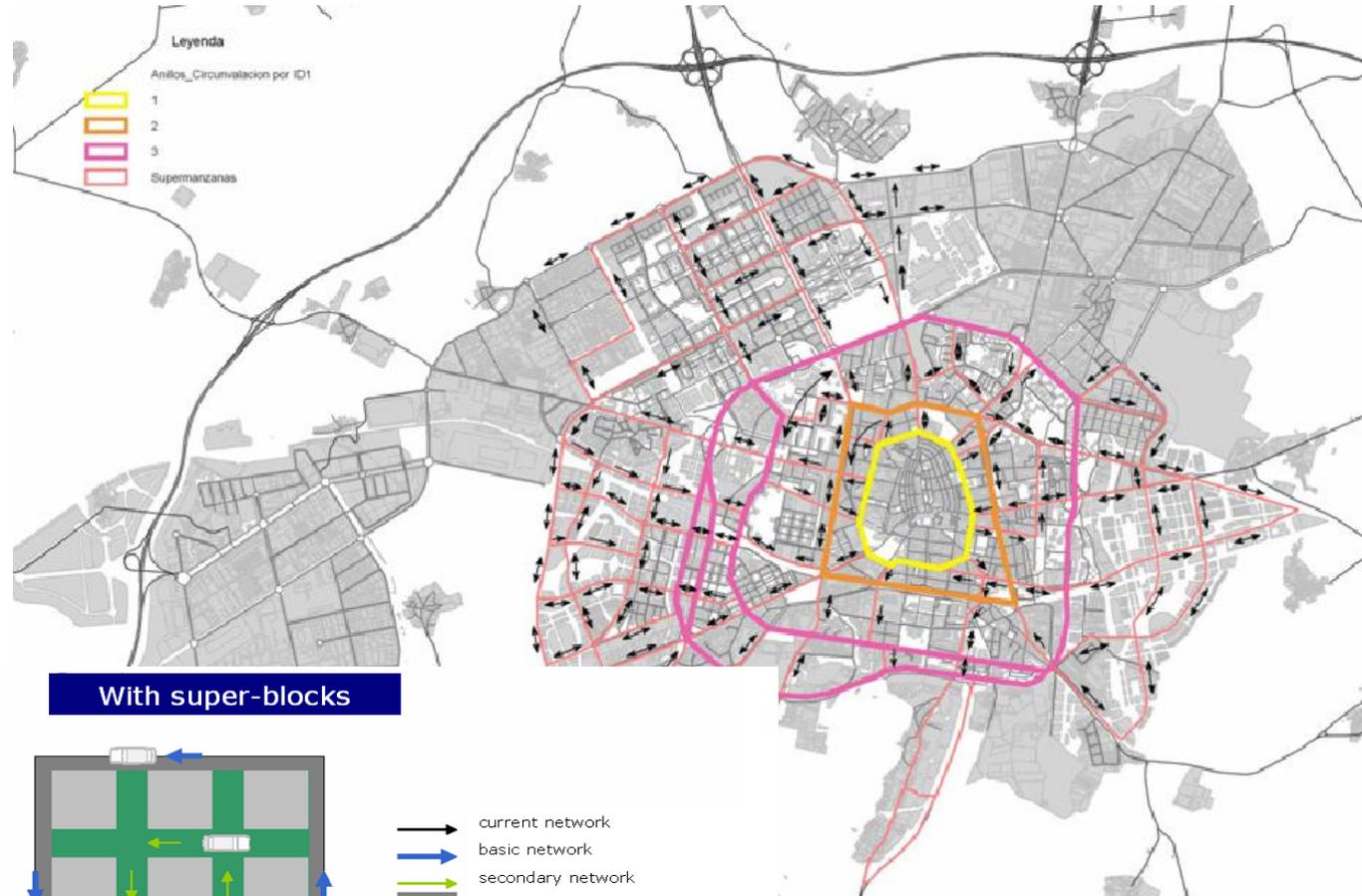
- *To reverse the upward trend in the use of the private car.*
- *To transfer car users to public transport and the bicycle.*
- *To increase the quality of public space in terms of accessibility by way of car traffic reduction.*
- *To consolidate and extend the network of pedestrian and cycling reserved paths.*
- *To redefine the overall PT network in order to improve the efficiency of the system in terms of accessibility and coverage.*
- *To set up a new traffic control system giving priority to PT.*
- *To test a new regulation scheme for freight distribution.*

*Our vision is to solve, in an integrated way, urban mobility for different modes but giving always priority to the active ones.*

 **Yo me subo** *merece la pena!*  
Plan de Movilidad y Espacio Público de Vitoria-Gasteiz

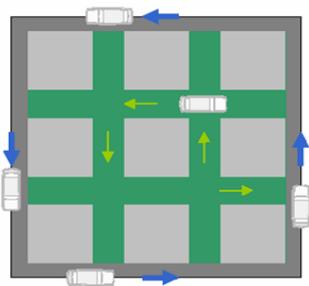
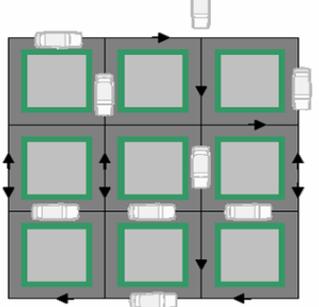
# A new urban cell

## BASIC ROADS AND SUPER-BLOCKS



Without super-blocks

With super-blocks



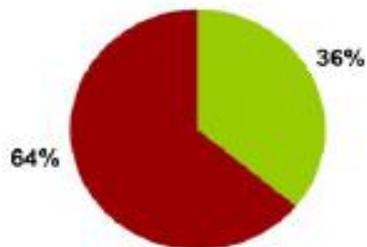
- current network
- basic network
- secondary network
- private cars & public transport
- Residents, emergency, freight dist.
- Motorized transport road
- Pedestrian & other uses streets

# Giving back the public space to citizen ...

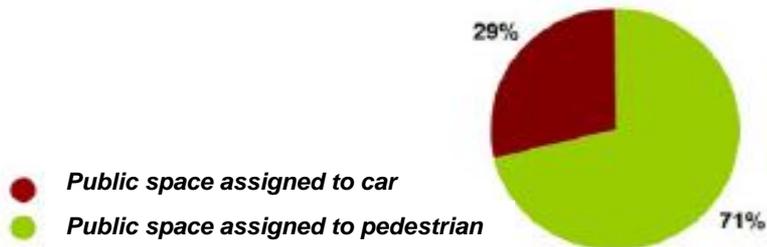
## Allocation of public space



2006 Scenario

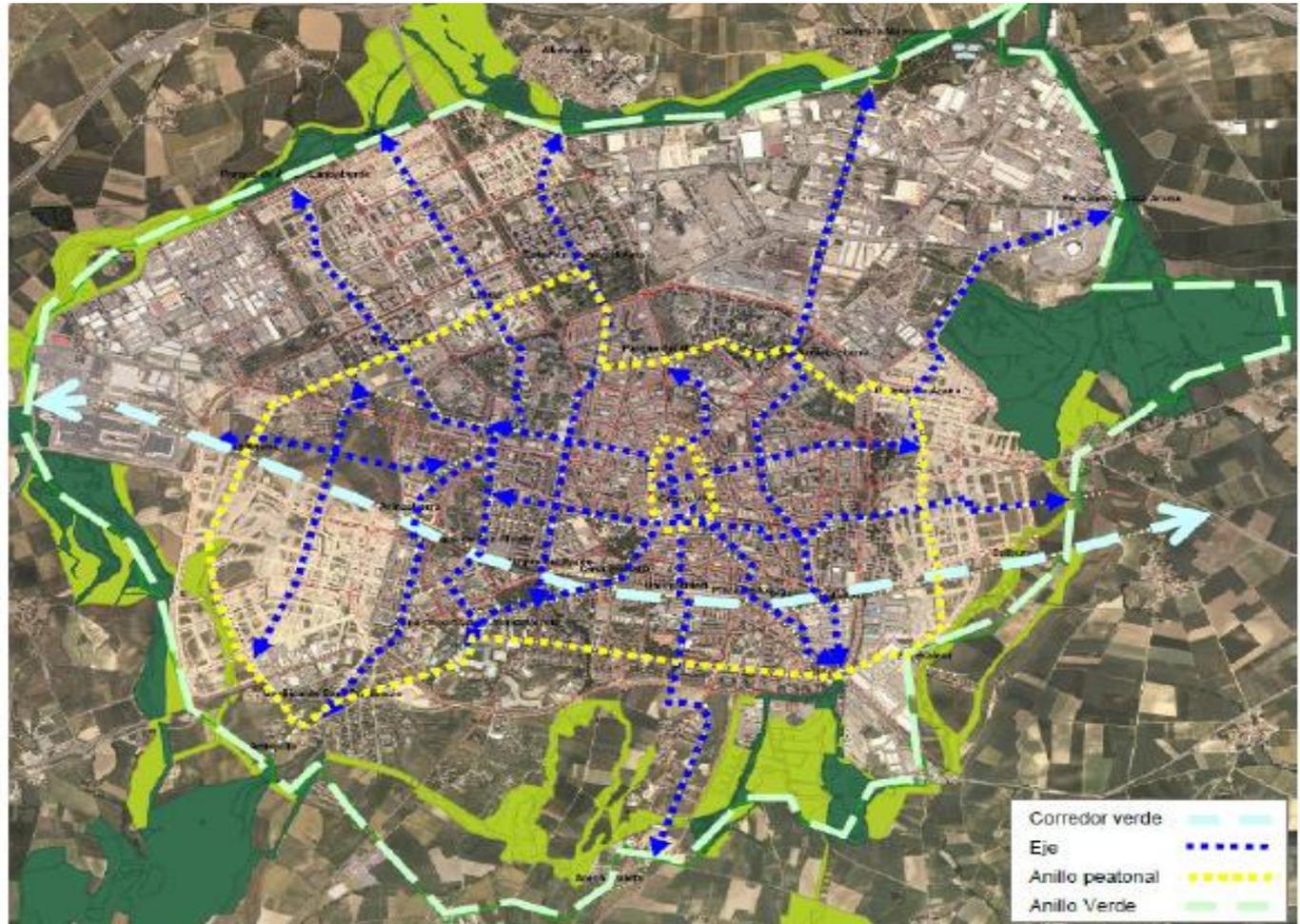


Superblocks' scenario



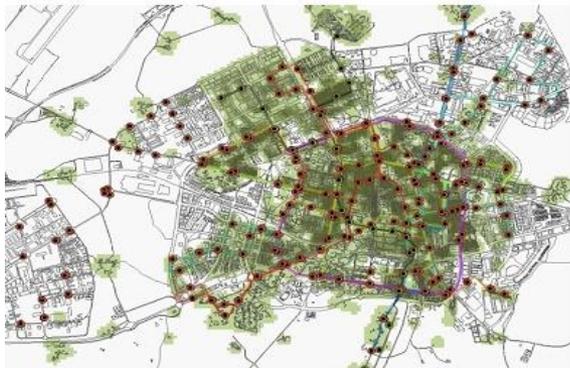
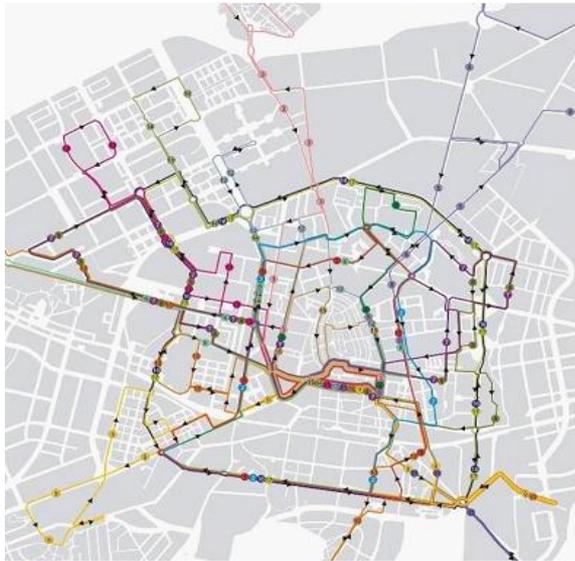
 Public space assigned to car  
 Public space assigned to pedestrian

# An improved and attractive Pedestrian Network



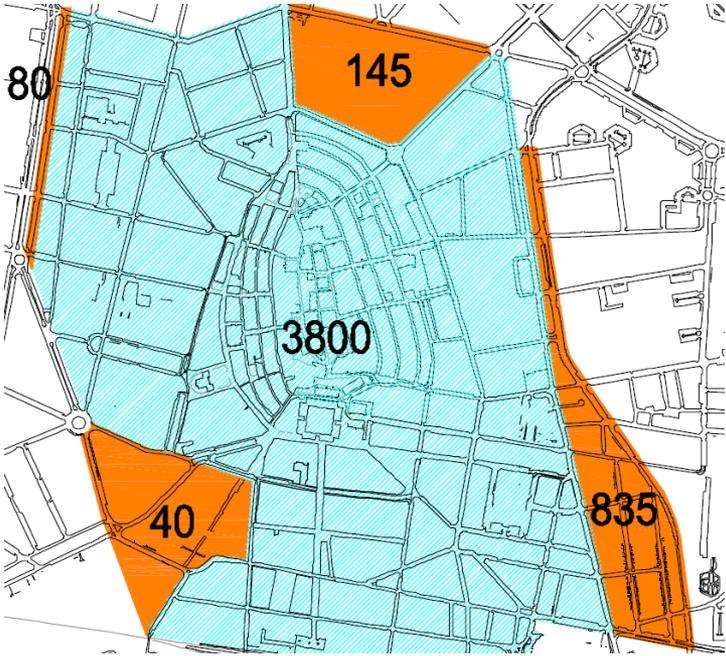
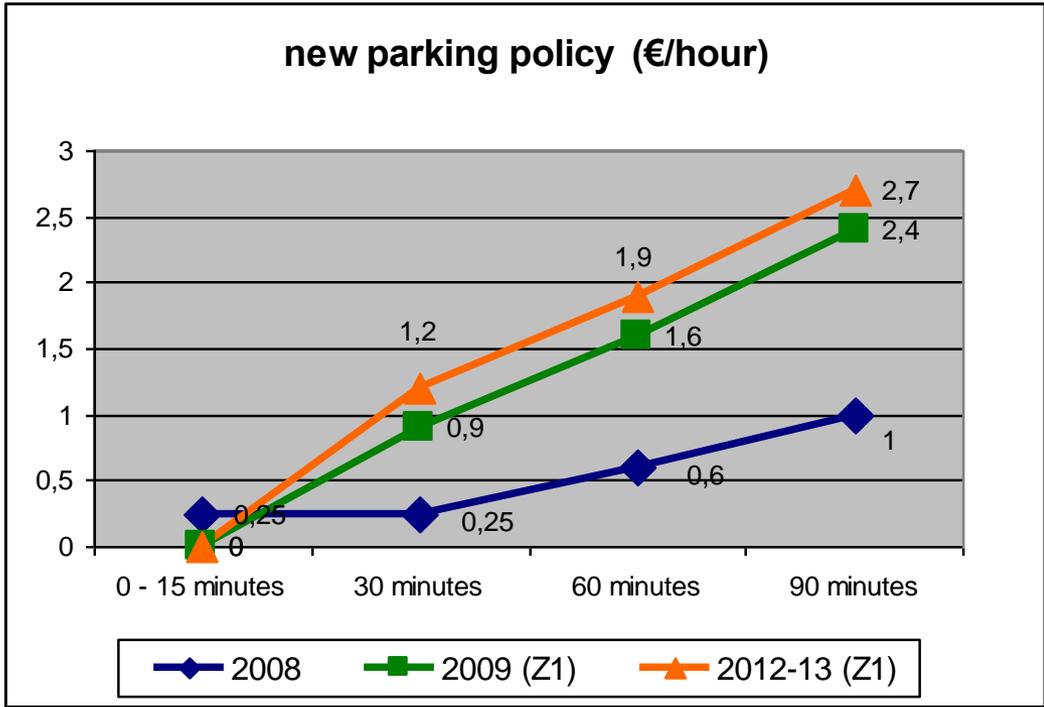
*Proposed new network of pedestrian itineraries of the SM&PSP*

# An efficient and attractive Public Transport Network



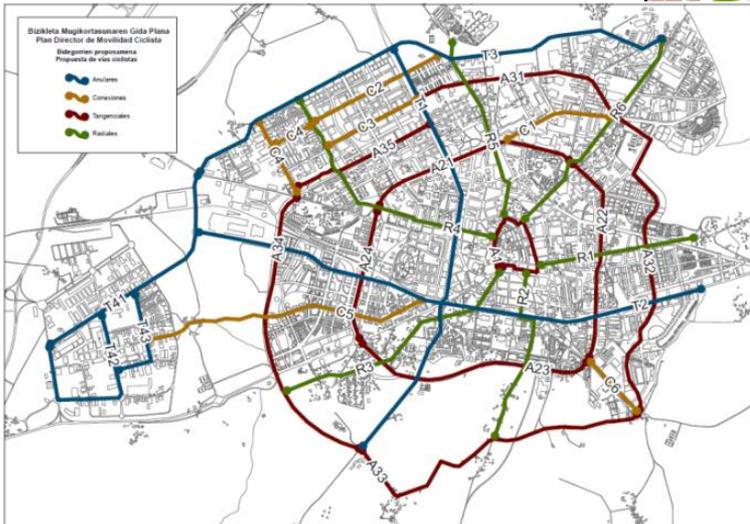
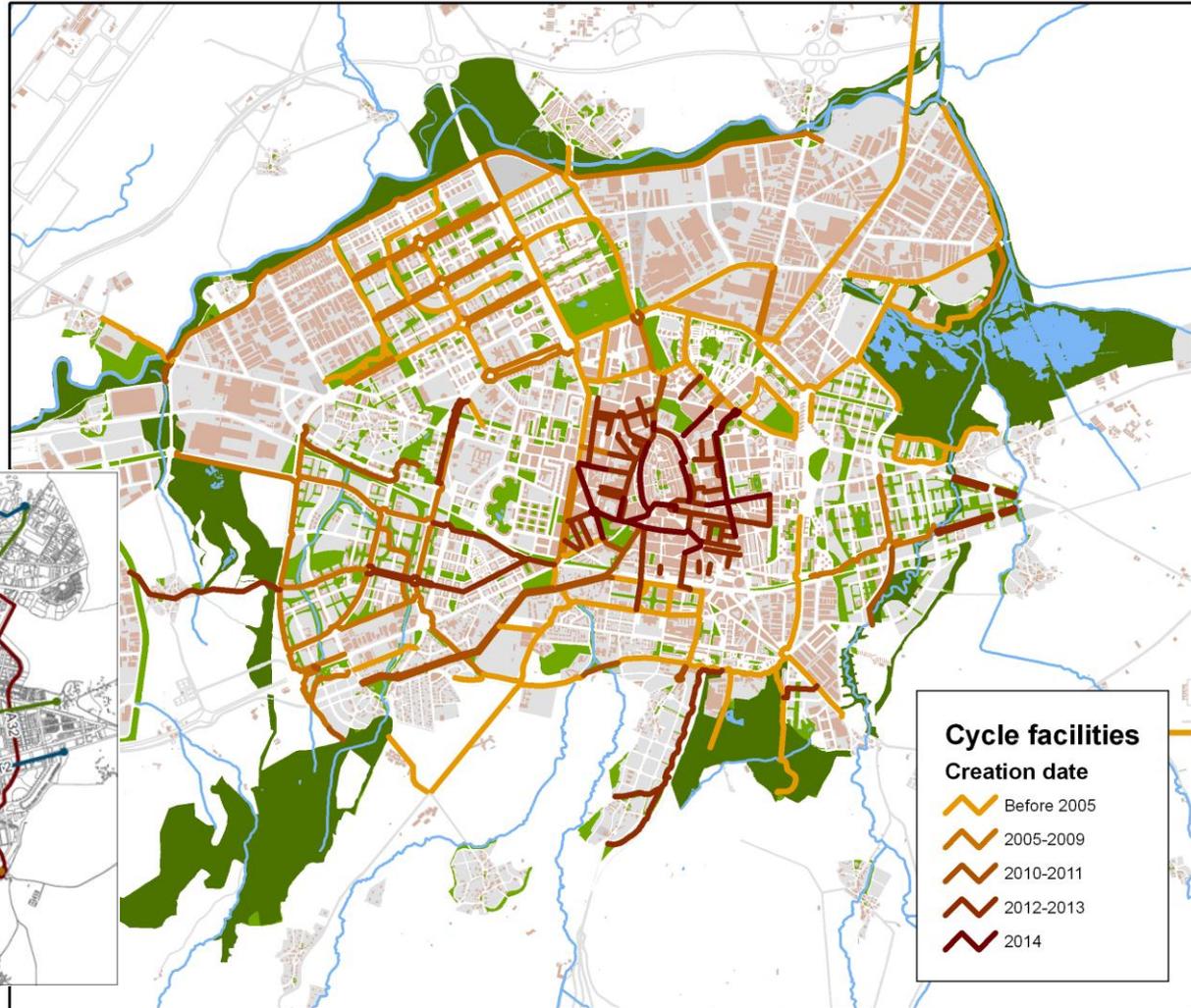
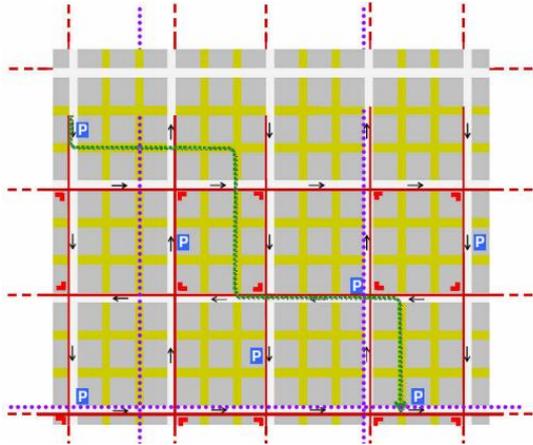
# New on-street parking policy

## Higher prices:



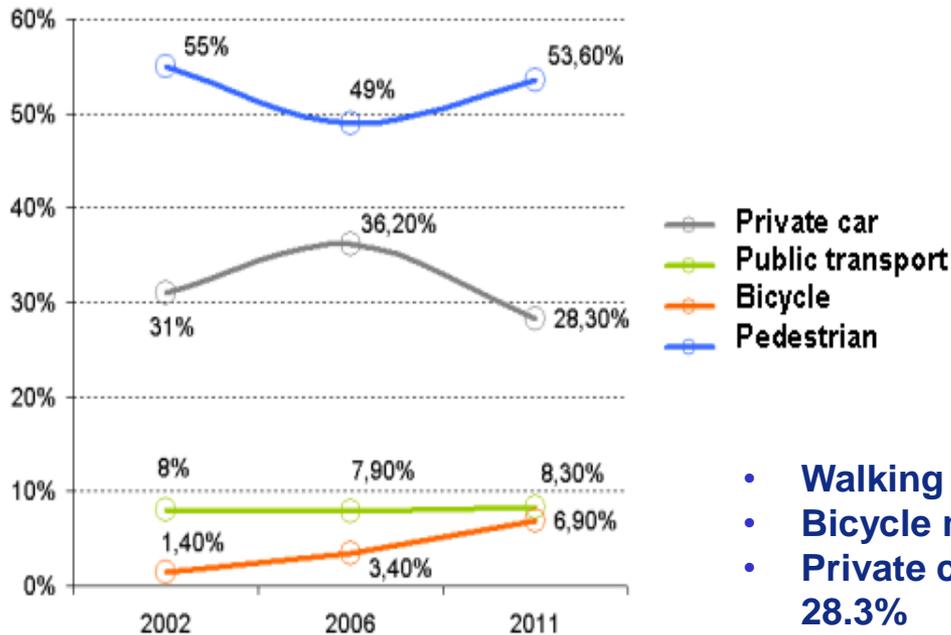
**Extended area: 29%**

# An efficient and functional Main Bicycle Network



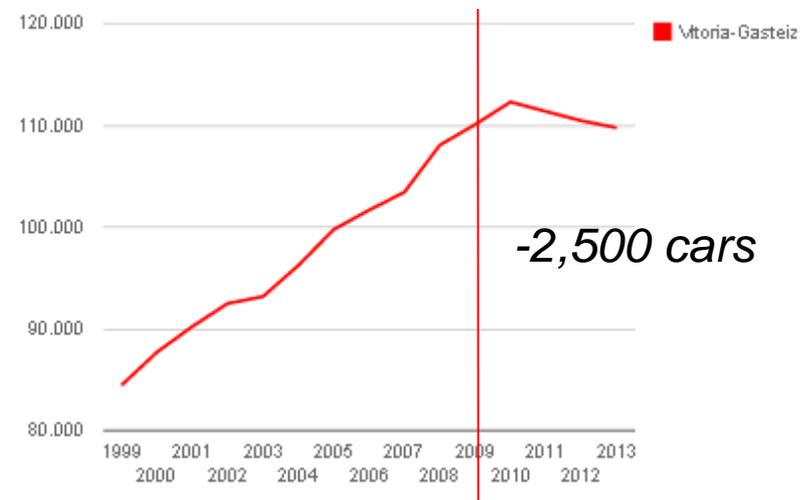
# Main figures after 5 years of SUMP

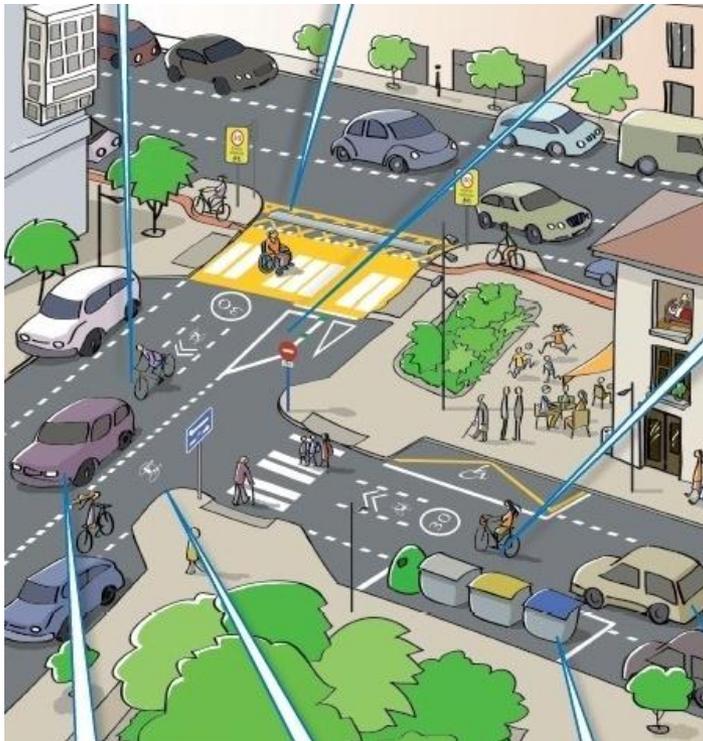
*We have succeeded in reversing the rising trend in private car use, raising the pedestrian share to 2002 levels and increasing the use of bicycle.*



- Walking modal split has increased from 49.9 to 53.6%
- Bicycle modal split has increased from 3.4 to 6.9%
- Private cars modal split has decreased from 36.6% to 28.3%

## Number of Cars registered





The increase in the number of cyclists on sidewalks and pedestrian areas has led to conflicts with pedestrians, so has been designed a traffic calming campaign in 47 streets of downtown with 3 objectives

- Improving road safety for pedestrian and cyclists
- Reduce emissions of pollutants
- Reclaim the space for pedestrians



The measure does not end here but will be extended to all city.

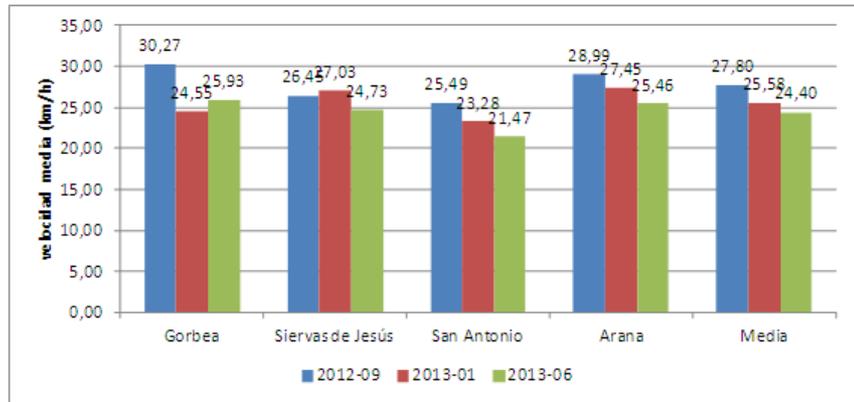
# Reorient cycling mobility towards non-conflicting itineraries with pedestrian





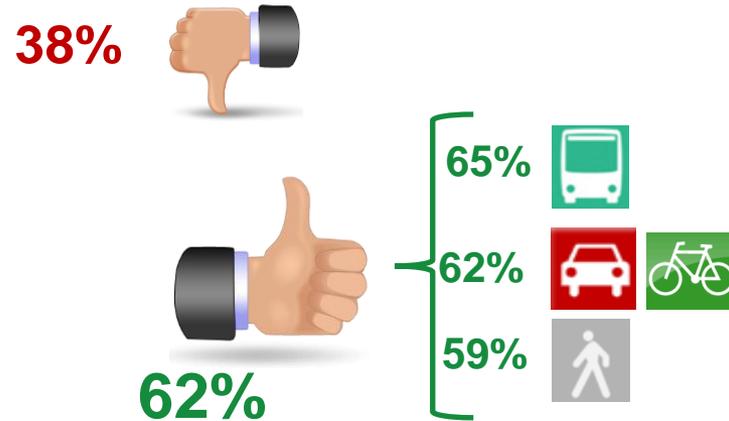


Calle	2012-09	2013-01	2013-06	Variación 2012-09 2013-01	Variación 2013-01 2013-06	Variación 2012-09 2013-06
Gorbea	30,27	24,55	25,93	-18,9%	5,6%	-14,4%
Siervas de Jesús	26,45	27,03	24,73	2,2%	-8,5%	-6,5%
San Antonio	25,49	23,28	21,47	-8,7%	-7,8%	-15,8%
Arana	28,99	27,45	25,46	-5,3%	-7,2%	-12,2%
Media	27,80	25,58	24,40	-8,0%	-4,6%	-12,2%

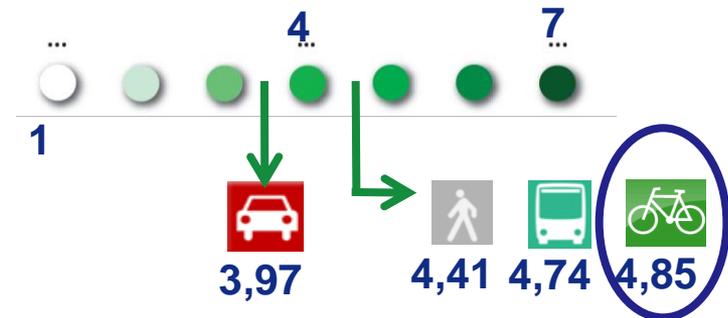


# Traffic calming assessment

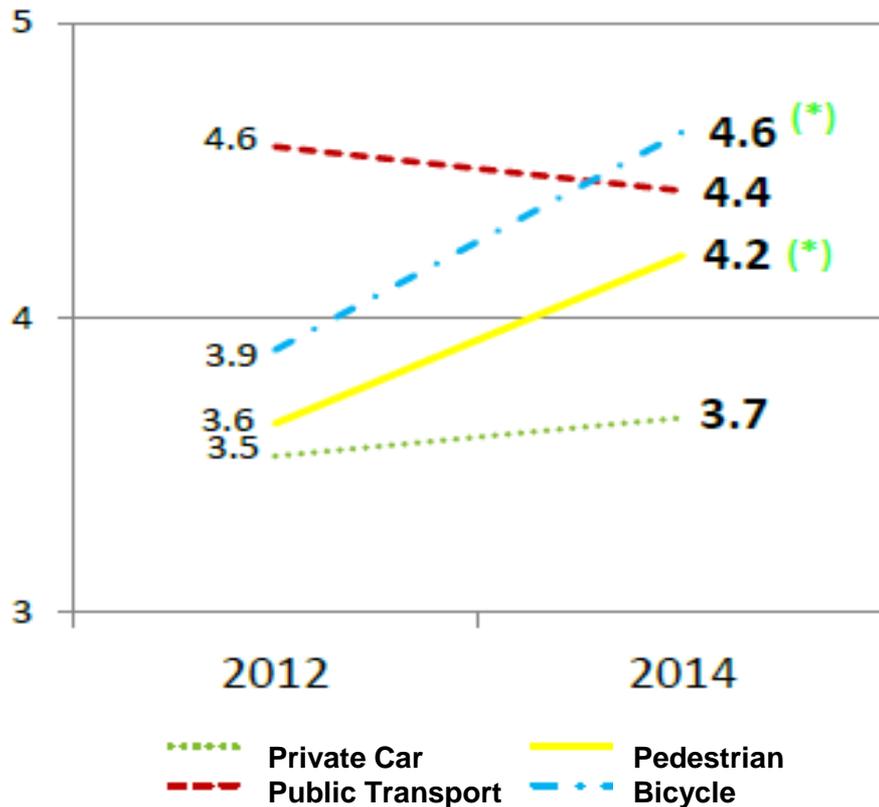
*Have you noticed the traffic calming in 47 streets in the city center?*



*Utility of the measure ...*



# Traffic calming assessment



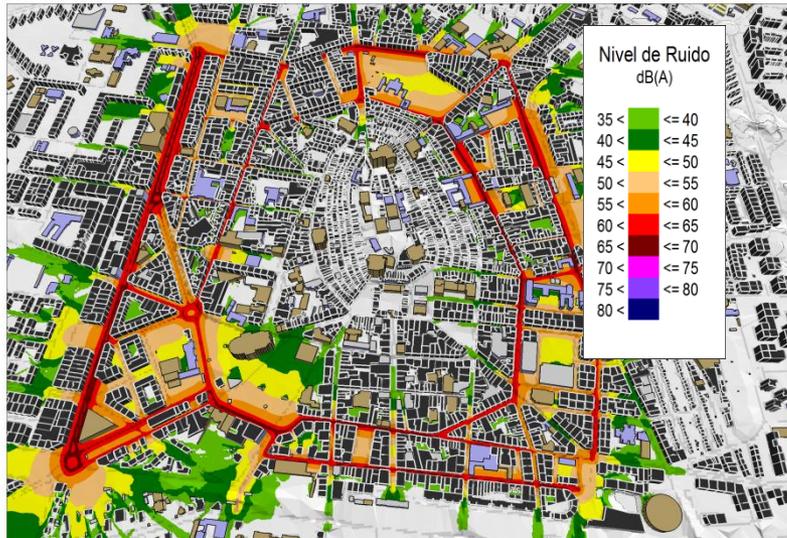
*“The traffic along my journey to the place of work/study allows me ride the bicycle on the road with cars”*

Strongly Disagree        Fully Agree

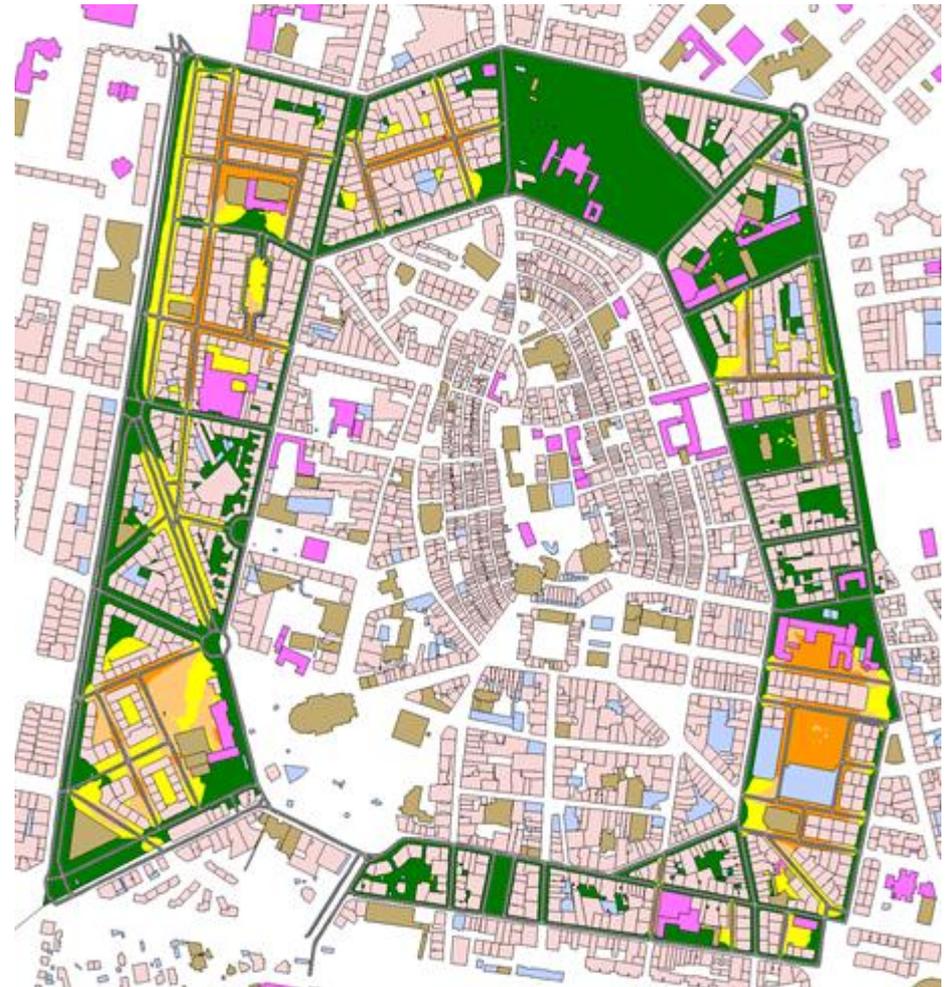
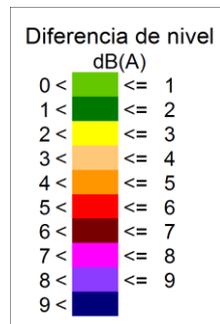
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7



- **Reduction (2-3 db) in the noise levels in the pilot area after the implementation of the measure.**
- **50% of the previous affected population achieved quality target.**



# Main figures after 5 years of SUMP



*The joint efforts of SMPSP and the Plan Against Climate Change are achieving a significant reduction in emissions, commitment assumed by signing the European Covenant of Mayors.*

## Evolution of emissions of greenhouse gases in Vitoria-Gasteiz

<u>GHGs emissions</u>	2006	2011	Δ 2011/2006	2006	2011	Δ 2011/2006
Municipality	t CO <sub>2</sub> e		%	t CO <sub>2</sub> e/inhab		%
Domestic sector	269.927	254.632	-5,67	1,17	1,05	-10,60
Services	202.227	179.713	-11,13	0,88	0,74	-15,78
<b>Mobility</b>	<b>243.971</b>	<b>219.722</b>	<b>-9,94</b>	<b>1,06</b>	<b>0,9</b>	<b>-14,65</b>
Primary sector	79.422	78.551	-1,10	0,34	0,32	-6,26
City council	45.771	43.023	-6,00	0,20	0,18	-10,92
TOTAL	841.318	775.641	-7,81	3,65	3,19	-12,60

*Plan Against Climate Change Target in 2020: -25 %*

# *Main figures after 5 years of SUMP*

## ***1<sup>st</sup> Phase SMPSP: Total Investment 26,000,000 €***

- Road Noise Savings (HEATCO): 1,300,000 €/yr***
- Road Accidents Evolution Savings (HEATCO): 4,700,000 €***
- Travel time savings Public Transport (HEATCO): 10,450,000 €/yr***
- Financial savings walking trend (HEAT): 56,262,000 €/yr***
- Financial savings cycling trend (HEAT): 5,768,000 €/yr***

... a process spanning more than 8 years.....

- Political agreement.
- Technical promotion.
- Citizen participation.





**Thank you!**

**Juan Carlos Escudero**

**Environmental Studies Centre/ Vitoria-Gasteiz City Council**

**[jcescudero@vitoria-gasteiz.org](mailto:jcescudero@vitoria-gasteiz.org)**

**<http://cea.vitoria-gasteiz.org>**

