

Bologna

Municipal area: 140,85 km² Resident population: about 372.500

Metropolitan area: nearly 600,000 residents

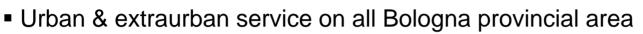


City profile

- Main town of the Emilia Romagna Region
- Centre of the most ancient University of Europe (XI century)
- Important interchange city in Italian national transport networks as it represents an obliged passage between North and South Italy
- Fair Quarter and an Conferences Palace
- Many receptive structures and industrial companies of primary importance in the field of mechanics, agriculture and foodtransformation
- Served by an international airport (Guglielmo Marconi Airport) which processes over 3,5 million passengers a year and by a very important railway station

ATC SpA – The transport company Shareholders:

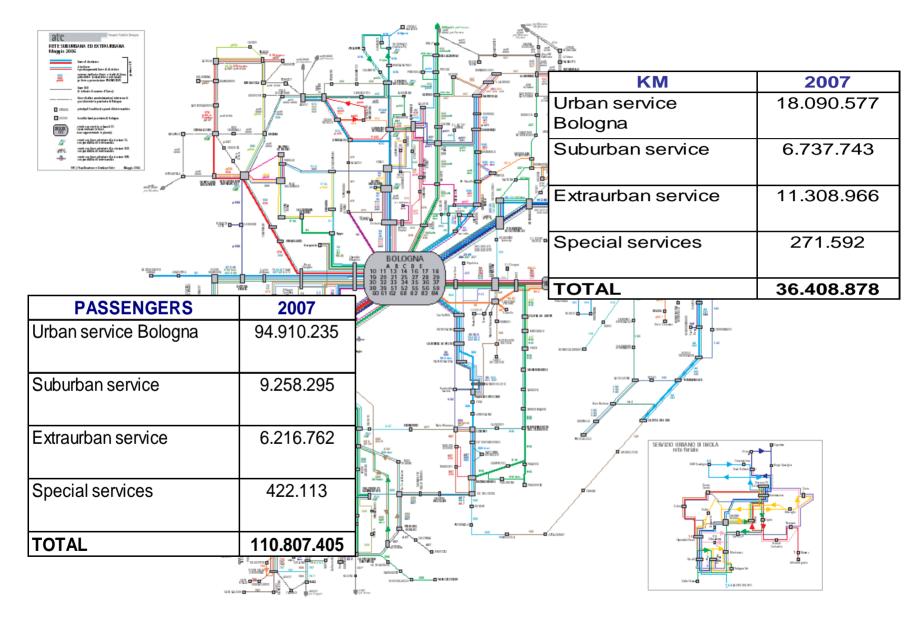
Bologna Municipality 62%Province of Bologna 38%



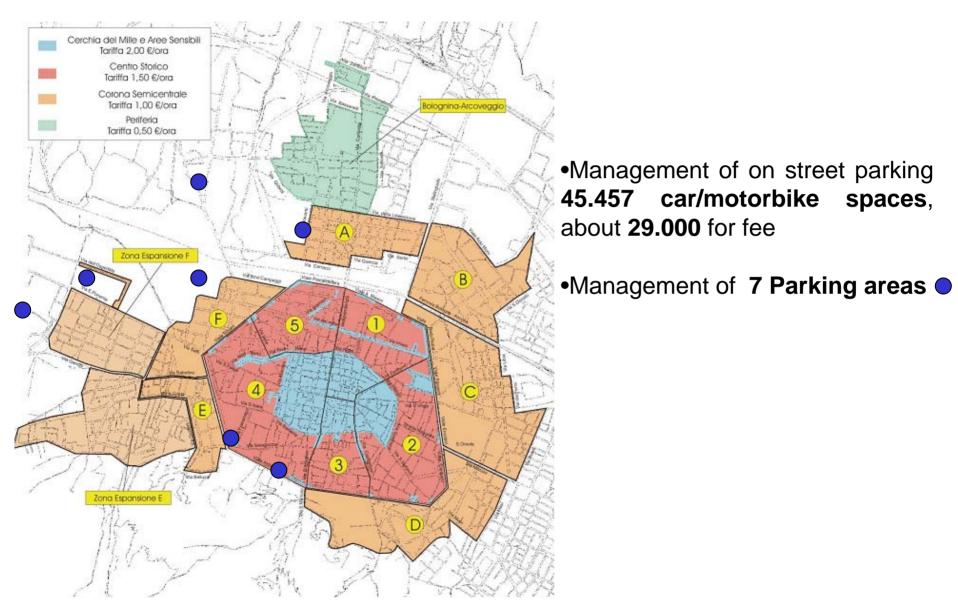
- Served Municipalities 60
- About 36.400.000 Vehicle/Kms per year
- About 111 million passengers
- 51.489 season tickets holders
- 985 Vehicles
- 3 depots
- 1.865 employees (about 1200 bus drivers)
- Parking management (24.000 spaces)
- Turnover: about 160.000.000 euro



ATC public transport network and service



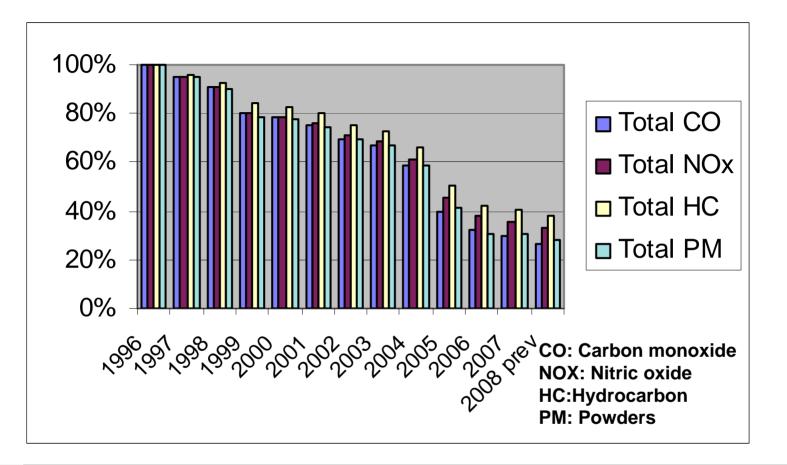
ATC – Parking management



ATC buses

FEEDING SYSTEM	31/08/2008	2007	2006	2005	2004	2008 - 2004	
Vehicles pre Euro							
standard	170	192	216	243	398	-228	
Euro 1 or 2	152	207	210	230	324	-172	
Euro 3 + CRT	391	340	339	329	128	263	
Euro 5	6	0	0	0	0	6	
CNG buses	141	141	113	102	62	79	
Hybrid buses	39	39	39	39	28	11	
Electric							
buses+Trolley							
buses	60	64	64	64	64	-4	
Total	959	983	981	1007	1004		

ATC fleet emissions



													prev.
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Total CO	100%	95%	91%	80%	78%	75%	70%	67%	59%	39%	32%	30%	26%
Total NOx	100%	95%	91%	80%	79%	76%	71%	68%	61%	45%	38%	35%	33%
Total HC	100%	96%	93%	84%	83%	80%	75%	73%	66%	51%	42%	40%	38%
Total PM	100%	95%	90%	79%	77%	69%	79%	67%	59%	41%	31%	31%	28%





In Bologna, the Public Transport Company ATC gave birth to the car sharing service.

In order to use the service, you need to sign a contract with ATC and pay an annual fee.

The membership card and the personal code enable you to book a car, by calling a national call centre or connecting to the Internet.

You then go to get the car in the nearest car parking and return it back, when not needed anymore.

You can book the car, just few minutes before you use it. If the car is not available, another car or another car parking are suggested.

The costs change according to the car in use and include all the costs, such as VAT, road tax and petrol.

The invoice is sent monthly to the customer.

Vehicle on board system







How it works:

- The on board computer is connected to the vehicle electrical equipment and works also as antitheft device.

- The card reader allows to open the door from outside the vehicle with the contactless card given to each customer at the service subscription.

- After the PIN has been digited on the on board computer, the vehicle is ready to start.

-The vehicle is connected via GSM to the server centre and send data on its use and receives booking data. GPS allows to localize the vehicle and collect km run.

- After the use the vehicle doors are closed through the contactless card.

Car sharing in Bologna

- I7 car sharing locations in Bologna city
- 8 locations in Bologna Province
- 40 vehicles
- 450.000 km/year
- 1.100 users



Direct advantages for service users

•Flexibility: only when you need a car you book and take it.

•Reduction of costs for car use: car sharing service is always convenient for people using the car up to 10.000 km/year

•You have the possibility to choose among different car typologies depending on your needs

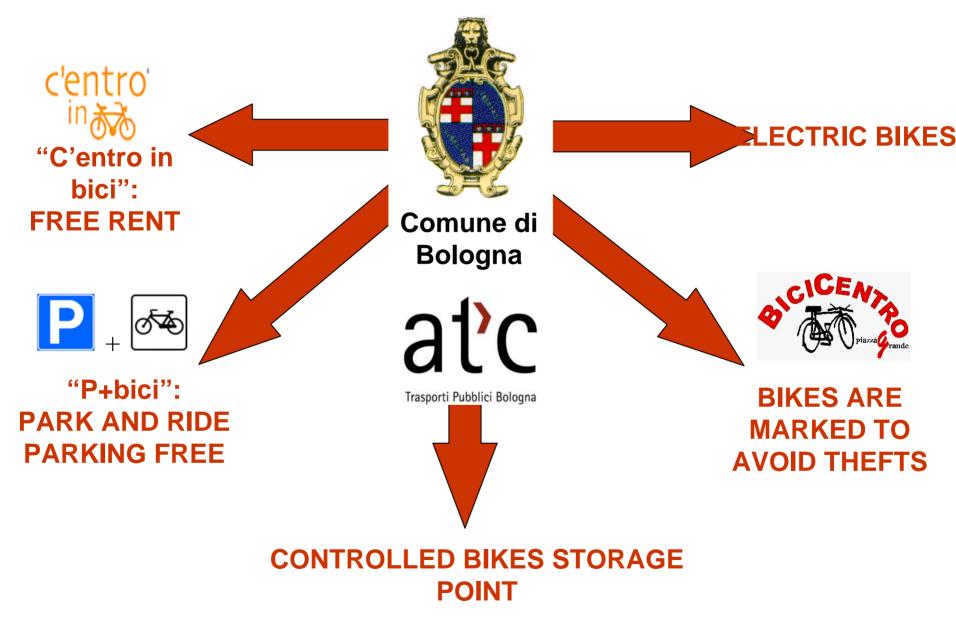
•No time/money waste for insurance, maintenance, owning tax



Settore Sosta e Supporto Mobilità GESTIONE SOSTA E MOBILITA'

atc

BIKERS' FACILITIES



Settore Sosta e Supporto Mobilità

GESTIONE SOSTA E MOBILITA' "C'entro in bici": BIKES FREE REN1

WHERE:

al

- 20 bikes in Piazza XX Settembre (in front of the Bus Station)
- 16 bikes in Via IV Novembre (in front of the "ATCittà Point")
- **12** bikes in the area of Parking Tanari
- **12** bikes in the area of Parking Staveco
- 8 bikes in University zone

Next plans: 60 bikes in many locations in town

HOW IT WORKS: It is a service of "public bikes" with automatic pickup.

The pre-registered user receives a key with a personal code to lock and unlock the bike from

the rack.

HOW MUCH IT COSTS: Free

(key released on bail).



Note: ATC manages this service on behalf of the Municipality.

Settore Sosta e Supporto Mobilità GESTIONE SOSTA E MOBILITA'

alc

"P+bici": PARK AND RIDE (PARKING FREE)

WHERE: The users of four PARKING areas can leave their cars without pay the pause and can pickup their bike.

HOW IT WORKS: The user can leave his bike in a reserved rack .

HOW MUCH IT COSTS: Free

Note: A free rental of bikes is guaranteed for the customers of Staveco and Zaccherini Alvisi Parking areas.





Settore Sosta e Supporto Mobilità GESTIONE SOSTA E MOBILITA' CONTROLLED BIKES STORAGE PO

alc



WHERE: ATC Point in the city center

HOW IT WORKS: •The storage point is surveilled by closedcircuit video-camera. It is open every day from 9 a.m. to 7.30 p.m. (40 places);

Information desk;

•Light maintenance service available.

HOW MUCH IT COSTS:

daily 0,50 €, monthly 8,00 €.



Settore Sosta e Supporto Mobilità GESTIONE SOSTA E MOBILITA'

alc

"BIKES IDENTIFICATION CODE TO AVOID THEFTS"

WHERE: Tanari Parking



HOW IT WORKS:

The parking staff marks on the bike an identification code and/or a digital system with the owner's generalities. The service is available a day to week.

HOW MUCH IT COSTS:

5,00 € for identification code service 25,00 € for digital microchip system service. Settore Sosta e Supporto Mobilità GESTIONE SOSTA E MOBILITA'

atc

ELECTRIC BIKES

The Enviroment Ministry finances the 20% of the Electric Bikes Project.

Plans:



•10 bikes of the Municipality

Rent bikes service in the "parking and ride"

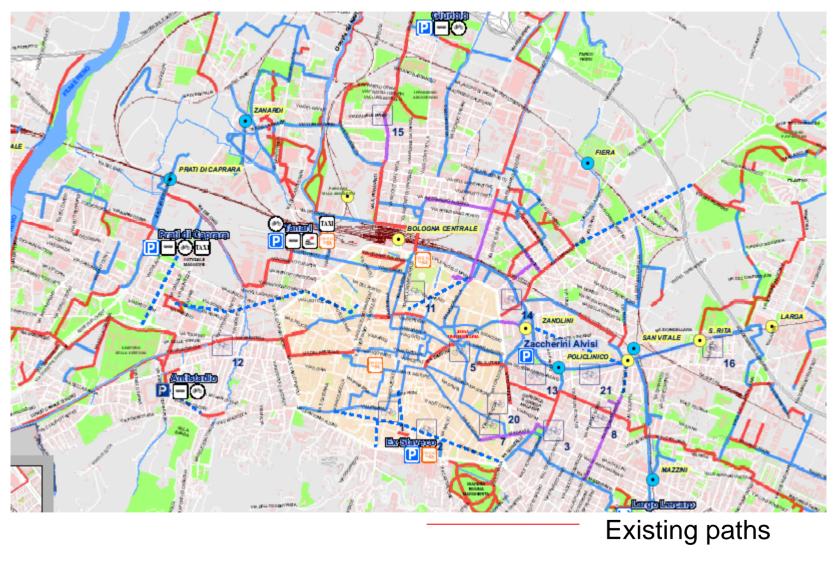
parking :

Tanari 8 bikes





Bicycle paths



Planned paths





Bicycle paths



Existing bicycle paths: 92 km

Main paths are located on radial roads:

- •West radial (City centre Casalecchio);
- •East radial (City centre San Lazzaro);

•North radial (City centre - Corticella; City centre - Arcoveggio);

•Radial Fair District (City centre – Fair District - Parco Nord).

Planned new bicycle paths: 80 km

Relevance of MIDAS measures:

In Bologna the measures identified in MIDAS will contribute to:

-create awareness among all city stakeholders to make mobility sustainable choices

-inform and address citizens towards alternative transport modes (car-sharing, car-pooling, bikesharing, public transport)

-facilitate integration between private and public transport

User needs/before survey:

ATC together with the Municipality realized at the end of 2006 a survey on user needs.

The relevant aspects of the survey were:

- collection of information on mobility habits and needs of the citizens.

- the perception of the services already implemented (car-sharing, bicycles services and paths, public bus transport, park+bus): do they know the services?, how do they use them?, why don't they use them?)

The questionnaire has been done as phone survey: during the call we asked people the availability to be contacted again for a focus group on mobility habits and needs of the family unit.

User needs/before survey:

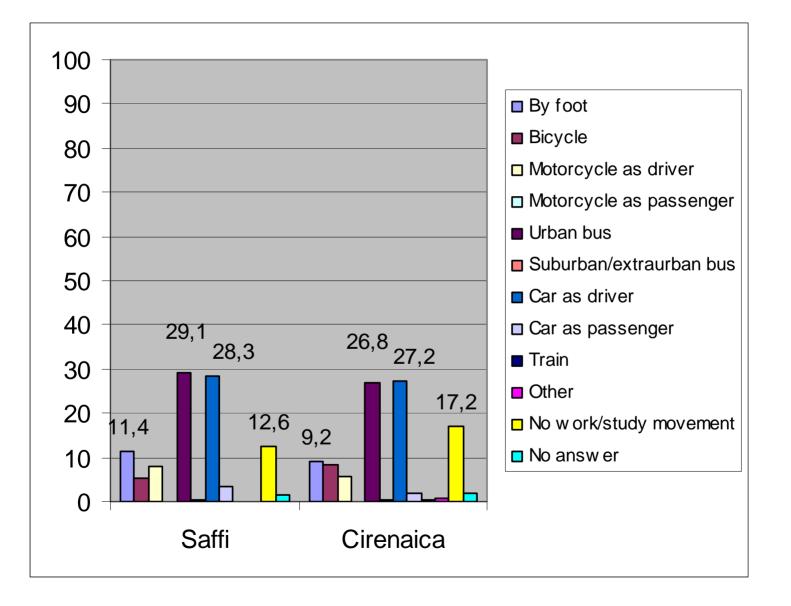
The survey was focused on people living in two different areas of Bologna city :

- an area (Saffi) in the West side of Bologna inside Via Saffi – Via Marzabotto – Via Sabotino – Viale Vicini. In this area car-sharing services have been already implemented, a long cycle path have been realized, public transport service is very effective

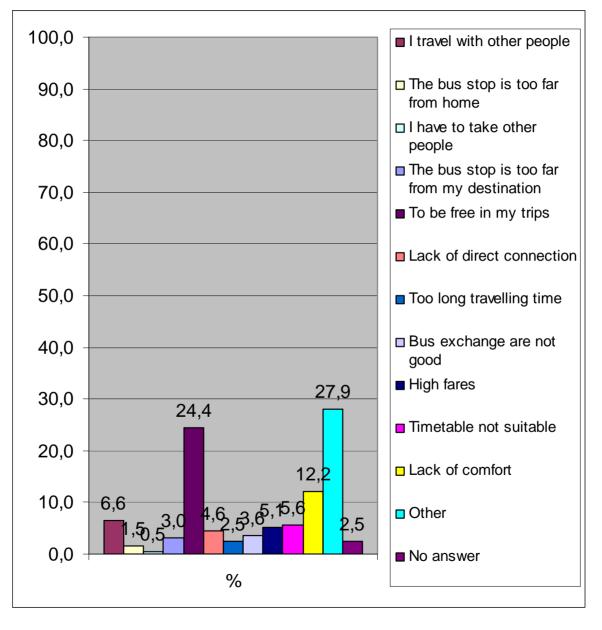
- an area in the East side of Bologna (Cirenaica) inside Via Paolo Fabbri – Via Massarenti – Via Rimesse – Via Mondo where "sustainable" services are at this moment less implemented.

This choice allowed also to compare if the awareness concerning alternative mobility services is considerably different in the two areas.

Which transport mode do you use for your everyday trips?



Why don't you use public transport for your trips?



Main result of survey and focus groups "PUBLIC TRANSPORT"

The answers indicate that 28% of people use public transport for everyday trips.

Analysing remaining people that do not use public transport it seems that:

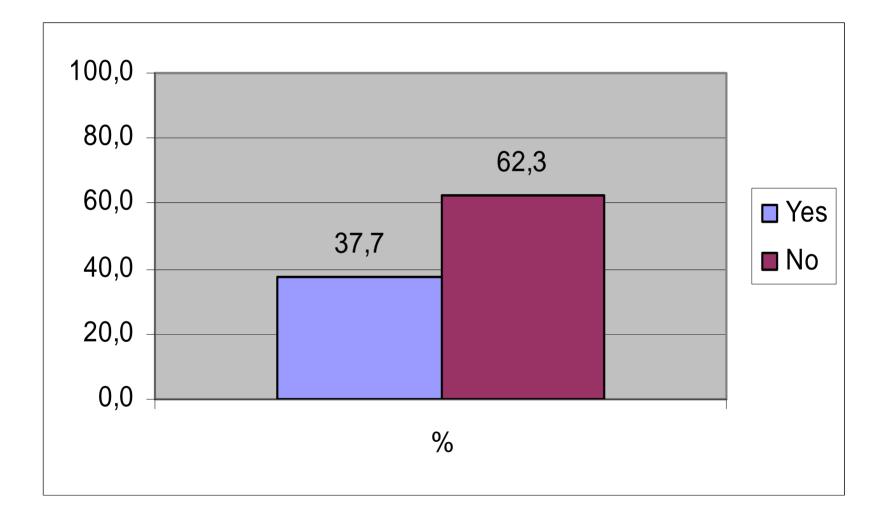
- the main reason is the need of a complete flexibility in trips that can only be guarantee by private vehicles.

-moreover there are not other substantial reasons for which people do not use public transport. About 28% of answers are "Other" which is composed by a spread of not relevant reasons

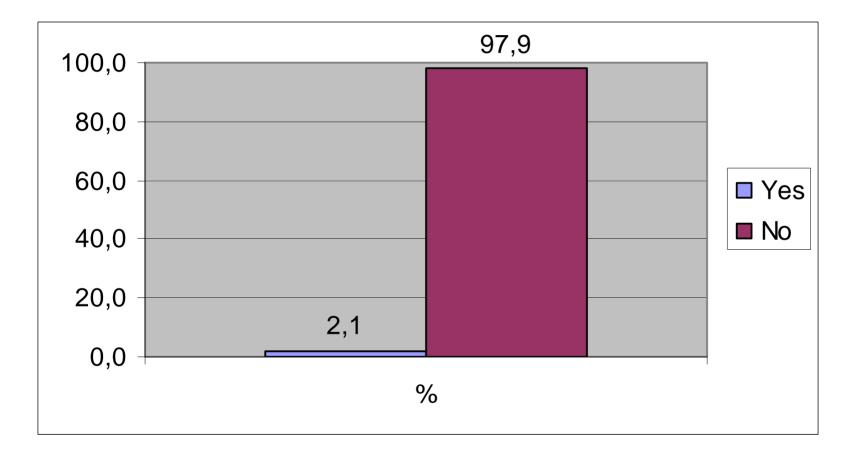
In spite of this Mobility Manager activities reached significant results.

Deduction: It is necessary to encourage promotional agreements with companies and institutions and at the same time it is needed the introduction of more restrictive circulation measures.

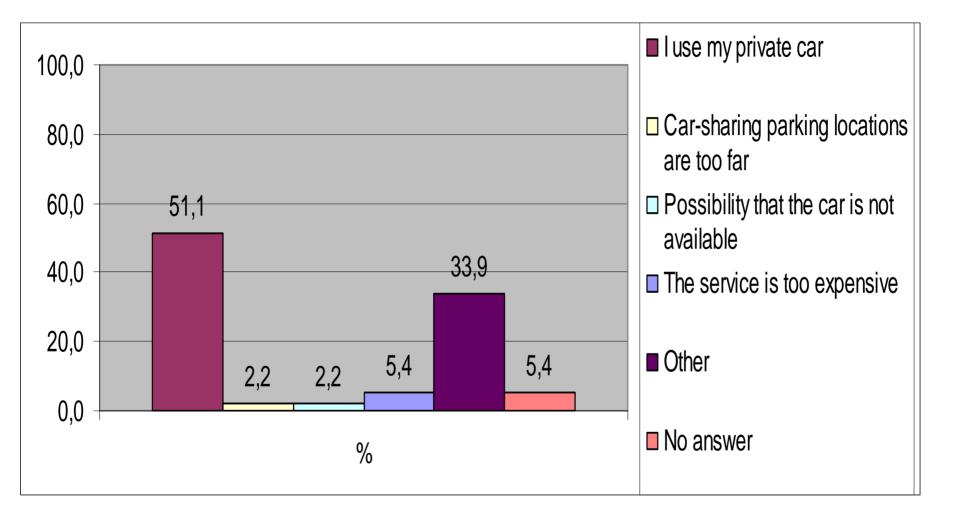
Do you know car-sharing service?:



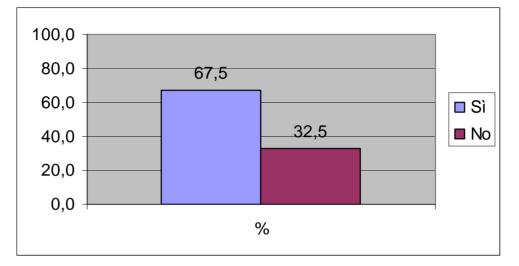
Do you use car sharing service?:



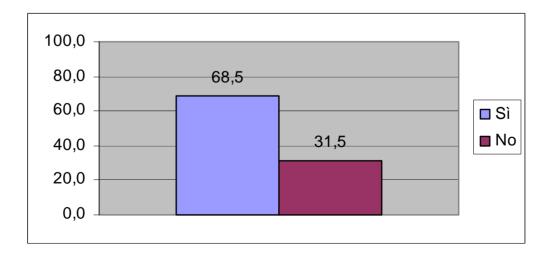
What is the reason why you don't use car-sharing service?



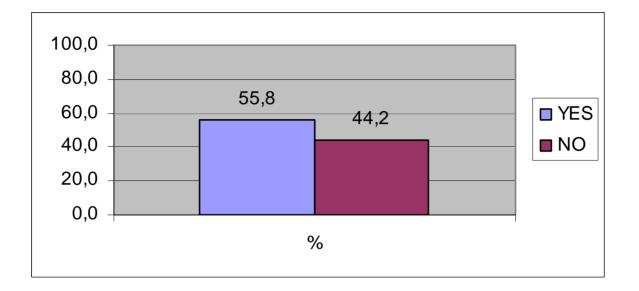
Do you know bicycle paths in your living area?



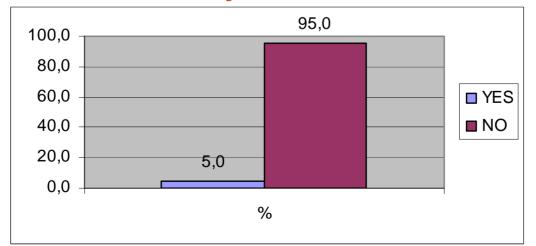
Have you ever used them?



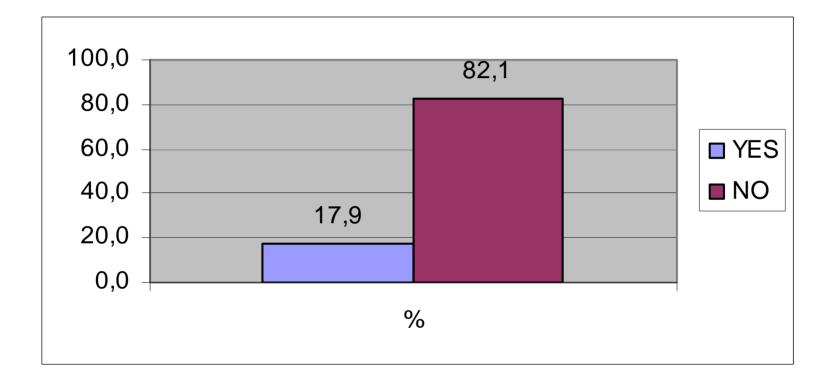
Do you know the service "C'entro in bici": BIKES FREE RENT?



Have you ever used it?



Do you know the services to support the use of bicycles (controlled bike storage point, maintenance service, bike identification code, park+bike)?



Focus groups

During the telephone survey we asked people the availability to be contacted again for a focus group.

Starting from the results of the survey we realized two focus groups with 10/12 people each concentrating the discussion on:

- car sharing service
- bicycle paths and services

Main result of survey and focus groups

It appears that there is not a significant difference in knowledge and use of alternative mobility systems in the two different areas of the city we selected even though level of services available are quite different

Deduction: The simple offer of alternative mobility services is not sufficient to assure the use of them

MIDAS Actions: Awareness campaign on alternative mobility services

Main result of survey and focus groups "CAR SHARING"

The interwieved citizens confuse information concerning car-sharing service. During the phone survey they told they know the system but going in deep during the focus group we realized that they have wrong perception of the service:

-at the beginning of the focus groups they said that the service is expensive and it costs like or even more than a taxi

- they do not understand when, to which people and why it can be useful After the discussion people change their opinion and agreed that:

- the service is not expensive;
- It is very useful for people that do not use the car every day;

- it gives the possibility to have a car only when needed without problems and costs related to maintenance insurance and taxes

Deductions: The correct information did not reach citizens **MIDAS Actions:** Promotional campaign that will put on evidence strenght points of the service

Main result of survey and focus groups "BICYCLES PATH AND SERVICES"

As concerns bicycle paths, the focus groups put on evidence that one of the main obstacles in using bicycle is the lack of safety and the fragmentation of paths.

Deductions: Need to review the planning and the realization of the infrastructures with particular attention to safety aspects.

MIDAS Actions: Realization of a specific study in order to develop the existing bike path network and review the protection and signalling of the paths (road signs, speed bumps, protection kerb,...).

Bologna

MIDAS specific actions

Filtro Anti Particolato

in trappola

www.atc.bo.it

MIDAS actions: Information campaign





In coincidence with the European Sustainable Mobility Week from 16th to 23rd September 2007, ATC started the information campaign focused on:

car sharing service

bicycle use (bicycle paths, bike hire service, bicycle facilities)

public transport service.



MIDAS actions: Information campaign



A stand was placed in Bologna main square for the whole week: personnel from ATC and Bologna Municipality was at disposal for information and distributed info material.

One vehicle of the car sharing fleet was at disposal for demonstration as well as electric bicycles.

The campaign now is going on at ATCittà the info point for sustainable mobility services and ticket sale point for public transport.

MIDAS actions: Information campaign



E LA QUALITA DELL ARIA

Con il contributo dell'Unione Europea

MIDAS

Comuni dell'hinterland (Casalecchio di Reno ini in Persiceto, Anzola dell'Emilia e San Lazzaro vantaggi per chi usa il car sharing. zione ibrida elettrica e benzina. ve

ina tantum di iscrizione ed una annuale di tall center, la si può prelevare nell'area di sosta omento dell'iscrizione. Per l'utilizzo dell'auto si metri percorsi, in quanto bollo, assicurazione wiffe

o per il tempo necessario, offre la possibilità di inuiscono le auto in circolazione e aumenta il premiata con benefici e vantaggi sia in termini

zi pubblici, non pagano la sosta in città, hanno Ila "T" e possono sempre circolare nel giorni di

re riservate condizioni agevolate sui costi nei Comuni della Provincia in cui è attivo di Bologna e della Regione Emilia-Romagna), mobilità sostenibile ed ecocompatibile di questi to pubblico e del car sharing, per i titolari di a quota annuale scontata del 50%.

al Car Sharing dopo aver rottamato la propria

vo il servizio di Car Sharing) e rottama l'auto (o ndo dell'incentivo messo a disposizione dal

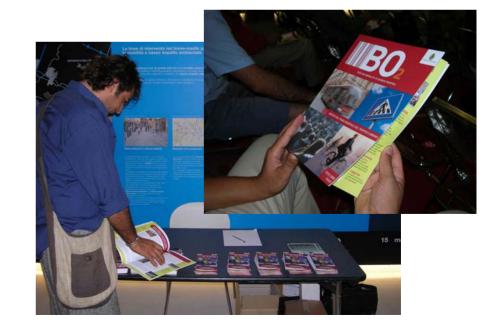
ondo ti entro un periodo di 2 anni. Restano a carico

Info material: cycling path and bicycle services mobility management actions and traffic restrictions 🚸 info on new car sharing locations

MIDAS actions: Conference 17th September 2007



The public conference took place on 17th September 2007 involving all local and regional stakeholder, to debate on sustainable mobility issues in Bologna in the context of the General Plan for Mobility.



MIDAS actions: Conference 17th September 2007



Institutions involved: the Municipality, the Province, the Transport Agency and the Emilia Romagna Region.



Mobility Vademecum: "La Carta della Mobilità"

The main goal that we want to reach with "La Carta della Mobilità" is to give essential and concise information to citizens to be really effective.



- This booklet issued in August 2007 groups information on all Bologna sustainable mobility services:
- public transport
- car-sharing service
- bicycle paths, bicycle services and facilities.

"La Carta della Mobilità" has been delivered at home to all ATC annual season ticket holders and it is at disposal at ATCittà info point.

CAR sharing service - **Direct information campaign**

Realization of a car sharing information campaign addressed to University Students in Bologna.

In the context of Mobility Management activities, in order to improve mobility in the city centre and encourage car sharing use, **an agreement between ATC and the University** was signed in September 2008 to guarantee special conditions to university employees and students: the subscription costs have been sensibly reduced and the rules to join the service have been simplified

An information campaign was launched in September 2008 during the Alma Fest (one day dedicated to student for the opening of the academic year).

A mail to all students was sent through the University to inform on car sharing opportunities.