

**NO  
PARKING**

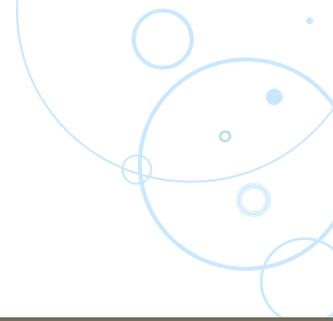
# CAR SHARE ZONING TEXT AMENDMENT

DEPARTMENT OF CITY PLANNING  
CITY OF NEW YORK

APRIL 26, 2010



**NYC** PLANNING



Car sharing can provide New Yorkers a wider range of economical transportation choices and help increase parking availability within neighborhoods.

City Planning is proposing a zoning text amendment that would allow car sharing vehicles to park in off-street parking facilities (garages and lots) in appropriate locations.



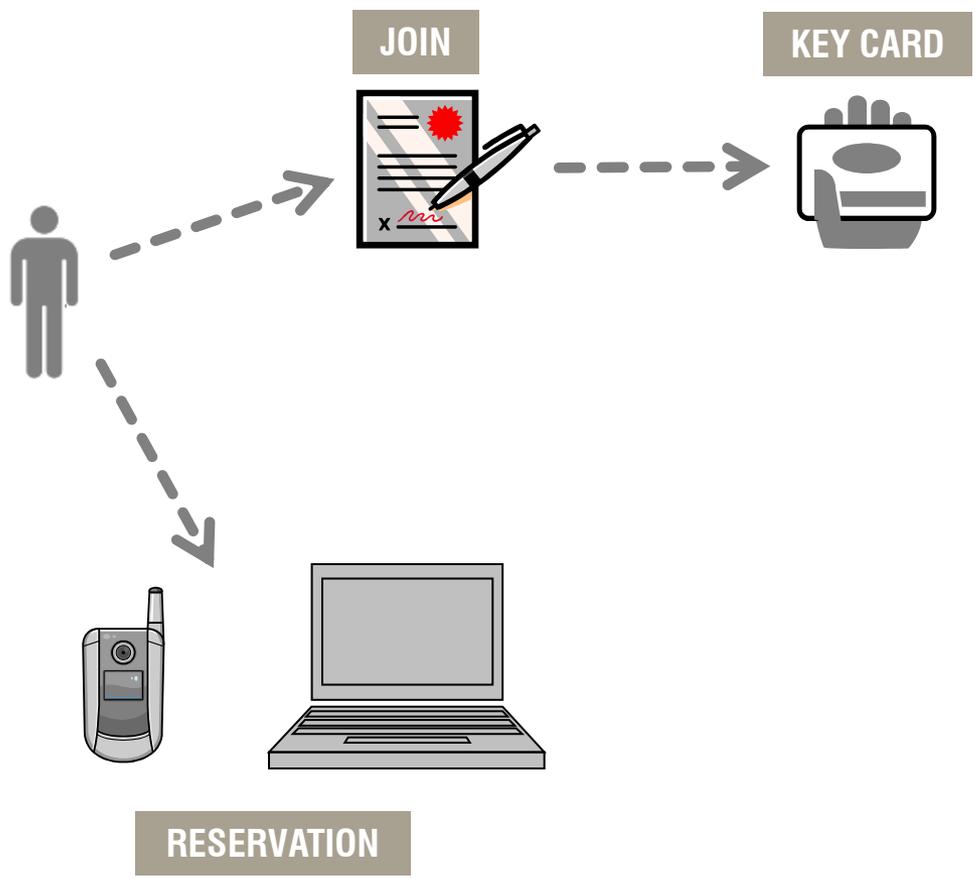
## What is car sharing?

- A system in which a fleet of vehicles are made available for use by members.
- Membership is open to the general public.
- Car share vehicles are available on an hourly basis.
- Vehicles are located at unstaffed (self-service) locations and are geographically dispersed.
- Vehicles are available 24 hours a day.
- Members are charged by the hour and/or by miles driven.
- The car share organization provides insurance for its members and assumes responsibility for maintenance of the vehicle.



# Background

## How car sharing works



## Car sharing

- The first successful programs started in Germany & Switzerland in mid-1980s.
- Portland launched the first U.S. car share company in 1998.
- About 18 nonprofit and for-profit operators have created programs in 30 states, serving more than 20 major metropolitan markets, over 150 college campuses, and many commercial businesses.



**NEW YORK CITY**  
**ZIPCAR (2000)**  
**CONNECT BY HERTZ (2008)**  
**MINT (2008)**

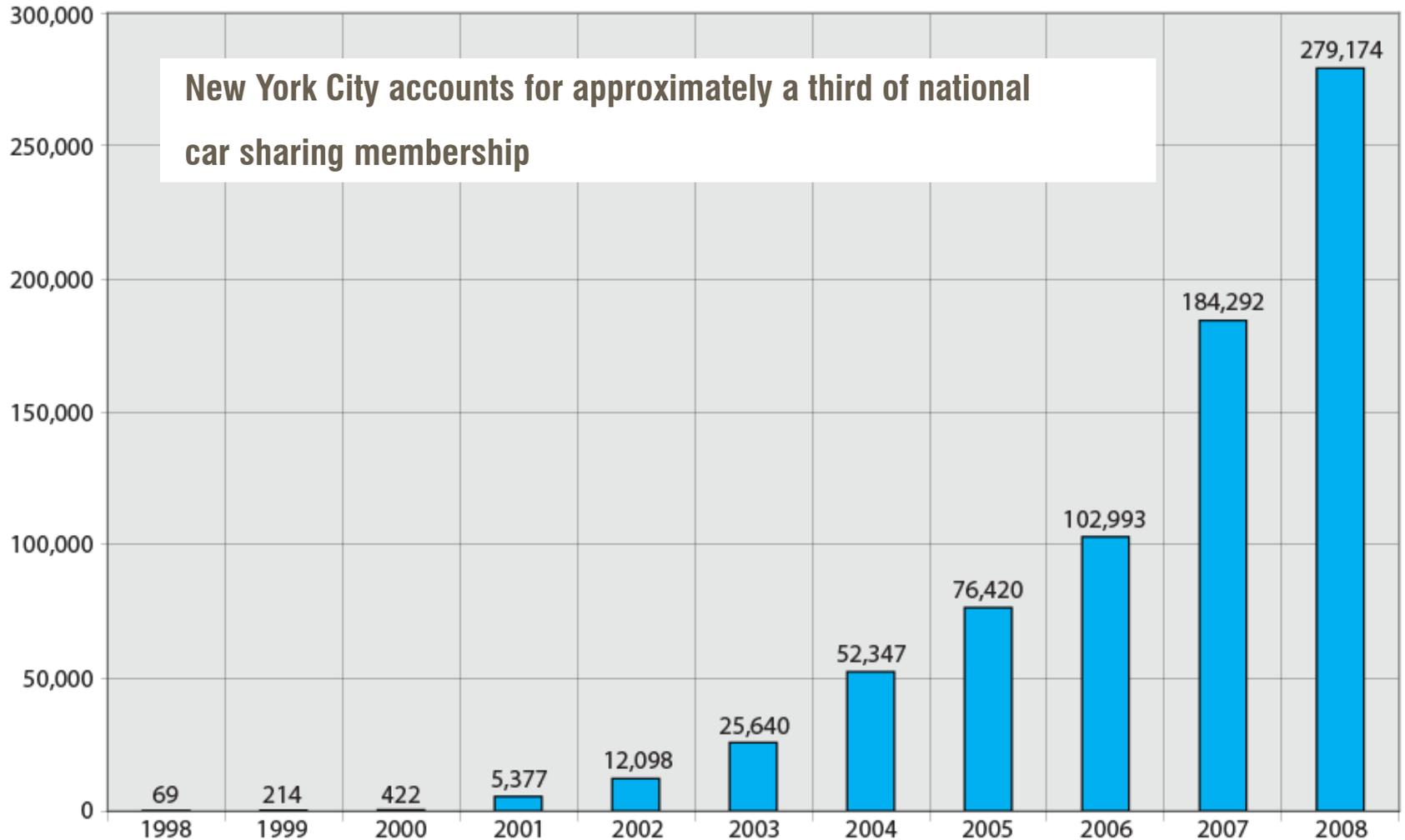
### Non-profit Companies:

Community Car (Madison)  
City Carshare (Bay Area)  
eGo Car (Boulder/Denver)  
I-GO Carsharing (Chicago)  
Community Car Share (Seattle)

### For-profit Companies:

U Car Share (U-Haul – 2008)  
WeCar (Enterprise – 2008)  
Occasional Car (Denver)  
CityWheels (Cleveland)

## Growth Trends in Car Share Members in the U.S. 1998 ~ 2008

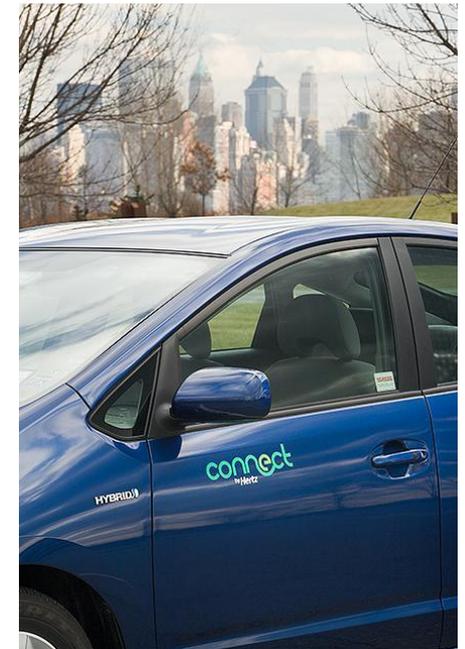


## Individual Benefits

- **Affordable alternative to car ownership**
  - reduces parking, maintenance, insurance costs
- **Easy access to areas not connected by public transit, cabs**
- **Increases mobility**
- **Can replace a first or second car – in national studies 6 - 32% of users gave up car**

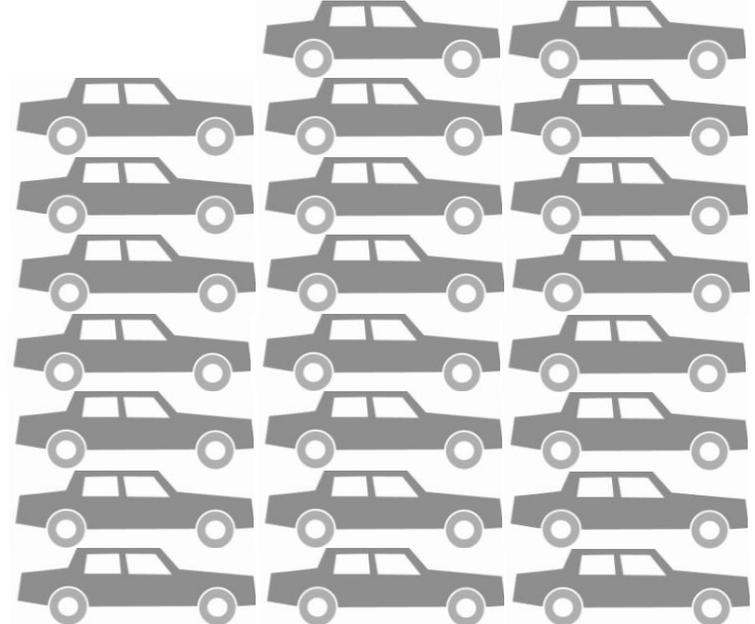
## Community and Environmental Benefits

- **Reduces neighborhood parking demand**
- **Car share members drive less - helps reduce congestion, greenhouse gas emissions & air pollution**



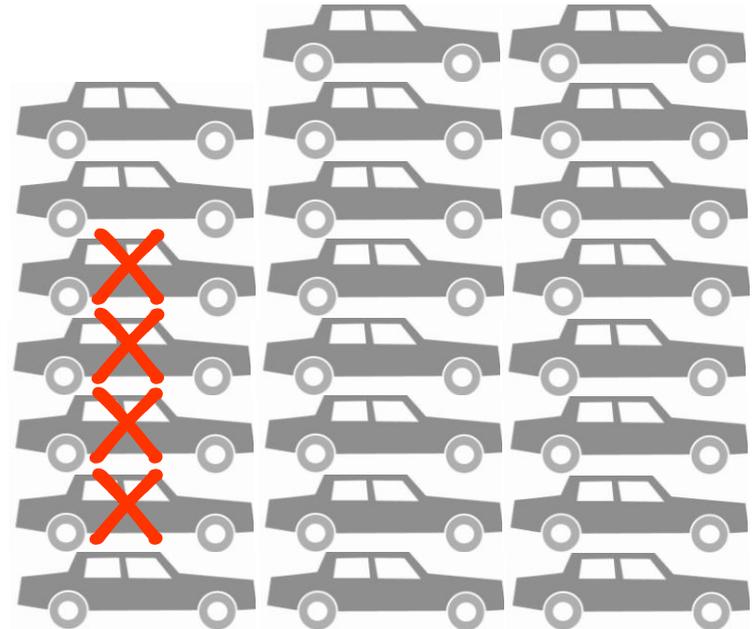
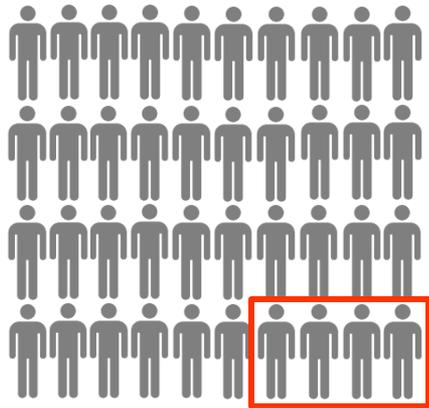
## Car Share Vehicle vs Private Vehicle

- 1 or 2 people share 1 private vehicle (and 1 parking space)



## Car Share Vehicle vs Private Vehicle

- Approx. 40 members share 1 car share vehicle and 1 parking space



- Previous studies suggest that between 6% - 32% of car share members give up a vehicle (average 15%)

- Eases demand for parking spaces

# Benefits



## Members drive less

- Studies show that car share members drive less – make fewer, shorter trips, and combine multiple errands into a single linked trip

- Contributes to reducing traffic congestion and air pollution

### Fixed Costs

### Additional Cost per Trip

	Fixed Costs	Additional Cost per Trip
<p style="text-align: center;"><u>Car Ownership</u></p> 	<p style="text-align: center;">\$</p> <p style="text-align: center;">Vehicle purchase or lease, parking, etc.</p>	<p style="text-align: center;">¢</p> <p style="text-align: center;">Cost of fuel used, etc.</p>
<p style="text-align: center;"><u>Car Sharing</u></p> 	<p style="text-align: center;">\$</p> <p style="text-align: center;">Membership fee</p>	<p style="text-align: center;">\$</p> <p style="text-align: center;">Fee based on time and/or mileage</p>

## Where is car sharing in New York City?

- Car share companies generally locate vehicles in proximity to existing membership.
- Currently, car share vehicles are primarily located in Manhattan and expanding to higher density areas of other boroughs.



## Issues with current zoning

1. **Car sharing did not exist when zoning regulations were written**
2. **No clear rules for where car share vehicles can or cannot locate**
  - **Regulations for accessory parking facilities**
  - **Regulations for public parking facilities**



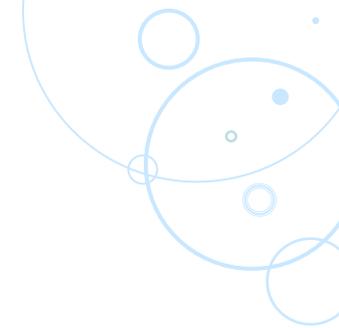


## Define car sharing in the Zoning Resolution

### Car sharing is different from traditional car rental

- Membership is open to the general public.
- Vehicles are available on an hourly basis.
- Vehicles are located at unstaffed locations.
- Vehicles are available 24 hours a day.
- Members are charged by the hour and/or by miles driven.
- The company provides insurance for its members and maintains vehicle.





## Where would it apply?

The proposal would allow car sharing vehicles to be located in public or accessory parking facilities, within appropriate limitations based on use and density.

PROPOSED LIMITATIONS	TYPE OF PARKING FACILITY / DISTRICTS
Most flexible	<ul style="list-style-type: none"><li>• Medium and High Density Residential Districts</li><li>• Public Parking</li></ul>
Limited to larger parking facilities	<ul style="list-style-type: none"><li>• Lower Density Multifamily Residential</li><li>• Commercial, Manufacturing, Community Facility</li></ul>
Not generally allowed	<ul style="list-style-type: none"><li>• One- and Two-Family Residential Districts</li></ul>

Individual garages and lots can choose whether to allow car sharing.

## Medium and High Density Residential



In accessory residential garages and lots,  
car sharing vehicles would be allowed to park in:

Up to 20% of total spaces, or 5 spaces  
(whichever is more)

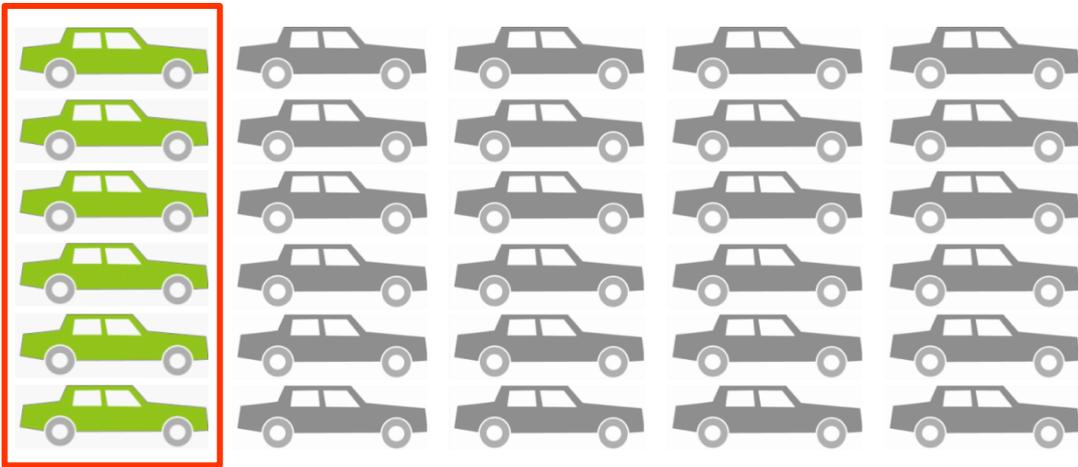
R5, R6, R7, R8, R9, R10 Districts (and C equivalents)



## Medium and High Density Residential

**6** car share vehicles would eliminate demand for an estimated **14-77** cars in the area

Up to 20% of total spaces, or 5 spaces (whichever is more)



**EXAMPLE**                      Size of facility : 30 spaces  
Car sharing vehicles : up to 6 cars



## Public Parking Garages and Lots



In public parking lots and garages,  
car sharing vehicles would be allowed to park in:  
  
Up to 40% of total spaces



## Public parking facilities (privately owned or municipal)



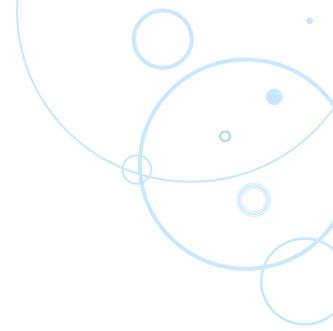
## Public Parking Garages and Lots Example

**12** car share vehicles would eliminate demand for an estimated **28-154** cars in the area

Up to 40% of total spaces



**EXAMPLE**                      Size of facility : 40 spaces  
Car sharing vehicles : up to 12 cars



## Lower Density Multi-Family Residential Districts



In accessory residential parking facilities with at least 20 spaces, car sharing vehicles would be allowed to park in:

Up to 10% of total spaces

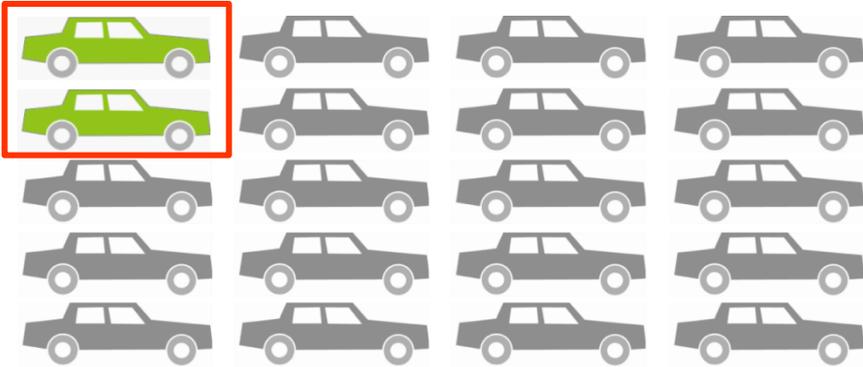


## R3-2, R4 Districts

## Lower Density Multi-Family Residential Districts

2 car share vehicles would eliminate demand for an estimated 5-26 cars in the area

Up to 10% of total spaces



**EXAMPLE**                      Size of facility : 20 spaces  
Car sharing vehicles : up to 2 cars



## Commercial, Community Facility, Manufacturing



In accessory parking facilities with at least 20 spaces, car sharing vehicles would be allowed to park in:

Up to 10% of total spaces

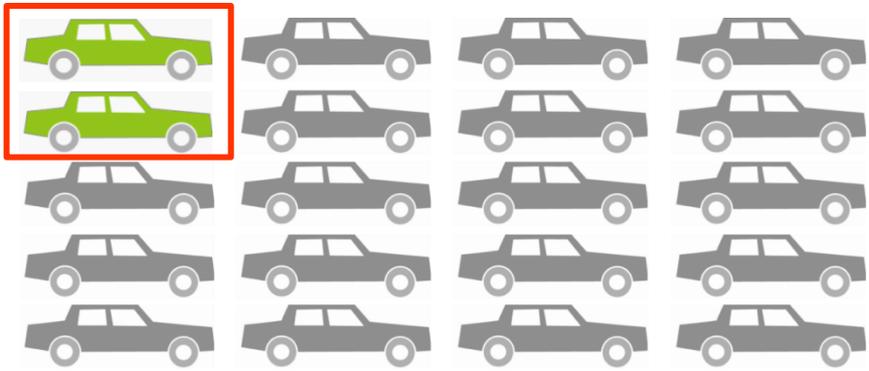
C1, C2, C4, C5, C6, C7, C8, M1, M2, M3 Districts

# Proposal

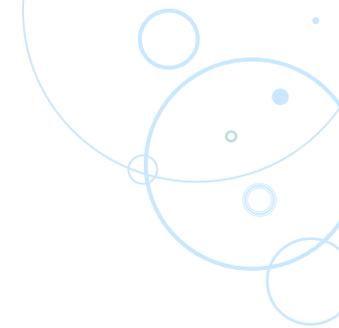
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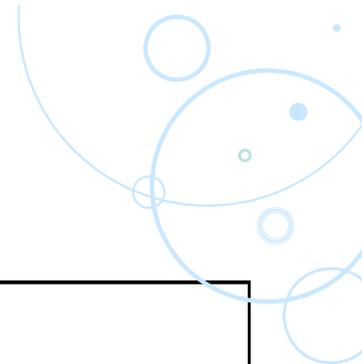


## Low Density One- and Two-Family Residential



Car share vehicles are NOT allowed in these residential accessory parking facilities.  
Allowed in accessory parking for colleges and universities.

R1, R2, R3A, R3X, R3-1, R4A, R4B, R4-1, R5A Districts

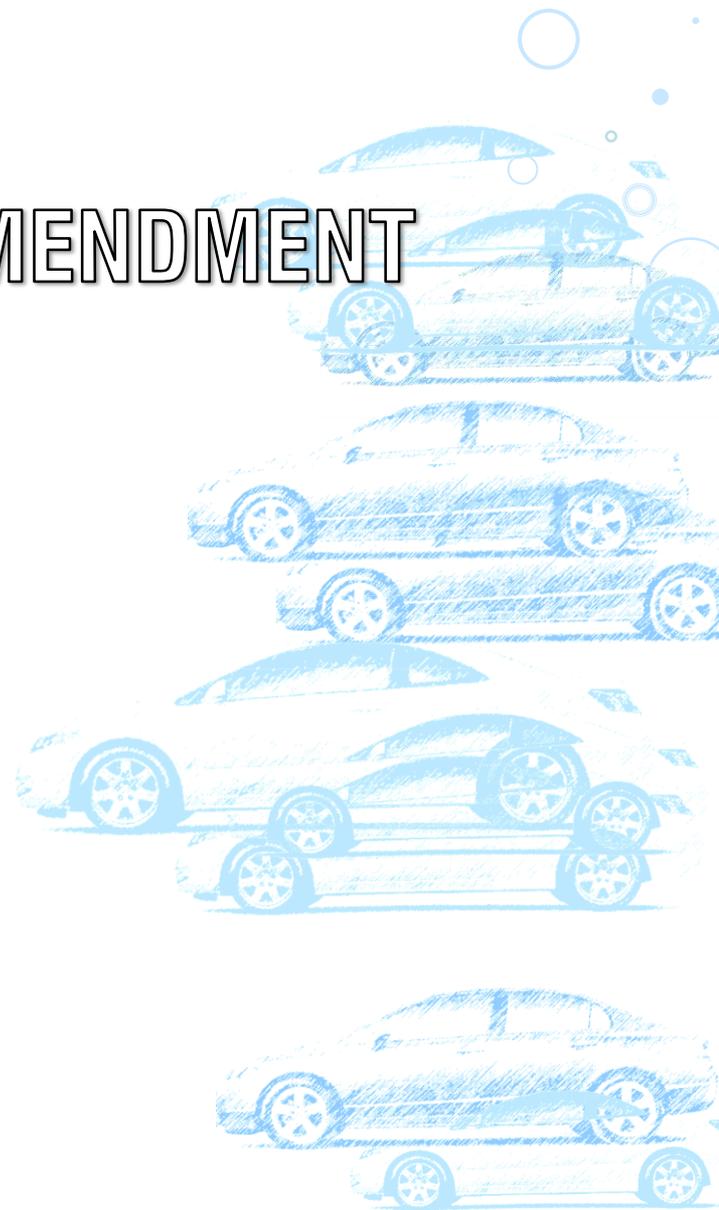


## Summary Chart

ZONING DISTRICTS	SIZE OF PARKING FACILITY	CAR SHARING PERCENTAGE
<b>RESIDENTIAL DISTRICTS</b>		
<b>One and two family districts (R1, R2, R3A, R3X, R3-1, R4A, R4B, R4-1, R5A)</b>		
Residential	Not Applicable	Not Allowed
Community Facility limited to Colleges/Universities	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
<b>R3-2, R4 (except R4A, R4B and R4-1)</b>		
Residential	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
Community Facility limited to Colleges/Universities	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
<b>R5 - R10 (except R5A)</b>		
Residential	any size	allow 20% of total vehicle spaces or 5 spaces, whichever is more, for car share parking
Community Facility	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
<b>COMMERCIAL DISTRICTS</b>		
Residential		see rules for applicable residence district
Commercial	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
Community Facility	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
<b>MANUFACTURING DISTRICTS</b>		
All Uses	20 spaces or more	allow max of 10% of total vehicle spaces for car share parking
<b>PUBLIC PARKING LOT / PUBLIC PARKING GARAGE</b>		
Public parking lot/garage	any size	allow max of 40% of total vehicle spaces for car share parking

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DEPARTMENT OF CITY PLANNING**



## **Photo Credits**

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Slide 3: courtesy of City CarShare

Slide 5: courtesy of the Mint Organization

Slide 7: courtesy of Connect by Hertz

Slide 13: courtesy of City CarShare