

Car-sharing

SMART SOLUTION 12: SMART MOBILITY SOLUTIONS



Figure 1: Car-sharing e-charging station

SUSTAINABLE
URBAN
MOBILITY



- This solution will reduce carbon emissions and improve air quality
- Car sharing stations reduce the need for private car ownership
- Travellers will be able to use bus, trams, bicycles and car-sharing vehicles with their normal season ticket

Cologne

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What is the solution?

Eco-mobility has increasingly become a component of transport policy and traffic planning of German towns. "Eco-mobility" refers to environmentally-friendly means of transportation: non-motorized carriers of traffic (pedestrian and public or private bicycles), public means of transportation (road, coach and taxis), as well as car-sharing and car-pooling centre.

The aim of eco-mobility is to enable road users to travel their routes using the environmentally-friendly transport network and to rely less on their own car.

How does it work?

A car-sharing service will be set up with a range of different vehicles to be able to cater for a variety of transport requirements in different situations. To

completely be able not owning your own car it is necessary that car pools offer this choice of vehicle. An electric vehicle might be suitable for shorter trips in the city but when travelling longer distances with a big family an electric vehicle might not fit the needs and it is therefore important to offer alternatives. This offer will be put together by Cambio.

Users of public transport should have the possibility to use bus, tram (light-rail), bicycles and passenger cars with one ticket. Cambio and KVB have developed a so called "Mobilitätskarte" (Mobility-ticket), an enhancement of the already existing subscription ticket. With this "Mobilitätskarte" travellers are able to use bus, trams, bicycles and carsharing-cars with their normal season ticket.



Figure 2: e-Vehicle and Cambio car-sharing hub

Integration with other smart solutions

Car sharing stations are integrated into the mobility stations of Cologne (Measure 12.3). Here, the customer finds a range of additional transport options, such as trams, trains, buses, taxis, (e-)bike-sharing and parking lots with online management of parking spaces (see Factsheet on Mobility Station).

Expected Impacts

The Car sharing stations are expected to lead to a 55–60% reduction in CO₂ emissions.

Other impacts include:

- less traffic problems, less congestion
- less costs for general maintenance street work
- less pollution, less noise
- more "space" in the street
- no need of own cars, bicycles or vehicle fleets

Potential for replication

Car-sharing can be replicated easily in other cities. Cambio is already used in Brussels as part of a similar scheme. Integrated ticketing options can also be replicated in other cities.