



User Guide

Hard-disc navigation and Navigation Services

Operating instructions for the navigation system
MBUX (NTG7)

Version 5.00 (Stand 08.2024) – MxD/MP

Mercedes-Benz



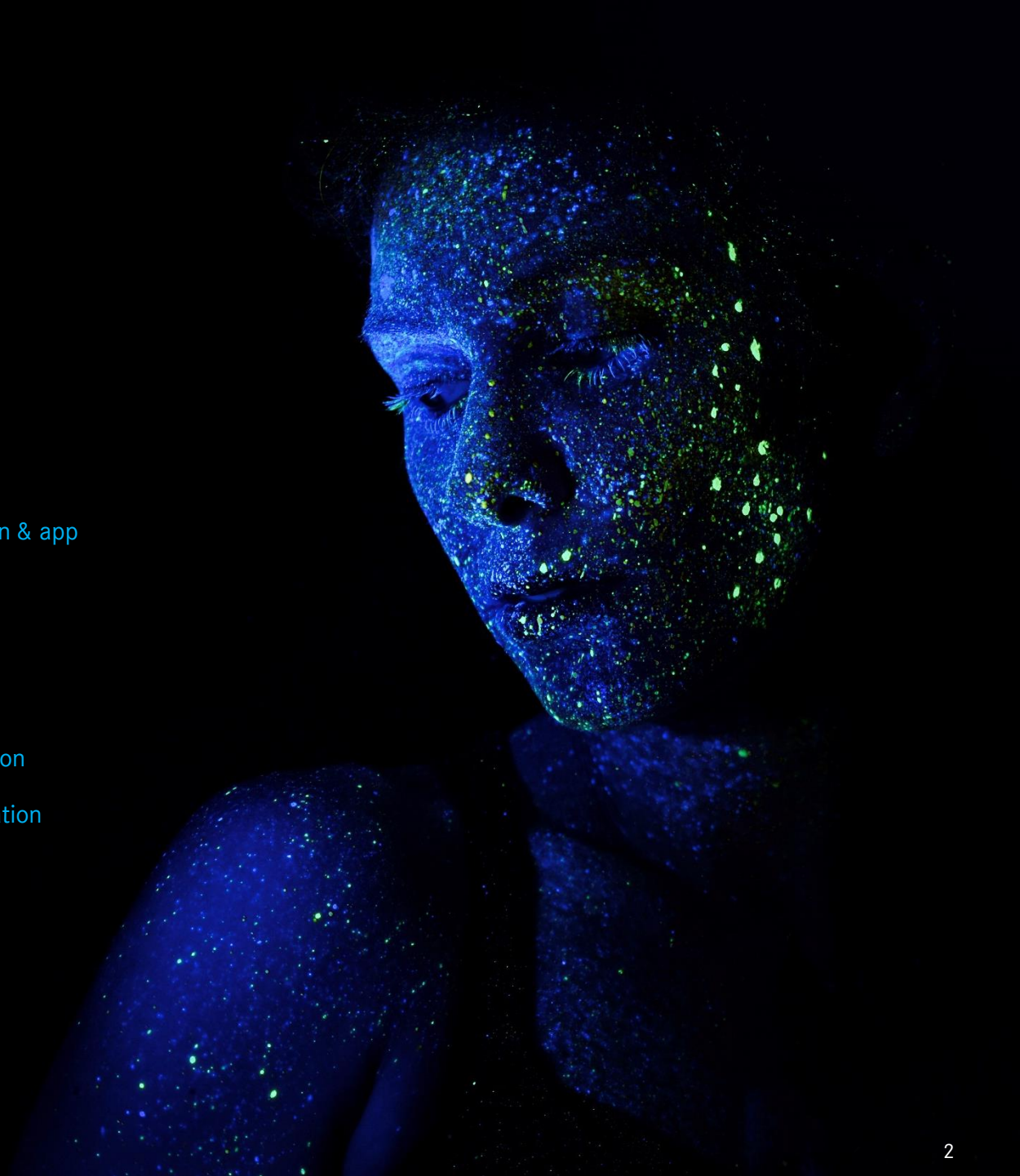
Content.

This document serves to display operating instructions for hard disc navigation and navigation services and to offer assistance.

The navigation services are exclusively available for markets with Digital Extras and only in certain Mercedes-Benz models. For more information, please refer to the product world of [Mercedes-Benz](#).

Topics:

- 01 – [Overview of highlights](#)
- 02 – [Mercedes-Benz App: Service activation](#)
- 03 – [Equipment: Hard-disc navigation](#)
- 04 – [Navigation service: Parking for navigation & app](#)
- 05 – [Navigation service: Weather](#)
- 06 – [Navigation service: Local search](#)
- 07 – [Navigation service: Online map update](#)
- 08 – [Navigation service: Live Traffic Information](#)
- 09 – [Navigation service: Car-to-X Communication](#)



Overview of highlights



Highlights: Hard disc navigation & navigation services.



Hard-disc navigation

- Destination entry: Via voice control, MBUX Media display and touchpad.*
- Representation: 3D map displays with search for places of interest.
- Representation in: MBUX Media display, driver display, head-up display*, traffic light view* and augmented reality*.
- Send2Car: Send destination from smartphone to vehicle.
- Networking with: Route-based speed adaptation* and Mercedes-Benz app.

*Provided that the corresponding equipment is available.



Navigation services

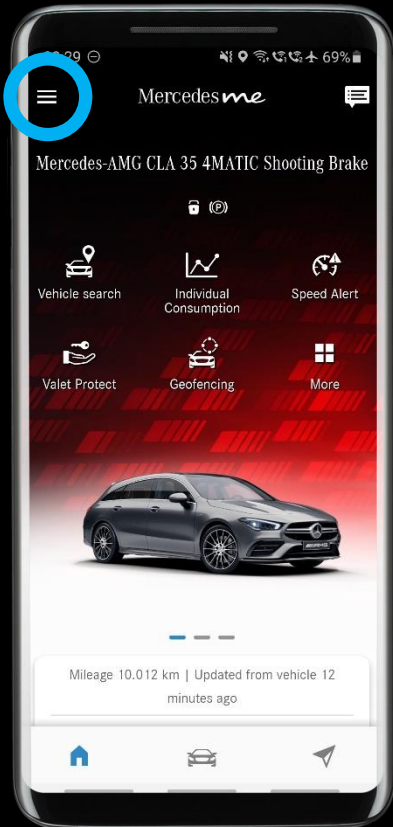
- Online Map Update: Automatic updating of map data.
- Live Traffic Information: Route guidance with real-time traffic data.
- Car-to-X communication: Early warning of danger spots.
- Parking for navigation: Extended parking information and functionalities.
- Weather: Current weather situation on the map.
- Weather (Online UI): Weather information and forecasts.
- Local search: Navigation to POIs/sights.

Mercedes-Benz service activation

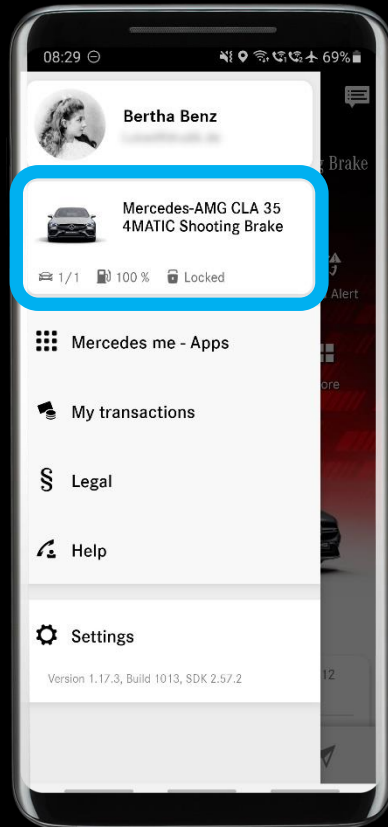


Mercedes-Benz app: Service activation.

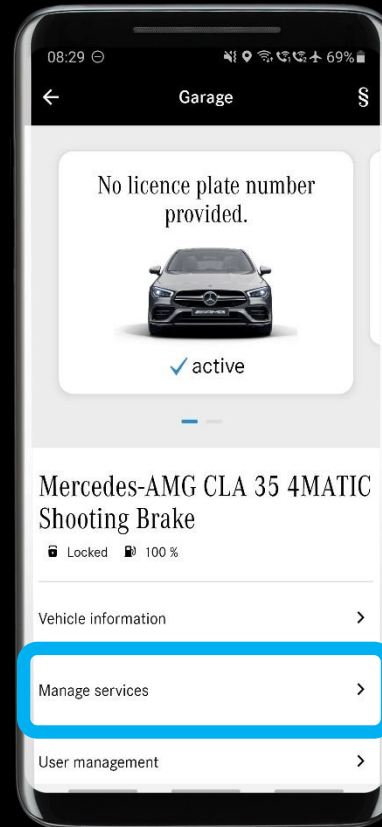
1. Open menu.



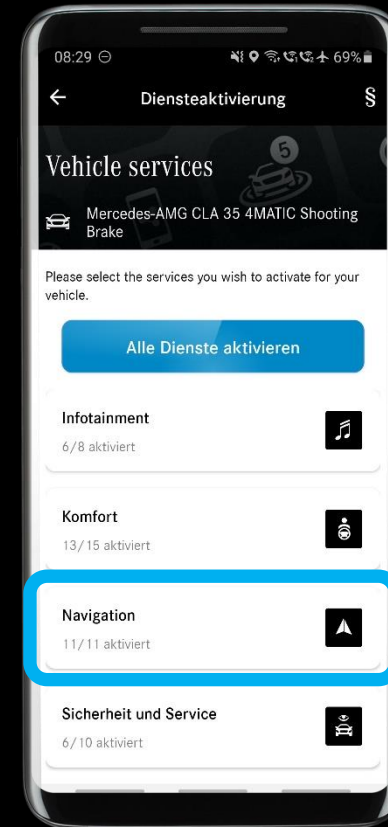
2. Select vehicle.



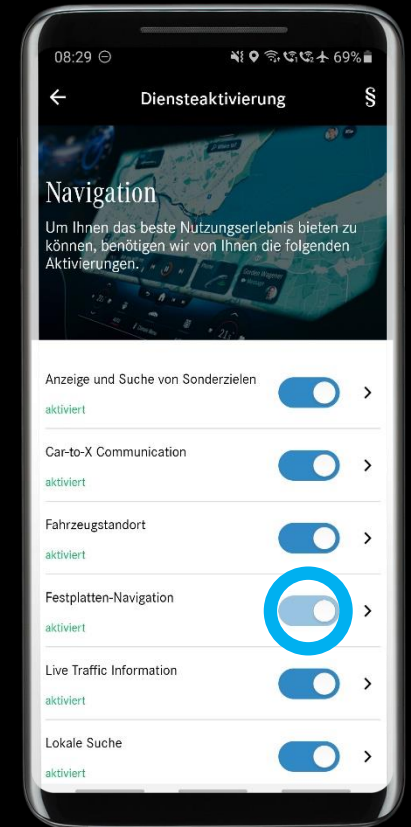
3. Manage services.



4. Navigation.



5. Activate service.



Hard-disc navigation



Equipment: **Hard-disc navigation.**



CHAPTER CONTENTS

- Function overview.
- User interface.
- Logic of intermediate destinations.
- Networking.
- Send2Car.
- Parking for app.

Required [service activation](#) in Mercedes-Benz App:

- Navigation:
- Hard-disc navigation.
 - Display and search of POIs.
 - Parking for app.



Function overview: Hard-disc navigation.



Useful voice commands

Hey Mercedes ...

- Bring me home.
- Go to work.
- Navigate to <street, house number> in <location>.
- Set <address> as intermediate destination.
- Delete the intermediate destination.
- Show me parking spaces.
- Is <restaurant/gas station> on the route?



MBUX main functions

Main functions in MBUX:

- Route guidance.
- Intermediate destinations.
- Avoid options.
- Alternative routes.
- Simple parking space search.
- Satellite and 3D map display.
- Search for: Gas stations, charging stations, points of interest, ...



Main functions of the Mercedes-Benz App

Main functions in the Mercedes-Benz App:

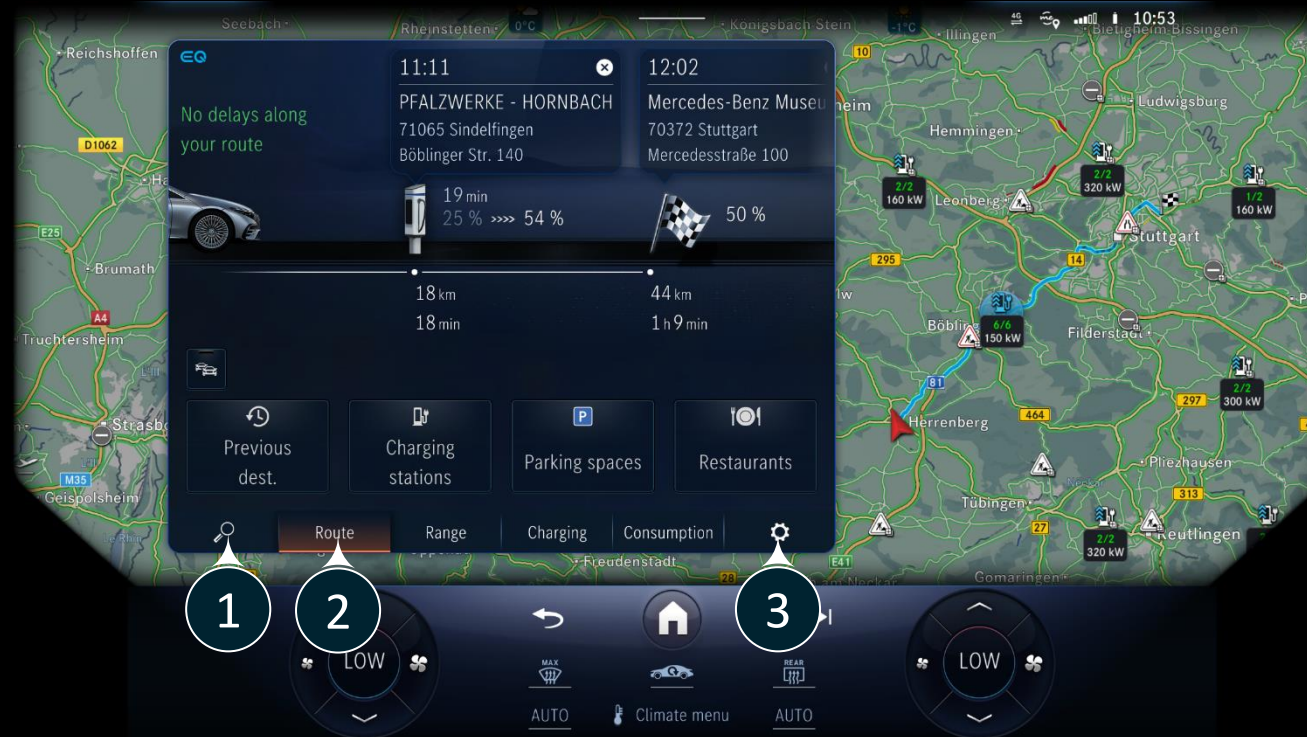
- Route planning.
- Parking space search.
- Send destinations/route to vehicle (Send2Car).



User interface: Hard-disc navigation.

1 Address entry

Entry of destination address for route guidance.



2 Route overview

Route overview and messages.

3 Settings

Settings for functions, representations and routes.



User interface: Hard-disc navigation.



1 Center map
Center the map view to own position.

2 Move map
Move map and set destinations.

3 Gas station search
Shows gas stations/charging stations nearby.

4 Parking space search
Shows parking space nearby.

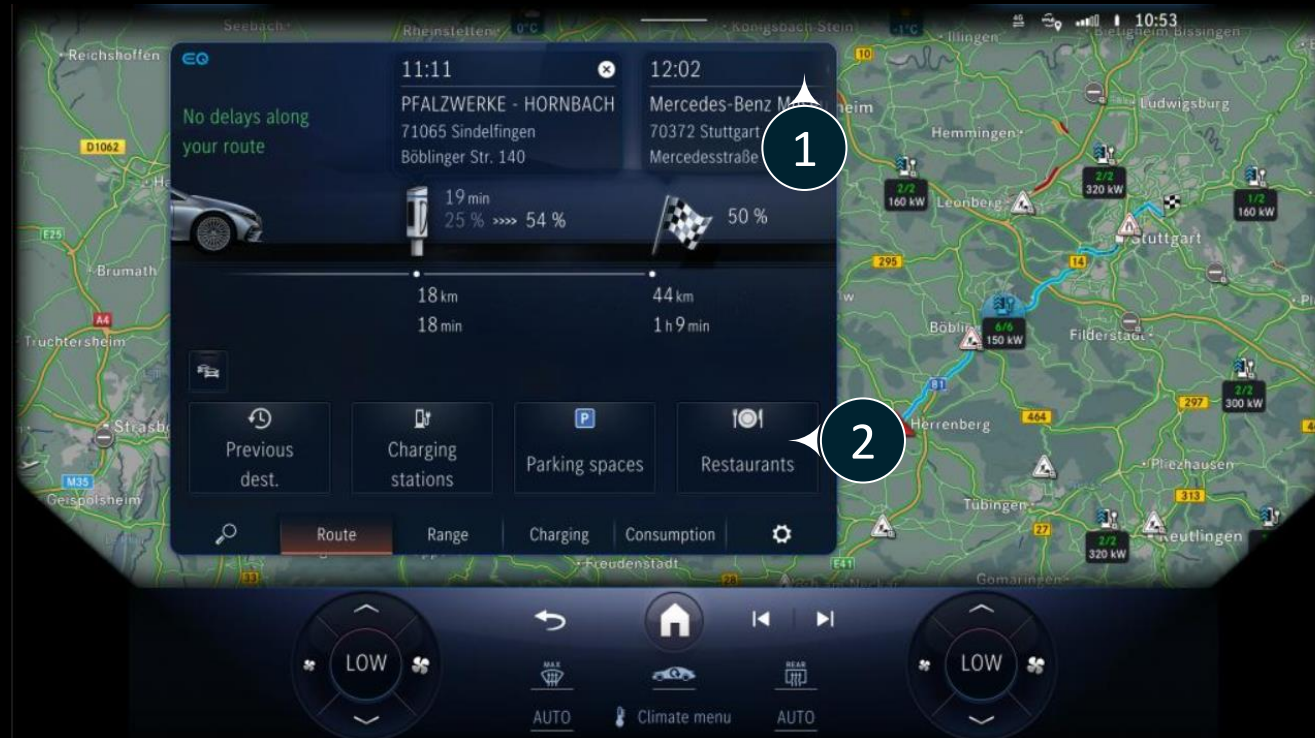
5 Map view
Changes between 2D, 3D and North alignment.



User interface: Hard-disc navigation.

1 End route guidance

Ends route guidance.



2 Restaurant search

Opens menu to search for restaurants on the route.

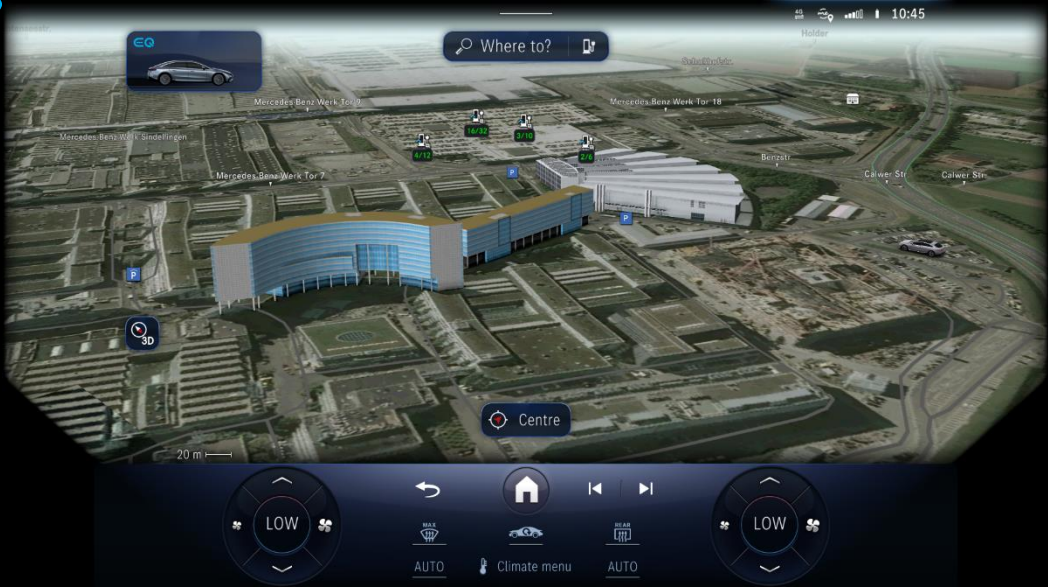


Representations: Hard-disc navigation | 3D map display.

A. Normal zoom level: Only main buildings visible.



B. Higher zoom level: More detailed building representations.





Representations: Hard-disc navigation | Turning.

- 1 Turning point
At this point is the turn.
- 2 Correct lane
Shows the correct lane.



- 3 Driving instructions
Shows the layout, signage at the maneuver point, and the correct lane.



Representations: Hard-disc navigation | Views.

A. Navigation view in head-up display.



B. MBUX Augmented Reality navigation view in MBUX Media display.





Feature: Logic of intermediate destinations.

Logic of intermediate destinations:

If several intermediate destinations are set during route planning or active route guidance, the latest intermediate destination initially refers to the path between your own position and the next destination.

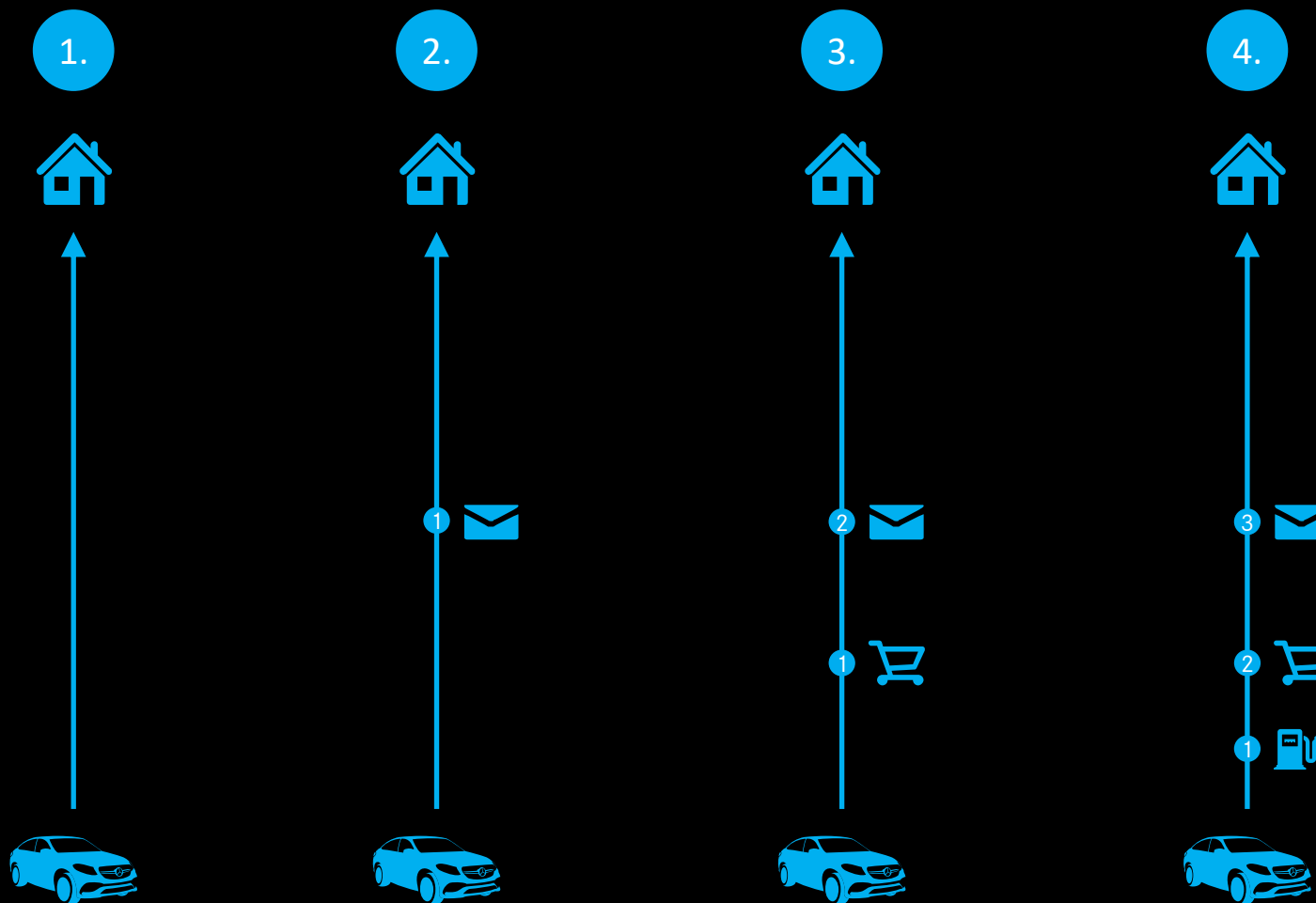
The intermediate destinations are set in the following logic unless the intermediate destination position is adjusted:

Example:

The destinations were added successively, in the following order:

1. Drive home from work.
2. Intermediate destination: Mail.
3. Intermediate destination: Shop.
4. Intermediate destination: Gas station.

Accordingly, the gas station is first approached, then the shop...





Feature: Networking.

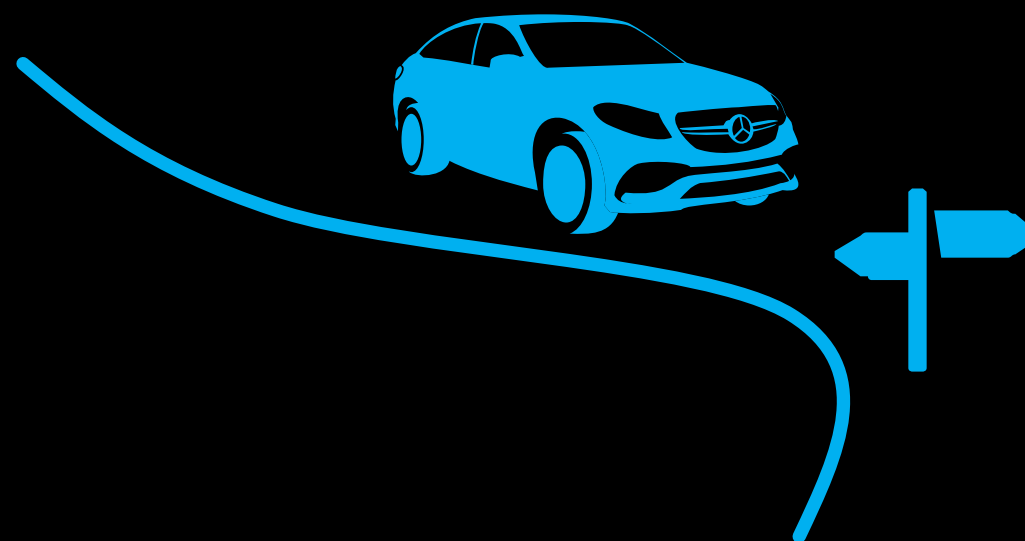
Networking of navigation:

The navigation system is connected to driving assistance systems and the Mercedes-Benz App.

The route-based speed adaptation is informed via navigation that the next departure is to be taken on the freeway/expressway and reduces the vehicle speed.

Even in the case of a traffic jam ("end of traffic jam" route event) detected by the navigation system, the driving speed is reduced.

The Mercedes-Benz App simplifies mobile parking search, route planning and offers the possibility to send destinations directly to the vehicle (Send2Car).





Feature: Send2Car.

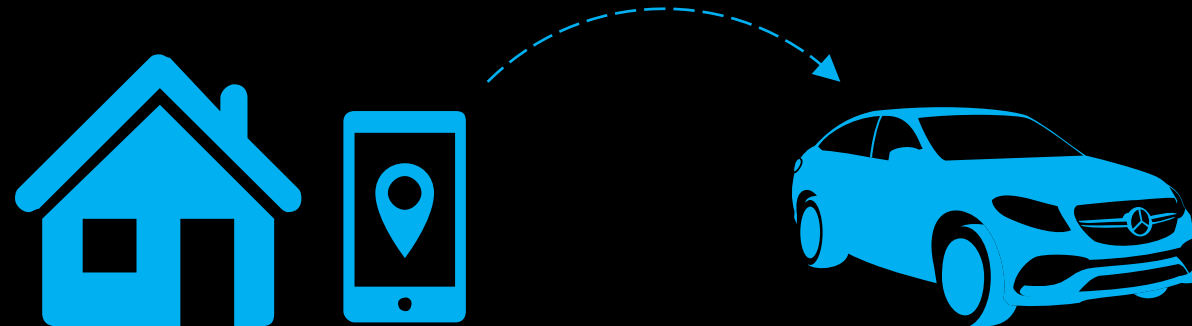
Send2Car:

Send destinations/locations of interest from smartphone to vehicle navigation.

With Send2Car destination addresses can be sent to the vehicle. As soon as the vehicle is started, the destination address appears as a navigation suggestion, which can be started by a single click.

Send2Car allows you to share destinations directly from the navigation view in the Mercedes-Benz App, as well as from other map services such as Apple Maps and Google Maps.

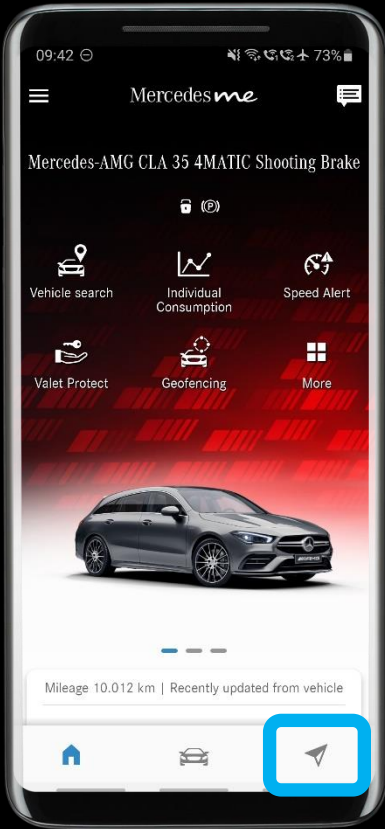
Below are examples from the Mercedes-Benz App and Google Maps.



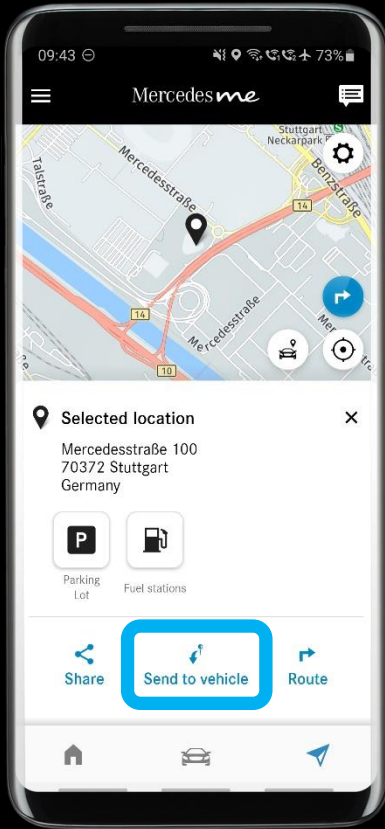


Feature: Send2Car | Mercedes-Benz App.

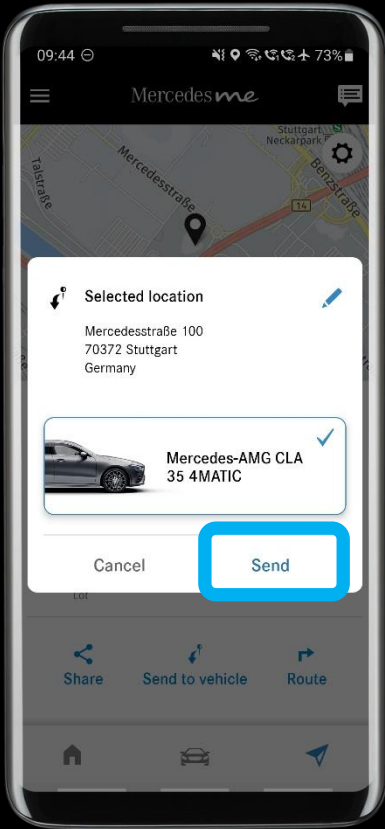
1. Navigation view.



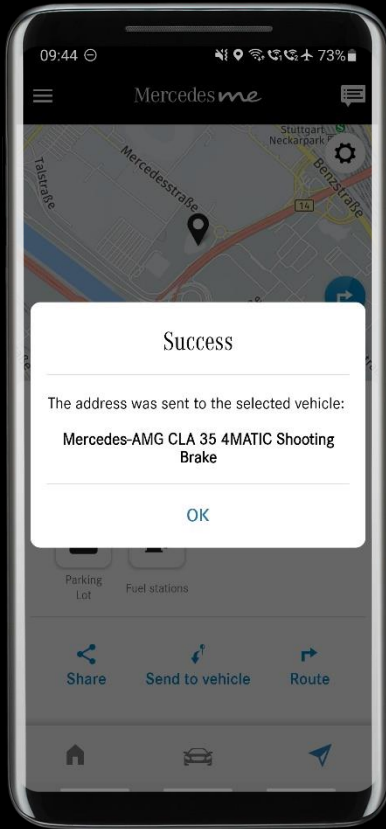
2. Send to vehicle.



3. Send.



4. Success.



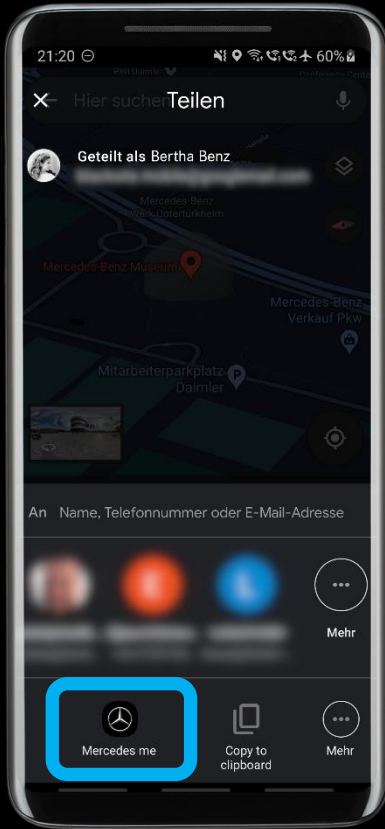


Feature: Send2Car | Google Maps.

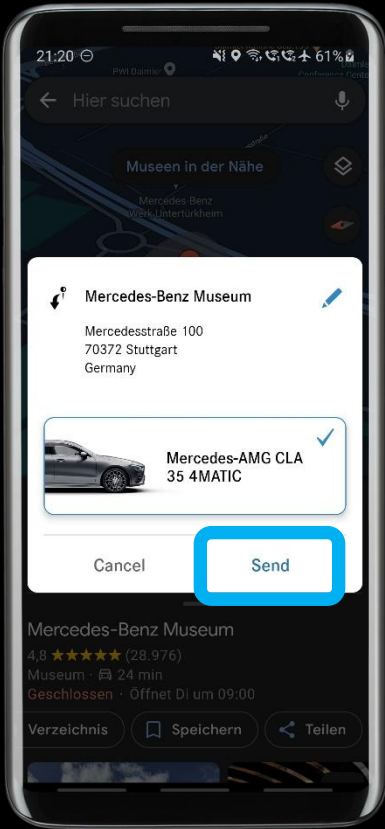
1. Share address.



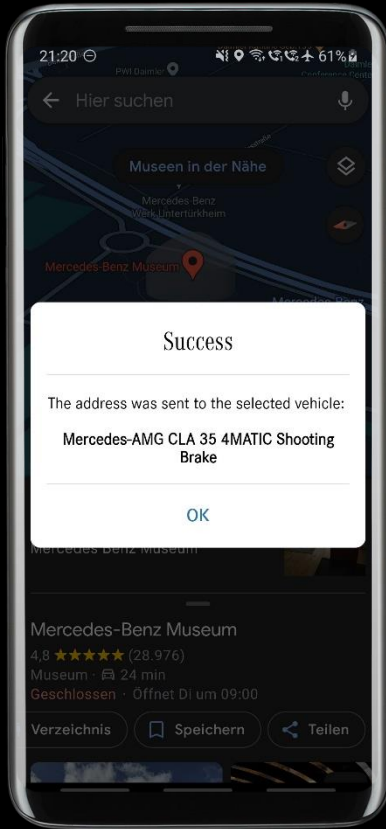
2. Mercedes-Benz App.



3. Send.



4. Success.





Feature: Parking for app.

Parking for app:

Parking for app allows parking space search in the Mercedes-Benz App and offers a similar range of functions as the *Parking for Navigation* service.

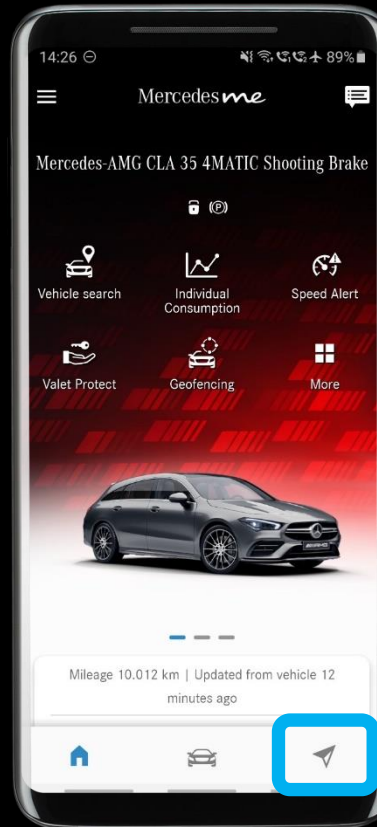
Parking spaces can be discovered with *parking for app*, detailed information on parking spaces can be called up and even a payment can be made.

Note:

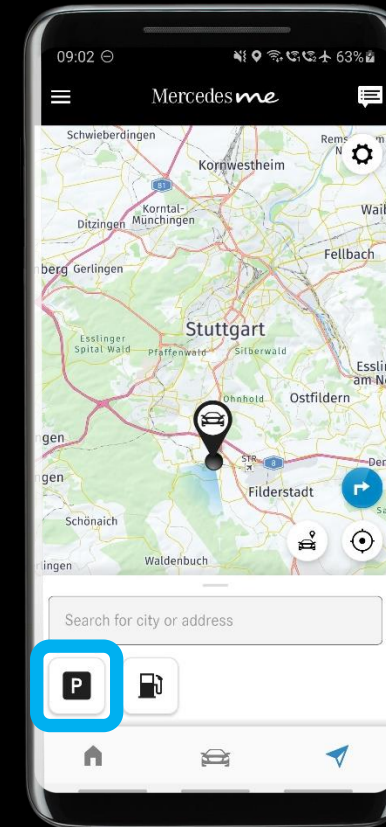
Parking for app is part of hard disc navigation and has been summarized for clarity with the Digital Extra parking for navigation in a separate chapter.

→ Jump to the explanations and presentations of parking for app.

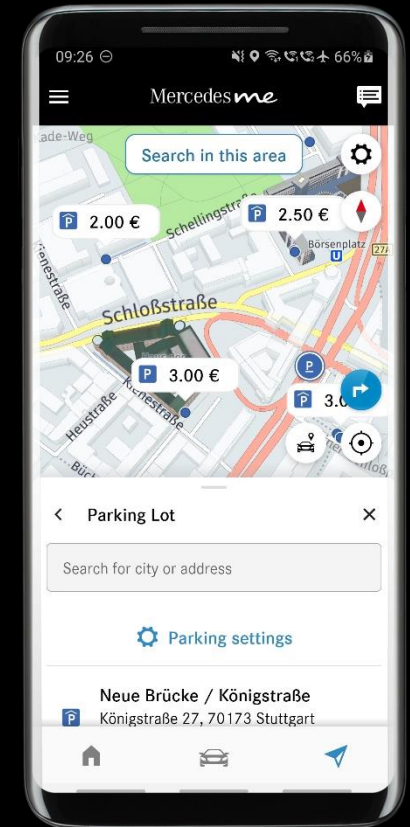
1. Navigation view.



2. Parking.



3. Select parking lot.



Parking



Parking: Parking for navigation & parking for app.



CHAPTER CONTENTS

- Parking.
- Off-Street Parking.
- On-Street Parking.
- Payment service for parking.
- On-Street Payment.

Required [service activation](#) in Mercedes-Benz App:

- Navigation:
- Parking for app.
 - Parking for navigation.



Feature: Parking.

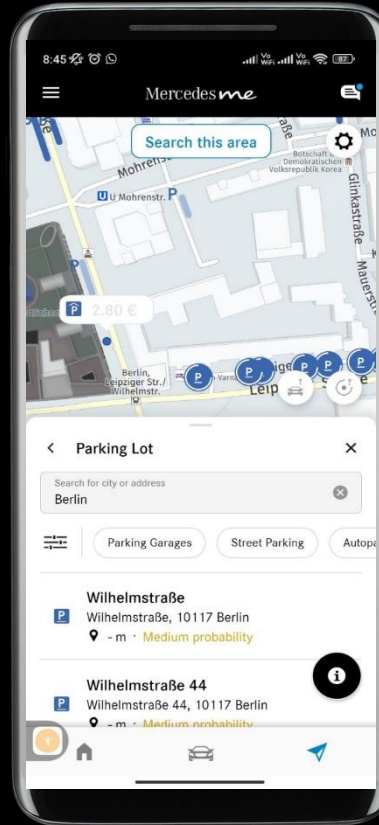
Parking:

The Mercedes-Benz App and the MBUX navigation (in combination with the Parking service for navigation) offer extended options and information on parking spaces.

The scope refers to the finding of parking spaces at the roadside, the extended information on parking spaces and the possibilities of payment of parking spaces.

Package affiliation:

- Parking for app (Usage in the App).
- Parking for navigation (Usage with MBUX navigation).





Feature: Displays | Parking for navigation.



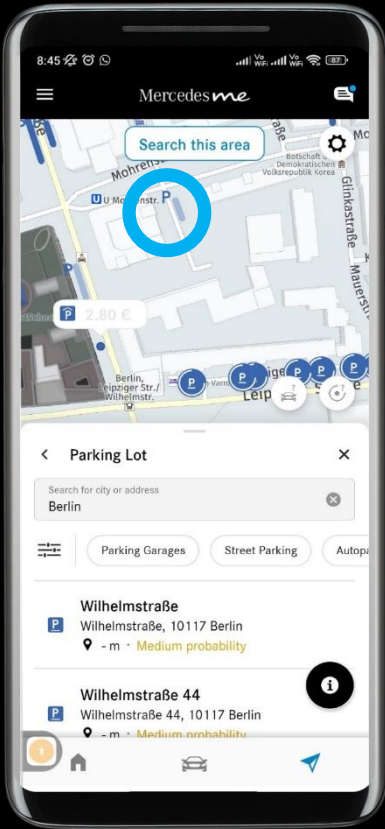
Display of parking information:

- Parking
- Parking with display of occupancy
- Parking at roadside with display of occupancy
- Parking garage
- Parking garage with display of occupancy
- Parking and other entries
(visible at higher zoom level)
- Probability of a free parking spot at the roadside
(visible at higher zoom level)



Feature: Displays | Parking for app.







A. Standard view.



B. Full screen view.
(Click on map)



Display of parking information:

-  Parking (zoom in for more information) 
-  Parking (incl. Price for the first hour, if available)
-  Parking garage
-  Probability of free parking at the roadside (visible at higher zoom level) 



Feature: Off-Street Parking | Parking for navigation.

Off-Street Parking:

Off-Street Parking can be used to call up detailed information on parking lots and parking garages.

This includes the following information:*

- Current occupancy and trend.
- Parking space volume.
- Maximum height.
- Opening hours.
- Price information.
- Payment options.

*If this information is available on the parking lot/parking garage.





Feature: Off-Street Parking | Parking for app.

Off-Street Parking:

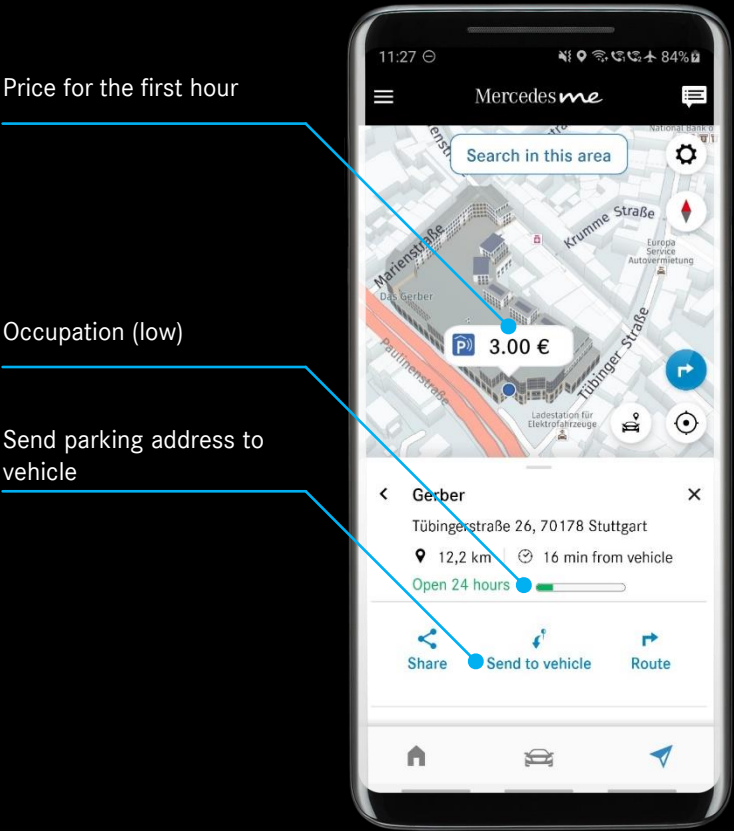
Off-Street Parking can be used to call up detailed information on parking lots and parking garages.

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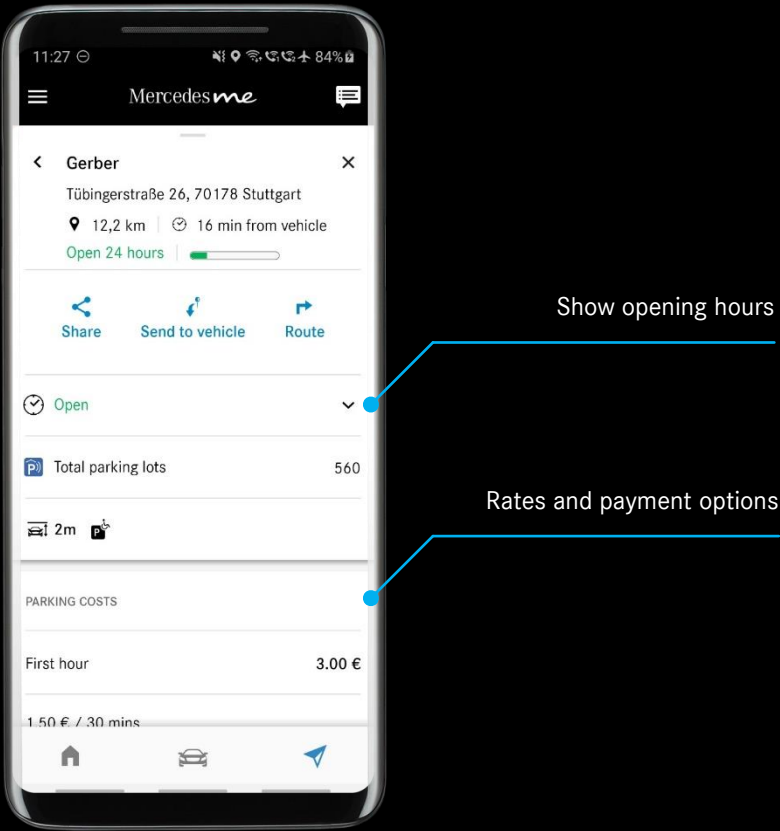
- Current occupancy and trend.
- Parking space volume.
- Maximum height.
- Opening hours.
- Price information.
- Payment options.

*If this information is available on the parking lot/parking garage.

A. Click on parking space.



B. Detailed information.





Feature: On-Street Parking | Parking for navigation.

On-Street Parking:

On-Street Parking can be used to display forecasts of the probability of a free parking space at the roadside.

The probability of a free parking space is shown on the navigation map via the blue lines. These are recorded e.g. up to a certain speed via the sensors of passing Mercedes passenger cars. In this case, garage entrances and parking bans can also be incorrectly detected as parking spaces, therefore the forecasts only form a probability over free parking spaces.

Note:

In order to see the blue lines, zoom in on the map view. 🔍

📍 P Small probability

📍 P High probability






Feature: On-Street Parking | Parking for app.


On-Street Parking:

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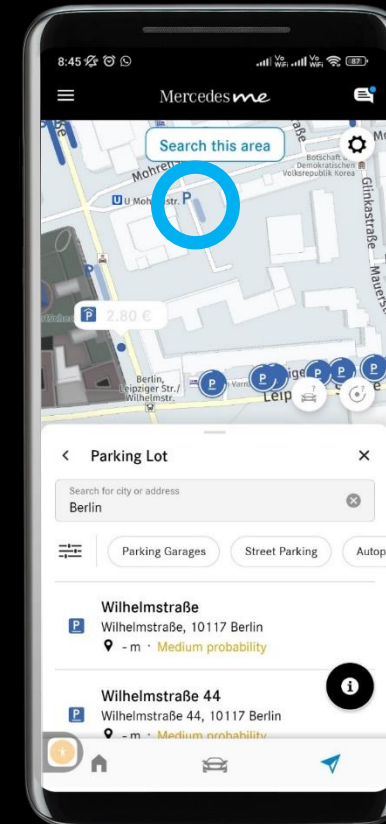
Note:

In order to see the blue lines, zoom in on the map view. 

 P Small probability

 P High probability

Click on parking line.





Feature: Payment service for parking.

Payment service for parking:

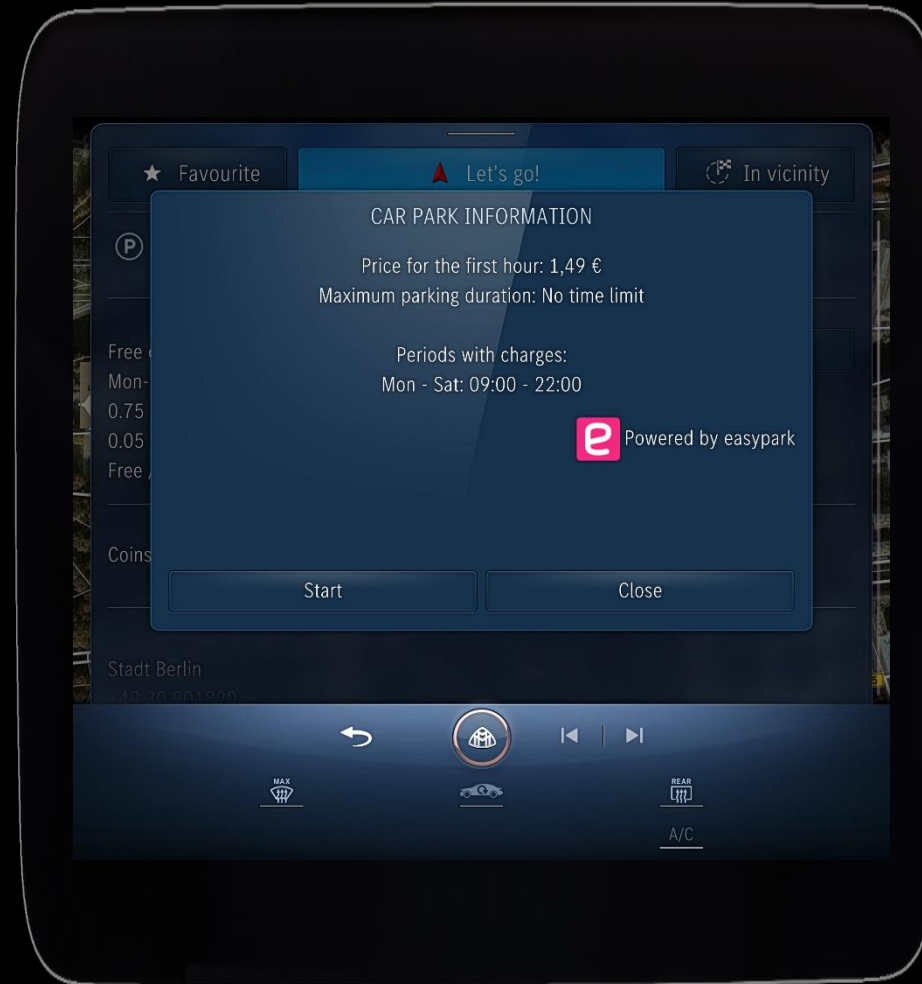
Transactions on supported parking spaces can also be processed digitally from the vehicle via the Mercedes-Benz App and MBUX Navigation.

The scope refers to the payment of parking lots for supported parking spaces, as well as the reservation of parking spaces.

Prerequisite:

The payment service must be set up and a credit card must be stored in the Mercedes-Benz App beforehand. The payment service is currently available in almost all European countries.

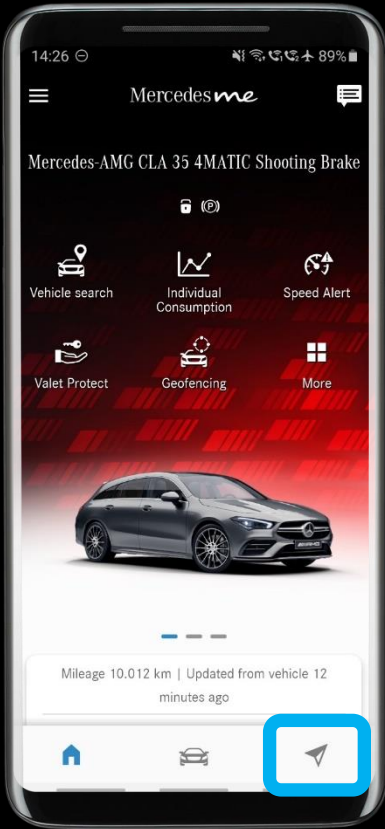
Below is the setup process via the Mercedes-Benz App.



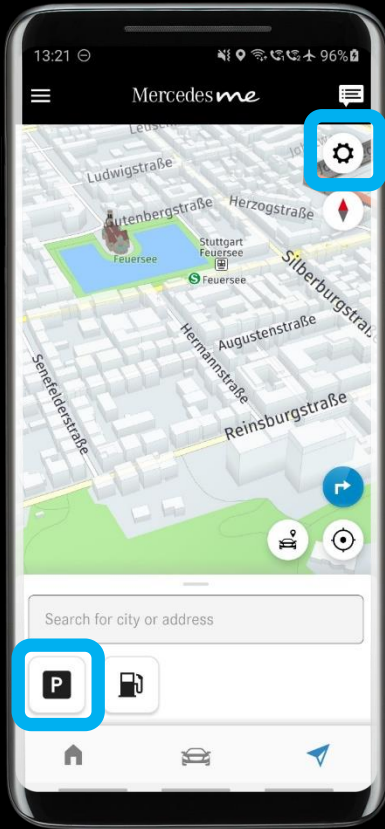


Feature: Payment service for parking | Setup.

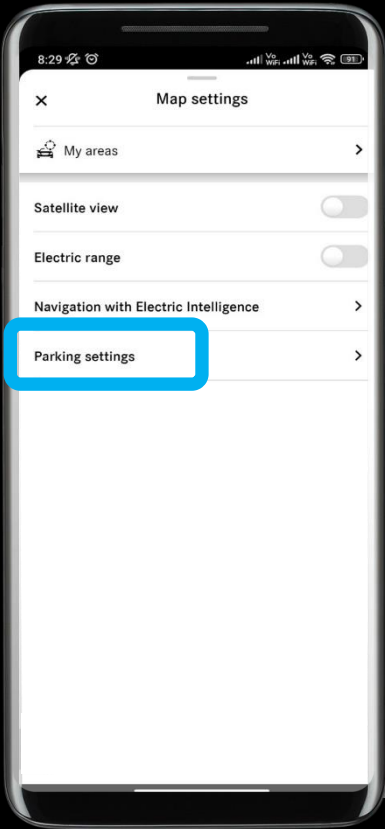
1. Navigation view.



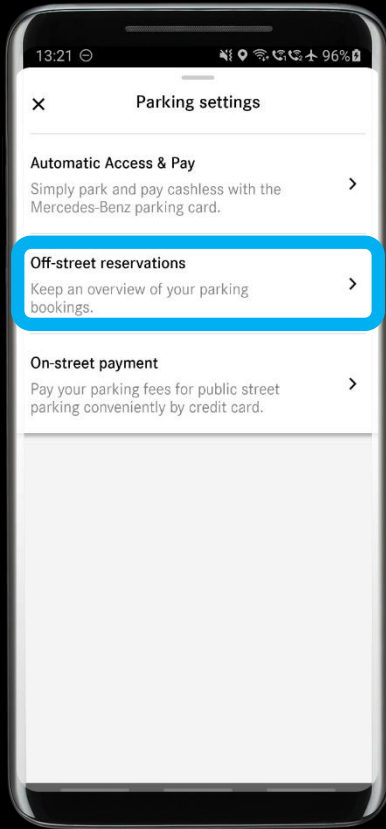
2. Parking.



3. Parking settings.



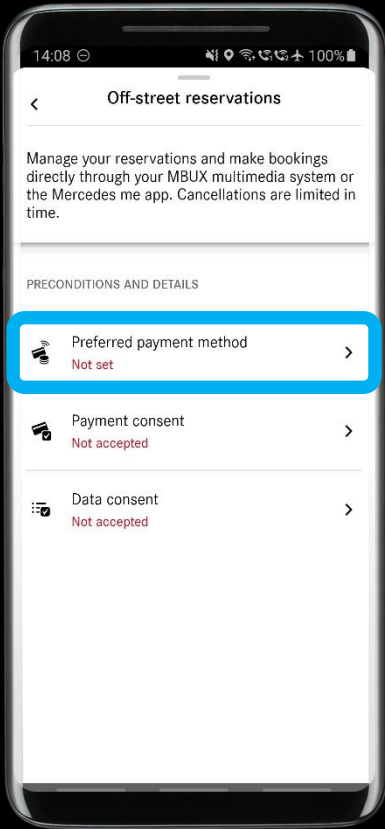
4. Select any service.



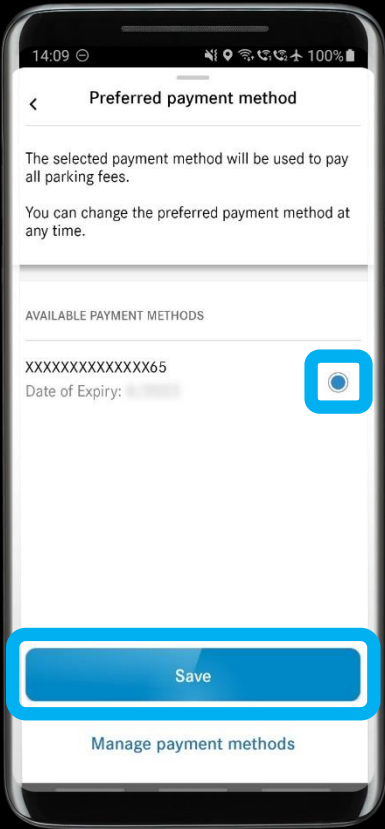


Feature: Payment service for parking | Setup.

5. Preferred payment method.

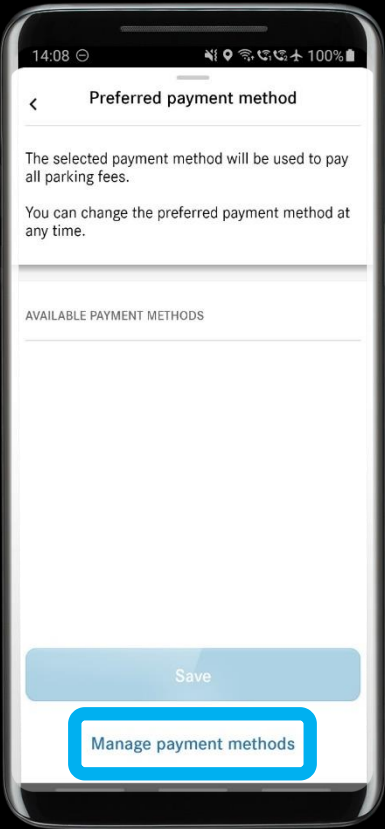


6. Select and save credit card.



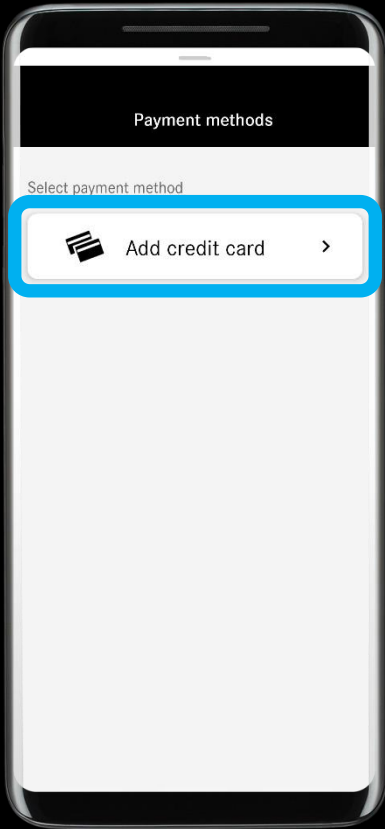
Alternative view:

6a. Manage payment methods.



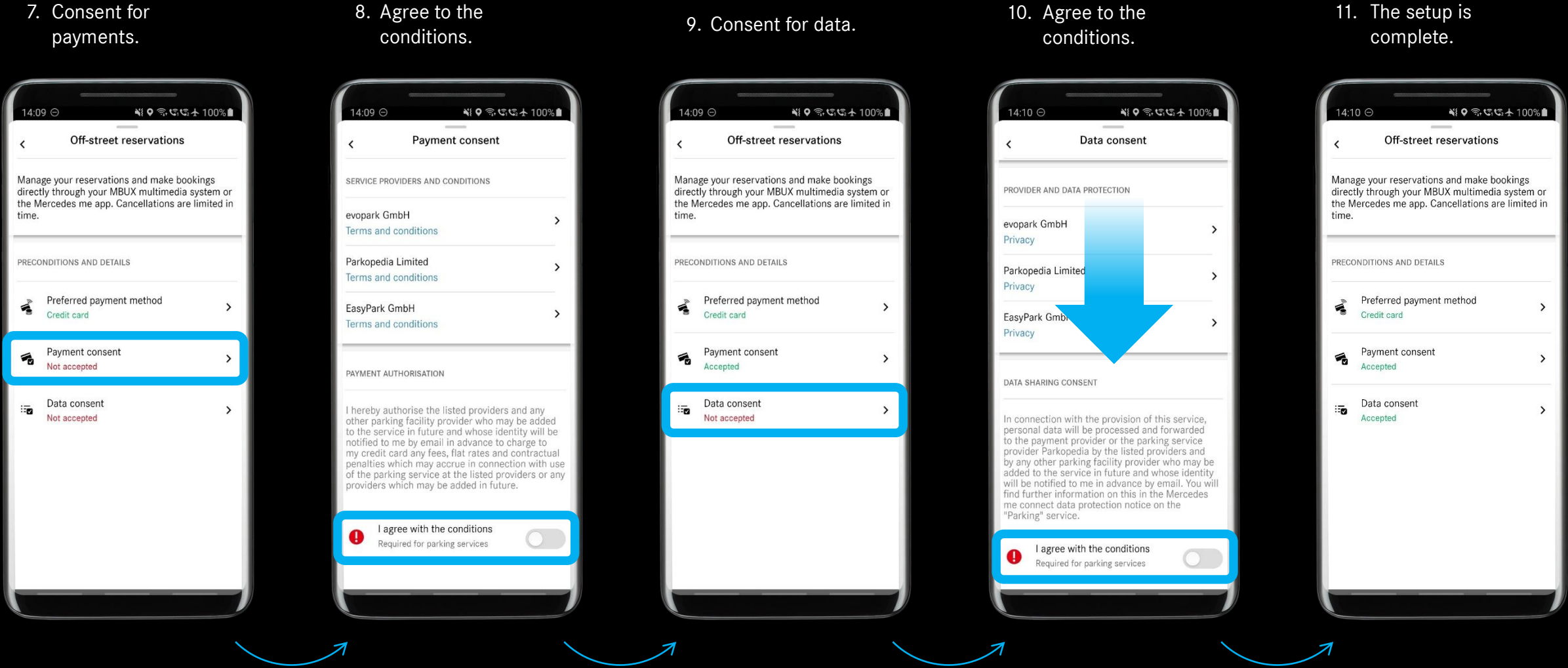
Alternative view:

6b. Add credit card.
(Then continue with step 6)





Feature: Payment service for parking | Setup.





Feature: On-Street Payment.

On-Street Payment:

With *On-Street Payment* participating parking spaces on the roadside can be paid directly from the car, without having to get a ticket at the parking machine.

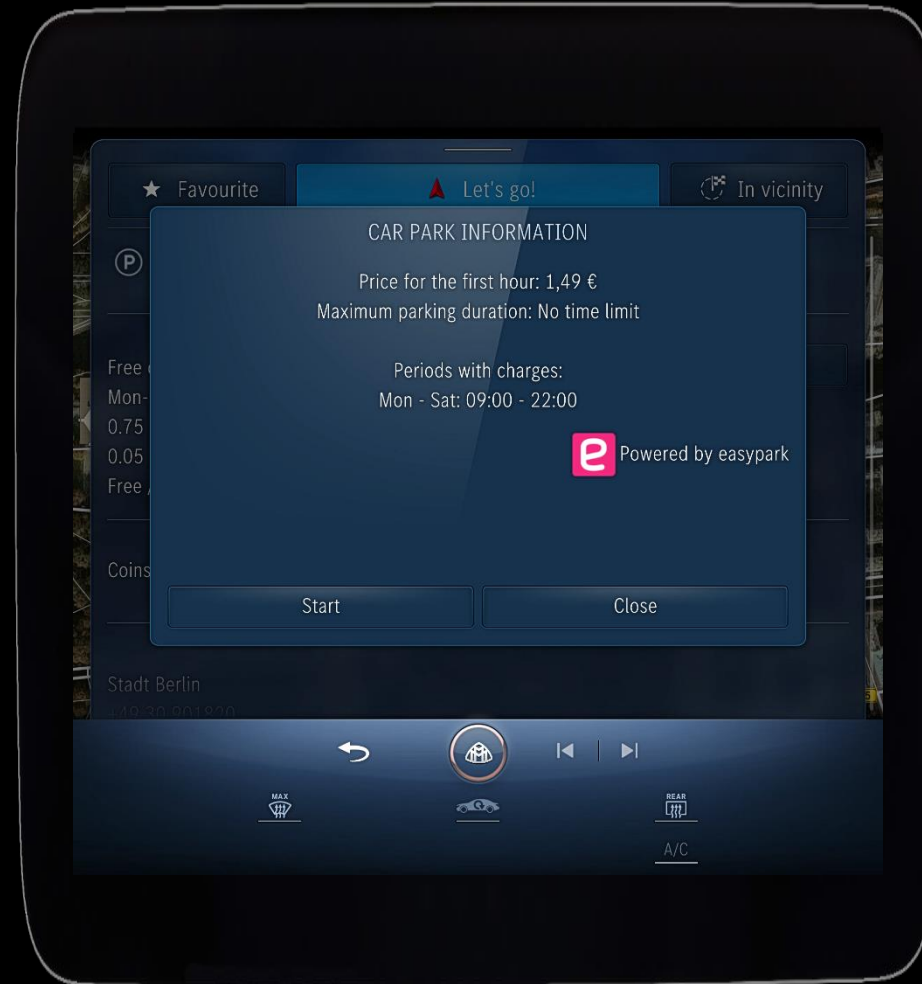
To do this, simply find a parking space and start the parking time directly from the MBUX navigation or Mercedes-Benz App.

When leaving, a notification appears at the start of the vehicle, whether the parking period can be finished, which triggers the payment for the parking time.

Prerequisite:

- Stored license plate number in Mercedes-Benz App.
- Deposited payment method.
- Consent for payments.
- Consent for data.
- In addition printed parking vignette **can** be stored visible in vehicle.

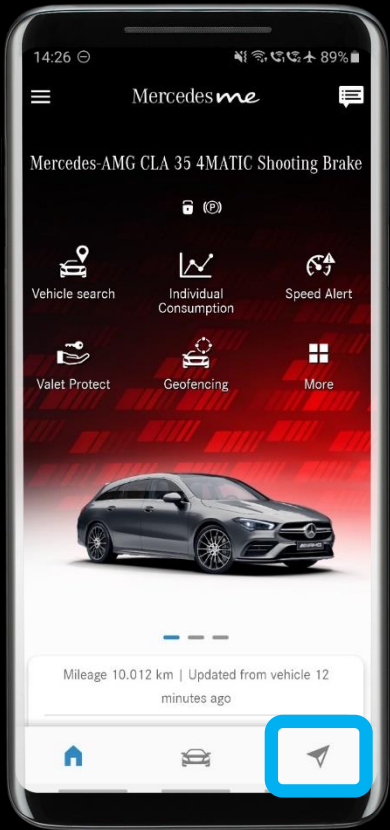
The following is the procedure for On-Street Payment.



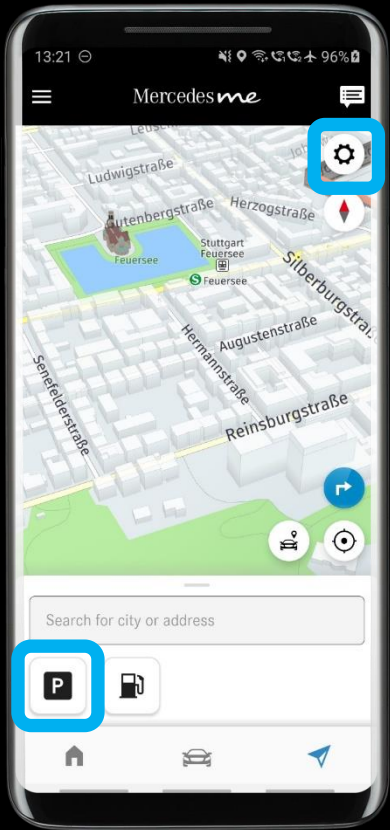


Feature: On-Street Payment | Parking vignette from the Mercedes-Benz App.

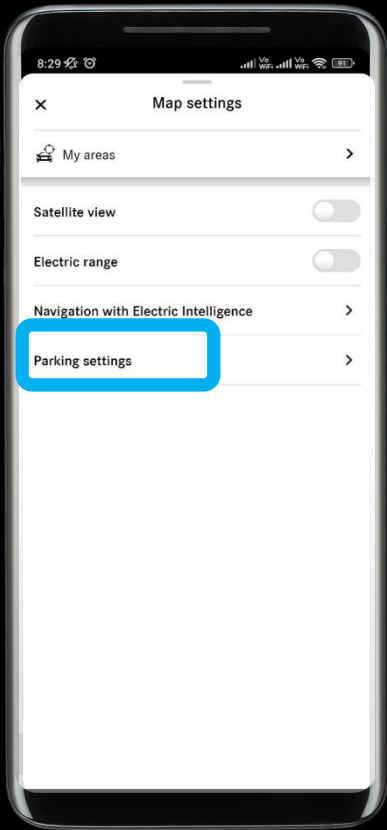
1. Navigation view.



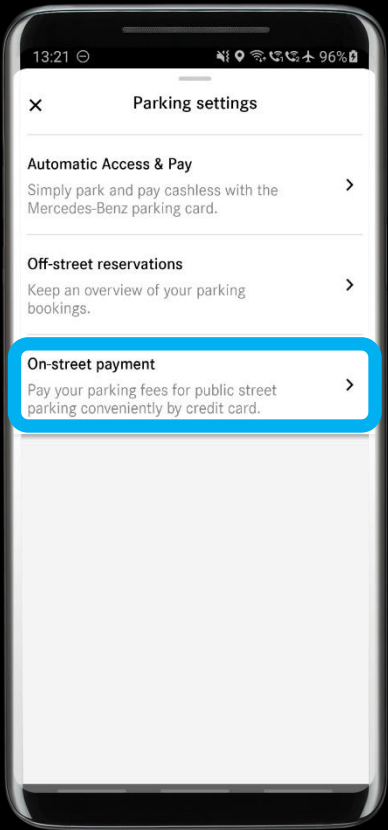
2. Parking.



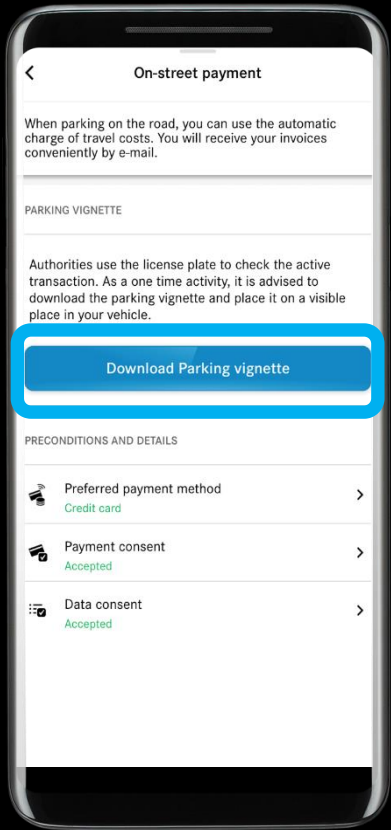
3. Parking settings.



4. On-street payment.



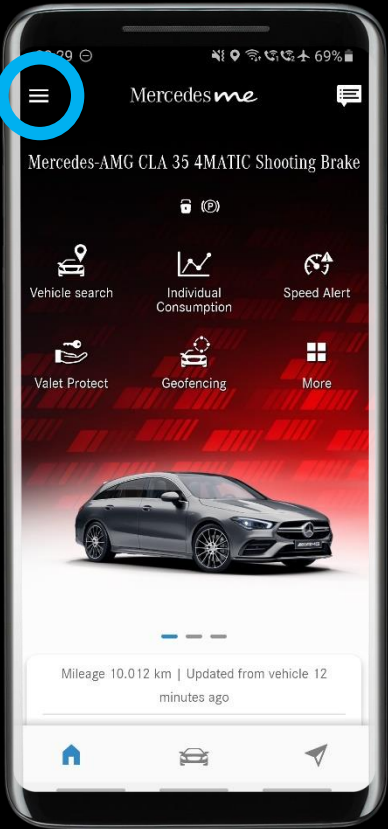
5. Download and print parking sticker.



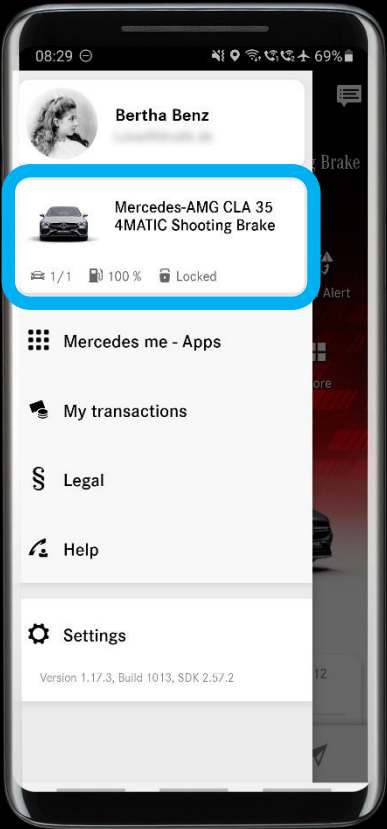


Feature: On-street payment | License plate number in Mercedes-Benz App.

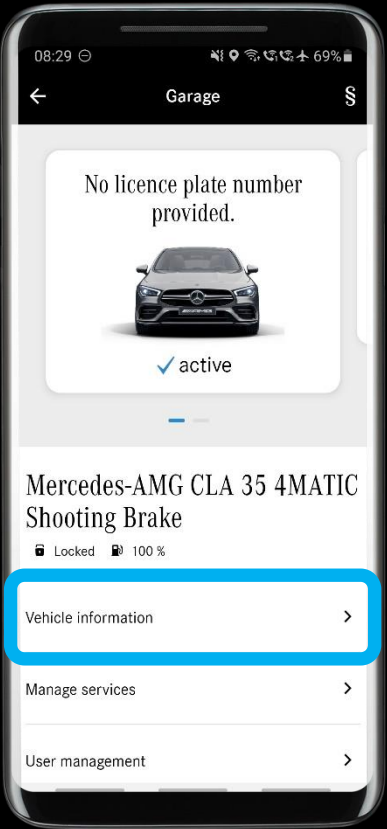
1. Open menu.



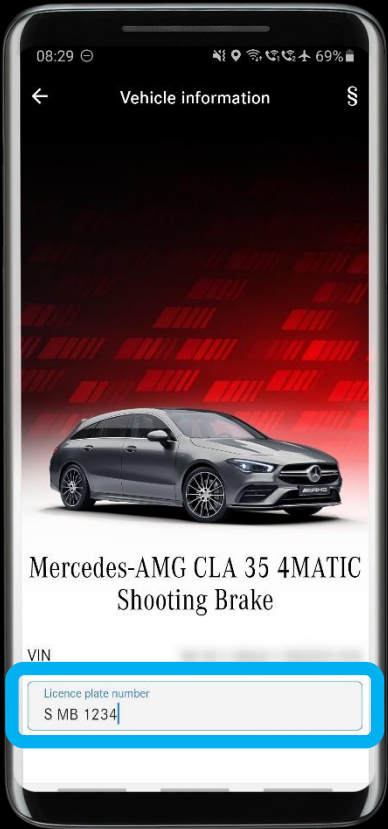
2. Select vehicle.



3. Vehicle information.



4. Enter license plate number.



5. Saved successfully.





Feature: On-Street Payment | Parking for navigation.

1. Find matching parking space.



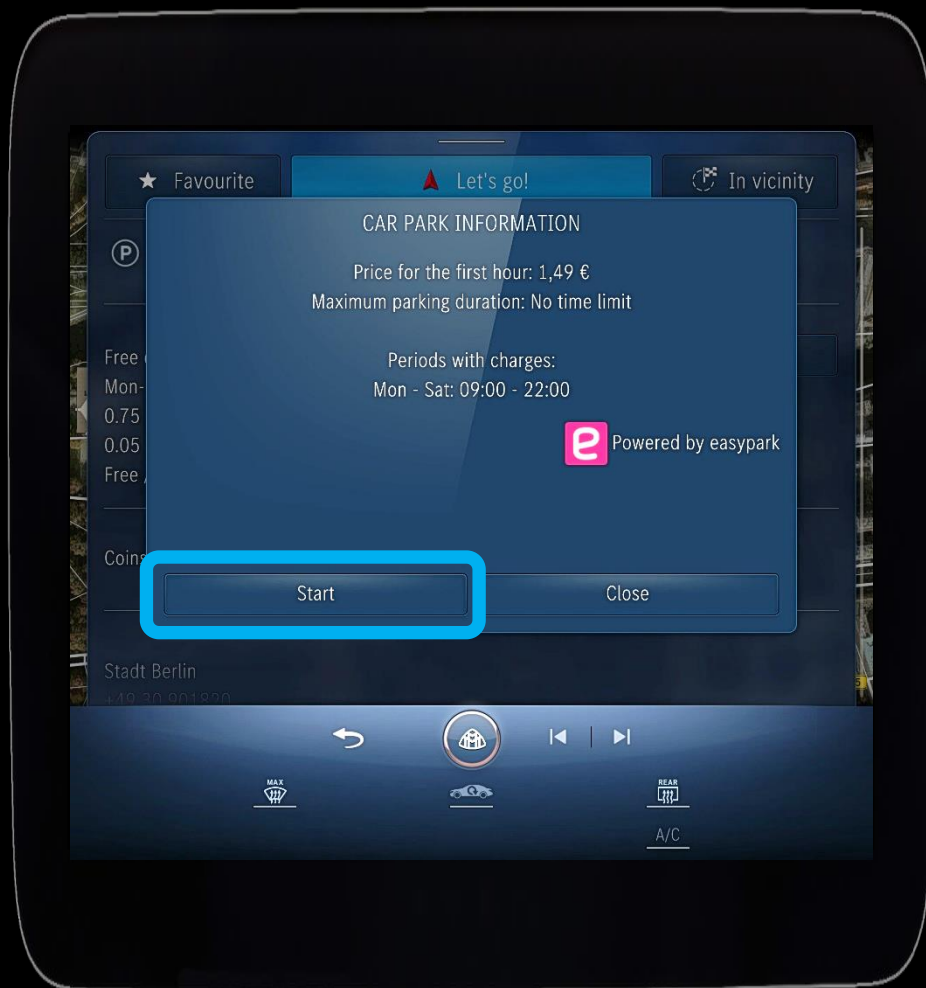
2. Select Pay For Parking Space.



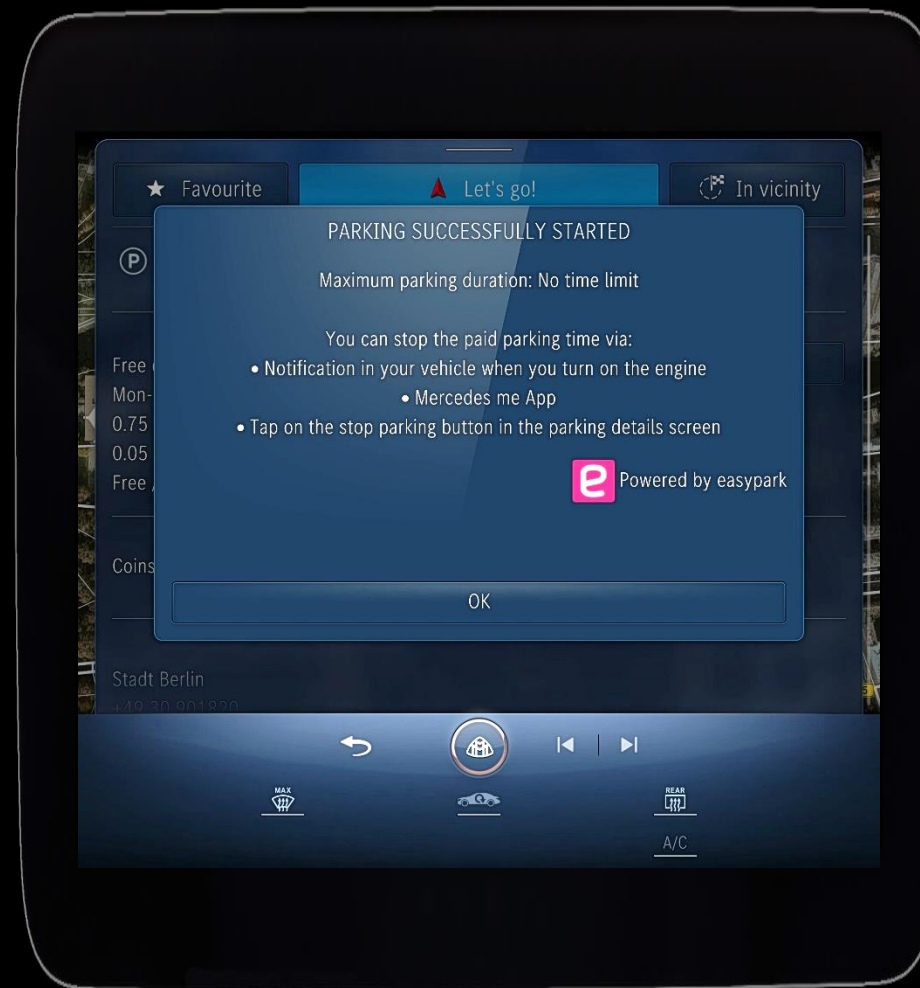


Feature: On-Street Payment | Parking for navigation.

3. Start parking time.



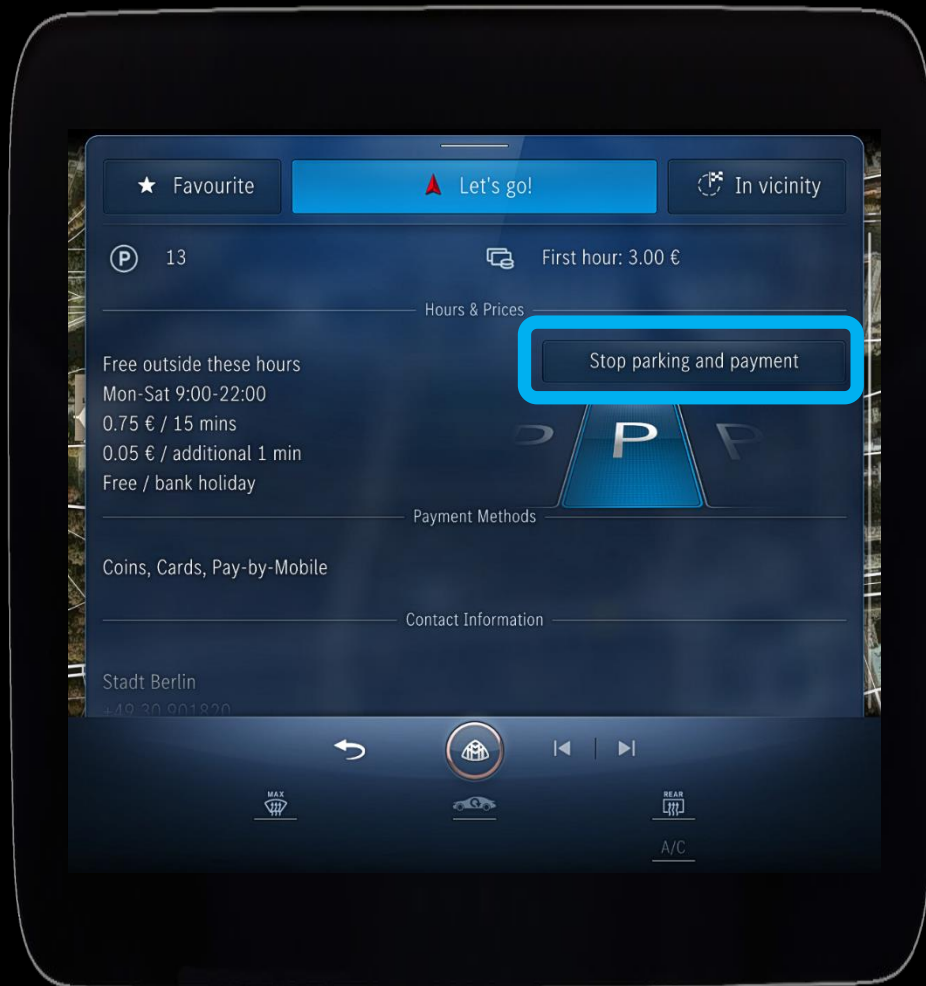
4. Parking time successfully started.





Feature: On-Street Payment | Parking for navigation.

5a. End parking time via stop Softkey.



Alternatively

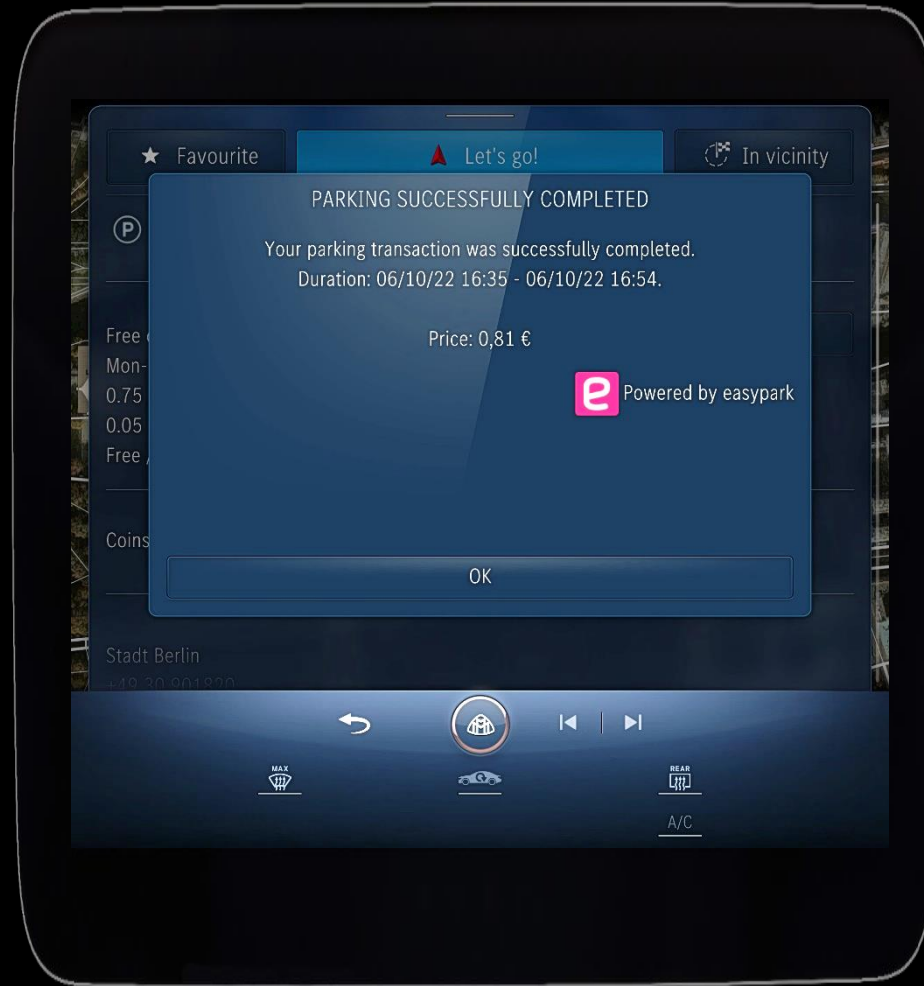
5b. End parking time via notification view.





Feature: On-Street Payment | Parking for navigation.

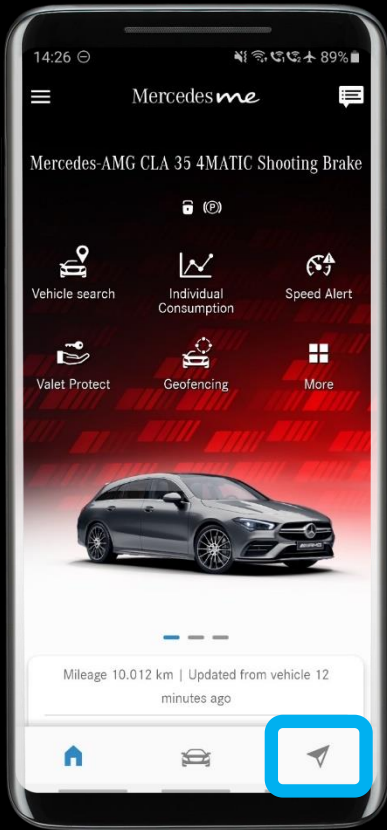
7. Parking successfully completed.





Feature: On-Street Payment | Parking for app.

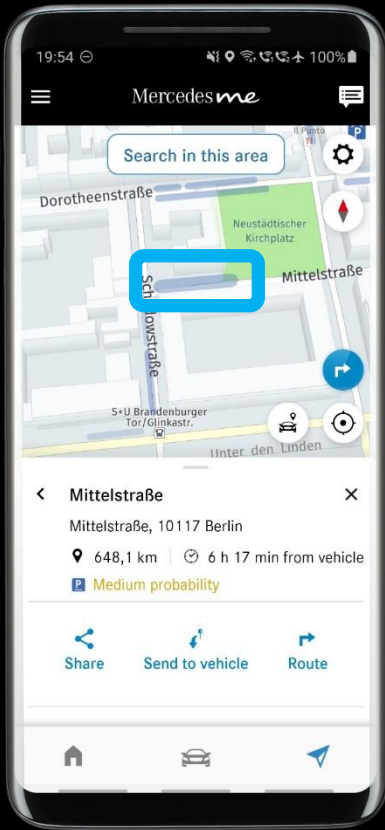
1. Navigation view.



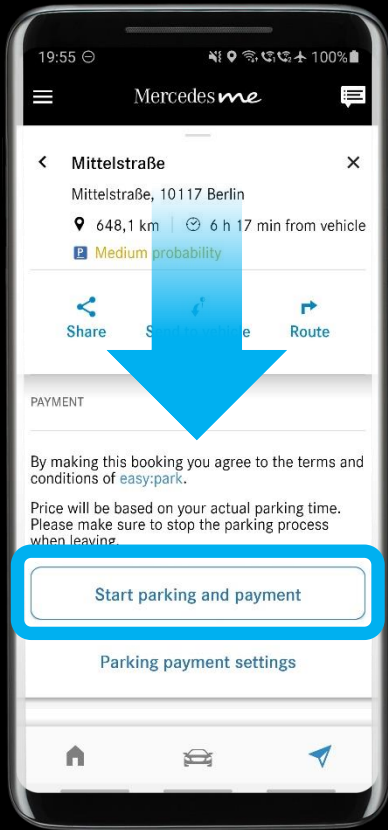
2. Parking.



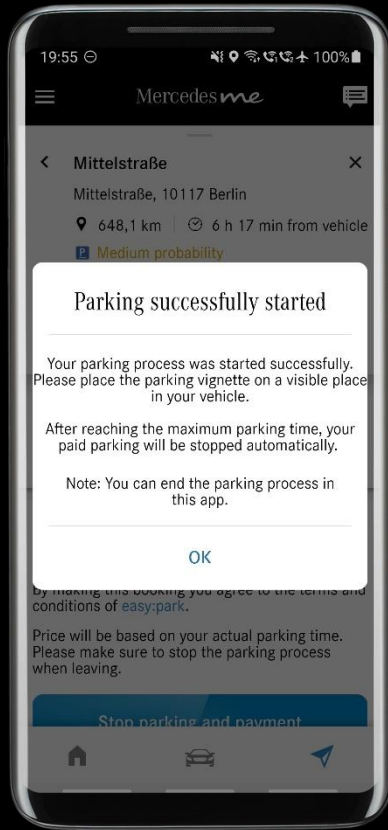
3. Find parking space.



4. Start parking.
(If supported)



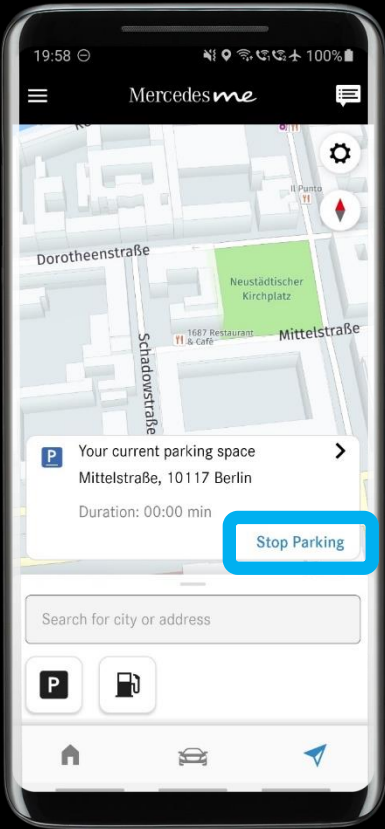
5. Parking successfully
started.





Feature: On-Street Payment | Parking for app.

6. Stop parking via navigation view.



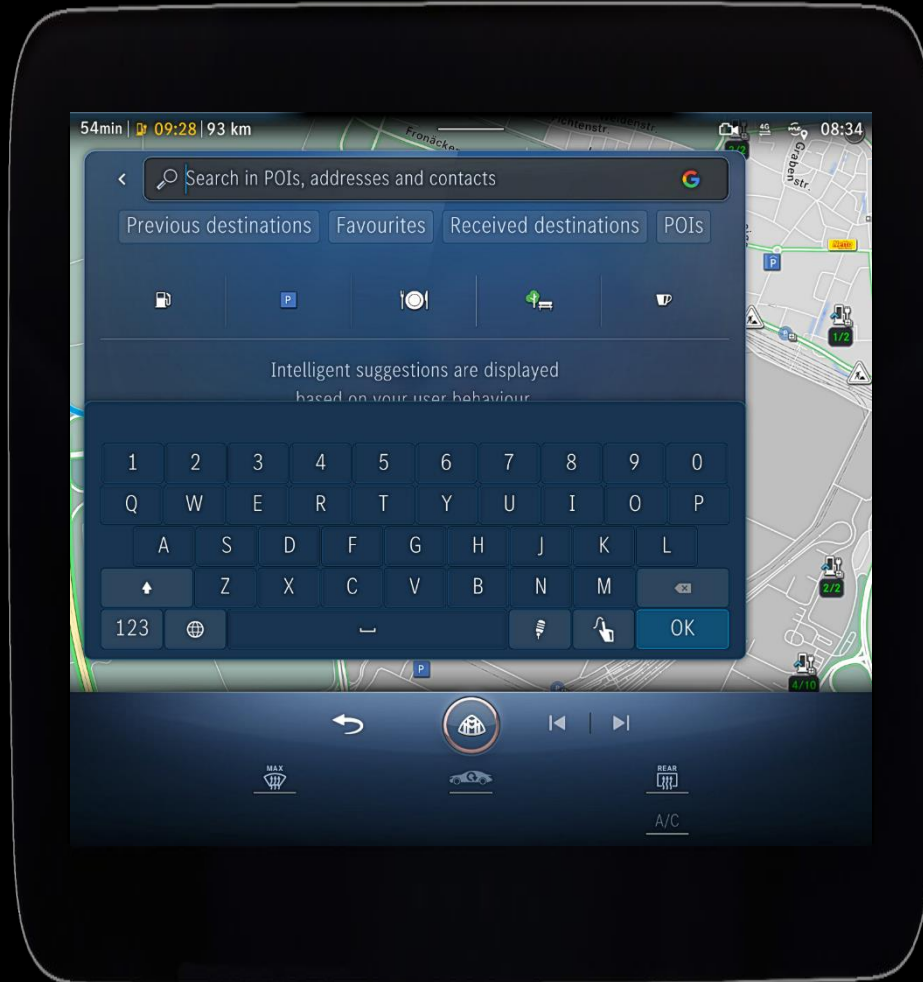
7. Parking stopped successfully.



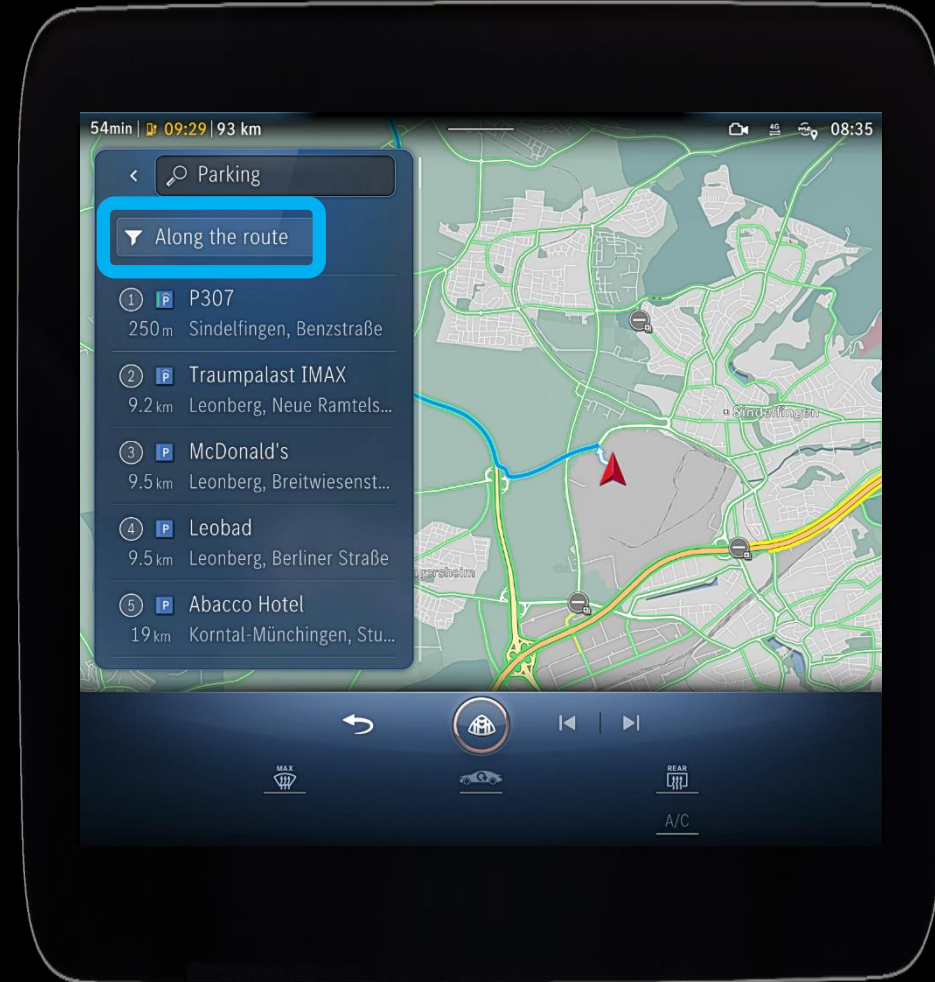


Feature: Parking with Filter.

1. Enter destination address.



2. Click on position filter for desired parking spaces.





Feature: Parking with Filter.

3. Select a position filter.



4. Activate desired parking space filter.



Navigation services



Navigation service: Navigation services.



CHAPTER CONTENTS

- Parking for navigation.
- Weather.
- Weather (Online UI).
- Local search.

Required [service activation](#) in Mercedes-Benz App:

- Navigation:
- Parking for navigation.
 - Weather.
 - Local search.

- Infotainment:
- Weather (Online UI).



Feature: Parking for navigation.

Parking for navigation:

Parking for navigation allows the search for a parking space directly in the navigation map and offers a similar range of functions as *Parking for app*.

Parking spaces can be discovered, detailed information on parking spaces can be called up and even a reservation and payment can be made.

Note:

The Parking service for navigation is part of navigation services and has been combined with Parking for app in a separate chapter.

→ Jump to the explanations and representations of parking for navigation.





Feature: Weather.

Weather:

The Digital Extra *Weather* shows on the map (if far enough zoomed out), where the sun shines, the sky is cloudy or rain falls.

Further information on the weather forecast for the respective location is displayed via voice control or with a click on the respective weather symbol.

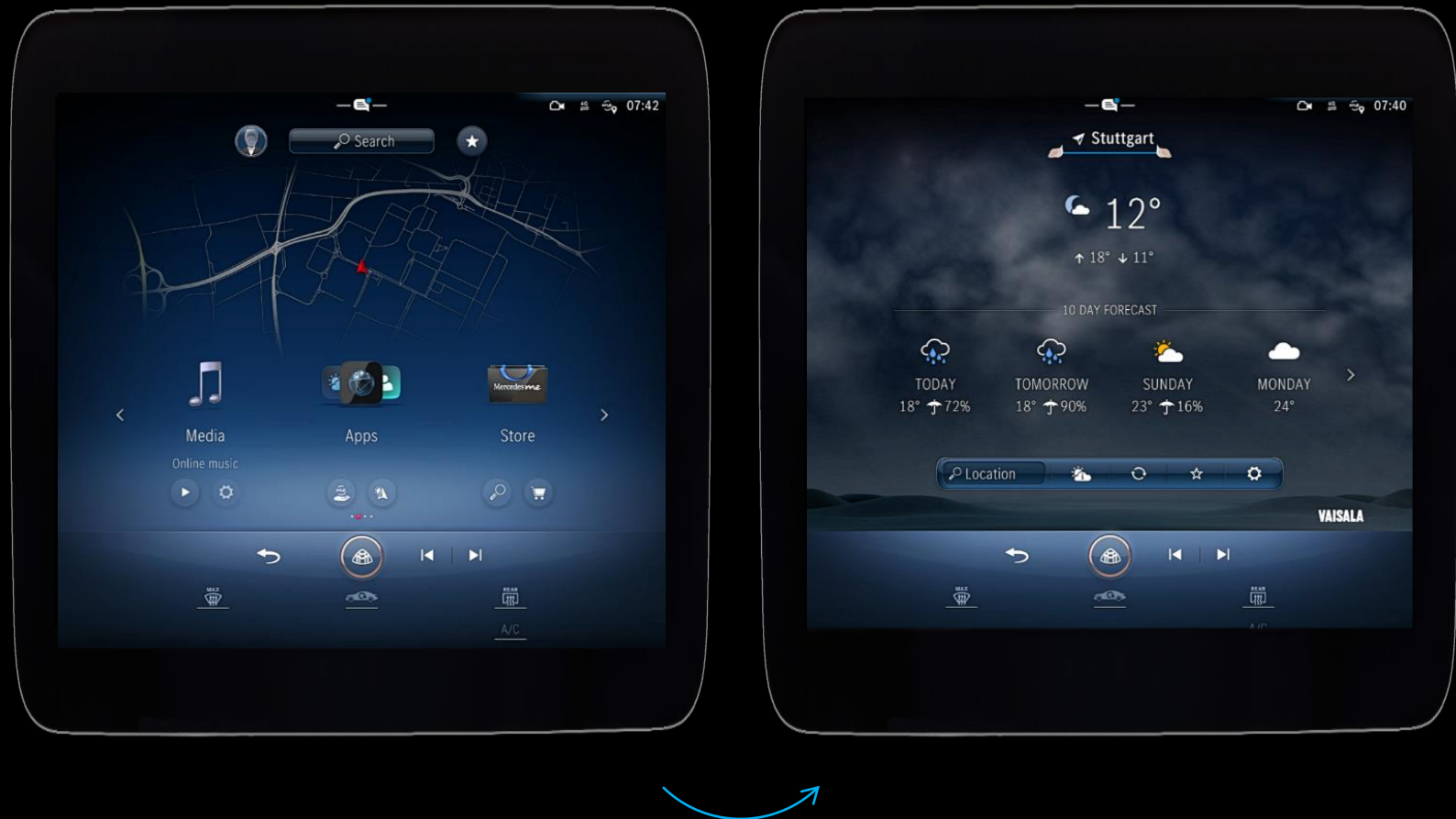
The following information is available:

- Current weather situation of the place.
- Hourly forecast.
- 10-day forecast including rainfall.

The weather forecast can also be called up via voice command.

Example:

"Hey Mercedes, how is the weather in Stuttgart?"





Feature: Weather | "Hey Mercedes, how is the weather in Stuttgart? "

A. Navigate to Apps and open the folder. Click on the weather icon and pen.

B. Navigate to the right for detailed view.





Feature: Weather (Online UI).

Weather (Online UI):

MBUX "Wetter (Online UI)" shows current weather information and forecasts in the MBUX Media display.

You can search for any location or call up the local weather forecast. The detailed view also contains information about ski resorts in the area.

The favorites bar allows a quick call of weather forecasts of saved locations.





Feature: Weather (Online UI) | Location.

1. Navigate to *Apps* and open the folder.



2. Swipe right to the *weather* symbol and open it.





Feature: Weather (Online UI) | User interface.

1 Detailed view

Shows more detailed information on the entry when clicking on it.

2 10 day prediction

Shows the forecast for the next 10 days.

3 Favorites

Saves the called location to position 1.

4 Search

Search for places for weather forecast.

5 Weather display

Selection for local weather or for route destination.

6 Scale setting

Selection for information in Celsius or Fahrenheit.





Feature: Weather (Online UI) | User interface – Detail view.

A. Weather details about the location.



B. General ski info on ski places in your area.





Feature: Local search.

Local search:

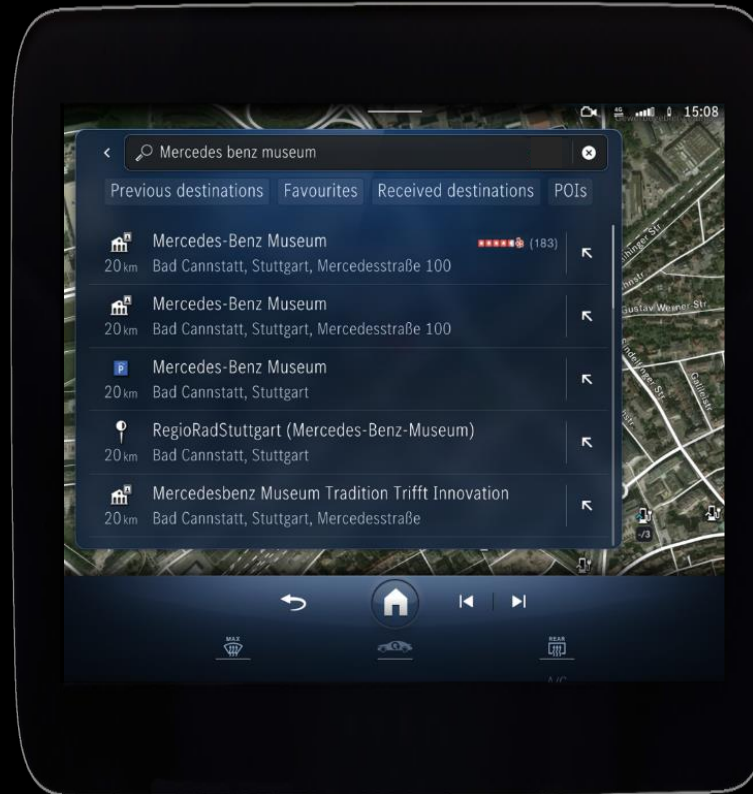
The *Local Search Digital Extra* allows to find places of interest like restaurants, museums, etc.

For example, the Mercedes-Benz Museum can be found and navigated to via voice command without knowing the exact address.

In the more detailed view, information about opening times, price levels and a rating is displayed in addition to the address and navigation option (if available).

The given telephone number can be called directly at the press of a button.

A place can also be saved as a favorite, to be found quicker afterwards.



Online Map Update



Navigation service: Online Map Update.



CHAPTER CONTENTS

- Online map update.
- Manual map update.
- Manual map update download.
- Manual map update installation.

Required [service activation](#) in Mercedes-Benz App or Mercedes-Benz Portal:

Navigation: • Online Map Update.



Feature: Online Map Update.

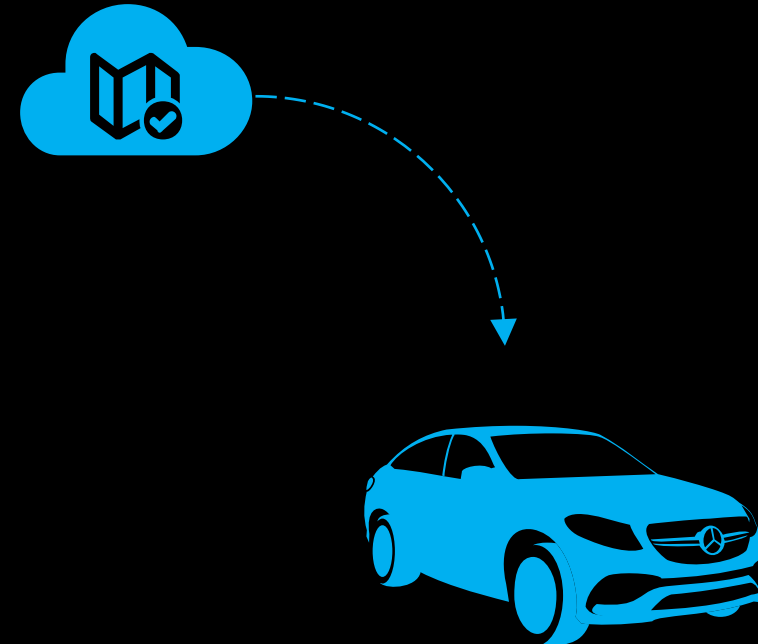
Online Map Update:

The *Online Map Update* automatically updates the navigation data.

The map material is kept up to date based on position or route via the mobile network.

The incremental update is only downloaded and installed while MBUX is switched on and if the vehicle has a sufficient mobile connection. There may therefore be restrictions in underground garages and areas with low network expansion.

The data- and Mercedes me symbol in the MBUX start screen indicates a sufficient reception:





Feature: Manual Map Update.

Manual Map Update:

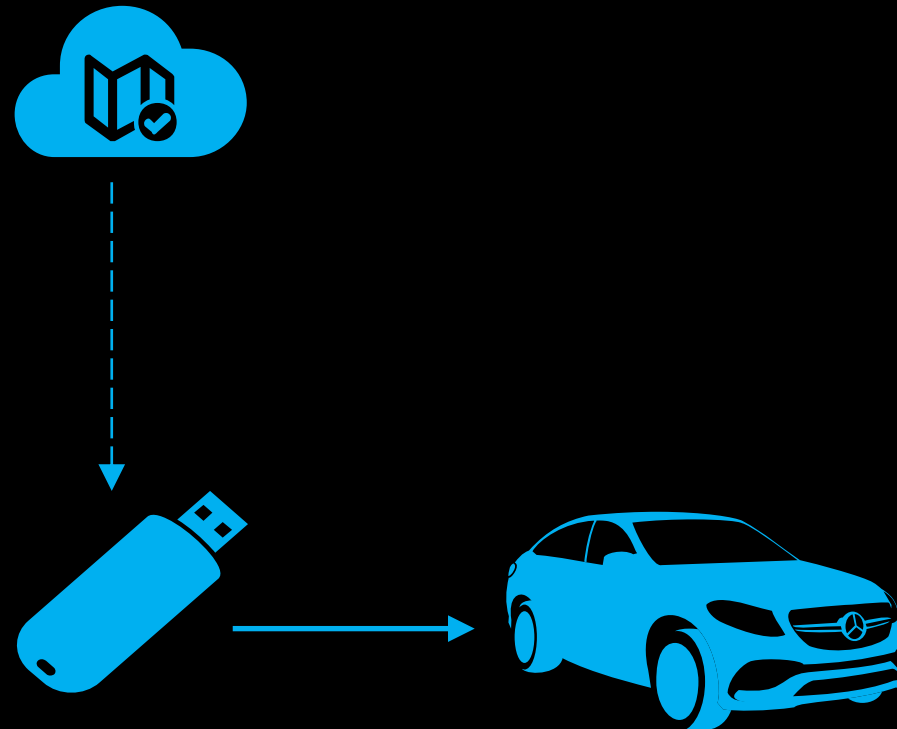
Download navigation map data for other countries manually and install them in the vehicle.

Your Mercedes already has a pre-installed version of the navigation map data for your continent ex factory.

The navigation map data for all countries can (additionally or alternatively) be updated via a download in the Mercedes-Benz Portal and an installation in the multimedia system.

Note: The voice recognition data of your navigation system can only be updated via a manual map update.

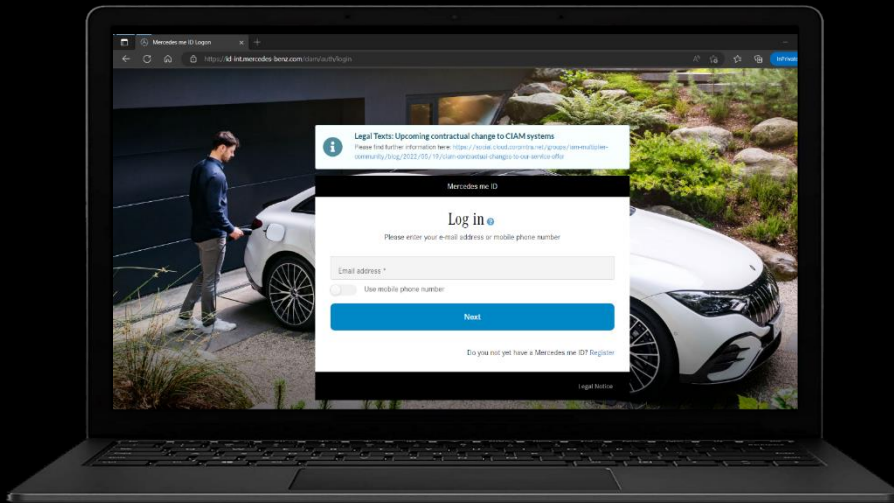
Below is a representation of the procedure.



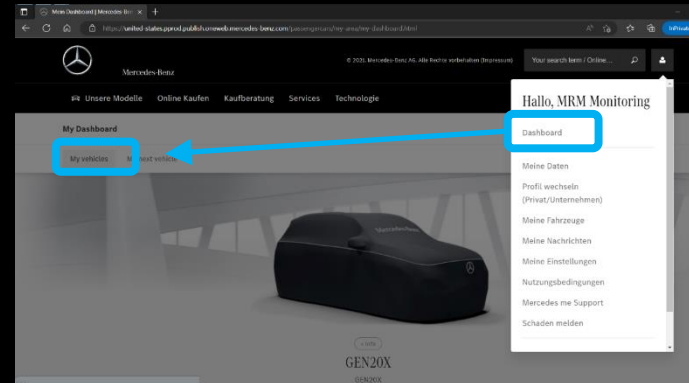


Feature: Manual Map Update | Download.

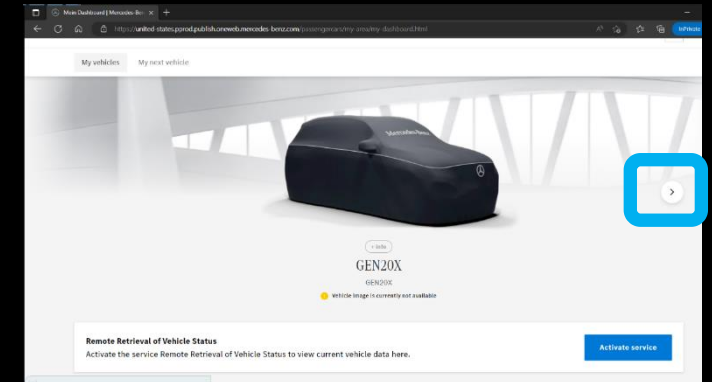
1. Login in the [Mercedes-Benz](https://www.mercedes-benz.com) website.



2. Call up *my vehicles* in the Mercedes-Benz account.



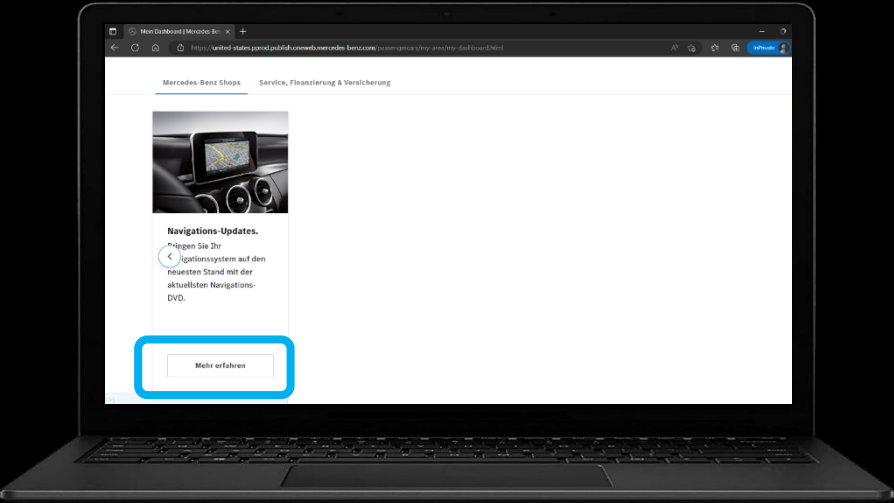
3. Select vehicle.



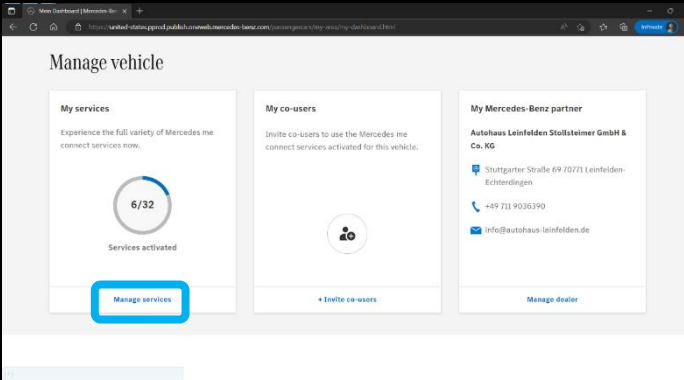


Feature: Manual Map Update | Download.

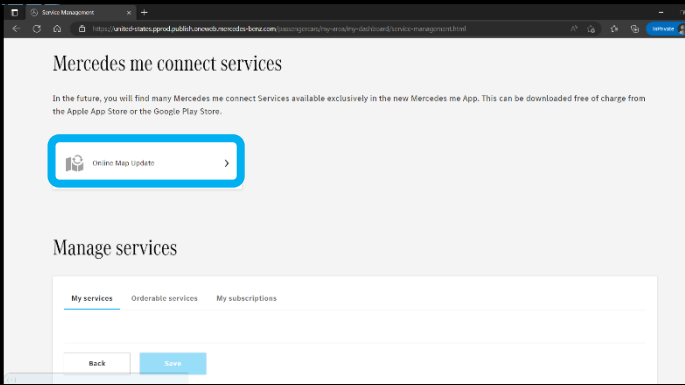
4. Open *Online Map Update*.



Alternative view:
4a. Open *Manage services*.



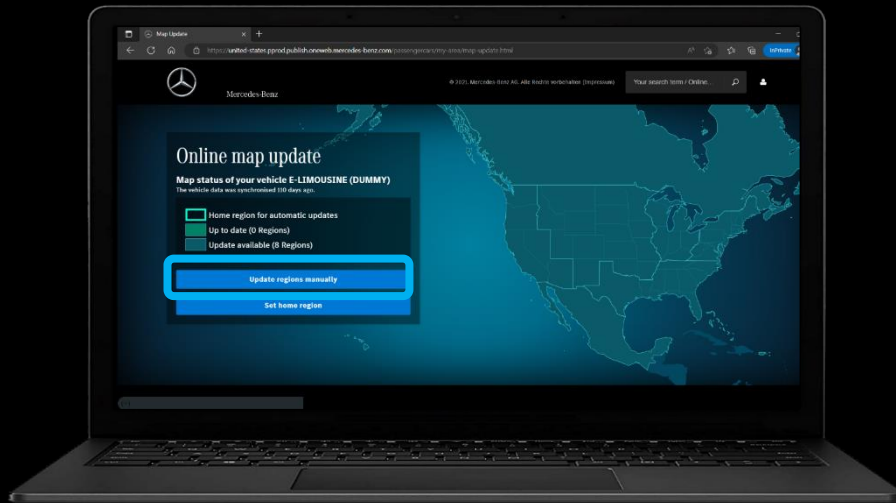
Alternative view:
4b. Open *Online Map Update*.



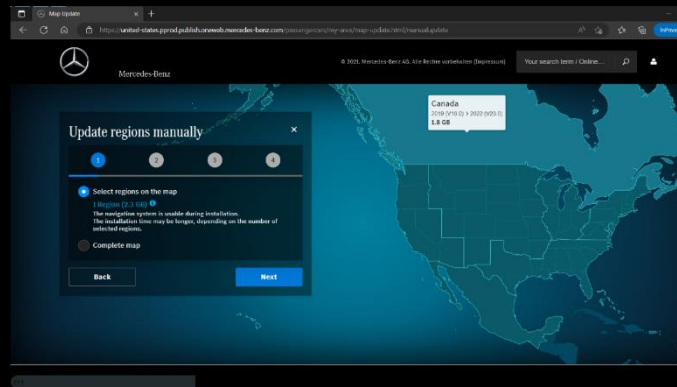


Feature: Manual Map Update | Download.

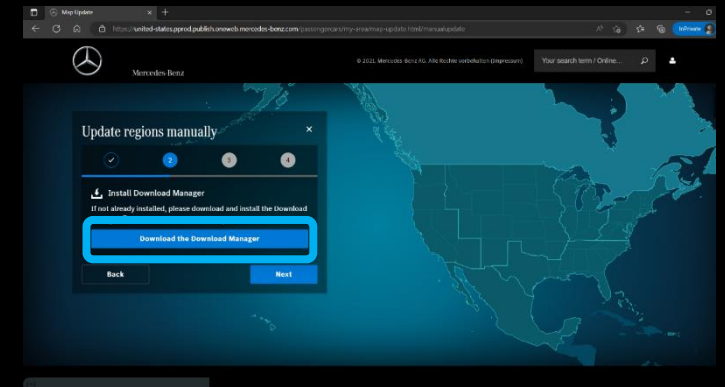
5. Select *manually update*.



6. Select desired region(s).



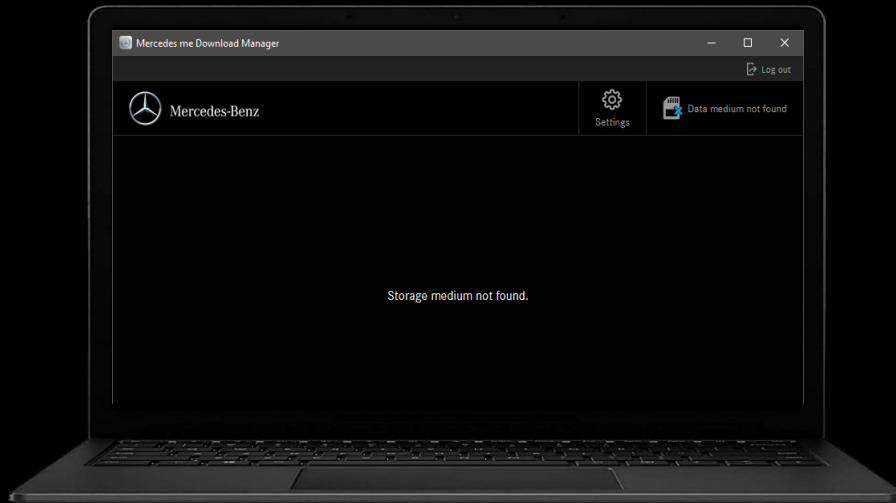
7. Select *install Download Manager* and perform installation.



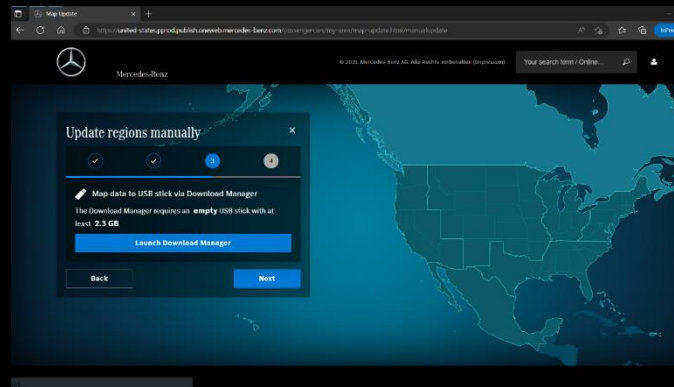


Feature: Manual Map Update | Download.

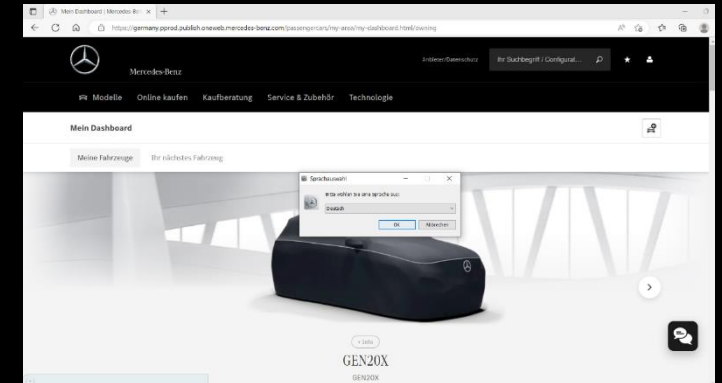
8. Download Manager Installation abschließen.



9. Select *Start Download Manager*.



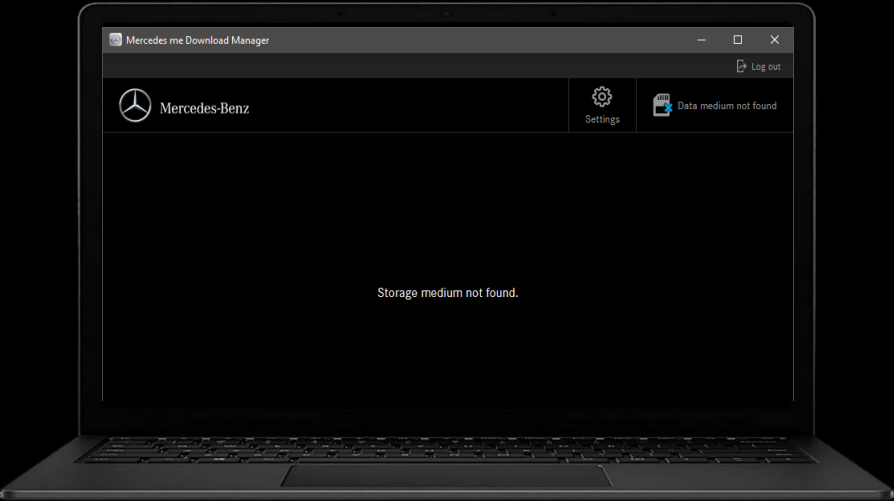
10. *Mercedes-Benz Download Manager.exe* opens.
(For MAC-OS the ending is: ...Download Manager.app)
(If the message doesn't appear: Update page.)



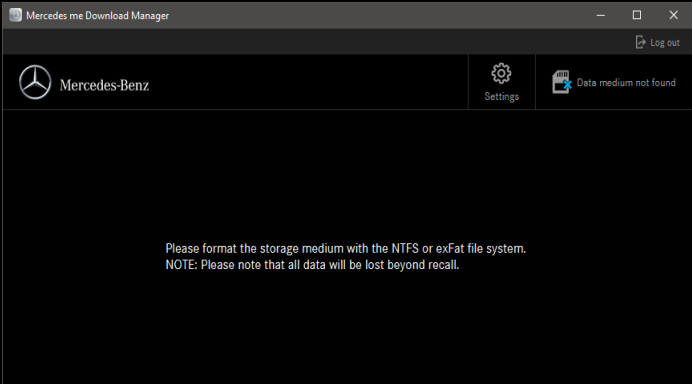


Feature: Manual Map Update | Download.

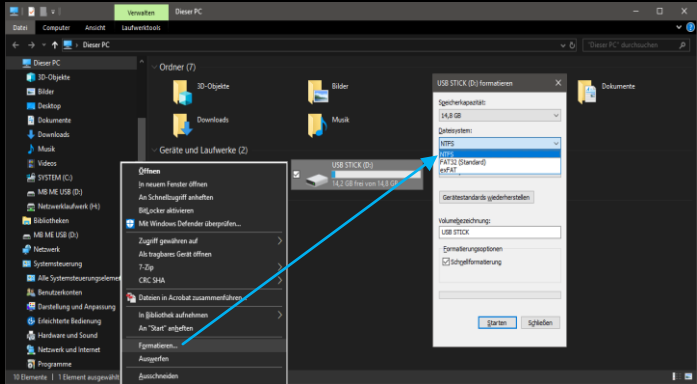
11. Mercedes-Benz Download Manager is open:
Insert USB stick now.



Alternative view:
11a. The USB stick must be formatted if the wrong
file system is used.



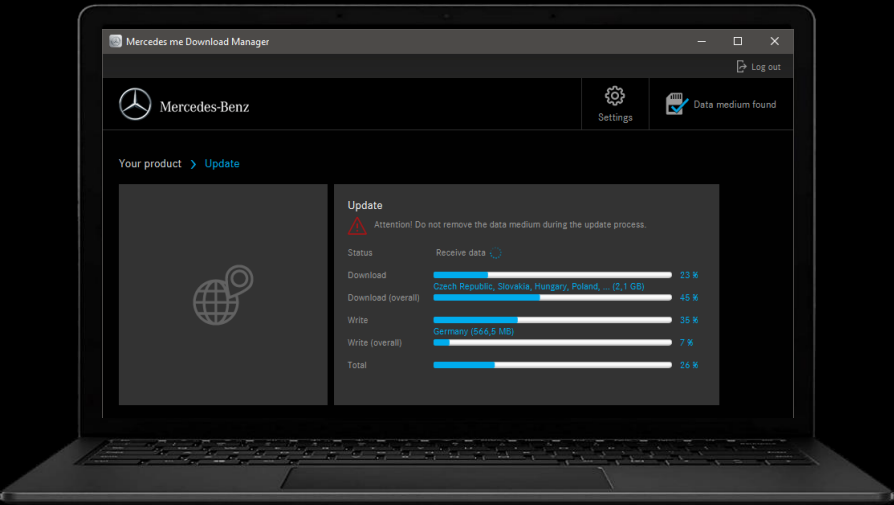
Alternative view:
11b. Format USB stick on NTFS or exFAT.
(Windows: Right click on USB stick → Format...)



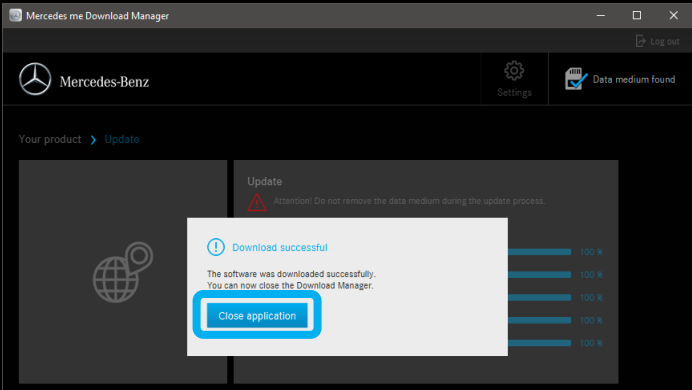


Feature: Manual Map Update | Download.

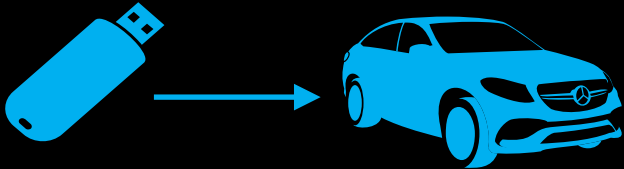
12. The map update will automatically start the downloaded to the USB stick.



13. The update has been successfully downloaded and the application can be closed.



14. USB stick is now ready to install the updated map data in the vehicle.





Feature: Manual Map Update | Installation.

1. Start MBUX and insert USB stick.
(Please use the multimedia USB port)



2. Open MBUX notification for software update.





Feature: Manual Map Update | Installation.

3. Select software update.



4. Select the downloaded map update.





Feature: Manual Map Update | Installation.

5. Start update by clicking 'Update'.



6. Map update is being installed.





Feature: Manual Map Update | Installation.

7. The map update is now completed.



Live Traffic Information



Navigation service: **Live Traffic Information.**



CHAPTER CONTENTS

- Live Traffic Information.
- Car-to-X Communication.

Required [service activation](#) in Mercedes-Benz App:

- Navigation:
- Live Traffic Information.
 - Car-to-X communication



Feature: Live Traffic Information.

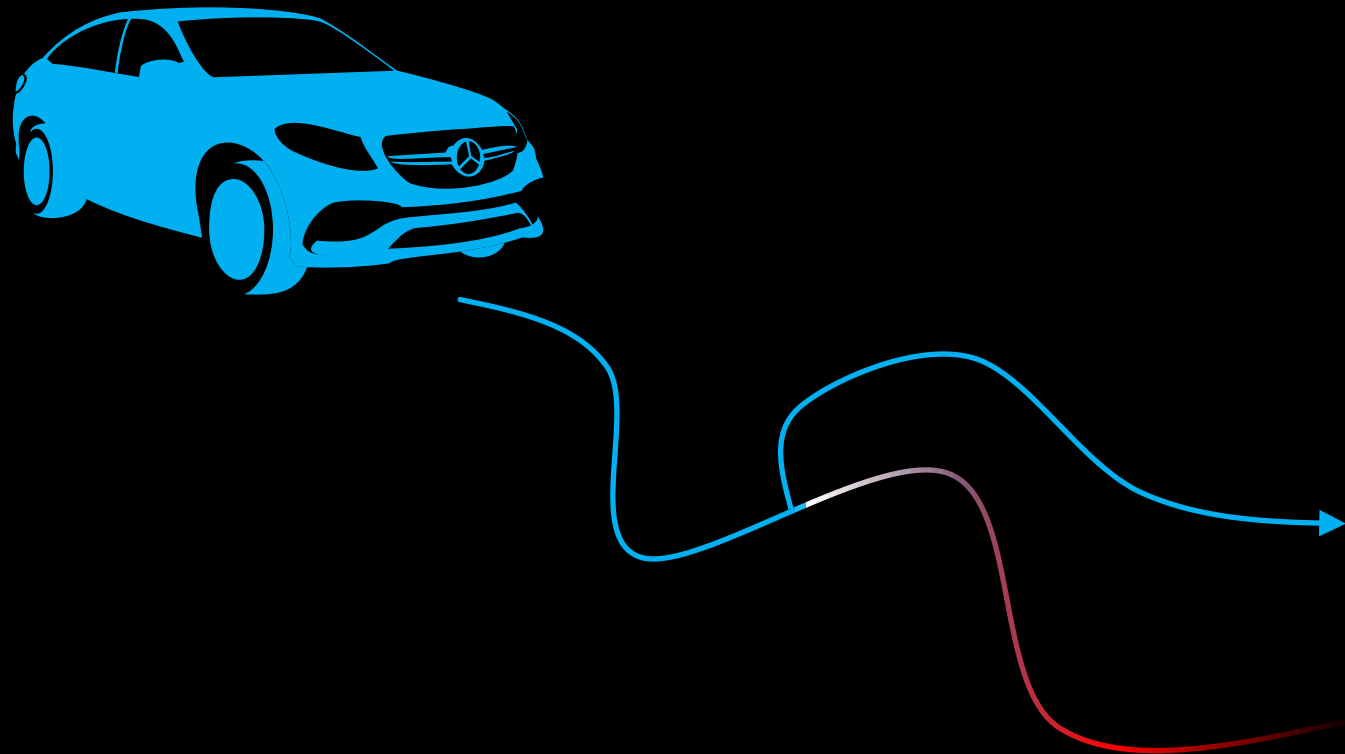
Live Traffic Information:

With *Live Traffic Information*, the route is automatically adapted based on current traffic information.

Live Traffic Information records and transmits a high number of traffic data from various sources, which are available within a short time after the vehicle is started.

The traffic data is updated every 2 minutes.

If a significant deceleration is registered on the route by traffic incidents/traffic jams, route guidance is dynamically adapted and guided through a faster route.

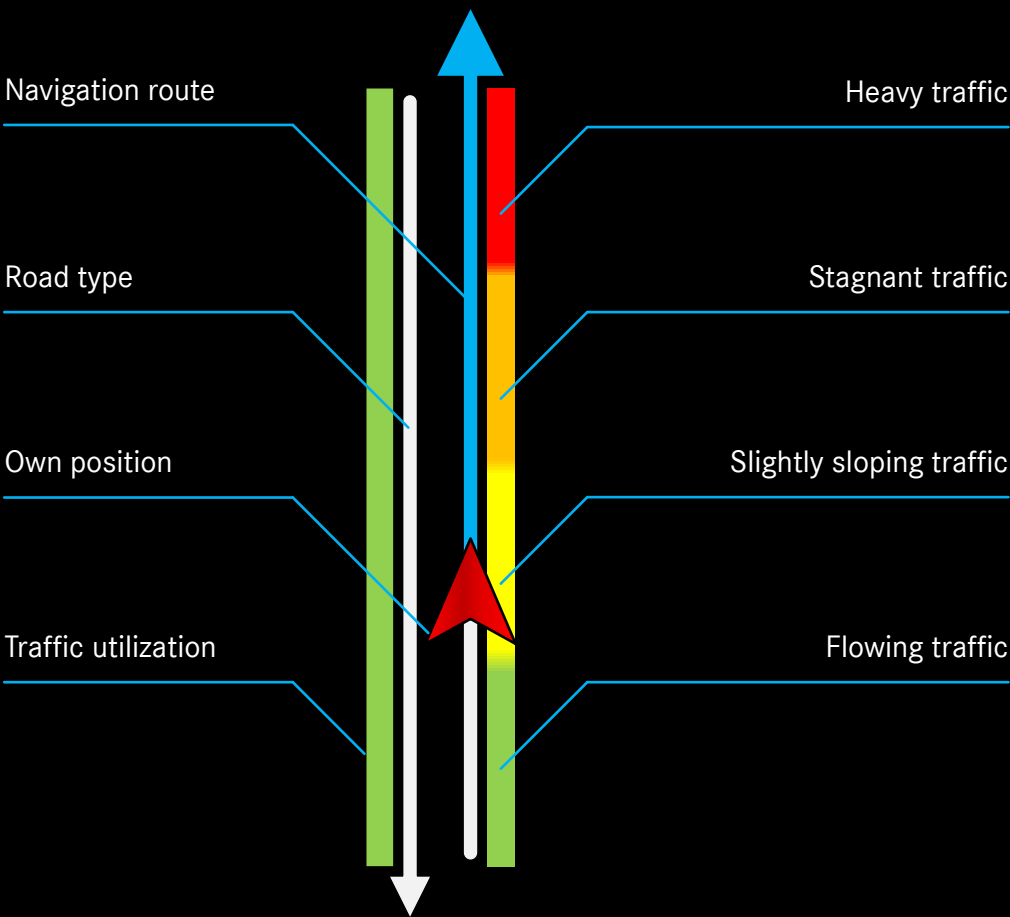





Feature: Live Traffic Information | Representation.



Representation of traffic information:



Status display:

- LIVETRAFFIC = not available.
- LIVETRAFFIC = Available.
-  2min = On the current route a traffic jam of 2 minutes is to be expected.



Feature: Car-to-X Communication.

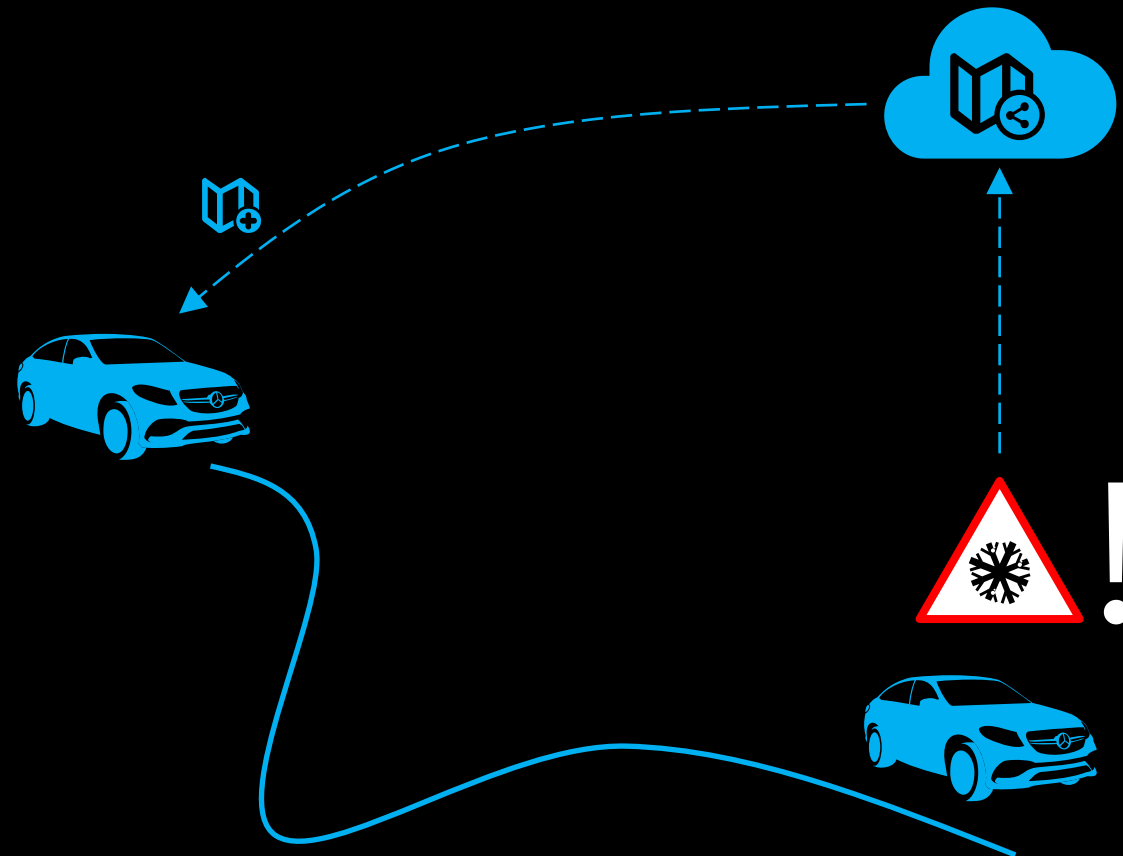
Car-to-X Communication:

With *Car-to-X Communication*, information on a sudden danger – such as ice or an accident – can be passed on as quickly as possible to subsequent or oncoming road users.

If a Mercedes-Benz passenger car detects a hazardous situation via the vehicle sensors, this is sent in real time to the Mercedes-Benz Cloud together with position data.

For further road users, the danger area is then visible on the navigation map.

Mercedes-Benz Cars can receive the warning information from 2016 onwards.





Feature: Car-to-X Communication | Representations.



Representation of traffic information:

- | | | | |
|--|---|--|--------------------|
| | Risk of slipping | | General warning |
| | Crosswind | | Reduced visibility |
| | Mobile construction site | | Accident |
| | Breakdown vehicle | | Heavy rain |
| | Speed bump | | Hazard light |
| | C and S-Class models (2021 onwards) as well as the EQS can detect potholes or speed bumps.* | | |

*Special equipment for C-Class: Suspension with adaptive damping system or AIRMATIC standard air suspension for S-Class and EQS.