

## Automated cars

# Procedure for authorising tests on public roads

Submit the completed questionnaire below and the required documents to the FPS  
Mobility (vehicle@mobilite.fgov.be)

Question	Response
Applicant	
Name of the test organization	
Address	
Name of the applicant, role	
Telephone	
E-mail	
Website	
Description of the test	
Summarised description of the test	(Describe the changes with regard to the approved vehicle)
What level of automation does the vehicle have?	<input type="checkbox"/> 1 – driving assistance <input type="checkbox"/> 2 – partially automated <input type="checkbox"/> 3 – conditionally automated <input type="checkbox"/> 4 – highly automated <input type="checkbox"/> 5 – fully automated
Test period	
Operation of the vehicle and passenger on board	
Surname and first name of drivers	
Does the applicant confirm that these persons can resume control of the vehicle at any time?	(Specify)
Does the test protocol allow for a test assistant to be present?	(A test assistant is a person in charge of assisting the test driver or operator in conducting the test, by checking for example the digital information displays or other information feedback)

	systems and by observing the movements of other road users)
Apart from the person or persons responsible for driving the vehicle, are there other people on board the vehicle in charge of testing?	(Specify the context, number, and if these are professionals and/or employees of the company)
Characteristics of vehicle 1	
Vehicle category	
Serial number of the vehicle	
Vehicle registration number	
Number of seats including the driver's seat	
Characteristics of vehicle 2	
Vehicle category	
Serial number of the vehicle	
Vehicle registration number	
Number of seats including the driver's seat	
Characteristics of vehicle 3	
Vehicle category	
Serial number of the vehicle	
Vehicle registration number	
Number of seats including the driver's seat	
Registration of data	
Are the automated vehicles being tested fitted with a data recording device which is capable of capturing data from the sensors and control systems associated with the automated features as well as other information concerning the vehicle's movement?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Does this device record at least the following information?	
Whether the vehicle is operating in manual or automated mode	<input type="checkbox"/> YES <input type="checkbox"/> NO
Vehicle speed	<input type="checkbox"/> YES <input type="checkbox"/> NO

Steering command and activation	<input type="checkbox"/> YES <input type="checkbox"/> NO
Braking command and activation	<input type="checkbox"/> YES <input type="checkbox"/> NO
Operation of the vehicle's lights and indicators	<input type="checkbox"/> YES <input type="checkbox"/> NO
Use of the vehicle's audible warning system (horn)	<input type="checkbox"/> YES <input type="checkbox"/> NO
Sensor data concerning the presence of other road users or objects in the vehicle's vicinity	<input type="checkbox"/> YES <input type="checkbox"/> NO
Remote commands which may influence the vehicle's movement (if applicable)	<input type="checkbox"/> YES <input type="checkbox"/> NO
Location of the vehicle	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>Safety</b>	
A risk analysis has been carried out?	<input type="checkbox"/> YES <input type="checkbox"/> NO
If yes, then has the risk analysis been validated by an external body?	(Specify name of the body)
Are the on board sensors and control systems sufficiently developed to be capable of appropriately responding to all types of road user likely to be encountered during the test in question? (particularly for more vulnerable road users)?	(Specify)
All prototype automated controllers and other on board systems should have a sufficient safety level built into them to be able to manage any risk of unauthorised access?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Does the HMI system (Human Machine Interface) used meet the following requirements : <ul style="list-style-type: none"> <li>• Be easily and clearly understood by the test driver.</li> <li>• The driver is given clear indication of the vehicle driving mode - manual or automated.</li> <li>• Ensure that the driver is given sufficient warning to resume manual control when necessary.</li> <li>• Allow the driver to quickly and easily retake control of the vehicle when necessary.</li> </ul>	<input type="checkbox"/> YES <input type="checkbox"/> NO
Do the transition periods between manual and automated mode (and vice versa) involve minimal risk?	<input type="checkbox"/> YES <input type="checkbox"/> NO
In the event of a malfunction or failure of the automated driving system under test, is the test driver or operator made aware with an audible warning (possibly accompanied by a visual warning)?	<input type="checkbox"/> YES <input type="checkbox"/> NO

Are the vehicle's automated braking and steering systems designed to allow manual braking or steering in the event of failure?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Are the software levels and revisions used on each vehicle to be tested clearly documented and recorded?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Are they subject to documented tests?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<b>Applicant's undertaking</b>	
The applicant undertakes to:	
<ul style="list-style-type: none"> <li>• inform the police and emergency services</li> <li>• inform other road users of the test (if necessary)</li> <li>• provide the FPS Mobility with summaries of incidents/accidents</li> <li>• provide the FPS Mobility with a test summary</li> </ul>	

<b>Documents to be included</b>
Copy of the appropriate driving licence for every test driver
Copy of an appropriate insurance policy for the test vehicle (after registration if not available during the application)
Risk analysis
Training plan for test drivers.
Copy of the roadworthiness test certificate (where appropriate)
Auditing record kept by the organiser of the test which shows that the internal tests have given sufficient results to be able to conduct tests on the public road network without this creating additional risks for road users
A photo of the automated vehicle

I, the undersigned, as duly approved representative of the test organiser, declare that the above responses are correct.

I undertake to immediately communicate to the administration any change that occurs following the authorisation of the prototype.

Name, date and signature of the applicant:
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