

AUTONOMOUS VEHICLES

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Hot Topic

NHTSA has defined 5 levels of vehicle automation

0

No automation

Driver is in complete and sole control

1

Function-specific

Automation involves one or more specific functions

2

Combined function

Automation of at least two primary control functions

3

Limited self-driving

Driver can cede full control of all safety-critical functions under certain conditions eg Google Car

4

Full self-driving

Vehicle performs all safety-critical driving functions for entire trip. Includes both occupied and unoccupied vehicles

This Hot Topic deals with impacts relating to levels 3 and 4

Policy



Infrastructure



Freight and other modes



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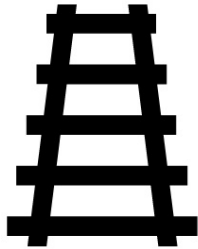
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Freight and other modes

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[Driverless freight trains](#)

Mining company Rio Tinto has begun commissioning of auto-haul technology in the Pilbara region of Western Australia



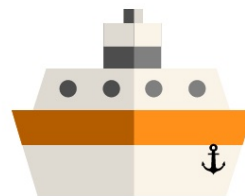
[Platooning](#)

The European Commission funded SATRE project examined systems for road trains with a lead vehicle driver autonomously controlling following vehicles



[Long distance](#)

Motoring manufacturer Daimler has demonstrated their recent R&D in heavy vehicle autonomous driving



[Unoccupied shipping](#)

The MUNIN project is researching autonomous shipping

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Ask the local experts

Infrastructure impacts and role for governments were included in the survey of government and industry representatives conducted as part of this Texan study



Ask the auto industry chiefs

Leading executives attending the 2014 Geneva Motor Show offer their comments on autonomous vehicles



Shaping the future: US

Testimony from NHTSA, AASHTO, Nissan and General Motors was part of a November 2013 examination of the impact of autonomous vehicles by the US House of Representatives Transport and Infrastructure Committee



Shaping the future: UK

A range of peak bodies and transport professionals were consulted for this examination of the impacts of autonomous vehicles on the city of London

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AUTONOMOUS VEHICLES Policy

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Hot Topic



[Testing and licensing](#)

Included in NHTSA's May 2013 preliminary policy statement is a research plan and recommendations for testing and licensing



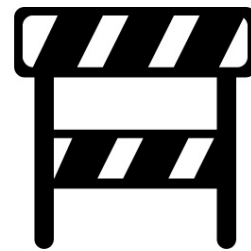
[Legal and ethical issues](#)

An Australian overview of some legal and ethical issues to be considered



[Guidance](#)

Public policy research body RAND Corporation has offered a guidance to policymakers which includes an overview of present US legislation



[Benefits and barriers](#)

Overview of US preparedness prepared by think tank Eno Center for Transportation

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