AUTONOMOUS VEHICLES

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Hot Topic
December 2014 update

NHTSA has defined 5 levels of vehicle automation

0	1	2	3	4
No automation	Function-specific	Combined function	Limited self-driving	Full self-driving
Driver is in complete and sole control	Automation involves one or more specific functions	Automation of at least two primary control functions	Driver can cede full control of all safety-critical functions under certain conditions eg Google Car	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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AUTONOMOUS VEHICLES Policy

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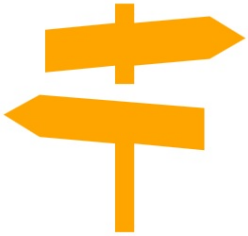
Hot Topic

Testing and licensing

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



Guidance

Public policy research body RAND Corporation has published guidance for policymakers which includes an overview of present US legislation

NEW

From technology to policy

Keynote speech and presentations from a UK conference

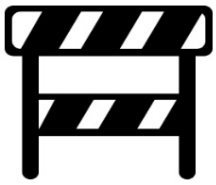
Legal and ethical issues

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

NEW

Regulatory considerations

Results of a project on regulatory issues by the ITF's Corporate Partnership Board.



NEW

Benefits and barriers: Australia

Australian review of impact of road trauma includes brief look of the future role of driverless cars

Benefits and barriers: USA

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

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Infrastructure

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Shaping the future: Australia

NEW

Slides from plenary presentations at the 26th ARRB Conference in October 2014 on the future impacts of the widespread adoption of autonomous vehicles.

Shaping the future: NZ

NEW

The New Zealand Institute of Economic Research has released a report on the impact of new vehicle technology on government investment in transport infrastructure.

Shaping the future: US

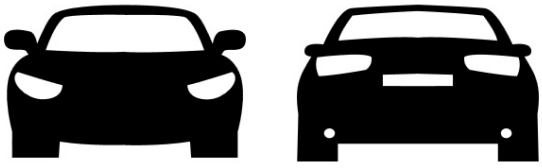
Testimony from NHTSA, AASHTO, Nissan and General Motors was part of a November 2013 examination of the impact of autonomous vehicles by the US House of Representatives Transport and Infrastructure Committee

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

Ask the 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

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Freight and other modes

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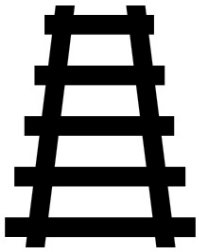

Driverless freight trains

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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