

What regulations do automated vehicles need and what red tape could be cut?

International Driverless Cars Conference

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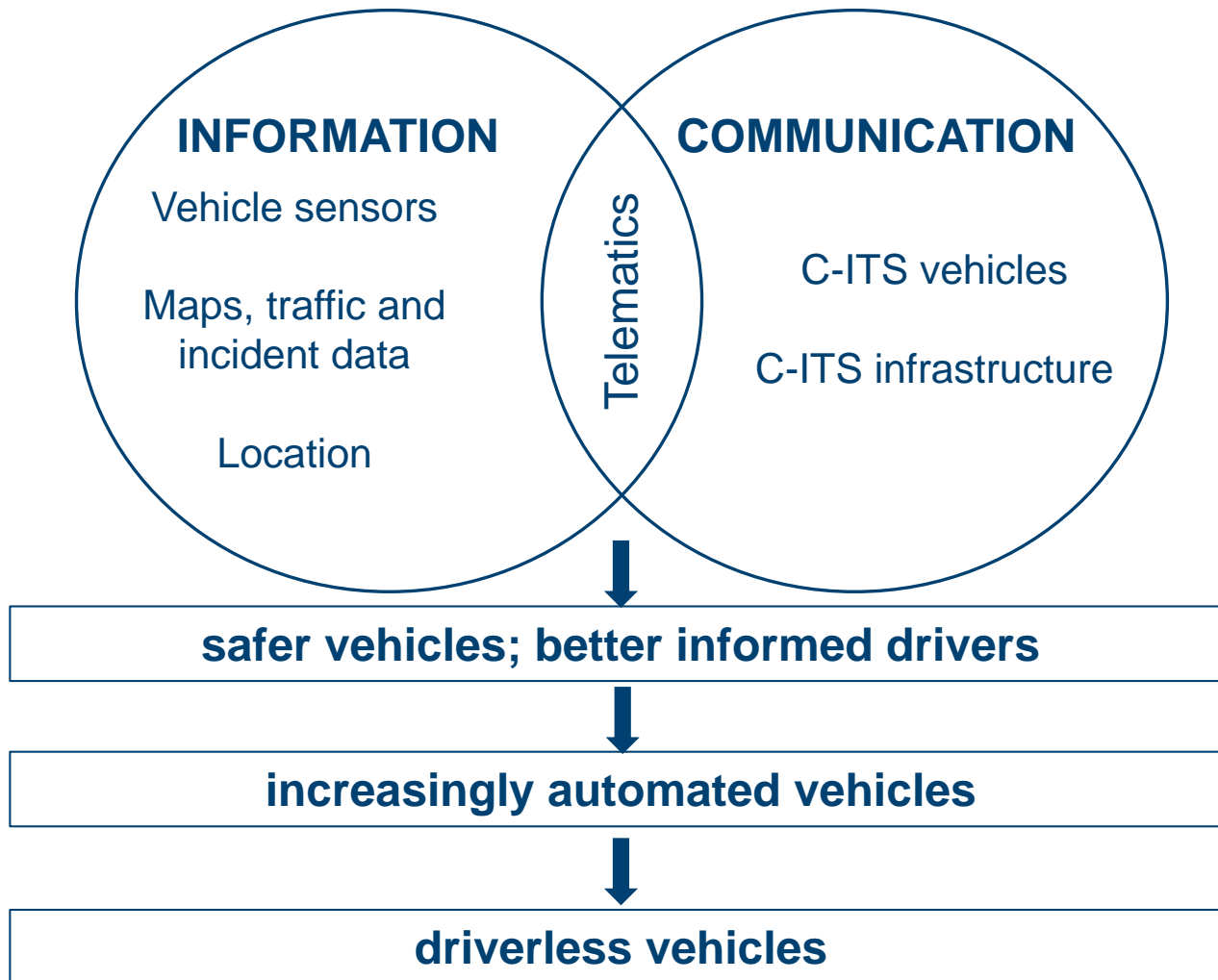
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What regulations are needed and what red tape could be cut?

The right regulatory framework will enable an automated future and therefore:

- Improved productivity for freight industry
- An ability to dramatically decrease road toll
- Social gains e.g. baby boomer independence

What do we mean by the term 'automated' vehicles?



Industry says:

Uncertainty around regulatory pathways and governance, such as insurance and liability, is delaying the deployment and market-readiness of technologies.



Consumer uncertainty



A reluctance or inability to move forward?

Analysis of the autonomous vehicle lifecycle – designing an appropriate regulatory framework

- Vehicle design
- Vehicle testing
- Sale of vehicle
- Modification of vehicle
- Registration of vehicle
- Licensing of Users
- Use of vehicle
- Operation of the autonomous vehicles
- System monitoring and data access
- Maintenance
- Recall
- Disposal

Analysis of an autonomous vehicle lifecycle =
answering Qs about issues such as:

The physical vehicle and its systems

Maintenance, repair and updates

Licensing and governance

Liability and insurance

Privacy



Getting the regulatory framework right

What we can do:

- Flexible regulatory framework
- Coordinated approach
- Don't regulate for the sake of it
- Performance-based versus prescriptive

Performance/prescriptive example

Australian Vehicle Standards Rules – Automated vehicles and variable speed signs:

- Visually read the sign
- Receive C-ITS signals about the sign
- Receive GPS information
- Receive mobile communication data
- OR, receive an exemption by demonstrating another way (safely)

Where to now ...

What regulations are needed and what red tape can be cut?

- Work in progress
- NTC business case to Australia's transport ministers tomorrow
- Many other projects from other organizations

Working together

Regulatory	Ongoing review of Australian Design Rules in line with UN WP29 Commonwealth	Regulatory barriers to automated vehicles NTC	State regulatory reviews QLD, SA, VIC, WA	
Operational framework	Cooperative ITS – establishing operational framework Austroads	Safety benefits of C-ITS and automated vehicles Austroads	Road operations and automated vehicles Austroads	Registration and licensing issues and automated vehicles Austroads
Trials and demonstrations	Cooperative Intelligent Transport System Initiative NSW	ITS Pilots Project QLD	Driverless Car Demonstration SA	Road Freight ITS Trials and 2016 ITS Congress Demonstrations VIC

Question for you

Is your organization able to help shape the regulatory framework for our future?

Please share your experience and ideas with us.

The National Transport Commission leads regulatory and operational reform nationally to meet the needs of transport users and the broader community for safe, efficient and sustainable land transport.

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