

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

International Driverless Cars Conference

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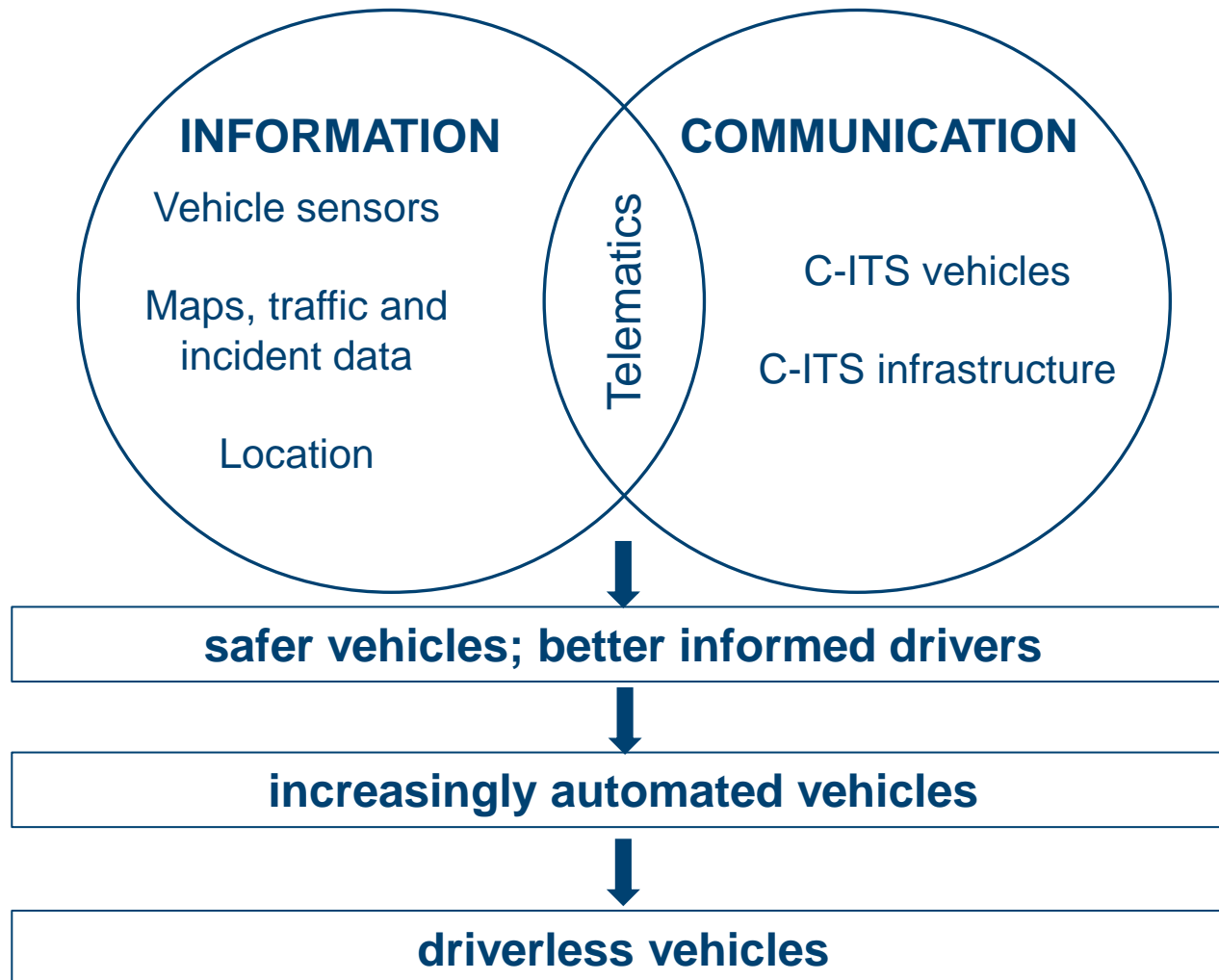
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What regulations are needed and what red tape could be cut?

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 automated 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 automated vehicles
- System monitoring and data access
- Maintenance
- Recall
- Disposal

Analysis of an automated 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 organisations

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 organisation 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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