

Autonomous Vehicles Licensing Subcommittee

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Overview of presentation

- ❖ **Regulatory framework for the deployment of automated vehicles (AV's) in the United Kingdom.**
- ❖ **Legal Framework for the deployment of automated agricultural vehicles (AV's) in the United Kingdom.**

Regulatory framework for the deployment of automated vehicles (AV's)

An ongoing review of the regulatory framework for the deployment of automated vehicles (AV's) is a three year project (2018 – 2021) and is being conducted by:

- United Kingdom

- Wales

and

- Scottish Law Commissions

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

The project involves three rounds of consultation.

Part 1: Safety Assurance and Liability.

Part 2: Regulation of remotely operated automated fleets and their relationship with public transportation.

Part 3: Comprehensive analysis and recommendations.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

- SAE automated levels 0 to 5 and their distinctions.
- Automated vehicles are subject to international regulations.
- For the purpose of this study automated vehicles are defined as vehicles capable of driving themselves w/o human oversight.
- The project also examined the boundary between self-driving AV's and driver assisted technology.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Regulating the safety of automated vehicles;

- Establish a new agency.
- Utilize current Vehicle Certification Agency.
- Utilize current Driver Standards Agency.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Testing and Approval:

- Manufacturers must meet UNECE standards (United Nations Economic Commission for Europe).
- Manufacturers must obtain an IWVTA approval certificate (International Approval of Whole Vehicles).
- All EU member states have established the same standard approval process.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Setting standards for driving automation.

New regulations are being developed to address advance driver assistance functions such as;

- Lane keeping.
- Lane Change.
- Systems that operate at high automation level.
- No time table has been set for implementation.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

PATHS TO FULL AUTOMATION.

- Manufacturers to include additional automated systems to their vehicles.
- Manufacturers to produce vehicles that operate at level 5 autonomy.
- Level 5 vehicles would operate in limited access areas.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

ROADWORTHINESS TESTS.

- At present ,vehicles three years and older must complete an annual roadworthiness test.
- There are no test in place for automated vehicles.
- Recommendations were made for the establishment of a new agency that would develop testing procedures for automated vehicles.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Driver Training.

- Enhanced driver permits may be issued for drivers that operate vehicles equipped with driver assistance features.
- Insurers have been asked to consider giving discounts to drivers with enhanced permits.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Person in charge of vehicle and their obligations.

The commission recommended that the person in charge of a vehicle during the course of operation;

- be licensed to operate the vehicle.
- not be under the influence of alcohol.
- be medical fit to take control of vehicle.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

Accident investigations and Safety Standards.

- The commission has asked for input on how accidents involving AV's should be investigated.
- The new established agency to compare accident rate involving automated vehicles verses the accident rate of human drivers.
- It was recommended that the Government set the safety standards for automated vehicles.

Regulatory framework for the deployment of automated vehicles (AV's) (Continued)

DATA RETENTION.

- Insurers will need access to data when investigating accidents.
- What data should be stored and for how long?
- Data collection and retention standards.
- Problems that could arise when retaining data for long periods of time.

Legal framework for the deployment of agricultural automated vehicle (AV's) in the United Kingdom

Automated agricultural vehicles fall under two broad classes:

- Large tractors
- Precision robots

Legal framework for the deployment of agricultural automated vehicle (AV's) in the United Kingdom(Continued)

- Registration and Insurance
- Data protection
- Legal Personhood
- Proportional Liability
- Accidents, Health and Safety

Questions