



**"The last novice driver
has already been born."**



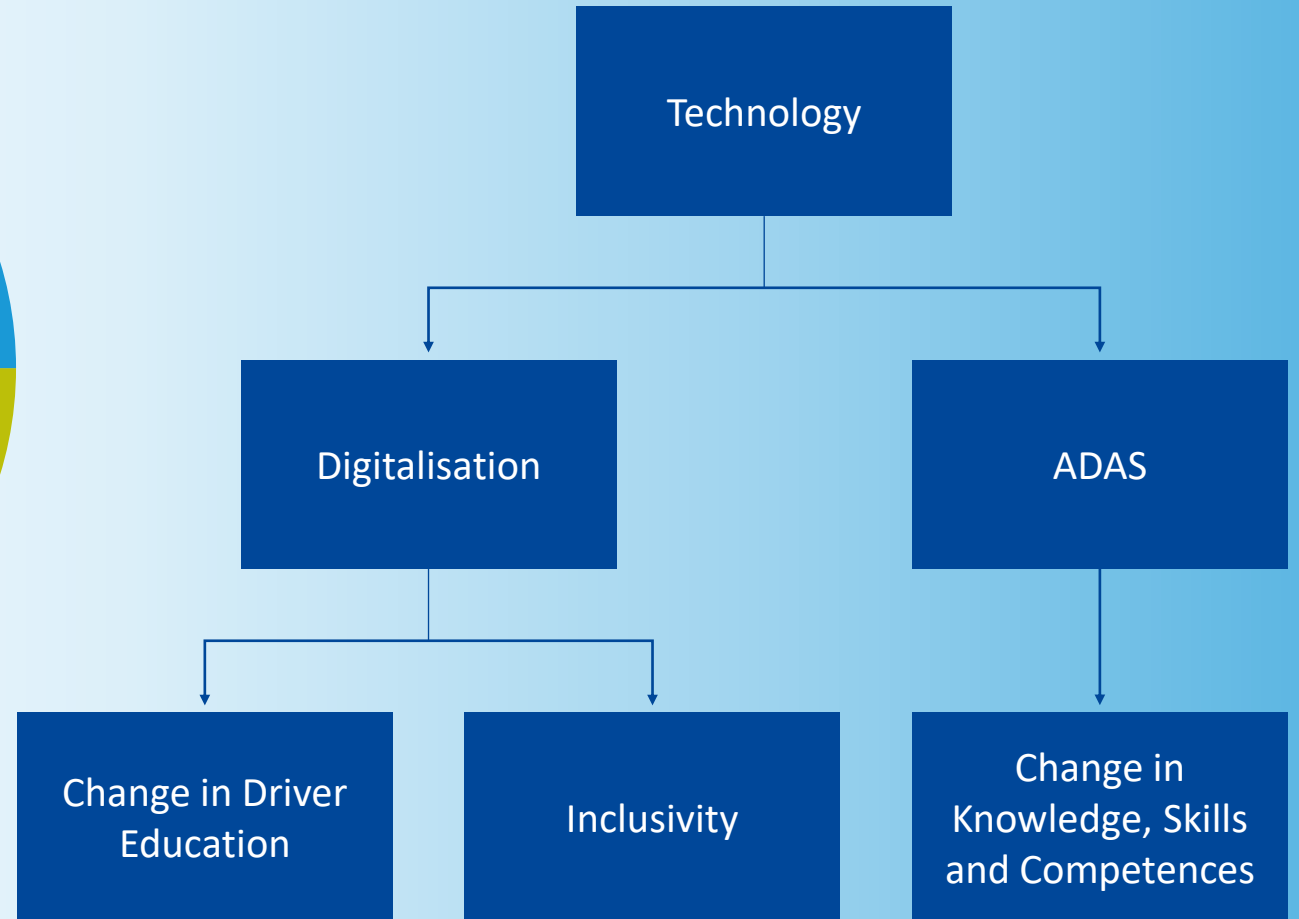
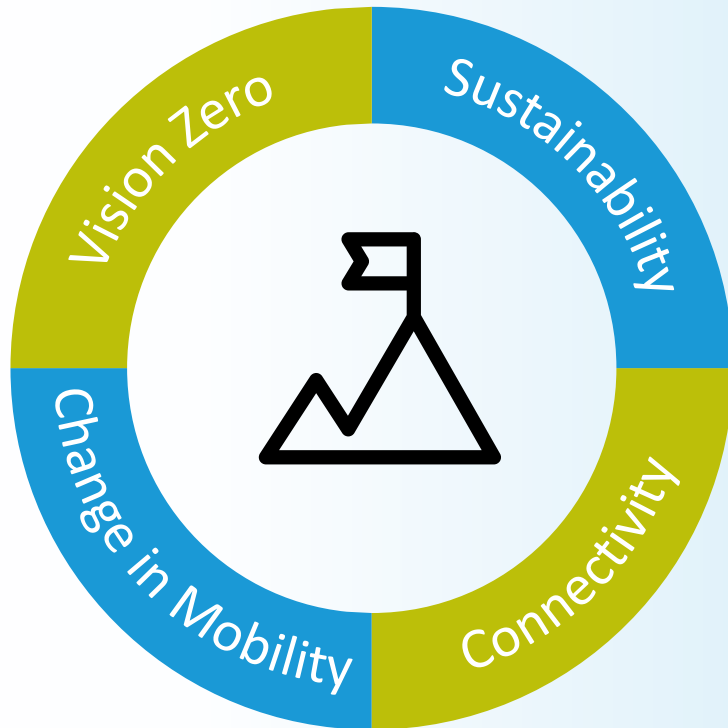
Towards Zero: Still potential for driver training and testing?

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PRESENT AND FUTURE CHALLENGES



CHANGE IN MOBILITY

- **Technology**
 - Electrification of mobility
 - Advancing technification of vehicles
 - Networked & automated systems
 - Connectivity
- **Modal Shift**
 - Increase in active mobility
- **Changes in people's behaviour, attitudes and culture**
- **Free movement of people in the EU**
 - Removing inadequate or unnecessary barriers
 - Cross-border Enforcement



TARGETS & LEGISLATION

OVERALL GOAL = VISION ZERO – Road traffic without fatalities and serious injuries.

Vision zero

- Strategic Action Plan on Road Safety (3rd Mobility Package)
- EU Road Safety Policy Framework 2021 - 2030: Next steps towards "Vision Zero"
- Sustainable and Smart Mobility Strategy



Driver training and education

Proposal Directive on Driving Licences (EU) 2023/0053

Driver enforcement

Proposal Revision of Directive on Cross-Border-Enforcement (EU) 2015/413

Vehicle technology

Regulation (EU) 2019/2144



Fatalities in the EU:

20,600
in 2022

11,400
Target 2030



SENSITIVE DRIVER GROUPS

NOVICE DRIVERS

Probation period of a minimum of 2 years – strict rules

Validity of driving licences of categories:

- AM, A1, A2, A, B1 and B = 15 years
- C, CE, C1, C1E, D, DE, D1 and D1E = 5 years

Union-wide accompanied driving training scheme (Category C and B)

- Acquire driving licences in the relevant categories before the required minimum age limit
- Being accompanied by an experienced driver



ELDERLY DRIVERS

Reduction of the periods of administrative validity

- **Age of 70:** 5 years or less
- Increased frequency of medical checks & refresher courses.
- Reduced validity shall only be applied upon renewal of the driving licence



Is there a need for a change of the age limit? 80+?

Is age-based screening still relevant in the future?

PHYSICAL & MENTAL FITNESS OF DRIVERS

Physical and mental fitness rules need to be improved and updated to the latest technological development

- The medical screening process across the EU will be enhanced
- New rules on training and probation periods:
 - Non-binding guidelines to check applicants' vision
 - A mandatory screening based on a self-assessment
 - A training programme for General Practitioners
- **What about a psychological assessment to ensure matureness?**
- **What about cognitive skills?**



KNOWLEDGE, SKILLS & EXPERIENCE

“Improving driving skills, knowledge and experience and reduce and punish dangerous behaviour”

Harmonised standards

- Physical and mental fitness
- Improved skills and knowledge on advanced technologies
- Cognitive Skills
- Human fallback level when using ADAS
 - Take back -> situation check -> situational awareness
- Ensure a safe coexistence of motorised traffic and active modes of transport

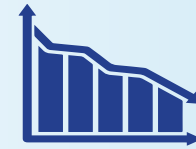


POTENTIAL OF ADAS

Main cause in over 90% of all accidents is a human error! ADAS can contribute significantly to accident avoidance & consequence reduction and risk reduction of accidents!



European Regulation 2019/2144:
2024, all new vehicles must be equipped with various ADAS.



50% of passenger car accidents up to 22% of truck accidents can be positively influenced by ADAS regarding accident severity

PREREQUISIT: Knowledge, high level of acceptance and correct handling!

GDE MATRIX

		Knowledge and Skill	Risk Increasing Aspects	Self-Assemsment
LEVEL 3 & 4 are and will be important	Goals for Life and Skills for Living	Understanding the importance of lifestyle, age group, culture, social circumstances, etc.	Understanding the importance of sensation-seeking, risk acceptance, group norms, peer pressure, etc.	Understanding the importance of introspection, competence, personal preconditions for safe driving, impulse control, etc.
	Goals for, and Context of Driving	Understanding the importance of modal choice, time-of-day, motives for driving, route planning, etc.	Understanding the impact of alcohol, fatigue, low friction, rush hour traffic, peer-age passengers, etc.	Understanding the importance of personal motives, self-critical thinking, etc.
LEVEL 1 & 2 were important until now	Driving in Traffic	Mastering traffic rules, hazard perception, etc. Automating elements of the driving process. Cooperating with other drivers, etc.	Understanding the risks associated with disobeying rules, close-following, low friction, vulnerable road user, etc.	Calibration of driving skills, developing a personal driving style, etc.
	Vehicle Control	Mastering vehicle functioning, protective systems, vehicle control, etc. Understanding the impact of physical laws.	Understanding the risks associated with non-use of seat belts, breakdown of vehicle systems, worn out tires, etc.	Calibration of car control skills

DRIVER EDUCATION AND EXAMINATION

PRESENT & FUTURE CHALLENGES:

- **Change in Curriculum**
 - ADAS, Cognitive Skills, ..
- **Change in the education process & focus**
 - Combination of online and face-to-face education
 - Competence orientation and making use of digitalisation
 - Utilisation of driving simulators, virtual reality generated imagery videos?
- **Need for lifelong training**



OUTLOOK – "The last novice driver has already been born."

ADAPT TO CHANGES

- **Minimum standards:**
 - Examiner and examiner training
 - Physical and mental fitness requirements
 - Driving tests
- **Essential driving skills**
- **Lifelong Training**
Drivers need to be up to date in terms of road safety knowledge
- **Higher Order Skills (HOS)**
Cognitive skills & Social-affective skills



OPEN QUESTIONS

- **Is it necessary to solely focus on new technologies in vehicles (ADAS) when looking at the driver education and examination?**
- **Focusing on digitalisation and ADAS –
Is it even possible to set a general standard throughout all EU countries, considering that there are many differences between individual countries – such as: regulations, technological developments, vehicle types and age & general mobility behaviour?**
- **Is it necessary to cluster drivers by age or is it more important to focus on the general skills & competences of a driver?**

