"Autonomous vehicles and road safety: towards new training modules for drivers and driving instructors". - Brussels, 16 May 2019









Overview of the driving schools in Europe: current issues and needs.

How can driving schools benefit from simulators in relation to AV?

Enrique Lorca – EFA President Manuel Picardi – EFA Vice-President

Autonomous vehicles and road safety: towards new training modules for drivers and driving instructors". - Brussels, 16 May 2019





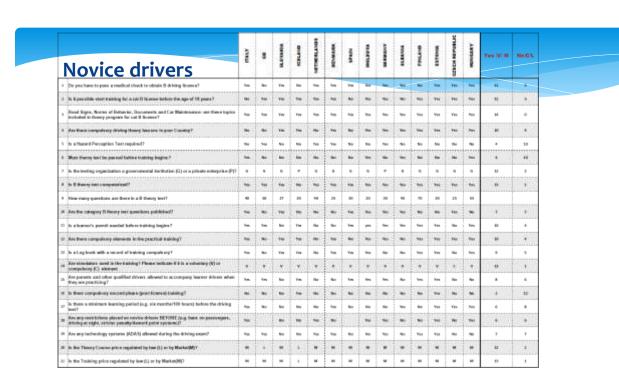
- Move headquarters to Brussels
- Increase cooperation with Universities and Research Centers
- Strengthen collaboration with different Road Safety Associations

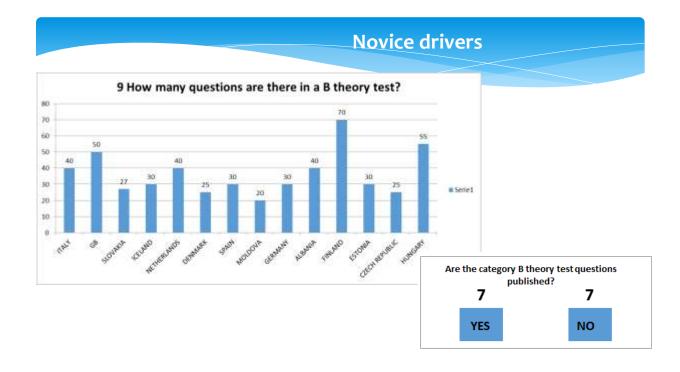
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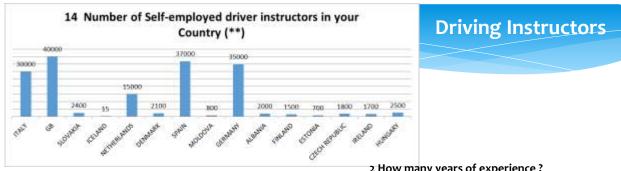


- Define exportable quality standards for Drivers and Driver Instructors
- Develop Road Safety Campaigns to raise user awareness
- Take part of new European Projects

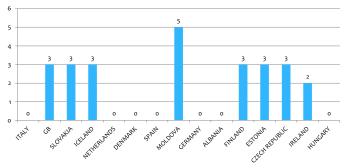




	Oriving Instructors	ITALY	8	SLOVAKIA	ICELAND	NETHERLANDS	DENMARK	SPAIN	MOLDOVA	GERMANY	ALBANIA	FINLAND	ESTONIA	CZECH REPUBLIC	IRELAND	HUNGARY	Yes /V/G	No/C/8
1	Minimum age to become driving instructors	24	21	25	21	18	24	20	23	21	30	21	21	24	19,5	23		
2	Is a secondary school diploma requested to become instructor?	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	10	5
3	How many years of experience ?	0	3	3	3	0	0	0	5	0	0	3	3	3	2	0		
4	Is a periodic health check foreseen?	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No	2	13
5	Is the Instructors training voluntary (V) or compulsory (C) ?	С	v	С	С	v	С	С	С	С	С	٧	С	С	V	С	4	11
6	Do you have to pass any exam?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	15	0
7	Is the education of driving instructors teachers general (G) or specific (S)?	G	G	s	G	G	s	s	G	G	s	G	s	G	G	s	9	6
8	Is it allowed to use a simulator for driving instructors initial training?	No	Yes	No	No	Yes	Yes	No	No	Yes	No	No	Yes	No	No	Yes	6	9
9	As a driving instructor/ teacher, do you have to attend at periodical training course?	Yes	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes	No	No	Yes	6	9
10	If the answer to the question 9 is "Yes", are driving simulators used in the periodic training?	No		No		$\overline{}$	No	$\overline{}$	$\overline{}$	No		$\overline{}$	Yes		$\overline{}$	No	1	5
11	Do you have to pass any exam to confirm the maintenaince of your skills?	No	Yes	Yes	No	Yes	No	No	Yes	No	No	No	Yes	No	Yes	Yes	7	8
12	if the answer to the question 9 is "No", do you think an updating course is necessary?		Yes	/	Yes	Yes	$\overline{}$	Yes	Yes		Yes	Yes		Yes	Yes		9	0
13	Number of driving schools in your Country	7000	40000	650	200	8000	1200	8300	200	7000	400	500	250	1800	1700	700		
14	Number of Self-employed driver instructors in your Country	30000	40000	2400	15	15000	2100	37000	800	35000	2000	1500	700	1800	1700	2500		
15	Are there specific requirements to open a new driving school in your Country?	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	11	4



2 How many years of experience?



## **Conclusions**

- > The overall approach in Europe is quite different, even if people with a driving license can drive on all the European roads.
- > The use of driving simulators could help for a better training, but without a common approach, the differences in skills acquired will be increased
- > A common approach is needed for autonomous vehicles, too
  - We need indications and suggestions for new standards

### EUROPAISCHE FAHRLEHRER ASSOZIATION INSTITUTO TECNOLÓGICO DE CASTILLA Y LEON ASSOCIAZIONE ITALIANA DEI PROFESSIONISTI PER LA SICUREZZA STRA INSTITUT FRANÇAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS. Autoscuola2000 TALLINN UNIVERSITY EUROPEAN TRANSPORT SAFETY COUNCIL DEGENER Verlag GmbH Tapa Autokool OU ENRIQUE LORCA SANCHEZ JUDr. Ing. Ondrej Horazny Fahrlehrer-Akademie Verkehrs-Institut GmbH

# Pilot Action (including a Summer school)

# ERASMUS+ KA2: Cooperation for innovation and the exchange of good practices Sector Skills Alliances

#### **TRAINEE** proposal

MODULE	Hours	UNITS	VALIDATION			
Antonomous Vehicles	12	U1. Introduction to the Autonomous vehicles and the SAE Classification U2. Overview ICT systems in the autonomous vehicles. Raday, Liday, Infraerd sensors and Artificial intelligence U3. Advantages and limits of the new technologies	Midtiple choice fest			
Road safety and human behaviour	8.0	U4: Road safery issues related to the introduction of Autonomous vehicles U5: Human behaviour and Vulnerable Road Users.	Multiple choice test			
Use of advanced driving simulators	16	U6: The transitional period towards a wale deployment of AVs (See Level 4) how to deal with an evolving mixed traffic.  U7: The use of driving simulators for an advanced drivers training.	Multiple choice test			