



National Technical University of Athens
Road Safety Observatory

www.nrso.ntua.gr

Workshop:

Digitalisation

**and Road Safety
Research**

Friday

17

May

2019

at 14:00

**FIFTH UNITED NATIONS GLOBAL ROAD
SAFETY WEEK**

6-12 May 2019



Save Lives

#SpeakUp

Safety skills of future transportation professionals



Dr. Christina Plati

Assistant Professor, NTUA

Together with:

Maria Pomoni, Alexandra Laiou, George Yannis

The SKILLFUL project

www.skillfulproject.eu

➤ Framework Programme:

- Horizon 2020 - The EU Union Framework Programme for Research and Innovation – Mobility for Growth

➤ Duration of the project:

- 36 months (October 2016 – October 2019)



➤ Objective:

- To identify skills and competences needed by the future Transport workforce and define the appropriate training methods and tools to meet them

➤ In cooperation with FEHRL:

- Forum of European National Highway Research Laboratories
- FEHRL has developed a longer term Vision of both the future of roads and the research needed to support their development and operation



SKILLFUL project partnership



Background

- The Transportation sector employs **over 10 million persons** in the EU today.
- While, transport is rapidly developing, changing and being influenced to the maximum extent by automation, electrification and greening of transport, facing problems in staffing its several domains with **appropriate and qualified personnel**.
- This fact makes the **need for changes in training and education** content, curricula, tools and methodologies absolutely imperative, incorporating lifelong learning aspects for the professionals in all transports areas.



Research Questions

- To critically review **the existing, emerging and future knowledge and skills requirements of workers** at all levels in the transportation sector, with emphasis on competences shifters such **as driving safety rules**
- To structure the **key specifications, safety rules and components of the curricula and training courses** that to meet these competence requirements optimally
- To identify and propose **new business roles in the education and training chain**, in particular those of “knowledge aggregator”, “training certifier” and “training promoter”, in order to achieve European wide competence development



Main Deliverables

- Training **courses**, Young Researchers' Seminars
- **Interdisciplinary** thematic courses
- Proposed Curricula **European Masters** in Transportation
- Trainer and trainee **competences** requirements
- **Pilot courses** (e.g. road safety)
- **New business rules** & scenarios in transport sector



Scientific and Social Impact (1/2)

- Development of job descriptions of the future and evaluation of the **necessary skills and abilities**
- **Quantification of the expected benefits** of the proposed novel training education schemes (in terms of usability, usefulness and stakeholders acceptance)
- Emphasis on the skills and competences required to promote **sustainable mobility solutions** (i.e. MaaS, electrification and greening)
- **Promotion of employability** of all current and future workforce



Scientific and Social Impact (2/2)

- **Emphasis on safety**, mobility enhancement and congestion reduction trends and future needs
- Increase knowledge on **driving safety of employees** and young people entering the workforce
- Development of **appropriate skills and competences** acquisition schemes for the future needs of the European Industry
- Focus on **socioeconomic and behavioural issues** leading to best practices, application guidelines and policy recommendations



Future Challenges

- New jobs for covering **emerging new technologies** in transportation and continuous training
- Covering the **gaps between new jobs** and the need for occupation for minorities
- **Keep vacancies for humans** albeit robotics' increase
- **Assist youngster** follow market trends based however on their interest
- **Safety first** at all current and new jobs





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