



Safety skills of future transportation professionals



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The SKILLFUL project

> Framework Programme:

www.skillfulproject.eu

- Horizon 2020 The EU Union Framework Programme for Research and Innovation Mobility for Growth
- Duration of the project:





- 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



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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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