

WP5. - Implementation of the teaching and training process in the field of road infrastructure management

IO.14 - Testing of developed tools and methods with the use of selected software and tools

The task will be carried out under Work Package 5 (WP5. Implementation of the teaching and training process in the field of road infrastructure management). On the basis of materials developed under IO.10 - IO.13, in this task, different forms of classes will be assessed, and additionally the methodology (developed under IO.9) for the assessment of the progress and knowledge of students and trainees will be verified. In particular, the methodologies and materials will be verified in the following:

- lectures (carrying out road safety audit, roadside safety management, safety management of unprotected road users, road surface management),
- fieldwork (roadside safety management, safety management of unprotected road users, road surface management),
- practical classes (carrying out road safety audit, roadside safety management, road surface management),
- design classes (roadside safety management, safety management of unprotected road users, road surface management),
- laboratory classes (road surface management).

The planned outcome of the task will be the development of recommendations for necessary changes in the content of digital teaching and training materials for remote education in the field of road safety management, with the support of road infrastructure safety management tools and in the methodology of conducting these classes.

Target groups:

1. Research and teaching staff from institutions involved in the project and ultimately other European institutions.
2. Students of civil and transportation engineering.
3. Road authority staff

Innovative elements:

1. Testing of innovative methods to support remote teaching in road infrastructure management, with assessment of knowledge of students and trainees.
2. Assessment of the suitability of road infrastructure safety management tools during test sessions with students and road authority staff.

Expected impact:

The implementation of the task is necessary for verification of the developed methods and educational resources. The conclusions of the implementation of the task will enable the implementation of IO. 15.

Transferability potential:

The outcomes of the task are used only for the implementation of the next stages of the project; therefore, they will not be transferred outside the partner institutions involved in the project.

The division of work:

The work will be divided among all consortium participants and will include:

- Testing of educational materials and methods of distance learning in the form of lectures, field research, design and practicals.
- Evaluation of progress and knowledge of participants of remote classes.
- Development of recommendations for the modification of materials and methods of remote education.

The tasks leading to the production of the intellectual output:

The leading institution (UC) will be responsible for supervising the verification of the teaching and training materials and methods of remote education and development of detailed recommendations for the necessary modifications. Other consortium participants (apart from AAU) will cooperate in the testing of developed resources and analysis of the results of feedback from the participants. Under the IO.14 the necessary scope and detailed division of work will be defined.

Applied methodology:

As part of this task, pilot didactic classes with the participation of lecturers, students and road authority staff will be carried out. All forms of remote teaching will be carried out (lectures, field classes, practicals, laboratories and design). Additionally, the knowledge of students and staff acquired during the classes will be verified. On this basis, recommendations will be developed regarding the necessary changes in the distance learning methodology and content of the resources.