

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

IO.15 - Modification of methodology and educational materials

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). Based on the recommendations developed under IO.14, the task will include modification of teaching and training materials, and the methodology of remote classes in the field of road infrastructure management.

The planned outcomes of the task will be the development of final products of digital educational resources for remote education in the field of road infrastructure management, with the support of tools for managing the safety of road infrastructure and in the methodology of conducting these classes. Based on these results, IO.16 will be implemented (Development of a handbook for remote education in road infrastructure management).

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 at a national, local and regional level.

Innovative elements:

1. Modified methodology for the implementation of the teaching and training process in a remote form, using innovative methods of knowledge transfer and verification of skills of students and road authority staff.
2. Assessment of the suitability of road infrastructure safety management tools during test sessions with students and road authority staff.

Expected impact:

The developed resources can be applied in the teaching (for students) and training (for road infrastructure management) throughout Europe. An innovative approach to distance learning in the field of road infrastructure management, using support methods and tools, will significantly increase the quality of teaching and training when it is necessary to employ remote education.

Transferability potential:

The teaching and training materials developed for the remote teaching process in road infrastructure management will be made available on an online platform for the use of research centres and road authorities across Europe.

The division of work:

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

- Modification of educational materials and methodology of distance learning in the form of lectures, field research, design and practicals.
- Modification of the methodology of remote classes.

The tasks leading to the production of the intellectual output:

The leading institution (AAU) will be responsible for supervising the modification of teaching and training resources and remote education methodology. Other consortium participants (apart from UC) will cooperate in the modification of the resources and methodology, exchanging their expertise. Under the IO.15 the necessary scope and detailed division of work will be defined.

Applied methodology:

As part of this task, final products dedicated to all forms of remote teaching (lectures, field classes, practicals, laboratories and design) will be developed. In addition, the methodology of verification of the knowledge of students and staff will be modified.