



## Seminar Announcement

18 novembre 2024 ore 11:30-13:30 – Aula DICEA-150/stra

### **The roadway safety management process: the network-wide road safety assessment and the safety effectiveness evaluation**

Prof. Emiliano Pasquini

Professore Associato

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Emiliano Pasquini is an associate professor of road, railway and airport engineering at the Department of Civil, Environmental and Architectural Engineering (ICEA) of the University of Padua (Italy). He got his PhD in structures and infrastructures at the Università Politecnica delle Marche (Italy) in 2009.

He did more than 40 oral presentations and invited lectures at national and international events obtaining two scientific research awards for best papers at national and international conferences. He is co-Author of 2 books and more than 100 papers in national and international journals and conferences (Scopus citation metrics: 71 publications, 1183 citations, H-index 20).

He is a member of the Editorial Advisory Committee of the journal "Materials and Structures" and he served as Guest Editor of a Special Issue for the indexed International Journal "Infrastructures" and as Editor of the Book "Valorisation of Waste and Secondary Materials for Roads. State-of-the-Art Report of the RILEM TC 279-WMR".

The seminar will address two fundamental aspects related to the roadway safety management process: the network-wide road safety assessment and the safety effectiveness evaluation.

The first activity undertaken in a cyclical roadway safety management is the network screening which is a process for reviewing a transportation network to identify and rank sites from most likely to least likely to realize a reduction in crash frequency with implementation of a countermeasure. So far, such a network-wide road safety assessment has been mainly implemented using reactive approaches, i.e., ex-post evaluation based on crash occurrence analysis. However, due to crash data limitations (availability, accuracy, randomness, timeliness, etc.), proactive approaches (i.e., ex-ante evaluation based on in-built design characteristics of the road) are gaining interest also at network level and currently demanded by the European legislation.

Safety effectiveness evaluation is the last step of the management process and generically consists of an assessment of how crash frequency or severity has changed due to a specific treatment or a set of treatments or projects. Properly evaluating the effectiveness of implemented safety treatments is an important step in the overall safety management process since it allows assessing how well funds have been invested in safety improvements decisively influence future decision-making activities related to effective treatment definition and allocation of funds.

***PhD students and interested people are invited to attend the seminar***

This activity is part of the 2023/27 "Dipartimento di Eccellenza" project of DICEA

#### **SEDE**

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#### **CONTATTI**

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