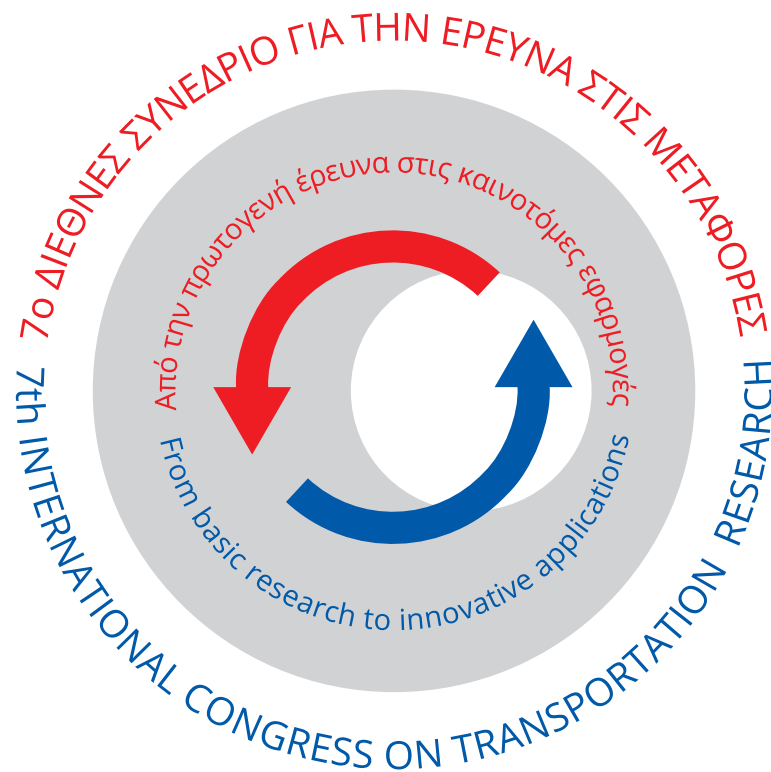


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7ο ΣΥΝΕΔΡΙΟ ΓΙΑ ΤΗΝ ΕΡΕΥΝΑ ΣΤΙΣ ΜΕΤΑΦΟΡΕΣ  
Από την πρωτογενή έρευνα στις καινοτόμες εφαρμογές

7th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH  
From basic research to innovative applications

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**5 & 6**

of **NOVEMBER 2015**

AMPHITHEATER  
Ministry of Infrastructure, Transport and Networks

[www.ictr.gr](http://www.ictr.gr)

**PROGRAM**



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΝΑΠΤΥΞΗΣ  
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ΣΥΛΛΟΓΟΣ ΕΛΛΗΝΩΝ ΣΥΓΚΟΙΝΩΝΙΟΛΟΓΩΝ  
HELLENIC INSTITUTE OF TRANSPORTATION ENGINEERS

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**ADDRESS BY THE CHAIRMAN OF THE SCIENTIFIC COMMITTEE**

*The 7th International Congress on Transportation Research in Greece (ICTR 2015) proves once more that the Greek research and scientific personnel along with a large number of agencies and firms from the public and private sectors, is successfully involved in research and technological development as well as in innovative applications in the Transport sector, often beyond its expected capabilities. The high quality and the wide range of the content of the submitted papers in this conference are the undeniable witnesses of this reality. The same applies to the papers submitted by the young researches covering 25% of the total submissions. The young researchers participate as a distinct category for the second consecutive time in this conference demonstrating their potential and the prospects of this new generation.*

*Personally, I feel quite honoured and happy that I was part of the conference organising team and responsible for the programme; an event that is organized since 2002 by the Hellenic Institute for Transport (HIT) of the Centre for Research and Technology Hellas (CERTH) and the Hellenic Institute of Transportations Engineers (HITE). I also feel quite pleased and satisfied that I was able to cooperate with a large number of important and meritorious colleagues and associates for a common goal, that of another successful conference on Transport Research in a really difficult era in any aspect. I would like to deeply thank them all; without their contribution this event wouldn't be possible.*

*Finally, I must say that this event is special for another important reason; the two organising institutes will honour the initiator of the HIT/CERTH establishment and also founder of the ICTR series, emeritus Professor and member of the Athens Academy Dr George Giannopoulos. This honorary award comes as a distinction for his long lasting, continuous and high level contribution to the Transport Engineering science and to the Transport Research community.*

*I truly believe that the conference participants, regardless of their role, will have the opportunity to attend presentations of high level as well as to discuss and to exchange views in the scientific areas of their interest. The presence of Dr Vito Mauro from Italy who will make the keynote speech entitled "From research to applications: the ITS experience" will be an additional stimulus for the audience and will add extra value to this event.*

*I wish you a fruitful and unforgettable two-day event.*

*Sincerely,*

Prof. Panos Papaioannou  
Professor of the Aristotle University of Thessaloniki  
Chairman of the Scientific Committee

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**ADDRESS BY THE CHAIRMAN OF THE ORGANISING COMMITTEE**

*The 7th International Congress on Transportation Research (ICTR 2015), co-organised by the Hellenic Institute of Transportation Engineers (HITE) and the Hellenic Institute of Transport (HIT) of the Centre for Research and Technology Hellas (CERTH), continues the tradition of the previous congresses and it has been established as the benchmark for the research in transportation in Greece. It consists a significant milestone in the modern research in the transport sector in Greece and it is addressed to all members of the scientific community as well as to the agencies of all levels of policy making.*

*In a period of steep economic crisis and limited funding allocated for research and development (the relevant expenditures as a percentage of the national GDP in 2013 was 0,78%, when the respective percentage at an EU level reached 2%), the Greek scientists and researchers prove that research and innovation can play a significant role in the technological evolution and scientific progress, two crucial elements for the economic recovery of Greece. The transport sector consists a basic pillar of economic development; therefore novel applications based on outstanding research results are of particular importance. For this reason, the central theme of this congress "From basic research to innovative applications" is very important.*

*With my capacity as Chairman of the ICTR 2015 Organising Committee I would like to thank all members of the Committee for their cooperation and devotion so that another International Congress on Transportation Research is successful. Furthermore, I would like to thank the Ministry of Infrastructure, Transport and Networks that gave us the Conference Hall, the reviewers and sponsors for their support. I am confident that this event will continue the tradition created by the six previous congresses.*

*I wish success to the congress' activities.*

*Sincerely,*

Yannis Tyrinopoulos  
Assistant Professor of the Technological Educational Institute of Athens  
Chairman of the Organising Committee

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## SCIENTIFIC COMMITTEE

Papaioannou Panagiotis, President of the SC, Aristotle University of Thessaloniki  
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Vogiatzis Konstantinos, University of Thessaly

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Kortsari Anna, Hellenic Institute of Transport, Representative of HIT  
Mavroei Maria, Athens International Airport, Representative of HITE  
Papaioannou Panagiotis (ex officio), Aristotle University of Thessaloniki, Representative of HIT  
Sdoukopoulos Lefteris, Hellenic Institute of Transport, Representative of HIT

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# C O N F E R E N C E P R O G R A M

## THURSDAY, 5 NOVEMBER 2015

- 9:00 – 9:30**      **Welcome - Registration**
- 9.30 – 11.30**    **Special Session: Theses presentation of young researchers**  
Chair: C. Antoniou – Y. Tyrinopoulos
- 11:30 – 12:00**    **Coffee Break**
- 12:00 -13:00**    **Greetings**  
**Honorary award ceremony for Professor G.A. Giannopoulos**  
Chair: P. Papaioannou
- 13:00 – 13:45**    **Keynote Speech**  
*From research to applications: the ITS experience.*  
Vito Mauro
- 13:45 – 14:30**    **Lunch Break**
- 14:30 – 16:00**    **Session A: Urban Mobility: Theory and Applications**  
Chair: A. Stathopoulos - C. Pirgidis  
**3. Alternative-collective patterns of ownership and use of passenger cars in the city.**  
Ioanna Palanta and Christos Taxiltaris  
**31. Traffic Calming measures: Users' Level of acceptance development through time.**  
Panagiotis Iordanopoulos, Katerina Chrysostomou and Evangelos Mitsakis  
**10. Evaluation Methodology for bikeway characteristics in a mid-size city in Greece.**  
Athanasios Galanis, Pantelis Kopelias, Evangelos Bourazanis, Ioannis Kaltsas and Nikolaos Eliou  
**57. Impacts of the economic crisis on mode choice and trip frequency of urban transport systems.**  
Apostolos Papagiannakis, Giannis Baraklianos and Alexia Spyridonidou  
**54. Attitudinal survey for the urban maritime transport in the city of Thessaloniki, Greece.**  
Alexandros Dolianitis, Socrates Basbas, Magda Pitsiava-Latinopoulou, George Mintsis and Ioannis Politis
- 16:00 – 16:30**    **Coffee Break**
- 16:30 – 18:00**    **Session B: Issues in Transport Policy and Economics**  
Chair: E. Sambracos – I. Golias  
**34. The future of transport in Europe: Addressing the Challenges.**  
Maria Boile, Aggelos Aggelakakis, Anestis Papanikolaou and Alkiviadis Tromaras  
**66. Investigation of application of the "Value Capture" method for financing the Thessaloniki metro: the case of enterprises.**  
Andreas Nikiforiadis, Anastasia Roukouni, Socrates Basbas, George Mintsis and Christos Taxiltaris  
**80. Peak Car Effects on Scheme Appraisal.**  
Christina Spiliopoulou and Constantinos Antoniou  
**45. A Multivariate Probit Model for Analyzing Travelers' Choice of Airline Carrier.**  
Christina Milioti, Matthew Karlaftist and Eleni Akkogiounoglou  
**81. Highway Infrastructure Investment and Economic Growth at the MSA Level; Accounting for Spillover Effects.**  
Eirini Kastrouni, Xiang He and Lei Zhang

**56. Locational determinants of birth and death of business establishments and their relationship to highway networks.**

Srinath Ravulaparthi, Ioannis Tsouros and Konstadinos Goulias

**11:30 – 14:30 Parallel Poster Session A: Research Theses**

**11. A Model for the Supply Vehicle Routing Problem with Route Time Balancing.**

Theologia Moustaka, Konstantinos Kepaptsoglou, Nikolaos Lagaros and Matthew Karlaftist

**12. Regional rail connection between Thessaloniki and Larissa. Evaluation of the current situation and proposals for the improvement of the level of service provided.**

Nikoleta Tsougeni and Christos Pyrgidis

**13. Catenary Free Power Supply Systems for Tramways - Comparative Assessment.**

Rafail Katkadigkas and Christos Pyrgidis

**14. Multivariate Statistical Methods for explaining Powered Two Wheelers' Traffic in Urban Arterials.**

Paraskevi Katachanaki, Emmanouil Barmponakis, Eleni Vlahogianni and John Golias

**17. Evaluation of Congestion Pricing Policies on Urban Road Network's Traffic.**

Lampros Alexandros Papadoulis, Ilias Gkotsis, Eleni Vlahogianni, Konstantinos Kepaptsoglou, John Golias and Christina Milioti

**21. The investigation of exogenous influences on public transport performance.**

Georgios Georgiadis and Panagiotis Papaioannou

**25. Soft mobility scenarios for a sustainable city.**

Stella Strataki

**27. Comparative assessment of road infrastructure sustainability rating systems.**

Evdokia Iliadou, Nikolaos Eliou and Alexandros Zouros

**36. Game-theoretical Investigation of Supply and Demand in Aviation Markets.**

Ioanna Pagoni and Voula Psaraki-Kalouptsidi

**37. Optimal detour choice in an urban freeway.**

Vyronas Sarantidis, Pantelis Kopelias, Nikolaos Eliou and Eleni Tyrogianni

**38. Effect of vehicle collision type on road accident severity in Greece.**

George Yannis, Panagiotis Papantoniou and Olga Reitzopoulou

**15:00 – 18:00 Parallel Poster Session B: Research Theses**

**40. Applications of laser scanning technologies in transport operations.**

Ioulia Markou, Constantinos Antoniou, Maria Tsakiri and Andreas Georgopoulos

**44. Evaluation of Roadside Wrong-way Warning Systems with Different Type of Sensors.**

Jian Xing

**46. Comparison of macroscopic and microscopic emission estimation approaches in the evaluation of ITS.**

Sokratis Mamarikas, Evangelos Mintsis, Evangelos Mitsakis and Josep Maria Salanova Grau

**47. Influencing factors of pedestrian velocity under constraints.**

George Kouskoulis and Constantinos Antoniou

**49. Developing a Sustainable Mobility Plan in Piraeus with Special Emphasis on Cycling.**

Efthimios Bakogiannis, Avgi Vassi, Maria Siti and Georgia Christodouloupoulou

**67. GPS Data Collection for Active Transport Modes and Design of Real Life Experiments.**

Ioannis Tsouros, Amalia Polydoropoulou and Konstadinos Goulias

**68. Rhythms in Urban and Island Areas: Does Lifestyle Affect Daily Dynamics?**

Ioannis Tsouros, Amalia Polydoropoulou, Konstadinos Goulias and Athena Tsirimpa

**71. Development of a Methodological Framework for Predicting Containers' Dwell Time in Marine Container Terminals – First Results.**

Ioanna Kourouniotti, Amalia Polydoropoulou and Xristos Tsiklidis

**72. Travel Behaviour Change via Social Marketing interventions.**

Foteini Mikiki, Panagiotis Papaioannou and Andreas Oikonomou

**73. Analysis of Preferences for the Use of Bicycling Sharing System in Athens.**

George Yannis, Panagiotis Papantoniou, Eleonora Papadimitriou and Athina Tsolaki

**18:00 – 20:00 Cocktail**

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**FRIDAY, 6 NOVEMBER 2015****9:00 – 11:00****Session C: Research and Applications in Road Safety**

Chair: G. Yannis – V. Halkias

**2. Investigation of the degree of implementation of the International Standard ISO 39001:2012 for the management of road safety.**

Ilias Keppas and Yannis Tyrinopoulos

**5. Methodology for the analysis of the interurban road network in the context of integrated seismic risk management.**

Nikolaos Gavanas, Alexandros Sdoukopoulos, Anastasios Tsakalidis and Magda Pitsiava-Latinopoulou

**16. Pilot implementation of e-Call system in Greece.**

George Patsiavos, Sofia Papatathanasopoulou, Panagiotis Papaspiliopoulos, Dimitris Margaritis, Alexander Stathacopoulos, Evangelia Portouli and Aikaterini Pagle

**23. Investigation of motorcycle riders' behavior on rural roads' junctions.**

Panagiotis Lemonakis, Nikolaos Eliou and George Botzoris

**28. Development of an Educational Scheme for Road Safety Auditors in Greece.**

Sophia Vardaki, Anastasios Dragomanovits, Evangelia Gaitanidou, Evangelos Bekiaris and George Kanellaidis

**79. Spatial road safety modeling leveraging crowd-sourced publicly available geographic data.**

Loukas Dimitriou, Dimitrios Efthymiou and Constantinos Antoniou

**11:00 – 11:30****Coffee Break****11:30 -12:30****Intervention by Ms P. Perka, General Secretary for Transport****Sponsors Speeches****Initiatives for the establishment of an integrated network of toll highways in Greece.**

Vasilis Halkias

**New Technologies for Road Safety: Shotblasting.**

A. Spondylidis, E. Kokkinakis

**Award of young researchers****12:30 – 13:45****Session D: Environment and Energy in Transport**

Chair: K. Vogiatzis - E. Bekiaris

**6. Comparison of population exposure results at airport noise zones using different noise prediction softwares (INM, IMMI/CadnaA) in the framework of the Corfu strategic noise map.**

Konstantinos Vogiatzis, Charalampos Antoniadis, Pantelis Kopelias and Eleni Misokefalou

**32. Impact of light conditions on traffic flow.**

Charalampia Lagou and Ioanna Spyropoulou

**65. Electric Vehicles Charging Infrastructure Location: A Genetic Algorithm Approach.**

Dimitrios Efthymiou, Katerina Chrysostomou, Maria Morfoulaki and Georgia Aifantopoulou

**30. Evaluation of positive & negative effects from the use of anti-noise barriers as a mitigation measure for road traffic environmental noise.**

Konstantinos Vogiatzis, Nikolaos Eliou, Pantelis Kopelias, Eleni Misokefalou and Charalampos Antoniadis

**35. Effects of C-ITS on the Environmental Footprint of Vehicular traffic at Signalized Intersections.**

Evangelos Mintsis, Josep-Maria Salanova Grau, Evangelos Mitsakis and Georgia Aifantopoulou

**13:45 – 14:30****Lunch Break**

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- 14:30 – 16:15**    **Session E: Policy, Management and Operational aspects in Mobility**  
 Chair: G. Aifantopoulou – N. Eliou  
**8. The exploitation of a controlled parking system in the Municipality of Thessaloniki. Calculating the impacts of alternative parking pricing policies and estimating scenarios.**  
 Maria Morfoulaki, Kornilia Kotoula and Glikeria Myrovali  
**26. Simulation-based evaluation of evacuation effectiveness using sensitivity analysis**  
 Margarita Kostovasili and Constantinos Antoniou  
**52. Assessment of LOS at pedestrian streets and qualitative factors. A pedestrians' perception approach.**  
 Olga Lazou, Aggeliki Sakelariou, Socrates Basbas, Evangelos Paschalidis and Ioannis Politis  
**53. Efficient Management of parking under constraints.**  
 Vasileia Papathanasopoulou, Ioulia Markou, Constantinos Antoniou, Vassilis Gikas, Athanasios Mpimis, Haris Perakis and George Yannis  
**75. Policies for Enhancing Mobility in Academic Campuses: The case of CERN**  
 Athena Tsimpa, Ilias Gkotsis, Konstantinos Kepaptsoglou, Eleni Vlahogianni, Amalia Polydoropoulou and Matthew Karlaftist  
**41. A Holistic Approach of the Correlation between GDP and Air Transport through Panel Data Analysis.**  
 Vassilios Profillidis, George Botzoris and Stylianos Taxidis
- 16:15 – 16:30**    **Coffee Break**
- 16:30 – 18:00**    **Session F: Methodological aspects and applications in Freight and Logistics in Transport**  
 Chair: A. Ballis – M. Boile  
**63. Capitalization of MED projects' outcomes: recommendations for integrating project outcomes into policy frameworks.**  
 Konstantinos Papoutsis, Eliza Gagatsi, Georgia Aifantopoulou and Panagiotis Tzenos  
**69. Multi-stakeholder Assessment of Smart Solution in Urban-Interurban Freight Transportation Interfaces.**  
 Eftichia Nathanail, Michael Gogas and Konstantinos Papoutsis  
**78. Advanced Cargo Transport Information Services Platform.**  
 Eleftherios Sdoukopoulos, Afroditi Anagnostopoulou, Maria Boile, Konstantinos Rikkou, Sotirios Theofanis, Christos Georgakopoulos, Georgios Voukas, Petros Pallis, Theodora Todi and Georgios Iliadis  
**33. Singular Spectrum Analysis – Hybrid Forecasting Methods with Application to Air Transport Demand.**  
 Kingsley Adjenughwure, Victor Balopoulos and George Botzoris
- 9:00 – 13:00**    **Parallel Poster Session C**  
**4. The Poly-SUMP methodology as a tool for Sustainable Urban Mobility Planning and its application process in the Region of Central Macedonia.**  
 Afroditi Stamelou, Kostas Konstantinou and Irene Tsakiridou  
**7. Fuzzy theory application for the improvement of Optimum Route algorithms.**  
 Konstantinos Mattas, George Botzoris and Basil Papadopoulos  
**9. Factors affecting professional drivers' response to Variable Message Signs.**  
 Maria Pouloupoulou and Ioanna Spyropoulou  
**15. Viability of investments for the development of an electric vehicle charging network in Greece.**  
 Nikiforos Plytas, Dimitris Margaritis and Maria Boile  
**18. Fuzzy Sustainability Assessment of Urban Transportation Vehicle Technologies.**  
 Lambros Mitropoulos and Panos Prevedouros  
**19. Exploring the potential of a Green Freight Intermodal Transport Cluster in South East Europe.**  
 Eliza Gagatsi, Elli Papakosma, Annie Kortsari and Elpida Xenou



**20. Validation of Everscape, the Evacuation Simulator.**

Emmanouil Chaniotakis

**24. Should We Promote Cycle Infrastructure in Athens? - A Total Cost Analysis.**

Alexandros Deloukas

**29. Transportation-related climate change adaption measures.**

Iraklis Stamos, Evangelos Mitsakis and Josep-Maria Salanova

**39. Road Safety Training through a Master Course in Belarus.**

Stergios Mavromatis, Alexandra Laiou, George Yannis, Jo Barnes, Gabriele Giustiniani and Luca Persia

**42. Integrated Urban and Transport Planning in Touristic Areas towards Sustainable Mobility: The case of Rethymno, Crete.**

Konstantinos Athanasopoulos and Thanos Vlastos

**43. Systematic Data Collection from Social Media for Transportation Research.**

Emmanouil Chaniotakis, Constantinos Antoniou and Evangelos Mitsakis

**48. Complex Network Analysis on Transportation Networks.**

Emmanouil Chaniotakis, Evangelos Mitsakis, Josep Maria Salanova Grau and Iraklis Stamos

**13:30 – 18:00****Parallel Poster Session D****50. Modelling intermodal freight flows with combined use of Transtools and Cube Cargo. Case study: freight transport in the logistics chains crossing the Adriatic Sea.**

Fani Hatziiioannidou

**51. Sustainable student mobility in the city of Serres.**

Panagiota Papadopoulou, Foteini Mikiki and Eleftherios Panagiotopoulos

**55. Experimental Evaluation of INS/GYRO Smartphone Sensors for Land Vehicle Navigation: Preliminary Testing and Results.**

Haris Perakis, Thanassis Mpimis, Chis Danezis, Vassilis Gikas and Constantinos Antoniou

**58. Transport Governance Mapping in Thessaloniki, SWOT Analysis and Recommendations.**

Spyros Vougias, Katerina Chrysostomou, Georgia Aifantopoulou and Anastasios Tsakalidis

**59. Stimulating ITS Deployment in Europe: Barriers and Recommendations.**

Maria Chatziathanasiou, Annie Kortsari and Yannis Tyrinopoulos

**60. Integrating city logistics into urban mobility policies.**

Maria Morfoulaki, Foteini Mikiki, Kornilia Maria Kotoula and Glykeria Myrovali

**61. Towards a modern estimate of "value to prevent a fatality" for road crashes in Greece.**

Konstantinos Kostovasilis and Constantinos Antoniou

**62. A Decision Support System for Evaluating the Athens Bus Network Lines.**

Aggelos Gkiokas, Dimitra Katsampi, Eleni Vlahogianni, Konstantinos Kepaptsoglou and Matthew Karlaftist

**64. Investigation of issues for improving energy consumption and environmental impacts in rail freight transport.**

Athanasios Ballis, Tatiana Moschovou and Eleni Tournaki

**70. Assisting Transit Operators in Designing Sustainable Bus Route Networks.**

Yannis Tyrinopoulos, Moschoula Pternea, Konstantinos Kepaptsoglou, Dimitrios Kosmopoulos, Markos Papageorgiou and Ioannis Papamichail

**74. Development of a National City Network for Sustainable Urban Mobility Plans: Problems and perspectives.**

Ioannis Politis, Panagiotis Papaioannou and Anastasia Nikolaidou

**76. How does socio-economic status affect the use of CRS and seat belts? Preliminary results from a study in Athens.**

Ioanna Armouti, Constantinos Antoniou and George Yannis

**77. Critical changes in road safety during economic recession. A comparison between Greece and the USA.**

Alexandros Skampardonis and Pantelis Kopelias

**82. The iRAP standardized protocols as a tool for infrastructure road safety inspections: the NR6 I/C Velestino (A1) - Volos road section example.**

Evangelos Bellos, Stelios Efstathiadis and Steve Lawson

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# HELLASTRON



## Γιατί αξίζουμε οδικές υποδομές ποιότητας για μια καλύτερη ζωή

Οι σύγχρονες οδικές υποδομές που κατασκευάστηκαν και λειτουργούν στη χώρα μας, άλλαξαν το χάρτη και την ποιότητα των μετακινήσεών μας. Παράλληλα, το Εθνικό Οδικό Δίκτυο επεκτείνεται και αναβαθμίζεται. Για τη διασφάλιση της βέλτιστης λειτουργίας και της ποιότητας των παρεχόμενων υπηρεσιών τους, οι αυτοκινητόδρομοι και υποδομές με διόδια που λειτουργούν στην Ελλάδα δημιούργησαν τον νέο φορέα, «Ελληνικές Υποδομές και Οδοί με Διόδια» με τον διακριτικό τίτλο "HELLASTRON" (HELLENIC ASSOCIATION of TOLL ROAD NETWORK). Αυστηρά μη κερδοσκοπικός, ο νέος φορέας ξεκινά να υπηρετεί τον τεχνοκρατικό και συμβουλευτικό του ρόλο, με στόχο την προώθηση της ποιότητας των οδικών μεταφορών προς όφελος όλων μας.



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Με τη συμμετοχή των:

