

# ICTS 2024

## 21<sup>st</sup> International Conference on Transport Science

20<sup>th</sup> and 21<sup>st</sup> May, 2024, Portorož, Slovenia

### CERTIFICATE

that the paper titled

#### CONSUMER PREFERENCES FOR AUTONOMOUS VEHICLES: A LITERATURE REVIEW

written by

**Adam Torok and Mohammad Maghrour Zefre**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

The conference was organised by:  
Slovene Association of Transport Sciences  
The University of Ljubljana, Faculty of Maritime Studies and Transport  
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Prof. Elen Twrdy



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### CERTIFICATE

that the paper titled

#### **POLICY IMPLICATIONS OF THE “CORPORATE SUSTAINABILITY DUE DILIGENCE DIRECTIVE” IN THE INDUSTRY OF LOGISTICS**

written by

**Afroditi Anagnostopoulou**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### **MODELLING OF VESSEL TRAFFIC FLOW NEAR THE VICINITY OF OFFSHORE WIND FARMS BASED ON AIS DATA**

written by

**Agnieszka Nowy**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### ROAD FORCE SENSOR FOR VEHICLE GRIP ESTIMATION AND ROAD MONITORING DEVICES VERIFICATION

written by

**Alex Coiret and Pierre-Olivier Vandanjon**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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### CERTIFICATE

that the paper titled

#### SECURITY OF CENTRAL WAREHOUSES

written by

**Amel Kosovac, Ermin Muharemović and Adisa Medić**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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### CERTIFICATE

that the paper titled

**SIMULATION MODEL OF THE HIGH-SPEED BOAT**

written by

**Andrzej Grządziela and Stanisław Hożyń**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### CIVIL AVIATION SECURITY AND THE ECONOMY

written by

**Anja Stamenić, Olja Čokorilo, Jelica Petrović Vujačić and Nebojša Radojković**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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#### ADRIATIC PORTS IN THE EVOLVING DYNAMICS OF THE MEDITERRANEAN MARITIME LANDSCAPE

written by

**Arnaud Serry, Ronan Kerbiriou and Yann Alix**

was presented at the ICTS 2024 -  
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that the paper titled

#### INVESTIGATION OF METHANOL AS LONG-TERM ENERGY EFFICIENCY SOLUTION FOR MARITIME DECARBONIZATION IN CONTAINER VESSELS

written by

**Attila Akac, Afroditi Anagnostopoulou and Vassilios Kappatos**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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#### EFFICIENCY OF ECDIS TYPE SPECIFIC EDUCATION AND TRAINING

written by

**Blagovest Belev and Dimitar Komitov**

was presented at the ICTS 2024 -  
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**ADMIRAL'S MULTIMODAL DIGITAL MARKETPLACE IN THE  
LOGISTICS INDUSTRY: ADDRESSING CORPORATE  
SUSTAINABLE DEVELOPMENT REPORTING DIRECTIVE (CSRD)**

written by

**Blaž Luin, Patricija Bajec, Vivien Lorenčič, Marina Zanne,  
Danijela Tuljak-Suban and Elen Twrdy**

was presented at the ICTS 2024 -  
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that the paper titled

#### **AI-BASED TRAFFIC CONTROL AND MANAGEMENT SYSTEMS A SYNTHESIS OF MACEDONIAN RESEARCH EXPERIENCES**

written by

**Daniela Koltovska Nechoska, Renata Petrevska Nechkoska,  
Renata Duma and Mimoza Bogdanovska Jovanovska**

was presented at the ICTS 2024 -  
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that the paper titled

#### IMPORTANCE OF ENVIRONMENTAL FACTORS IN COASTAL VULNERABILITY IN NORTHERN ADRIATIC

written by

**Danijela Tuljak-Suban, Urban Pegan, Vinko Bandelj, Jure Demšar,  
Marko Perkovič and Valter Suban**

was presented at the ICTS 2024 -  
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**THE MARITIME SAFETY PARADIGM: INTEGRATING  
BIOMETRIC READINGS WITHIN THE SHIP'S BRIDGE  
INFRASTRUCTURE, INVOLVING VDES SYSTEMS**

written by

**Dejan Žagar and Franc Dimc**

was presented at the ICTS 2024 -  
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that the paper titled

**MAY INFO-MOBILITY SOLUTIONS CONTRIBUTE TO  
INCREASE SUSTAINABLE TRANSPORT CONNECTIVITY?  
LESSONS LEARNED FROM E-CHAIN PROJECT**

written by

**Elisa Maria Vittoria Bertolini, Caterina Caramuta, Lorenzo  
Castelli, Giovanni Longo and Caterina Vidulli**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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that the paper titled

#### IMPACT ASSESSMENT OF EXTERNAL FACTORS ON THE CONSTANT RADIUS TURN TECHNIQUE IN THE CALCULATION OF WHEEL OVER POINT

written by

**Ivica Skoko, Mario Musulin, Hrvoje Nenad Musulin and  
Zlatko Boko**

was presented at the ICTS 2024 -  
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**PROMOTING SAFER AND MORE SUSTAINABLE URBAN  
MOBILITY: EXPLORING REDUCED SPEED LIMITS FOR  
IMPROVED ROAD SAFETY IN URBAN ENVIRONMENTS**

written by

**Julijan Jurak, Mario Ćosić, Antonijo Tišljar and Ivan Nemet**

was presented at the ICTS 2024 -  
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that the paper titled

#### DETERMINATION OF CRITERIA FOR STRENGTHENING THE MULTIMODAL CONNECTIVITY OF AIRPORTS

written by

**Jure Šarić, Igor Štimac, Martin Starčević and Borna Abramović**

was presented at the ICTS 2024 -  
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that the paper titled

#### **SMALL CRAFT PORT DESIGN IN SLOVENIA**

written by

**Jure Srše, Marko Perkovič, Peter Vidmar, Andrej Androjna and  
Tanja Brcko Satler**

was presented at the ICTS 2024 -  
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### CERTIFICATE

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#### ENVIRONMENTAL IMPACT ASSESSMENT PROCEDURE IN TRANSPORT CONSTRUCTION PROJECTS

written by

**Lidija Runko Luttenberger, Ivica Ančić and Axel Luttenberger**

was presented at the ICTS 2024 -  
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that the paper titled

#### **SEA MINES IN THE ADRIATIC SEA; THE ASYMETRICS THREAT**

written by

**Luka Mihanović, Ivona Balić Dorić, Ante Sršen and Dražen Brkić**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### USING RECURRENT NEURAL NETWORKS TO BUILD A DATA-DRIVEN MODEL OF AN AUTONOMOUS UNDERWATER VEHICLE

written by

**Maciej Szymkowiak**

was presented at the ICTS 2024 -  
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that the paper titled

#### SMART SEGMENTATION IN TRAM TRACK GEOMETRY ANALYSIS

written by

**Maja Ahac, Igor Majstorović, Saša Ahac and Stjepan Lakušić**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### **SONAR HANDLING AND DATA FILTERING SYSTEM FOR THE DETECTION OF OBJECTS BY AN UNDERWATER VEHICLE**

written by

**Maksymilian Wrzesień and Jakub Stalica**

was presented at the ICTS 2024 -  
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### CERTIFICATE

that the paper titled

#### AUGMENTED REALITY TECHNOLOGIES APPLICATION IN THE WAREHOUSE SYSTEM

written by

**Margareta Živičnjak, Kristijan Rogić and Ivona Bajor**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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### CERTIFICATE

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#### **LIMITING GREENHOUSE GAS EMISSIONS IN THE MARITIME TRANSPORT SECTOR**

written by

**Marin Hero, Peter Vidmar, Patrick Vlačič and Marko Perkovič**

was presented at the ICTS 2024 -  
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#### **INFLUENCE OF ALCOHOL ON YOUNG DRIVERS' PERFORMANCE: A DRIVING SIMULATOR STUDY**

written by

**Marin Žunac, Marija Ferko, Darko Babić and Mario Fiolić**

was presented at the ICTS 2024 -  
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that the paper titled

#### **MARITIME PASSENGER TRANSPORT CONNECTING URBAN AREAS: THE CASE STUDY OF CATANIA BASED ON TRIESTE EXPERIENCE**

written by

**Marina Zanne, Elen Twrdy, Bojan Beškovnik, Elena Cocuzza,  
Michela Le Pira and Matteo Ignaccolo**

was presented at the ICTS 2024 -  
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#### ENVIRONMENTAL DYNAMIC OF PORT CONGESTION IN EXTRAORDINARY SITUATIONS: A STUDY OF IMPACTS IN LUKA KOPER

written by

**Marko Golnar and Bojan Beškovnik**

was presented at the ICTS 2024 -  
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#### **BREAKAWAY OF LARGE UNEVENLY LOADED CONTAINER SHIPS**

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**Marko Perkovič, Milan Batista, Maciej Gucma and Peter Vidmar**

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#### THE POTENTIAL AND IMPORTANCE OF ENVIRONMENTAL INCENTIVES IN E-COMMERCE

written by

**Marko Veličković, Đurđica Stojanović and Katarina Knežević**

was presented at the ICTS 2024 -  
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that the paper titled

#### **EFFICIENCY OF CONTAINER PORTS: COMPARISON OF ITALIAN AND OTHER ADRIATIC PORTS USING NON- RADIAL DEA**

written by

**Mozhgan Mansouri Kaleibar and Evelin Krmac**

was presented at the ICTS 2024 -  
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#### **TRANSFORMING PUBLIC TRANSPORT: THE IMPLEMENTATION OF NEW LINES FOR ENHANCED CONNECTIVITY AND ACCESSIBILITY**

written by

**Nikola Kožul, Luka Novačko and Karlo Babojelić**

was presented at the ICTS 2024 -  
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#### **ANALYSES OF THE TEU CONTAINER THROUGHPUT: CASE STUDY ON THE SELECTED PORTS OF EUROPE AND CHINA**

written by

**Olutola Akinsolu and Evelin Krmac**

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**ANALYZING THE CHARACTERISTICS OF POTENTIAL  
LAST-MILE CROWDSHIPPIERS: INSIGHTS FROM SURVEY  
DATA IN SLOVENIA, UKRAINE, AND THE CZECH  
REPUBLIC**

written by

**Patricija Bajec, Halyna Pivtorak, Libor Švadlenka and Radek Vrba**

was presented at the ICTS 2024 -  
21<sup>st</sup> International Conference on Transport Science

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20<sup>th</sup> and 21<sup>st</sup> May, 2024, Portorož, Slovenia

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that the paper titled

#### **TRACK ACCESS CHARGE IN EUROPEAN RAILWAYS: COMPARATIVE APPROACH TO IMPROVE EFFECTIVENESS**

written by

**Peyman Asmari and Stefano Ricci**

was presented at the ICTS 2024 -  
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that the paper titled

#### CONTROL OF AUV SWARM IN THE FIXED COLUMN FORMATION USING EXPERT SYSTEM

written by

**Piotr Szymak and Tomasz Praczyk**

was presented at the ICTS 2024 -  
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that the paper titled

#### THE INFLUENCE OF HYDROSTATIC PRESSURE LOAD ON THE LOSS OF SUBMARINE BUOYANCY

written by

**Radosław Kiciński**

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that the paper titled

#### **ELECTRIFICATION OF FERRY LINES IN CROATIA: ANALYZING INTEGRATION FACTORS**

written by

**Roko Glavinović, Luka Vukić and Ivan Peronja**

was presented at the ICTS 2024 -  
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#### ESTIMATING POLLUTANT EMISSIONS FROM SEA CRUISE IN THE ADRIATIC SEA IN 2023 AND REGULATORY MEASURES

written by

**Ronan Kerbiriou, Arnaud Serry and Yann Alix**

was presented at the ICTS 2024 -  
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#### THE INFLUENCE OF GEOMETRIC PARAMETERS ON THE ENTRY CAPACITY OF TWO-GEOMETRY ROUNDABOUTS

written by

**Saša Ahac, Maja Ahac, Igor Majstorović and Silvio Bašić**

was presented at the ICTS 2024 -  
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**TOWARDS A SUSTAINABLE MARITIME DESTINATION:  
DOES WELL-BEING MAKE IT MORE ATTRACTIVE?**

written by

**Senka Šekularac-Ivošević**

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#### **CORROSION DEGRADATION IMPACT ON CARGO HOLD MAIN FRAMES OF SINGLE SKIN BULK CURRIERS**

written by

**Špiro Ivošević and Nataša Kovač**

was presented at the ICTS 2024 -  
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written by

**Stanisław Hożyń**

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#### IMPROVING SAFETY OF MARITIME CONTAINERS SHIPPING

written by

**Stefano Ricci and Luca Rizzetto**

was presented at the ICTS 2024 -  
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#### A MAX-PLUS ALGEBRAIC MODEL OF BUS BUNCHING AND CONTROL STRATEGIES

written by

**Tina Šfiligoj and Aljoša Peperko**

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that the paper titled

#### **SOME CONSIDERATIONS ON THE ANALYSIS OF PORT CENTRALITY IN THE ADRIATIC BASIN FOR TOURIST TRANSPORT PURPOSES**

written by

**Tiziana Campisi, Antonio Russo, Elen Twrdy, Marina Zanne and  
Giovanni Tesoriere**

was presented at the ICTS 2024 -  
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#### **EROSION OF ROAD MARKINGS IN CROATIA AND ESTIMATE OF CONTRIBUTION TO MICROPLASTIC POLLUTION**

written by

**Tomasz E. Burghardt, Darko Babić, Ivana Kučina and Dario  
Babić**

was presented at the ICTS 2024 -  
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#### **ANALYSIS OF THE EXPOSURE OF A MOTORCYCLE DRIVER TO VIBRATION IN NON-STATIONARY TRAFFIC CONDITIONS**

written by

**Tomasz Figlus and Piotr Szafraniec**

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#### KEY MESSAGES OF ADVERTISING SLOGANS IN THE MARITIME INDUSTRY

written by

**Tomislav Skračić, Luka Vukić and Roko Glavinović**

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#### **HIGH-ALTITUDE PSEUDO-SATELLITE PLATFORMS AS SUPPORT TO AIR TRAFFIC MANAGEMENT**

written by

**Tomo Bagarić, Zvonimir Rezo and Sanja Steiner**

was presented at the ICTS 2024 -  
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#### USAGE OF SLIM METHODOLOGY FOR IMPROVING THE SAFETY OF LIFEBOAT DRILLS PERFORMANCE

written by

**Tonči Biočić, Nermin Hasanspahić, Ivica Đurđević-Tomaš and  
Miho Kristić**

was presented at the ICTS 2024 -  
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#### **EXAMINING THE PREFERENCES OF POTENTIAL LAST-MILE CROWDSHIPPIERS IN SLOVENIA ACROSS THREE TRANSPORTATION MODES**

written by

**Veronika Slapnik, Patricija Bajec and Halyna Pivtorak**

was presented at the ICTS 2024 -  
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#### DEVELOPMENT OF SUPPORTING TOOLS FOR SAFETY MANAGEMENT OF NON-URBAN ROADS, IN ISRAEL

written by

**Victoria Gitelman and Etti Doveh**

was presented at the ICTS 2024 -  
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**SIMULATION MODEL TO ASSESS FREIGHT FLOW  
EFFECTS IN THE URBAN-PORT ROAD INTERFACE: A  
PRACTICAL USE-CASE FOR THE COMMERCIAL PORT IN  
CATANIA (ITALY)**

written by

**Vincenza Torrisi, Elena Cocuzza and Matteo Ignaccolo**

was presented at the ICTS 2024 -  
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#### **ADVANCING NAVIGATIONAL SAFETY: DIGIMAR'S PROJECT FOCUS ON ROUTINE MARITIME COMMUNICATION**

written by

**Violeta Jurkovič and Tanja Brcko Satler**

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that the paper titled

#### VEHICLE ACCELERATION MODELING WITH CONSTANT POWER: MANUAL, AUTOMATIC AND ELECTRIC TRANSMISSION

written by

**Vivien Lorenčič and Milan Batista**

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#### **AVOIDANCE ROUTE CALCULATION AND CHECK FOR OBSTACLES**

written by

**Vladimir Brozović, Danko Kezić, Rino Bošnjak and Filip Brozović**

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#### URBAN CASE STUDIES ON OPTIMIZED TRUCK-DRONE LAST-MILE DISTRIBUTION

written by

**Zhang Ruiyang, Xiao Junfeng and Florian Heinitz**

was presented at the ICTS 2024 -  
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#### LEXICAL PROFILING AND BUILDING TECHNICAL GLOSSARIES

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**Zorica Đurović and Tatijana Dlabáč**

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#### THE CITY PORT OF SPLIT - ASSESSMENT OF THE RISK OF COLLISIONS AND GROUNDINGS

written by

**Zvonimir Lušić, Tony Pinčetić, Mirko Čorić and Miro Petković**

was presented at the ICTS 2024 -  
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that the paper titled

#### AIRCRAFT ENGINE EMISSIONS REPORTING INFORMATION SYSTEM

written by

**Zvonimir Rezo, Sanja Steiner, Andrea Tikvica and Dario Facleš**

was presented at the ICTS 2024 -  
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#### **MODELLING SYSTEM OF MANAGERIAL INTERVENTIONS FOR ENHANCEMENT RESILIENCE OF PORT ORGANIZATIONAL ECOSYSTEMS**

prepared by

**Elena Valionienė and Erika Župerkienė**

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#### **WAITING FOR THE NEXT CATASTROPHE; CASE STUDY ON THE ACCIDENT IN BALTIMORE**

prepared by

**Lucjan Gucma and Marko Perkovič**

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#### **SOCIAL IMPACT SURVEY IN THE COMPREHENSIVE EVALUATION OF ROAD PROJECTS**

prepared by

**Monika Bak, Przemyslaw Borkowski, Krzysztof Grzelec and  
Dariusz Tloczynski**

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