



The LWC International Conference traditionally deals with the topics of urban mobility and quality of life in urban areas, with a specific focus on vulnerable road users. The LWC Conference allows researchers, experts, administrators, and practitioners to gather and discuss about policy issues, best practices, and research findings from different perspectives.

According to the 2020-2030 EU Road Safety Strategy, further steps should be made to promote safer, more resilient, and innovative cities. A System Approach strategy and the implementation of synergies between safety and sustainability are required to achieve the Vision Zero. Being safe roads and roadsides and safe road use two of the pillars of the EU strategy, the LWC Conference launches this year the challenge to define new scenarios for safe mobility in urban areas.

The topic will be addressed from a triple perspective. From a transport planning perspective, by providing new solutions and intervention to improve active mobility, enhance road safety, and provide more performing public transport and e-mobility systems. From an urban planning perspective, by defining policies towards safer and resilient urban spaces and urban space redevelopment, looking as well at the time-space design of the public city. From an integrated perspective, by providing new and synergic solutions to design more innovative and responsive cities: intelligent transport systems to promote more sustainable mobility and safer driving behaviours; re-design projects for new urban spaces; new decision support tools to promote safe mobility, with a glimpse to the Covid-19 outbreak experience.

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SHORT PROGRAMME

9 September - DAY I

WELCOME ADDRESS 10.00-10.45

OPENING PLENARY 10.45-13.00

Light lunch (buffet) 13:00 - 14:00

PARALLEL SESSION 14.00-17.00

ART VISIT AND SOCIAL DINNER 18.30-22.00

10 September - DAY I I

PARALLEL SESSION 9.30-13.00

Light lunch (buffet) 13:00 - 14:00

DISCUSSANTS PANEL 14.30-16.00

CLOSING PLENARY 16.00-17.00



Organization

Conference Chairman

Maurizio Tira - Dipartimento DICATAM. University of Brescia (IT)

Emeritus Conference Chairman

Roberto Busi - Dipartimento DICATAM. University of Brescia (IT)

Scientific Committee:

Maria Attard - University of Malta (MT)

Antonio Avenoso - European Transport Safety Council (BE)

Ana Bastos - University of Coimbre (PT)

Maria Castro - Universidad Politécnica de Madrid

Olja Cokorilo - University of Belgrade (RS)

Vincent Esteban Chapapría - Universidad Politécnica Valencia (ES)

Carmela Gargiulo - University of Naples Federico II (IT)

Nicolau D.F. Gualda - Universidade de São Paulo (BR)

Felice Giuliani - University of Parma (IT)

Mattero Ignaccolo – Dip. Ingegneria Civile e Ambientale. University of Catania (IT)

Hocine Imine - Université Gustave Eiffel (FR)

Odette Lewis - University of Malta (MT)

Giulio Maternini - Dipartimento DICATAM. University of Brescia (IT)

Graham Parkhurst - FET Geography and Environmental Management. University of the West of England (UK)

Michele Pezzagno - Dipartimento DICATAM. University of Brescia (IT)

Tim Pharoah - Transport and urban planning consultant (UK)

Ioannis Politis - Aristotle University of Thessaloniki (GR)

Julio Soria-Lara - Universidad Politécnica de Madrid (ES)

Michela Tiboni - Dipartimento DICATAM. University of Brescia (IT)

Susan Tighe - McMaster University (CA)

Rodney Tolley - Sustainable Transport Consultant (UK)

David Vetturi - University of Brescia (IT)

George Yannis - National Technical University of Atherns (GR)

Michele Zazzi - Dipartimento DIA. University of Parma (IT)

Scientific Organizers:

Maurizio Tira - Dipartimento DICATAM. University of Brescia (IT) Giulio Maternini - Dipartimento DICATAM. University of Brescia (IT) Michela Tiboni - Dipartimento DICATAM. University of Brescia (IT)

Scientific and Organizing Secretariat:

Michela Bonera - Dipartimento DICATAM. University of Brescia (IT) Stefania Boglietti - Dipartimento DICATAM. University of Brescia (IT) Martina Carra - Dipartimento DICATAM. University of Brescia (IT) Roberto Ventura - Dipartimento DICATAM. University of Brescia (IT)

SESSION CODE For Online Conference







DAY I - 9 SEPTEMBER

Registration 9:30 - 10:00

Opening Plenary Session

Welcome greetings 10:00 - 10:30

Prof. Roberto Busi – Emeritous Chariman of the LWC Conference Representative of the GD for Transport/Safety of the Lombardy Region Representative of the Province of Brescia Representative of the Municipality of Brescia Representative of Brescia Mobilità S.p.A. Representative of Brescia Infrastrutture Srl

> Introduction 10:30 - 11:00

Maurizio Tira - Chairman of the Conference

Plenary Session

Safe mobility for innovative cities Name, Affiliation

Transport system and infrastructure George Yannis, National Technical University of Athens

> **Urban planning** Name, Affiliation

Chair: Maurizio Tira – University of Brescia (IT)

Parallel workshop

Network and infrastructure to improve active mobility and Public transport and multimodality 14:30 - 17:45

Sustainable, safe and resilient urban spaces 14:30 - 17:45

Urban space re-design to improve sustainable mobility 14:30 - 17:45

Urban mobility systems 14:30 - 16:00

Active mobility and urban redevelopment (part I) 16:15 - 17:45

COFFE BREAK 16:00 - 16:15

Network and infrastructure to improve active mobility and Public transport and multimodality

14:30 - 17:45 (Rome time) Rooms: xxx

Addressing the unjust treatment of pedestrians at signal-controlled intersections

T. Cohen, M. Almawarni

An innovative methodology for active mobility network design

A. Nuzzolo, A. Comi, A. Polimeni

Analysis of pedestrian crossing behavior at roundabouts

N. Distefano, S. Leonardi, G. Pulvirenti

Co-design of urban inclusive ecosystems at the scale of the neighbourhood. Orienting the design of public spaces towards pedestrian use and soft-mobility, in the perspective of emerging community reappropriations and reactivations

A. Moro

Investigating spatial behaviour in different types of shared space

M. Batista

Policies and practices to promote cycling in Southern European Islands cities: challenges and solution from three "starter" cycling cities

S. Maas, M. Attard

The evolution of sustainable mobility and urban space planning: exploring the factors contributing to the regeneration of car parking in living spaces

T. Campisi, V. Torrisi, S. Rossetti, B. Caselli

The transformation of urban space as a challenge for a new mobility model

I. Meloni, B. Scappini, F. Piras

Comparison between different territorial policies to support intermodality of public network

M. Pazzini, C. lantieri, V. Vignali, G. Dondi, G. Luppino, D. Grasso

Transformation of an existing urban bus line: Milan Full Electric project

F. Borghetti, M. Longo, R. Mazzoncini, A. Panarese, C. Somaschini

Moderator: Maria Attard, University of Malta (MT), Benedetto Barabino, University of Brescia (IT)

Sustainable, safe and resilient urban spaces

14:30 - 17:45 (Rome time), Rooms: xxx

Challenges of Mediterranean metropolitan systems: smart planning and mobility R. Battarra, G. Mazzeo

Impact of social and technological distraction on pedestrian crossing behaviour: a preliminary literature review

T. Campisi, I. Istoka Otkovic, S. Surdonja, A. Deluka-Tiblijas

Improving sustainable mobility in university campuses: the case study of Sapienza University E. Meta, D. Shingo Usami, L. Persia, V. Sgarra, M.R. Saporito

Livability and freight transport in urban areas: the example of the Calabria Region for City logistics

G. Liritano, G. Petrungaro, M.R. Trecozzi

Perceived Pedestrian Level of Service: The case of Thessaloniki, Greece

T. Campisi, G. Tesoriere, A. Skoufas, D. Zeglis, C. Andronis, S. Basbas

Perspectives of resilience for the abandoned industrial areas

F. P. Protomastro

Planning seismic Inner Areas in Central Italy. Experimental application for the infrastructural project, life line and resilient public space in the shrinking territory

L. Domenella, M. Galasso, G. Marinelli, F. Rotondo

Re-designing Urban Spaces to act as Green Infrastructure: The Case of Malta S. Scheiber

Regional Transportation Plan of Calabria Region: The Mobility in Urban Areas F. Russo, G. Liritano, G. Petrungaro, M.R. Trecozzi

Sustainable mobility and resilient urban spaces in the United Kingdom. Practices and proposals

C. Ravagnan, F. Rossi, M. Amiriarief

Moderator: Ioannis Politis, Aristotle University of Thessaloniki (GR); Odette Lewis, University of Malta (MT)

Urban space re-design to improve sustainable mobility

14:30 - 17:45 (Rome time), Rooms: xxx

Analysing the Criticalities of Public Spaces to Promote Sustainable Mobility S. Boglietti, M. Tiboni

Effects of the Implementation of Speed Cushions on Urban Streets in Restricted Speed Zones: A Case Study in Bari, Italy

N. Berloco, P. Intini, V. Ranieri

Experimental models of pedestrian flows as support to design new sustainable paths in urban context

D. Gattuso, M. Malara, G.C. Cassone

How to redesign urban main roads? The case of Italian small cities

M. Ignaccolo, S. Zampino, G. Maternini, M. Tiboni, S. Leonardi, G. Inturri, M. Le Pira, E. Cocuzza, N. Distefano, N. Giuffrida, G. Pulvirenti, V. Torrisi

Limited Traffic Zone for Walk Safety around the Schools

G. Liritano, G. Petrungaro, M.R. Trecozzi

Sustainability charter for innovative cities and safe mobility. Case study: Sestri Levante. I. Spadaro, F. Pirlone, S. Clandia

Pedestrian priority in street design - how can it improve sustainable mobility? P. Anciaes, P. Jones

Removing the traditional obstacles between traffic and people in urban areas can integrate schools with the road

S. Vilke, I. Cvitković, P. Brlek, J. Ježovita Mlinarić

Slow streets Malta - challenging the status quo in a car - dependent island state A. Zammit

The cycle network as an environmental infrasatructure

A.A. Clemente

Moderator: Michéle Pezzagno, University of Brescia (IT); Rodney Tolley, Sustainable Transport Consultant (UK)

Urban mobility systems

14:30 - 16:00 (Rome time), Rooms: xxx

Collaborative soft mobility planning for university cities: the case of Pavia

R. De Lotto, M. Moretti, C. Pietra, E.M. Venco

Examples of urban traffic management systems

S. Vilke, F. Tadić, I. Ostović, J. Ćelić

Exploratory evaluation of road network hierarchy in small-sized cities: Evidence from 20 Greek cities

S. Tsigdinos, Y. Paraskevopoulos, E. Kourmpa

Promoting integrated urban development. An application at Naples metropolitan area R. Papa, G. Carpentieri, C. Guida

Through the eyes of Autonomous Vehicles – using laser scanning technology to engage the public via the analysis of journeys seen from a different perspective.

R. Laing, D. Belkouri

Moderator: Mattero Ignaccolo, University of Catania (IT)



Active mobility and urban redevelopment (part I)

16:15 - 17:45 (Rome time), Rooms: xxx

Experiences of safe and healthy walking and cycling in urban areas: the benefits of mobile methods for citizen-adapted urban planning

H. Marquart, J. Schicketanz

E-shopping and walking accessibility to retail: interplay and impact

A. Arranz-López, L.M. Mejía-Macias, J.A. Soria-Lara

New Milan metro-line M4. From infrastructural project to design scenario enabling urban resilience M. Fior, P. Galuzzi, P. Vitillo

Public Open Spaces: Connecting People, Squares and Streets by Measuring the Usability through the Villanova district in Cagliari, Italy

C. Garau, A. Annunziata

The more walkable, the more livable? Can attractiveness, as a walkability attribute, improve urban vitality?

Y. Liang, A. Rolando, D. D'Uva, A. Scandiffio

Moderator: Carmela Gargiulo, University of Naples Federico II (IT)



ART VISIT & SOCIAL DINNER

Meeting at Santa Giulia
18:30 - 20:00

Social Dinner 20:00

Informazioni varie che vogliamo mettere. Non so cosa scrivere al momento. Informazioni varie che vogliamo mettere. Non so cosamomento.

DAY II - 10 SEPTEMBER

Parallel workshop

15-minute cities and Time-space design of the public city 09:30 - 13:00

Big Data, ITS and Maas 09:30 - 11:15

E-micromobility system 09:30 - 11:15

Post-pandemic response for resilient cities 09:30 - 11:15

Accident data analysis and Road safety interventions 11:30 - 13:00

Active mobility and urban redevelopment (part II) 11:30 - 13:00

Driving behavior in urban environment 11:30 - 13:00

COFFE BREAK 11:15 - 13:00

15-minute cities and Time-space design of the public city

09:30 - 13:00 (Rome time), Rooms: xxx

15-minute city: Interpreting the Model to Bring out Urban Resiliencies

L. Abdelfattah, D. Deponte, G. Fossa

An antifragile strategy for Rome post-covid mobility

M. Cerasoli, C. Amato, C. Ravagnan

Exploring the 15-minutes neighbourhoods. An evaluation based on the walkability performance to public facilities

B. Caselli, M. Carra, S. Rossetti, M. Zazzi

Liveable neighbourhoods for sustainable cities: insights from Barcelona

L. Staricco, E. Vitale Brovarone

The City of Zagreb Lower Town urban mobility development program

I. Majstorović, M. Ahac, S. Ahac

Scenarios for a post-pandemic city: urban planning strategies and challenges of making "Milan 15 minutes"

F. Pinto, M. Akhavan

Urban accessibility 15-minute city: a measure in the city of Naples, Italy

C. Gargiulo, F.a Gaglione, F. Zucaro

Mobility and the role of pedestrian in the making of public space: Mersin

Z.S. Belge, M.A. Ercan

Can Urban Regeneration improve Walkability? A space-time assessment for the Tintoretto area in Brescia

M. Carra, M. Tiboni, S. Rossetti, D. Vetturi

Moderator: Michela Tiboni, University of Brescia (IT); Michele Zazzi, University of Parma (IT)

Big Data, ITS and Maas

09:30 - 11:15 (Rome time), Rooms: xxx

Transfer's Monitoring in Bus Transit Services by Automatic Vehicle Location S. Mozzoni, M. Di Francesco, G. Maternini, B. Barabino

Traffic surveys and GPS traces to explore patterns in cyclists' waiting times and speeds C. Poliziani, F. Rupi, J. Schweizer

Evaluation of the impact of speed bumps on the safety of residents - selected aspects K. Kosakowska, A. Borucka

The BITS Project – Making cycling data available and comparable on a European scale J. Schering, J.M. Gómez

Young drivers' pedestrian anti-collision braking operation data modelling for adas development

M. Miani, M. Dunnhofer, C. Micheloni, A. Marini, N. Baldo

Moderator: Michela Le Pira, University of Catania (IT)

E-micromobility system

09:30 - 11:15 (Rome time) Rooms: xxx

An analysis of the service coverage and regulation of e-scooter sharing in Rome (Italy) F. D'Andreagiovanni, A. Nardin, S. Carrese

Contributions for a Plan of Light Electric Mobility in Rome A. Triggiano, D.e Pagano

Developing micromobility in urban areas: Network planning criteria for e-scooters and electric micromobility devices

M. Ignaccolo, G. Inturri, E. Cocuzza, N. Giuffrida, M. Le Pira, V. Torrisi

From Traditional to Electric Free-Floating Car Sharing: Application and Case Study in the City of Milan in Italy

F. Borghetti, S. Briancesco, M. Longo, R. Maja, D. Zaninelli

Urban micro-mobility after the Covid-19. The effectiveness of e-scooter sharing for city sustainability in the near future

R. Fistola, M. Gallo, R.A. La Rocca

Moderator: Giulio Maternini, University of Brescia (IT)

Post-pandemic response for resilient cities

09:30 - 11:15 (Rome time), Rooms: xxx

Impact of teleworking on travel behaviour during the COVID-19 era: The case of Sicily, Italy T. Campisi, G. Tesoriere, M. Trouva, T. Papas, S. Basbas

Improving young women's access to safe mobility in a low-income area of Tunis: challenges and opportunities pre- and post-Covid

G. Porter, E. Murphy, S. Han, H. Mansour, H. Keskes, C. Dungey, Sam Clark

Planning adaptive strategies for urban transport land use using scenario-building A. Ariza-Alvarez, J.A. Soria-Lara, F. Aguilera-Benavente

The second life of small mountain's villages: the power of relationships M.R. Ronzoni

Two viruses, one prescription: slow down R. Tolley, P. Tranter

Moderator: Silvia Rossetti, University of Parma (IT)

Accident data analysis and Road safety interventions

11:30 - 13:00 (Rome time), Rooms: xxx

A Methodology for the Characterization of Urban Road Safety through Accident Data Analysis S. Colagrande

Identifying clusters and patterns of road crashes involving pedestrians and cyclists. A case study on the Province of Brescia (IT)

M. Bonera, B. Barabino, G. Maternini, R. Mutti, G. Guastaroba, A. Mor, M.G. Speranza, C. Filippi, C. Archetti

Risk factors of road traffic accidents in Moscow according to the accident data analysis N. Kirilina

Pedestrian safety at roundabouts: a comparison of the behavior in Italy and Slovenia C. Gruden, I. Ištoka Otković, M. Šraml

Analysing the effect of countdown signal timers on pedestrian crossing behaviour through the application of deep learning techniques M. Fourkiotis, C. Kazaklari, A. Kopsacheilis, I. Politis

Moderator: Antonio Avenoso, European Transport Safety Council (BE

Active mobility and urban redevelopment (part II)

11:30 - 13:00 (Rome time) Rooms: xxx

Analysing the spatial impacts of retail accessibility for e-shoppers groups P. Mateos-Minguez, A. Arranz-Lopez, J.A. Soria-Lara

Active mobility in historical centres: towards an accessible and competitive city C. Gargiulo, S. Sgambati

Active mobility perception from an intersectional perspective: insights from two European cities A. Carboni, M. Costa, S. Kalakou, M. Pirra

Connecting university facilities with rail transport stations: the case of Catania N. Giuffrida, M. Fazio, M. Le Pira, G. Inturri, M. Ignaccolo

Urban regeneration as an opportunity to redesign Sustainable Mobility. Experiences from the Emilia-Romagna Regional Call

G. Pellicelli, S. Rossetti, M. Zazzi

Moderator: Graham Parkhurst, University of the West of England (UK)

Driving behaviour in urban environment

11:30 - 13:00 (Rome time), Rooms: xxx

Comparison of traffic safety attitudes and perceptions of road users depending on their age V. Pajkovic, M. Gdinic-Rakonjac

Effects of Urban Road Environment on Vehicle Operating Speed. Evidence from Brescia

V. Martinelli, R. Ventura, M. Bonera, B. Barabino, G. Maternini

Investigating objective and perceived safety in road mobility

B. Piga, L. Mussone, G. Caruso, M. Boffi

Maintenance strategy for road marking in South Africa: case study on provincial roads within the Kawazulu-natal and the eastern cape province

J. Adedayo Adedeji, S. Olugbenga Abejide, M.M. Hassan

Safety-related behaviors of e-cyclists on urban streets: an observational study in Israel V. Gitelman, A. Korchatov, R. Carmel

Moderator: Susan Tighe, McMaster University (CA)

Discussants panel

14:30 - 16:00

Evidence from parallel workshops

Transport system and infrastructure

Antonio Avenoso, European Transport Safety Council (BE) Maria Attard, University of Malta (MT) Benedetto Barabino, University of Brescia (IT) Giulio Maternini, University of Brescia (IT)

Safe mobility for innovative cities

Michéle Pezzagno, University of Brescia (IT) Rodney Tolley, Sustainable Transport Consultant (UK) Mattero Ignaccolo, University of Catania (IT) Michela Le Pira, University of Catania (IT) Silvia Rossetti, University of Parma (IT) Susan Tighe, McMaster University (CA)

Urban planning

Ioannis Politis, Aristotle University of Thessaloniki (GR) Odette Lewis, University of Malta (MT) Michela Tiboni, University of Brescia (IT) Michele Zazzi, University of Parma (IT) Carmela Gargiulo, University of Naples Federico II (IT) Graham Parkhurst, University of the West of England (UK)

Chair: Giulio Maternini, University of Brescia (IT)

Plenary Session 16: 00 - 17:00

Safe mobility for innovative cities

Matthew Baldwin, DG MOVE Deputy Director-General of the European Commission

Transport system and infrastructure

Luca Bertolini, Director of the Institute of Interdisciplinary Studies - University of Amsterdam

Urban planning

Name, Affiliation

Chair: Michela Tiboni – University of Brescia (IT)







