



UNIVERSITY
OF BRESCIA



CeSCAM



PROGRAMME

Living and Walking in Cities New Challenges for Sustainable Urban Mobility

6-7-8 SEPTEMBER 2023

XXVI International Conference



New challenges for sustainable urban mobility

XXVI International Conference LWC 2023

6-7-8 September 2023, Brescia (Italy)

ORGANIZED BY



UNIVERSITY
OF BRESCIA



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PROVINCIA
DI BRESCIA



COMUNE DI
BRESCIA

Siamo
Capitale

Italiana
della Cultura
2023



ASSOCIAZIONE ITALIANA
per l'INGEGNERIA
del TRAFFICO
e dei TRASPORTI



Società
italiana
degli urbanisti

SIU



Centro
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Studi
Urbanistici

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urbIng



Automobile Club Brescia



ORGANIZATION

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Maurizio Tira

Department DICATAM. University of Brescia (IT)

Emeritus Conference Chairman

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European Transport Safety Council (BE)

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Sustainable Transport Consultant (UK)

David Vetturi

University of Brescia (IT)

George Yannis

National Technical University of Athens (GR)

Michele Zazzi

University of Parma (IT)

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Department DICATAM. University of Brescia (IT)

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Department DICATAM. University of Brescia (IT)

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Michela Nota

Department DICATAM. University of Brescia (IT)

Giuseppe Rainieri

Department DICATAM. University of Brescia (IT)





SHORT PROGRAMME

Time schedule refers to CEST

6 September – DAY I

REGISTRATION

5:30 - 6:00 pm

WELCOME ADDRESS

6:00 - 7:00 pm

WELCOME APERITIF

7:00 pm

7 September – DAY II

REGISTRATION

8:30 – 9:00 am

OPENING PLENARY SESSION

9:00 – 10:00 am

PARALLEL SESSIONS

10:30 am – 1:00 pm

Light lunch

1:00 – 2:30 pm

PARALLEL SESSIONS

2:30 – 5:30 pm

GUIDED TOUR AND SOCIAL DINNER

6:00 – 11:00 pm

8 September – DAY III

PARALLEL SESSION

9:00 – 11:30 am

CLOSING PLENARY SESSION

12:00 pm

Easy Light lunch

1:00 – 2:00 pm



New challenges for sustainable urban mobility

XXVI International Conference LWC 2023

6-7-8 September 2023, Brescia (Italy)

PARALLEL SESSIONS

Brixia, Via San Faustino 64

ACCESSIBILITY PARADIGM
7 September, 2:30 pm - Room D2



SUSTAINABLE POLICIES FOR INTEGRATED MOBILITY PERSPECTIVES
7 September, 2:30 pm - Room D5



SOCIAL AND SPATIAL EQUITY FOR ACTIVE MOBILITY
7 September, 2:30 pm - Room D3



TIME-SPACE DESIGN FOR THE X-MINUTE CITIES
7 September, 10:30 am - Room D3



RE-SHAPING URBAN MOBILITY FOR A GREEN TRANSITION
7 September, 2:30 pm - Room D4



FROM TEMPORARY TO PERMANENT URBAN CHANGES
8 September, 9:00 am - Room D4



ADVANCED PUBLIC TRANSPORT SYSTEMS
8 September, 9:00 am - Room D2



MAAS
8 September, 10:15 am - Room D2



USE OF ANALYTICS AND BIG DATA
7 September, 10:30 am - Room D2



ACCIDENT DATA ANALYSIS
7 September, 11:45 am - Room D2



INFRASTRUCTURE SERVICES RISK MANAGEMENT
8 September, 9:00 am - Room D3



PEDESTRIAN RISK MANAGEMENT
8 September, 10:15 am - Room D3



USERS' BEHAVIOUR
7 September, 10:30 am - Room D4







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DAY I - 6 SEPTEMBER

Time schedule refers to CEST

Registration

Aula Magna Monastero di San Faustino, Via San Faustino 74/b

5:30 - 6:00 pm

Welcome address (IT/EN)

6:00 - 7:00 pm

Giulio Maternini – Direttore CeSCAM

Michela Tiboni – Assessore del Comune di Brescia

Emanuele Moraschini - Presidente della Provincia di Brescia*

Francesco Castelli – Rettore dell'Università degli Studi di Brescia

Franco Lucente - Assessore ai Trasporti e Mobilità Sostenibile di Regione Lombardia

Carlo Scarpa - Presidente di Brescia Mobilità S.p.A.*

Roberto Busi – Presidente Emerito della Conferenza

Maurizio Tira – Chairman della Conferenza

*To be confirmed

Welcome aperitif

7:00 pm

DAY II - 7 SEPTEMBER

Time schedule refers to CEST

Registration

Aula Magna Monastero di San Faustino, Via San Faustino 74/b

8:30 - 9:00 am

Opening Plenary Session

Aula Magna Monastero di San Faustino, Via San Faustino 74/b

9:00 am (CEST)

Chair: Maurizio Tira, University of Brescia

Active Mobility and Action Research

Maria Attard, University of Malta

The walking health

Maria Eugenia Lopez Lambas, Universidad Politécnica de Madrid



Session Codes for
Simultaneous Translation
EN-IT / IT-EN



New challenges for sustainable urban mobility

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DAY II - 7 SEPTEMBER

Parallel Sessions

10:30 am – 1:00 pm (CEST)



Use of Analytics and Big data

10:30 am - 11:45 am



Time-space design for the X-minute cities

10:30 am - 1:00 pm



Users' behaviour

10:30 am - 11:45 am



Accident data analysis

11:45 am - 1:00 pm

COFFEE BREAK

Room R3,

from 10:15 to 11:15 am





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Use of Analytics and Big data

Room D2, Brixia, Via San Faustino 64

7 September

10:30 am (CEST)

Moderator Benedetto Barabino, University of Brescia (IT)

Formation of a city mobility monitoring system

S. Kostin, D. Nemchinov, D. Martiakhin and M. Akimova

Effect of Tram Floor Height on Passenger Boarding and Alighting Time

M. Ahac, I. Majstorović, S. Ahac and S. Bašić

A Multi-Scalar Assessment of Urban Heat Effects on Walkability in Ankara

S. Mushtaq and M.A. Ercan

Evidences from cell phone big data applications for urban mobility needs: case studies in Italy

A. Nalin, C. Lantieri, A. Simone, V. Vignali, D. Cappellari, G. Mantegari and A. Zaramella

Parking demand diagnosis by Automated Payment Transaction (APT) data. An application in a small-sized tourist city

M. Carra, S. Bianchi, G. Rainieri and B. Barabino





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Time-space design for the X-minute cities

Room D3, Brixia, Via San Faustino 64

7 September

10:30 am (CEST)

Moderator Anna Richiedei, University of Brescia (IT)

Improving walkability in the city. Urban and personal "comfort" and the need for cultural shifts

A. Bruzzese

Walking city, Automobile city, and Sustainable city. Urban structures and mobility patterns for reuse the spaces of the automobile era.

A. Guaiani

Integrating the TOD and 15-minute City concepts in the analysis of rail station areas: a methodological approach for a case study in Palermo (Italy)

E. Sezer, J. Igreja and I. Vinci

Sustainable mobility and the X-minute city. The case study of Berlin and Teheran.

F. Gaglione and A. Calafiore

11:45 am (CEST)

Moderator Michela Tiboni, University of Brescia (IT)

Walkability and rebalancing of centralities in a city under reconstruction

F. Eugeni, S. Sacco, D. Di Ludovico and G. D'Ovidio

The role of transport in urban regeneration. The neighborhood Le Albere in Trento through the lens of GBC Quartieri

E. Mazzola and A. Bove

The "X-minute city": Milan from the idea of proximity to the creation of a quality public city

F. Pinto and F. Alicino





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Users' behaviour

Room D4, Brixia, Via San Faustino 64

7 September

10:30 am (CEST)

Moderator Giulio Maternini, University of Brescia (IT)

Urban road safety in the Republic of Serbia

F. Zivkovic, B. Antic, T. Petrovic and B. Stamatovic

Implications of a “road user hierarchy” for road-safety law

T. Cohen

Distraction effects of manual texting and voice messaging when approaching pedestrian crossings on urban roads: a driving simulator study

A. Calvi, F. D’Amico and A. Vennarucci

Which factors are related to crossing speed and road violations? A virtual reality study on young people’s crossing behavior.

A. Baldassa, F. Orsini, G. De Cet, M. Tagliabue, R. Rossi, C. Vianello, and M. Gastaldi

Road safety analysis: a study on the visual perception of road signs using a driving simulator

A. Melis, M. Codipietro, P. Serra and G. Fancello





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Accident data analysis

Room D2, Brixia, Via San Faustino 64

7 September

11:45 am (CEST)

Moderator Stefano Zampino, ANSFISA (IT)

In depth analysis of pedestrian crash trends in the Italian urban environment

P. Intini, N. Berloco, S. Coropulis, V. Ranieri and R. Gentile

Risk Index Development for a Safer Cycling Environment

L. Ayad and H. Imine

Analysis of e-scooter crashes in the city of Bari

P. Longo, N. Berloco, S. Coropulis, P. Intini and V. Ranieri

A data analysis on road accidents involving pedestrians in urban areas

M. Codipietro, A. Melis, P. Serra and G. Fancello





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DAY II - 7 SEPTEMBER

Parallel Sessions

2:30 pm – 5:30 pm (CEST)



Accessibility paradigm

2:30 pm - 5:30 pm



Social and spatial equity for active mobility

2:30 pm - 5:30 pm



Re-shaping urban mobility for a green transition

2:30 pm - 5:30 pm



Sustainable policies for integrated mobility perspectives

2:30 pm - 5:30 pm

COFFEE BREAK

Room R3,

from 3:30 to 4:30 pm





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Accessibility paradigm (part I)

Room D2, Brixia, Via San Faustino 64

7 September

2:30 pm (CEST)

Moderator Martina Carra, University of Brescia (IT)

Accessibility for tourism promotion in protected areas: the protected area of the regional Partenio Park in Campania

R.A. La Rocca

Accessibility Evaluation of Electric Micro-mobility and Public Transport: an Application to the Medium-sized City of Salerno (Italy)

R. De Vincentis, A. Hamouda and M. Nigro

Sustainable mobility as a factor of urban competitiveness. The scenario of major Italian cities

C. Gargiulo, C. Guida, S. Sgambati

Which factors contribute to the mobility of persons with physical disabilities? Case study Serbia

Đ. Petrović, R.M. Mijailović and D. Pešić

Role of New Technologies on Pedestrian Walking Behaviour Research

A.Ö. Türken and E. Conticelli

Accessibility in the metropolitan spatial transition. The case study of Cagliari City (Sardinia, Italy)

G. Balletto, M. Sinatra, G. Borruso, F. Sechi and G. Fancello





New challenges for sustainable urban mobility

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Accessibility paradigm (part II)

Room D2, Brixia, Via San Faustino 64

7 September

4:00 pm (CEST)

Moderator David Vetturi, University of Brescia (IT)

Geo-mining landscape, slow mobility and services in spatial regeneration

M. Ladu, S. Battino, G. Balletto and A.A. García

An Indicator of Walkability for urban districts, oriented towards the MaaS component, with case study of Naples

G. Carpentieri, C. Gargiulo and F. Zucaro

Cultural accessibility for overcoming physical, cognitive and sensory barriers

I. Poli and M.F. Errigo

Assessing the Impacts of Urban Regeneration Projects on Smart and Active Mobility. An Application to the Cases of Cesena and Rimini

G. Pellicelli, S. Rossetti and M. Zazzi

Urban Green Space accessibility as a strategic tool to design Green Infrastructure and pedestrian way

M. Pantaloni, F. Botticini and G. Marinelli

Walking accessibility for individuals with reduced mobility: A Sicilian case study

L. Barbarossa, D. La Rosa and V. Pappalardo





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Social and spatial equity for active mobility (part I)

Room D3, Brixia, Via San Faustino 64

7 September

2:30 pm (CEST)

Moderator Pedro Homem, POLIS Network

Measuring Pedestrian Movement and Access to Public Services, Mezitli-Mersin, Turkey

B. Belge and Z.S. Belge

Promoting accessibility through active mobility for sustainable and inclusive cities. An Inclusive Accessibility by Proximity Index (IAPi)

G. Lanza, P. Pucci and L. Carboni

High performance wheelchair. Wheelchair mobility performance enhancement based on technological applications

D. Gattuso, A.D. Marra, D.S. Pellicanò and G. Rubino

A systematic literature review on financial incentives to promote walking in urban areas

C. Karolemeas, L. Mitropoulos, D. Tzamakos, E. Stavropoulou, E. Moschou, G. Laskaris and K. Kepaptsoglou

From school to city. An analysis on 600 school squares towards designing urban places for and with active mobility

F. Bianchi and R. Moscarelli

A review of Criticism to walkability: when the walkable approach is not a good idea?

M. Ramezani, S.E. Rezazadeh Mousavi Moghadam, E.K. Rahmani and T. Campisi





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Social and spatial equity for active mobility (part II)

Room D3, Brixia, Via San Faustino 64

7 September

4:00 pm (CEST)

Moderator Silvia Rossetti, University of Parma (IT)

Living and Walking in Campuses: the case of the University of Catania

S. Leonardi, G. Inturri, M. Le Pira, N. Distefano, E. Cocuzza and M. Ignaccolo

The role of universities in promoting sustainability through active mobility in daily commuting

M. Colleoni, S. Caiello, L. Daconto and A. Ramusik

Analysing The Pedestrian Mobility in Urban Public Space: The Case Study of Mersin Kushimato Street and Uray Street

E.E. Özdemir

Active Mobility behaviours contributing to Sustainable Development Goals

G. Rainieri, M. Carra, A. Richiedei and M. Pezzagno

Towards More Walkable Streets: An Assessment Method Applied to School Areas in Parma

S. Rossetti, B. Caselli and V. Torrisi





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Re-shaping urban mobility for a green transition

Room D4, Brixia, Via San Faustino 64

7 September

2:30 pm (CEST)

Moderator Paolo Ventura, University of Parma (IT)

A cycling indicator for tourism accessibility evaluation in urban areas

F. Morgese, S. De Bartolomeo, M. Binetti and L. Caggiani

Environmental and operational efficiency of integrated urban last-mile freight distribution systems based on the use of cargo-bikes

L. Mantecchini, F. P. Nanni Costa, M.N. Postorino and V. Rizzello

The challenges of implementing pedestrian-focused interventions using a multi-stakeholder approach – the case study of Malta

K. Scerri and M. Attard

Revitalization, development, and integration of rail system in urban areas – Zadar Urban Area Case

M. Ahac, I. Majstorović, S. Željko, S. Žuža and S. Ahac

Sustainable mobility in the urban and metropolitan areas of Mediterranean

G. Mazzeo

4:00 pm (CEST)

Moderator Roberto De Lotto, University of Pavia (IT)

Coastal roads. An Atlas for the socio-ecological transition of coastal territories

C. Nifosi, F. De Angelis, F. Messa, A. Gorrini and R. Choubassi

Cost-effective sustainable commuting through demand-responsive transport and active mobility

F. Bruzzone, M. Scorrano and S. Nocera

Participatory process for upgrading public spaces through sustainable mobility and social inclusiveness

L. Cameli, C. Lanteri, C. Mazzoli, A.C. Benedetti, A. Ferrante and R. Corbia

Different conceptions of Active Mobility: how cyclability is planned in the world. Case study investigation

D. Soraggi and V. Costa

Embedding green infrastructure in urban regeneration projects

A. Bove





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Sustainable policies for integrated mobility perspective (part I)

Room D5, Brixia, Via San Faustino 64

7 September

2:30 pm (CEST)

Moderator Matteo Colleoni, University of Milan-Bicocca (IT)

Soft Mobility Knowledge Model: Heavyweight Ontologies

R. De Lotto, R. Bahshwan, C. Pietra and E. Venco

Methodologies for estimating emissions from road transport and comparison with the inventory Air Emissions (INEMAR): the case of Pavia Province

R. De Lotto and M. Moretti

Development of Tools for Service&Quality Assessment of the Transport Infrastructure of Moscow

D. Martiakhin, D. Nemchinov, T. Komarova, A.V. Kabanova and Ya.V. Nikitina

Nudging walking and cycling in extreme car dependent communities

M. Attard, C. Cañas, K. Scerri, S. Maas and S.J. Giuliano

Innovative Energy Approach for Design and Sizing of Electric Vehicle Charging Infrastructure

D. Martini, M. Aimar, F. Borghetti, M. Longo and F. Foiadelli

How do SUMPs Consider Factors Influencing Walkability and Cyclability? A Review of Literature and Planning Tools

S. Rossetti, B. Caselli, F. Stabile, L.J. Marinelli and M. Carra

Integration between urban and mobility planning in territorial government processes: a case study

M. Fusi and M. Tiboni





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Sustainable policies for integrated mobility perspective (part II)

Room D5, Brixia, Via San Faustino 64

7 September

4:00 pm (CEST)

Moderator Roberto Ventura, University of Brescia (IT)

Survey and monitoring of the mobility in the Parma University Campus for improving sustainable transportation options

E. Garilli, F. Giuliani, R. Burioni and F. Autelitano

Sustainable policies and participation for integrated mobility prospects in cities. Case studies in Ligurian Region

I. Spadaro, F. Pirlone and S. Candia

Designing a user-oriented pedestrian metro system: the Salerno case study

S. de Luca, F. Bruno, F. Storani e R. di Pace

The process of city logistics supported by regional program

F. Russo, D.S. Pellicanò and M.R. Trecozzi

Limited Traffic Zones around school for urban mobility supported by regional program

G. Iritano, G. Petrungero and M.R. Trecozzi

Sustainable Urban Design Strategies for Pedestrian Oriented Neighborhood: Pozcu, Mersin

Z.S. Belge and H. Oya Saf



GUIDED TOUR

Museo Diocesano Brescia

6:00 – 7:30 pm (CEST)

The Diocesan Museum is responsible for ensuring the protection and safekeeping of works of art located in church buildings that are closed to worship and are unsafe. The permanent collections consist of works of pictorial art, sculpture, illuminated manuscripts and sacred goldsmithing. The works of painting and sculpture come mainly from the Brescia and Veneto areas.

SOCIAL DINNER

Chiostrò del Monastero di San Faustino

Via San Faustino 74/b

8:00 – 11:00 pm (CEST)



New challenges for sustainable urban mobility

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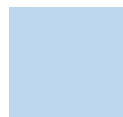
6-7-8 September 2023, Brescia (Italy)

DAY III - 8 SEPTEMBER

Time schedule refers to CEST

Parallel Sessions

9:00 am – 11:30 am (CEST)



Advanced Public Transport Systems

9:00 am - 10:15 am



Infrastructure services risk management

9:00 am - 10:15 am



From temporary to permanent urban changes

9:00 am - 10:15 am



MaaS

10:15 - 11:30 am



Pedestrian risk management

10:15 - 11:30 am

COFFEE BREAK

Room R3,

from 10:15 to 11:15 am





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Advanced Public Transport Systems

Room D2, Brixia, Via San Faustino 64

8 September

9:00 am (CEST)

Moderator

Corrado Rindone, Università degli Studi Mediterranea di
Reggio Calabria (IT)

Improving the requirements for bus stop zone (boarding and alighting area) of bus public transport. Probabilistic and statistical models of the arrival of two or more buses at the same time at the bus stop

D. Nemchinov, A. Kostsov and I. Tsarkov

Building Origin–Destination matrices in bus networks from Smartphone-App Call Detail Records: Evidence from the Island of Sardinia (Italy)

A. Obino, R. Ventura, M. Coni, M. Di Francesco and B. Barabino

Hyperloop for freight transport: preliminary design of intermodal terminal - a case study from Italy

F. Borghetti, F. Ursino, P. Smaldone, M. Vischi and R. Maja

Battery Electric Buses or Fuel Cells Electric Buses? A decarbonization case study in the city of Brescia

F. Borghetti, M. Longo, M. Bonera, M. Libretti, C. Somaschini, V. Martinelli, M. Medeghini and R. Mazzoncini

Comparing macroscale and microscale walkability indicators to establish pick-up/drop-off locations for a microtransit service in a suburban area.

G. D'Orso, L. Minaudo and M. Migliore





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Infrastructure services risk management

Room D3, Brixia, Via San Faustino 64

8 September

9:00 am (CEST)

Moderator Michela Le Pira, University of Catania (IT)

Assessment of the impact of a project on an existing road network through an integrated approach of Road Safety Inspection, Road Safety Audit and Road Safety Impact Assessment

A. Tripodi and P. Tiberi

Conducting Road Safety Inspections at railway stations on the Belgrano Sur line in the Province of Buenos Aires

E. Mazzia, G. Bussi and D.F. Lopez Velasquez

Can zig-zag marking improve pedestrian safety at un-signalized crosswalks? An observational before-after study in Israel

V. Gitelman and A. Sharon

Optimizing the operation of a major transportation hub: a traffic microsimulation analysis

G. Charalampidou, A. Kopsacheilis and I. Politis

An operational framework for road safety diagnosis in a wide-road network. The case of Winter Olympic (road) Games Milano-Cortina 2026

T. Cigognetti, A. Ghirardi, L. Ferretto, N. Gezehagne Assefa and R. Ventura





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From temporary to permanent urban changes

Room D4, Brixia, Via San Faustino 64

8 September

9:00 am (CEST)

Moderator Michèle Pezzagno, University of Brescia (IT)

Urban regeneration through large urban projects – case study of traffic analysis as urban planning method

N. Stefanovic, S. Milijic and N.D. Hristic

Temporal policies to support the urban life system. The desynchronization matrix.

F. Cicalese, M. Grimaldi and I. Fasolino

The intertemporal issue of low hourly occupancy of loading/ unloading parking spaces in the city of Thessaloniki

E. Bouhouras, A. Koenta, T. Campisi and S. Basbas

10:15 am (CEST)

Moderator Gerardo Carpentieri, University of Naples Federico II (IT)

Permanently temporary. Street experiments in the Torino Mobility Lab project

L. Staricco, E. Verlinghieri and E. Vitale Brovarone

Hybrid Urban Services, Proximity Growth and Digital Connectivity

G. Balletto, A. Richiedei, M. Pezzagno and M. Ladu

The experimentation of tactical urbanism as a tool for adaptation to climate change. The SpaziAttivi itinerary of the city of Brescia.

S. Boglietti, M. Nota and M. Tiboni





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MaaS

Room D2, Brixia, Via San Faustino 64

8 September

10:15 am (CEST)

Moderator Michela Bonera, Brescia Mobilità S.p.A. (IT)

Sustainable urban mobility plan from european rules to implementations: the italian study case

F. Russo and C. Rindone

Towards a sustainable mobility as a service: general framework and models' evolution

G. Musolino, F. Russo, C. Rindone and A. Vitetta

May Mobility-as-a-Service lead to more sustainable urban patterns? Examining spatial regenerative potential of mobility integration through MaaS Hub implementation

V. Costa and D. Soraggi

Measuring the impact of institutional and territorial drivers for an efficient and smooth MaaS implementation: a global analysis

M. Tartaglia and E. Petrozziello

Mobility as a Service: the first Italian MaaS pilot at regional level with public governance

C. Caballini, E. Olivari, C. Gasperini, B. Dalla Chiara





New challenges for sustainable urban mobility

XXVI International Conference LWC 2023

6-7-8 September 2023, Brescia (Italy)

Pedestrian risk management

Room D3, Brixia, Via San Faustino 64

8 September

10:15 am (CEST)

Moderator Matteo Ignaccolo, University of Catania (IT)

Modern preventive tools for improving pedestrian safety in traffic

J. Davidović, K. Lipovac, D. Pešić and B. Antić

Mapping the „safe” routes to school/preschool facilities in order to increase the safety of children in traffic

P. Brlek, I. Cvitkovic, G. Kos and G. Kaniški

Evaluating the Current State of Pedestrian Facilities of Township and Urban Areas: A Case Study of Pietermaritzburg City

W.T. Maseko, J.A. Adedeji and N. Bashingi

Pedestrian safety in Slovene urban areas

M. Zanne and E. Tvrđy

Closing Plenary Session

Aula Magna Monastero di San Faustino, Via San Faustino 74/b

12:00 pm (CEST)

Chair: Maurizio Tira, University of Brescia

The New Paradigm for Safe City Streets

Pedro Homem de Gouveia, Senior Policy & Project Manager - Governance & Integration - Safety & Security at Polis Network

Assessing Pedestrian Mobility to Foster Public Space Regeneration

Silvia Rossetti, University of Parma

Final greetings

Maurizio Tira, University of Brescia



Session Codes for
Simultaneous Translation
EN-IT / IT-EN

