

Poster Programme

Poster Session 1

14:00-15:00 Tuesday, 8 November, 2022 / Tramuntana 1 & 2

[PT1A.01]

Manual for the concrete city: Reimagining a sustainable living in Seoul

Jung In Kim*, *Soongsil University, Republic of Korea*

[PT1A.02]

A study on the impact of urban networks on urban self-sufficiency: Focusing on the seoul metropolitan area of Korea

JH Han*, J Nam, *Department of Urban Planning and Design & Department of Smart Cities in Graduate School, University of Seoul, Republic of Korea*

[PT1A.03]

From the idea of 'garden cities' to contemporary problems of urban sprawl in Poland

Tomasz Spórna^{*1}, Robert Szmytkie², Tomasz Figlus³, Agnieszka Lisowska-Kierepka², Łukasz Musiaka³, Dominik Sikorski², Paweł Sudra⁴, ¹*University of Silesia in Katowice, Faculty of Natural Sciences, Institute of Social and Economic Geography and Spatial Management, Będzińska 60, 41-200 Sosnowiec, Poland, Poland,* ²*University of Wrocław, Institute of Geography and Regional Development, Department of Human Geography, Uniwersytecki pl. 1, 50-137 Wrocław, Poland, Poland,* ³*University of Lodz, Faculty of Geographical Sciences, Department of Political, Historical Geography and Regional Studies, 31 Kopcińskiego St., 90-142 Łódź, Poland,* ⁴*Warsaw University of Life Sciences – SGGW, Institute of Environmental Engineering, Department of Remote Sensing and Environmental Assessment, Nowoursynowska 166 St., 02-787 Warsaw, Poland, Poland*

[PT1A.04]

A holistic index-based framework to assess urban resilience: Application to the region of Madrid, Spain

Marta Suárez^{*1,2}, Javier Benayas¹, Ana Justel³, Raffaele Sisto⁴, Carlos Montes¹, Elías Sanz-Casado⁵, ¹*Department of Ecology, Universidad Autónoma de Madrid, Spain,* ²*UNESCO Chair in Sustainable Development and Environmental Education, University of the Basque Country UPV/EHU, Spain,* ³*Department of Mathematics, Universidad Autónoma de Madrid, Spain,* ⁴*Smart&City Solutions, Spain,* ⁵*Research Institute for Higher Education and Science (INAECU), University Carlos III of Madrid, Spain*

[PT1A.05]

Towards a new model of citizenship culture: Exploring the incidence of urban, artistic and cultural activities

Clara Ines Pardo Martinez^{*1}, Alexander Cotte Poveda², ¹*Universidad del Rosario, Colombia,* ²*Universidad Santo Tomas, Colombia*

[PT1B.01]

Living close by in Mexico. A study of proximity to public education and health services

Ruben Garnica-Monroy^{*1}, Karen Hinojosa¹, Luis Sierra², ¹*Tecnologico de Monterrey, Mexico,* ²*Independent Consultor, Mexico*

[PT1B.02]

Gender differences in bicycle commuting before and after COVID-19 lockdown

M. Pellicer-Chenoll*, L. Antón-González, L. Millán-González, J. Devís-Devís, *University of Valencia, Spain*

[PT1B.03]

Covid-19, transportation, security and urban resilience

Karl Kim*, *University of Hawaii, USA*

[PT1B.04]

Infrastructure adjustments for a resilient city - what can be learned from the corona crisis for urban mobility

Kerstin Stark*, Julia Schuppan², Laura Gebhardt², Julia Jarass², Ariana Kehlbacher², ¹*DLR German Aerospace Center (DLR), Germany*, ²*German Aerospace Center (DLR), Germany*

[PT1B.05]

Fossil Health: Causes and consequences of hegemonic health paradigms

Laila Vivas*, *Basque Centre for Climate Change (BC3), Spain*

[PT1C.01]

Using deep learning approaches to explore the cardiopulmonary health and economic consequences of long-term environmental factors in Norway

Cong Cao*, Shilpa Rao², Jan Morten Dyrstad³, Colin Green³, ¹*Department of Economics, Norwegian University of Science and Technology, Norway*, ²*Division for Infectious Diseases and Environmental Health, Norwegian Institute of Public Health, Norway*, ³*Norwegian University of Science and Technology, Norway*

[PT1C.02]

Understanding the role of the urban form in supporting positive experiences and increased mental well-being among children

Yucel Severcan*, Ayse Ozbil Torun², Margaret Anne Defeyter², Zelal Akin¹, Heval Bingol¹, ¹*Middle East Technical University, Turkey*, ²*Northumbria University, UK*

[PT1C.03]

How do we measure and present the quality of life in cities? A review of dashboards

Joanna Pluto-Kossakowska*, Anna Fijałkowska, Joanna Jaroszewicz, Małgorzata Denis, Sylwia Krzysztofowicz, *Warsaw University of Technology, Poland*

[PT1C.04]

Health and equity in transportation health impact assessments: A retrospective analysis

M. Fox*,^{1,2,3} S. Sinkar¹, M. Bechard^{4,5}, ¹*Johns Hopkins Bloomberg School of Public Health, USA*, ²*Center for Advancing Research on Transportation Emissions, Energy, and Health, USA*, ³*Risk Sciences and Public Policy Institute, USA*, ⁴*University of Ottawa, Canada*, ⁵*Children's Hospital of Eastern Ontario, Canada*

[PT1C.05]

Public transportation planning and informal employment spatiality

V. Guzman - Monje*, C. Butron - Revilla, E. Manchego - Huaquipaco, *National University of San Agustin of Arequipa, Peru*

[PT1D.01]

Demystifying normalized difference vegetation index for greenness exposure assessment and policy interventions in green cities

A. de la Iglesia Martinez*, SM. Labib, *Department of Human Geography and Spatial Planning, Faculty of Geosciences, Utrecht University, The Netherlands*

[PT1D.02]

Co-producing a transition to sustainable urban mobility in sub-Saharan African cities: The cases of Maputo and Freetown

Clemence Cavoli*, Daniel Oviedo¹, Alex Chong¹, Caren Levy¹, Joaquin Romero², Braima Koroma³, Joseph Macarthy³, ¹*UCL, UK*, ²*Goteo, Mozambique*, ³*SLURC, Sierra Leone*

[PT1D.03]

Smart technologies for planning, implementation and evaluation of nature-based solutions to foster resilient urban social-ecological systems

Lassi Warsta*, Maria Dubovik, Mikko Tuomisto, Arto Laikari, Lauri Parikka, Pekka Halonen, Laura Wendling, *VTT Technical Research Centre of Finland, Finland*

[PT1D.04]

A participatory and "citizen science" approach to environmental education in the framework of exposure science

L. Boniardi^{*1,2}, S. Manni³, C. Zanelli³, S. Fustinoni^{1,2}, ¹*EPIGET - Epidemiology, Epigenetics, and Toxicology Lab, Department of Clinical Sciences and Community Health, University of Milan, Italy,* ²*Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, U.O.S Tossicologia, Italy,* ³*ABCittà Coop. ONLUS, Italy*

[PT1D.05]

Paediatric asthma incidence in Traffic and central urban areas in Brussels and other large cities could be cut by more than 25% by policy interventions achieving local traffic reductions

B. Vandeninden^{*1,2}, E.M. De Clercq², C. Faes³, C. Bouland¹, ¹*Université Libre de Bruxelles (ULB), Belgium,* ²*Sciensano, Belgium,* ³*University Hasselt, Belgium*

[P1.001]

From informal to formal: The sustainable transformation of small towns

M. Amado*, F. Poggi, *CERIS – Civil Engineering Research and Innovation for Sustainability, Portugal*

[P1.002]

Reclaiming alleyways as critical infrastructure for network connectivity: Lessons from Dubai's neighborhoods

K. Alawadi^{*1}, H. Alameri¹, M. Scoppa², ¹*Khalifa University, United Arab Emirates,* ²*UAE University, United Arab Emirates*

[P1.003]

Uncovering the dynamic complexity of implementing battery- electric buses in Brazil through causal loops

Alyson Rodrigues*, Sônia Seixas, *UNICAMP, Brazil*

[P1.004]

Typological index of alleyways: Mapping the pattern of a forgotten land in cities

Khaled Alawadi*, Asim Khanal, Rawan Sohdy, *Khalifa University, United Arab Emirates*

[P1.005]

Governance, policy making and urban planning in African cities - the case of Luanda

Ana Cristina Inglês^{*1,2}, Miguel Pires Amado¹, ¹*Instituto Superior Técnico - Universidade de Lisboa, Portugal,* ²*Laboratório Urbano de Angola, Angola*

[P1.006]

From 'brownfields' to 'brightfields': Key issues and challenges

Sesil KOUTRA*, *University of Mons, Belgium*

[P1.007]

Adverse incorporation and social exclusion in harare: An analysis of spatial design mobility and accessibility of low-income groups residing in harare's southern suburbs

Tadiwa Chikengezha*, Vusi Thebe, *University of Pretoria, South Africa*

[P1.008]

Scenario-based performance assessment of spatial planning in green-gray-blue infrastructure systems to improve flood resilience: A case study of Pazhou, Guangzhou, Greater Bay Area

Peijun Lu*, *School of Architecture, State Key Laboratory of Subtropical Building Science, South China University of Technology, China, Faculty of Architecture and the Built Environment, Department of Urbanism, Delft University of Technology (TU Delft), The Netherlands*

[P1.009]

Analyzing the impacts of long distance high-speed rail freight transportation on inner-city logistics and development

Maurice Krauth*, Matthias Ribesmeier, *TU Dresden, Germany*

[P1.010]

The new land-use predisposition and analysis of geosites along with the establishment of new roads for better tourism recognition; case study Toplica region (Southern Serbia)

Aleksandar Valjarević^{*1}, Marko Ivanović², ¹*University of Belgrade, Faculty of Geography, Serbia,* ²*University of Priština in Kosovska Mitrovica, Faculty of Natural Sciences and Mathematics, Serbia*

[P1.011]

Toward a resilient coastal city: Performance assessment for adaptive solutions in green-gray-blue infrastructure

Peijun Lu^{*1,2}, Yimin Sun¹, Nijhuis Steffen², ¹*School of Architecture, State Key Laboratory of Subtropical Building Science, South China University of Technology, China,* ²*Faculty of Architecture and the Built Environment, Department of Urbanism, Delft University of Technology (TU Delft), The Netherlands*

[P1.012]

How to become a GREEN CITY? – the case study of public transport in Metropolis GZM, Poland

Karolina Mucha-Kuś^{*1}, Grzegorz Kinelski^{1,2}, Zbigniew Makieta¹, ¹*WSB University, Poland,* ²*Veolia Contracting, Poland*

[P1.013]

Active transportation policy and practice in the city of Oulu from 1998 to 2016 – A mixed methods study

M. Kärmeniemi^{*1}, T. Lankila^{2,3}, E. Rönkkö⁴, K. Nykänen⁵, H. Koivumaa-Honkanen^{6,7,8}, R. Korpelainen^{2,1}, ¹*Center for Life Course Health Research, University of Oulu, Finland,* ²*Department of Sport and Exercise Medicine, Oulu Deaconess Institute, Finland,* ³*Geography Research Unit, University of Oulu, Finland,* ⁴*Oulu School of Architecture, University of Oulu, Finland,* ⁵*City of Oulu, Department of Urban and Environmental Services, Finland,* ⁶*Department of Psychiatry, Institute of Clinical Medicine, University of Eastern Finland, Finland,* ⁷*Department of Psychiatry, Kuopio University Hospital, Finland,* ⁸*Department of Psychiatry, Lapland Hospital District, Finland*

[P1.014]

A workplace-based perspective to estimate commuting patterns: A case study of Tongzhou Subcentre of Beijing

Wei Zheng*, *The University of Manchester, UK*

[P1.015]

Application of cycling indicator in times of social isolation

Andréa Holz Pfüthenreuter*, *Universidade Federal de Santa Catarina, Brazil*

[P1.016]

Interference analysis method between walkability and road safety

Andréa Holz Pfüthenreuter*, Isabelle Costa Luís, *Universidade Federal de Santa Catarina, Brazil*

[P1.017]

Phasing-in bus transit systems in cities with low public transport regulation: An international comparison and policy lessons

Emmanuel Theodore Asimeng, Franco Jauregui-Fung*, *German Institute of Development and Sustainability (IDOS), Germany*

[P1.018]

Neoliberalism and the (non-)autonomy of local states in Accra, Ghana

Alexander Kofi Eduful*, *Sunyani Technical University, Ghana, Oxford University, UK*

[P1.019]

The boswash infrastructure biome and energy system succession

J Wright*¹, R Ackley², S Gopal¹, N Phillips¹, ¹*Boston University, USA*, ²*Gas Safety, Inc., USA*

[P1.020]

Station City Integration in China – towards Mobility Resilience and Public Space Flexibility

Enshan Chen*¹, Stefan van der Spek¹, Frank van der Hoeven¹, Manuela Triggianese², ¹*Department of Urbanism, Faculty of Architecture, Delft University of Technology, The Netherlands*, ²*Department of Architecture, Faculty of Architecture, Delft University of Technology, The Netherlands*

[P1.021]

A city digital twin for transportation network resilience evaluation under flood hazard

Maysara Ghaith*^{1,2}, Ahmed Yosri^{1,2}, Wael El-Dakhakhni^{1,2,3}, ¹*Department of Civil Engineering, McMaster University, 1280 Main Street West, Hamilton, ON, L8S 4L7, Canada, Canada*, ²*McMaster Institute for Multi-hazard Systemic Risk Studies (INTERFACE), 1280 Main Street West, Hamilton, ON, L8S 4L7, Canada, Canada*, ³*School of Computational Science and Engineering, McMaster University, 1280 Main Street West, Hamilton, ON, L8S 4K1, Canada, Canada*

[P1.023]

Spectral analysis of lithium-ion batteries to improve safety

M. Carbonó-delaRosa*¹, J. Gómez-Ocampo¹, R. Nava-Lara¹, V. Velasco-Herrera², G. Velasco-Herrera³, R. Sosa-Echeverría⁴, P. Sánchez-Álvarez⁴, ¹*Instituto de Energías Renovables, Universidad Nacional Autónoma de México, Mexico*, ²*Instituto de Geofísica, Universidad Nacional Autónoma de México, Mexico*, ³*Instituto de Ciencias Aplicadas y Tecnología, Universidad Nacional Autónoma de México, Mexico*, ⁴*Instituto de Ciencias de la Atmósfera y Cambio Climático, Universidad Nacional Autónoma de México, Mexico*

[P1.024]

Directional difference and influencing factors of the residential relocation among the age groups applying spatial analysis

Changhyo Yi¹, Seongman Jang*², ¹*Hanbat National University, Republic of Korea*, ²*Mokpo National University, Republic of Korea*

[P1.025]

Introducing a data charting methodology of smart city concepts based on a synthesis of taxonomy and scoping review

Nammi Kim*, SeungWoo Yang, *University of Seoul, Republic of Korea*

[P1.026]

The impact of urban catchment characteristics and polder systems on urban surface water flooding in a tropical climate for green infrastructure planning: A case study of Bangkok

Theeraporn Premchaiswadi*, Tetsuya Yaguchi, *Waseda University, Japan*

[P1.027]

Impact of the built environment on walking and cycling: Results of a study for German cities on active mobility

Caroline Koszowski*, Stefan Hubrich, Rico Wittwer, Regine Gerike, *TU Dresden, Institute of Transport Planning and Road Traffic, Germany*

[P1.028]

Urban sensing and smart Infrastructure technologies that enable dynamic distribution of street space: A systematic review

G. Valença^{1,2}, F. Nogueira^{*2}, G. Santos³, P. Baptista⁴, M. Marques⁵, A. Morais de Sá², C. Azevedo⁶, A.P. Antunes³, F. Moura¹, ¹CERIS, Instituto Superior Técnico, University of Lisbon, Portugal,²CiTUA, Instituto Superior Técnico, University of Lisbon, Portugal,³CITTA, Department of Civil Engineering, University of Coimbra, Portugal,⁴Centre for Innovation, Technology and Policy Research (IN+), Associação para o desenvolvimento do Instituto Superior Técnico, University of Lisbon, Portugal,⁵Institute for Systems and Robotics, Instituto Superior Técnico, University of Lisbon, Portugal,⁶Department of Technology, Management and Economics, Technical University of Denmark, Denmark

[P1.029]

Emissions abatement measures at municipal level: An assessment of the economic efficiency of measures implemented by Swedish municipalities, using Marginal Abatement Cost Curves

Tommaso Piseddu^{*}, Fedra Vanhuysse, *Stockholm Environment Institute, Sweden*

[P1.030]

Liveable cities – applied methodology to rank cities using open data

María Guerrero-Hidalga^{*}, *CETAQUA, Spain*

[P1.031]

Evaluating the potential impact of distributed additive manufacturing on home delivery traffic

Fabian Frommer^{*1}, Oliver Kunze², Gebhard Wulforst³, ¹Technical University of Munich & University of Applied Science Neu-Ulm, Germany,²University of Applied Science Neu-Ulm, Germany,³Technical University of Munich, Germany

[P1.032]

Re-centralising Tokyo

Marcela Riva de Monti^{*}, *Universidad Politécnica de Madrid, Spain*

[P1.033]

Implementing walkability: A conceptual evolution into policymaking

C Ramos^{*1}, D Vale¹, J Mourato², ¹CIAUD, Research Centre of Architecture, Urbanism and Design, Lisbon School of Architecture, Universidade de Lisboa, Portugal,²Instituto de Ciência Sociais, Universidade de Lisboa, Portugal

[P1.034]

A novel method for classifying high-speed railway stations in the metropolitan area: a case study in Jiangsu, China

Yifan Yue^{*1,2}, Tao Feng^{2,3}, Jun Chen¹, Xinwei Ma⁴, ¹Southeast University, China,²Eindhoven University of Technology, The Netherlands,³Hiroshima University, Japan,⁴Hebei University of Technology, China

[P1.035]

Analysis of biofuel enrichment by ultrasonic atomization in a gasoline engine

Milton Álvarez¹, Ruben Esquivel^{*2}, William Vicente², Rogelio González¹, Eliseo Martínez², Eduardo Pérez¹, ¹Facultad de Ingeniería, Universidad Nacional Autónoma de México, Mexico,²Instituto de Ingeniería, Universidad Nacional Autónoma de México, Mexico

[P1.036]

Re-Framing Sustainable Planning Interventions through Reciprocity with the More-Than-Human

Keisha Maloney^{*}, *University of British Columbia, Canada*

[P1.037]

Development of Pavement Deterioration Models Using Markov Chain Process

M Isradi^{*1,2}, J Prasetijo¹, G Zhang³, M Hariadi², MFBA Latif¹, Al Rifai⁴, ¹Universiti Tun Hussein Onn Malaysia, Malaysia,²Universitas Mercu Buana, Indonesia,³University of Hawai'i at Manoa, USA,⁴University of International Batam, Indonesia

[P1.038]

How to improve the Inhabitants' acceptability of rainwater harvesting system? Application to an existing collective residence in northern Algeria

Belmeziti Ali*, *Université Saâd Dahlab Blida 1, Institut d'Architecture et d'Urbanisme (IAU), Laboratoire Environnement et Technologie pour l'Architecture et le Patrimoine (ETAP), Blida 09000, Algeria, Algeria*

[P1.039]

An activity-based model of transport demand for Greater Melbourne.

Alan Both*, Dhirendra Singh, Afshin Jafari, Billie Giles-Corti, Lucy Gunn, *RMIT University, Australia*

[P1.040]

A study on the establishment of the influence area of the housing redevelopment project.

Seongho Kim*¹, Jin Nam², Junyoung ryu¹, ¹*Department of Urban Planning and Design , University of Seoul, Republic of Korea,*²*Department of Urban Planning and Design & Department of Smart Cities in Graduate School, University of Seoul, Republic of Korea*

[P1.041]

Delivering local climate action: the case of Mexican cities

Valentina Palermo*, Silvia Rivas, *European Commission, Joint Research Centre (JRC), Ispra, Italy*

[P1.042]

Co-creating multimodal transportation hubs – how to close the gap between actors across different levels, scales, and sectors

Ph. Stadler Benz*, M. Stauffacher, S. Müller, *ETH Zurich, D-USYS TdLab, Switzerland*

[P1.043]

Mainstreaming climate change adaptation in spatial planning: An analysis of Covenant of Mayors cities

Valentina Palermo*¹, Aldo Treville¹, Paulo Barbosa², ¹*European Commission, Joint Research Centre (JRC), Ispra, Italy,*²*European Commission, Joint Research Centre (JRC), Seville, Spain*

[P1.044]

A study on the influence factors of network with central city on housing price: Focusing on spatio-temporal changes

J Lee*, J Nam, *Department of Urban Planning and Design & Department of Smart Cities in Graduate School, University of Seoul, Republic of Korea*

[P1.045]

Analysis of transit transport networks through centrality indices: A case study of five Italian cities

V. Aranda-Salgado*¹, R. Notari², L. Mussone³, ¹*Politecnico di Milano, ABC PHD School, Italy,*²*Politecnico di Milano, DMAT, Department of Mathematics, Italy,*³*Politecnico di Milano, DABC, Department of Architecture , Built Environment and Construction Engineering, Italy*

[P1.046]

Policy portfolios to mitigate urban transport GHG emissions in 120 affluent cities worldwide

C. Liotta*^{1,2}, V. Vigié¹, F. Creutzig^{2,3}, ¹*CIREN (Ecole des Ponts ParisTech), France,*²*Technische Universität Berlin, Germany,*³*Mercator Research Institute on Global Commons and Climate Change, Germany*

[P1.047]

Analysis of bifurcations of ring transit services considering the interaction between land use and transportation planning

Marcos Medina-Tapia*¹, Miquel Estrada², ¹*Universidad of Santiago of Chile (USACH), Chile,*²*Technical University of Catalonia, Spain*

[P1.048]

Identifying trip purpose from a dockless bike-sharing system in Manchester.

Antonio Ross-Perez*, Neil Walton, Nuno Pinto, *University of Manchester, UK*

[P1.049]

Compact-network city: Focusing on the current status and regional characteristics of youth migration in local cities in South Korea

S Song^{*1}, J Nam², ¹*Department of Urban Planning and Design, University of Seoul, Republic of Korea,*²*Department of Urban Planning and Design&Department of smart cities in Graduate School, University of Seoul, Republic of Korea*

[P1.050]

PTAL mapping as a support tool to Indian Urban Planning- a case study of Patna city

K. K. Maurya*, S Anshu, *National Institute of Technology Patna, India*

[P1.051]

What do energy cooperatives work in Seoul and Gyeonggi-do, Korea?: Focusing on the role of reciprocity and cooperation

Jong-Min Choi¹, Sun-Jin Yun^{*2}, ¹*Seoul National University Environmental Planning Institute, Republic of Korea,*²*Seoul National University Graduate School of Environmental Studies, Republic of Korea*

[P1.052]

Is pedestrian use of Bangkok urban public space influenced by objective or subjective climatic factors? or both?

P. Prajongsan*, T. Ramasoot, P. Boonchaiyaprupek, *Silpakorn University, Thailand*

[P1.053]

The life and death of large-scale offshore artificial islands in China: Mixed-method research to unveil the failure to adopt a transnational development model

Z. Wang^{*1,2}, G. Talamini¹, ¹*City University of Hong Kong, Hong Kong,*²*University of Chinese Academy of Sciences, China*

[P1.054]

Fab Cities. A framework for citizen-oriented local action to support an urban regeneration process towards an alternative more resilient, sustainable and inclusive city model

Pablo Muñoz Unceta^{*1}, Sandrine Lambert², Alex Pazaitis³, ¹*Institute for Advance Architecture of Catalonia, Spain,*²*Laval University, Quebec, Canada,*³*Tallinn University of Technology, Estonia*

[P1.055]

Generating mobility patterns informed by the built environment of cities

Alan Both^{*1}, Corin Staves², Dharendra Singh¹, Lucy Gunn¹, Tayebah Saghapour¹, Gavin Turrell¹, Billie Giles-Corti¹, James Woodcock², Ori Gudes³, Audrey de Nazelle⁴, ¹*RMIT University, Australia,*²*University of Cambridge, UK,*³*Monash University, Australia,*⁴*Imperial College London, UK*

[P1.056]

Urban Transportation System Resource Consumption Parameters

Chetna Rathee^{*1,2}, Marcus Enoch², Shubhajit Sadhukhan¹, Taimaz Larimian², ¹*Indian Institute of Technology Roorkee, India,*²*Loughborough University, UK*

[P1.057]

Designing the streets of the future: The Avenues Project, Glasgow

R. E. Cox*, *University of Glasgow, UK*

[P1.058]

Time-dependent origin-destination estimation from land use and mobile phone data

Suxia Gong^{*1}, Ismaïl Saadi^{1,2,3}, Jacques Teller¹, Mario Cools^{1,4,5}, ¹LEMA research group, Urban & Environmental Engineering Department, University of Liège, Belgium, ²IFSTTAR, COSYS-GRETTIA, University Gustave Eiffel, France, ³F.R.S.-FNRS, Brussels, Belgium, ⁴Faculty of Business Economics, Hasselt University, Belgium, ⁵Department of Information Management, Modelling and Simulation, KU Leuven, Belgium

[P1.059]

Investigating the role of non-motorized transport planning for enhancing accessibility of metro stations in metropolitan cities of India: A case study of Delhi, India

Mahima Kanojia, Shubhajit Sadhukhan, Manaswinee Kar^{*}, *Indian Institute of Technology Roorkee, India*

[P1.060]

Supporting Site Selection Decision-Making Process for Public Charging Station of Electric Vehicles using Semantic Web Technologies

Xuan Liu^{*}, Dujaun Yang, Bauke de Vries, *Eindhoven University of Technology, The Netherlands*

[P1.061]

Determinants of selecting bicycle as the preferred mode of urban transport: A users' perception-based study in Patna

Manan Monga¹, Shubhajit Sadhukhan¹, Aditya Pitale¹, Manaswinee Kar^{*2}, ¹Indian Institute of Technology Roorkee, India, ²Indian Institute of Technology, Roorkee, India

[P1.062]

Measuring users' perceived importance towards attributes affecting road crossing behavior in educational city: Roorkee as a case study

Ravi Kant, Shubhajit Sadhukhan, Anbanandam Ramesh, Manaswinee Kar^{*}, *Indian Institute of Technology Roorkee, India*

[P1.063]

Performance and Limitations of Seoul's One Less Nuclear Power Plant Initiative toward Urban Energy Transition

Sun-Jin Yun^{*}, *Seoul national University, Republic of Korea*

[P1.064]

Development of accessibility index identifying the impacts of railway investments and COVID-19 pandemic

Shin-Hyung Cho^{*}, Shin-Hyeong Park, *University of Seoul, Republic of Korea*

[P1.066]

Autonomous Vehicle Implications On Transport Planning"

Hassan Alahmadi^{*}, Hussam Hijazi, NAJIB MUSE, *King Fahd University of Petroleum and Minerals (KFUPM) CEE, Saudi Arabia*

[P1.067]

(Re)developing balanced, vibrant neighbourhoods: Boosting smart space utilisation for land-, material- and energy productivity and resilience. An overlooked agenda for a sustainable European built environment and fair quality of life

Julia Okatz^{*1}, Cloe Ragot², Elena Georgarakis³, Sophie Herrmann³, ¹SYSTEMIQ, UK, ²SYSTEMIQ, France, ³SYSTEMIQ, Germany

[P1.068]

Maryland's pioneering approach to smart growth: A 25-year review

Gerrit Knaap^{*1}, Eli Knaap², Rebecca Lewis³, ¹University of Maryland, USA, ²San Diego State University, USA, ³University of Oregon, USA

[P1.069]

The stress-resilient city as a new strategy for building the healthy cities of tomorrow

Lidia Mierzejewska^{*1}, Magdalena Wdowicka¹, Marta Szejnfeld¹, Kamila Sikorska-Podyma¹, Bogusz Modrzewski¹, Ewa Lechowska², ¹Adam Mickiewicz University in Poznań, Poland, ²University of Lodz, Poland

[P1.070]

Relating properties of urban transport system innovations to sustainability impacts - towards a typology

Y. Xu^{*}, Technical University of Munich, Germany

[P1.071]

Applications of bicycle-based LiDAR scanning for smart asset management in public spaces in Amsterdam

Daan Bloembergen¹, Willem Schellekens², Sjors van Eerten², André Kapitein³, Jurjen Helmus⁴, Pieter Bons^{*4}, ¹Municipality of Amsterdam, The Netherlands, ²Fietskoerier.nl, The Netherlands, ³Sonarski, The Netherlands, ⁴Amsterdam University of Applied Sciences, The Netherlands

[P1.072]

Assessing the effects of superblock on mobility: A cost-benefit analysis

Genís Majoral^{*1}, Samra Sarwar¹, Sergi Saurí¹, Moisés Ortega², ¹CENIT, Spain, ²Independent, Spain

[P1.073]

What is my neighbourhood? The impact of boundary definition in the measurement of socioeconomic and environmental characteristics in urban systems

Melissa Pang^{*}, Gloria Serra-Coch, Claudia Binder, Ecole Polytechnique Fédérale de Lausanne, Switzerland

[P1.074]

Rethinking Urban Metabolism for an optimized waste management in the Global South

Giulia Frigo^{*}, EPFL, Switzerland

[P1.075]

Constructing the campus digital twin, a living laboratory for public spaces

Kaz Sakamoto^{*}, Ankita Singhvi, Laboratory for Human-Environment Relations in Urban Systems (HERUS), Environmental Engineering Institute (IIE), School of Architecture, Civil and Environmental Engineering (ENAC), École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, Switzerland

[P1.076]

Urban growth management with the satellite city concept Lessons learned from Tokyo and Shanghai

R. Gu¹, X. Xiao^{*2,1}, C. Takatori³, H. Herold⁴, X. Xie¹, ¹Faculty of Architecture, Technische Universität Dresden, Germany, ²Institute of Applied Ecology, Chinese Academy of Sciences, China, ³School of Design, Kyushu University, Japan, ⁴Leibniz Institute of Ecological Urban and Regional Development, Germany

[P1.077]

Outdoor spaces thermal conditioning strategies for recovering street life: Predesign tool

M.Paz Montero Gutiérrez^{*}, M.Carmen Guerrero Delgado, José Sánchez Ramos, Teresa Palomo Amores, Rafael Monge Palma, Servando Álvarez Domínguez, University of Seville, Spain

[P1.078]

Response of Polish cities for sudden events – case studies of Rzeszow and Warsaw

A. Szmelter-Jarosz^{*}, S. Żukowska, B. Chmiel, University of Gdańsk, Poland

[P1.079]

Co-creating a scalable indicator set for combining practical management of climate action plans and impact modelling in cities

J. Tuomisto^{*}, J. Yrjölä, Kausal Ltd, Finland

[P1.080]

Understanding the dynamic complexity of e-buses implementation: A systems thinking approach

Alyson Rodrigues*, Sônia Seixas, *UNICAMP, Brazil*

[P1.81]

Eternal slumber and (im)permanent dwellers: Making spaces in Manila North Cemetery, the Philippines

Carl Russel Reyes*, *Ateneo de Manila University, The Philippines*

Poster Session 2
14:00-15:00 Wednesday, 9 November, 2022 / Tramuntana 1 & 2

[PT2A.01]

Environmental planning in Quibdó, Colombia: Strategies for stormwater management and biodiversity restoration under urban expansion

Rose Winer*, *MIT, USA*

[PT2A.02]

Is climate change a laughing matter?

Emma Carroll-Monteil*, *Edinburgh University, UK*

[PT2A.03]

How do future patterns of urbanisation affect climate risk?: Examples from the UK OpenCLIM project

Alistair Ford*^{1,2}, James Virgo¹, Craig Robson¹, ¹*Newcastle University, UK*,²*Tyndall Centre for Climate Change Research, UK*

[PT2A.04]

Learning cities, innovative potential of cities in mining regions

Zbigniew Makięta*, *WSB University, Poland*

[PT2A.05]

An enhanced approach to climate risk assessments in urban environments: evaluating indirect risk and identifying co-benefits for better adaptation and long term planning

M. Anderson*, T. Logan, *University of Canterbury, New Zealand*

[PT2B.01]

The multiple benefits of active mobility for people and the environment (and how we achieve them)

Natasa Hodzic-Srndic, Kathrin Raunig*, *AustriaTech, Austria*

[PT2B.02]

Walking to school: Behaviours and perceptions of adolescents living within walking distance to their school

S. Mandic*^{1,2}, E. García Bengoechea^{3,4}, D. Hopkins⁵, K. Coppell⁶, M. Smith⁷, A. Khan⁸, J. Spence⁹, ¹*Auckland University of Technology, New Zealand*,²*AGILE Research Ltd., New Zealand*,³*University of Limerick, Ireland*,⁴*Sport Ireland, Ireland*,⁵*University of Oxford, UK*,⁶*University of Otago, New Zealand*,⁷*The University of Auckland, New Zealand*,⁸*The University of Queensland, Australia*,⁹*University of Alberta, Canada*

[PT2B.03]

Co-creating with youth: A scientific approach to placemaking for youth-friendly urban spaces promoting adolescent health and well-being in Reigersbos, Amsterdam – A Health CASCADE project

K. Goh, S. Rachdan*, *Amsterdam Public Health research institute, Amsterdam University Medical Center, The Netherlands*

[PT2B.04]

Urban street use: An all-users, all-uses framework

Abbas SheikhMohammadZadeh, Nicolas Saunier, E.O.D Waygood*, *Civil, Geological and Mining Engineering Department, Polytechnique Montréal, Canada*

[PT2B.05]

Exploring walking and cycling accessibility using network-based built environment indicators of safety, comfort, and attractiveness

Corin Staves*¹, SM Labib², Irena Itova¹, Qin Zhang³, Jenna Panter¹, Aruna Sivakumar⁴, Audrey de Nazelle⁴, Belen Zapata-Diomedes⁵, Ali Abbas¹, Tayebbeh Saghapour⁵, Lucy Gunn⁵, John Gulliver⁶, Afshin Jafari⁵, Dharendra Singh⁵, Luke Knibbs⁷, James Woodcock¹, Rolf Moeckel³, Billie Giles-Corti⁵, ¹*University of Cambridge, UK*,²*Utrecht University, The Netherlands*,³*Technical University of Munich, Germany*,⁴*Imperial College London,*

UK,⁵Royal Melbourne Institute of Technology, Australia,⁶University of Leicester, UK,⁷University of Sydney, Australia

[PT2C.01]

What is a physical activity enabling neighborhood - from an urban planning perspective

Yufang Zhang*, University of Groningen, The Netherlands

[PT2C.02]

Air pollution increases stress while cycling and walking, but not driving

Xiuleng Yang¹, Emma McCoy¹, Guillem Vich², Esther Anaya-Boig¹, Ione Avila-Palencia³, Christian Brand⁴, Gloria Carrasco-Turigas², Evi Dons⁵, Regine Gerike⁶, Thomas Göetschi⁷, Mark Nieuwenhuijsen², Juan Pablo Orjuela⁴, Luc Int Panis⁸, Arnout Standaert⁸, Audrey de Nazelle^{*1}, ¹Imperial College London, UK,²Barcelona Institute for Global Health, Spain,³Queen's University Belfast, UK,⁴University of Oxford, UK,⁵Hasselt University, Belgium,⁶Dresden University of Technology, Germany,⁷University of Oregon, USA,⁸Flemish Institute for Technological Research, Belgium

[PT2C.03]

Do neighbourhood traffic-related air pollution and socio-economic status moderate the associations of the neighbourhood physical environment with cognitive function? Findings from the AusDiab study

E. Cerin^{*1}, A. Barnett¹, G. Poudel¹, E. Martino², J.E. Shaw³, L.D. Knibbs⁴, B. Jalaludin⁵, K.J. Anstey⁵, ¹Australian Catholic University, Australia,²University of Melbourne, Australia,³Baker Heart and Diabetes Institute, Australia,⁴The University of Sydney, Australia,⁵University of New South Wales, Australia

[PT2C.04]

Detecting changes in urban mobility during the covid-19 pandemic using mobile phone tracking data

Ossi Kotavaara^{*1}, Tiina Lankila^{2,3}, Terhi Ala-Hulkko^{2,1}, Harri Antikainen², ¹University of Oulu, Kerttu Saalasti Institute, Finland,²University of Oulu, Geography research unit, Finland,³Department of Sports and Exercise Medicine, Oulu Deaconess Institute Foundation sr., Finland

[PT2C.05]

Are all pedestrians the same? Characterization of pedestrian perception of sidewalk attributes

M.I. Lopez-Rodriguez¹, J.A. Vallejo-Borda^{*2,3,4}, ¹TransMilenio S.A., Colombia,²Departamento de Ingeniería Civil, Universidad de Cartagena, Colombia,³Departamento de Ingeniería Civil, Universidad de Investigación y Desarrollo, Colombia,⁴BRT+ Centre of Excellence, Pontificia Universidad Católica de Chile, Chile

[PT2C.06]

Are neighborhood leisure spaces associated with physical activity of socially vulnerable preschoolers?

Clarice Martins^{1,2}, Anastácio Filho², Maria Paula Santos^{*3,4}, ¹Research Center in Physical Activity, health and Leisure (CIAFEL)-Faculty of Sports-University of Porto (FADEUP); and Laboratory for Integrative and Translational Research in Population Health (ITR), Porto, Portugal,²Federal University of Paraíba, Brazil,³Research Center in Physical Activity, health and Leisure (CIAFEL)-Faculty of Sports-University of Porto (FADEUP), Portugal,⁴; and Laboratory for Integrative and Translational Research in Population Health (ITR), Porto, Portugal

[PT2D.01]

Housing conditions and consumer food practices: Different stakeholders' perspectives

Lukar Thornton*, University of Antwerp, Belgium

[PT2D.02]

A multidisciplinary and integrated approach to urban health-equity policies

Roberto Di Monaco^{*1}, Silvia Pilutti², Nicolas Zengarini³, Roberto Gnani³, Teresa Spadea³, Giuseppe Costa⁴, ¹Department of Cultures, Politics & Society, University of Turin, Italy,²Prospettive ricerca socio-economica SAS, Italy,³Regional Epidemiology Unit (SEPI), ASL TO3, Piedmont, Italy,⁴Department of Biological and Clinical Sciences, University of Turin, Italy

[PT2D.03]

Regenerative parallaxing: Framing hegemonic environmental politics analysis within a transcalar environmental (in) justice framework

Laila Vivas^{*1,2}, Aline Chiabai¹, ¹*Basque Centre for Climate Change (BC3), Spain,*²*University of the Basque Country (UPV/EHU), Spain*

[PT2D.04]

Understanding the impact of transport projects on the land use through gentrification process in Latin American cities

Rebeca Assis^{*}, Carlos Loureiro, *Federal University of Ceará, Brazil*

[PT2D.05]

Let's make urban greening easier: A response to public authorities' request for simpler evaluation of green and blue projects benefits

Jiří Louda^{*1}, Jan Macháč², Marek Hekrl², Lenka Dubová², Kristýna Rybová², Lenka Slavíková², ¹*Jan Evangelista Purkyně University in Usti nad Labe, Czech Republic,*²*Jan Evangelista Purkyně University in Usti nad Labem, Czech Republic*

[P2.003]

Sea view visibility, coastal proximity, and mental health in the aftermath of a natural disaster, Japan

Ai Tashiro^{*1}, Tomoki Nakaya², ¹*The University of Tokyo, Japan,*²*Tohoku University, Japan*

[P2.024]

Understanding park-based health-promoting behavior with large-scale social media data: the case of Tianjin, China

Tianyu Su¹, Maoran Sun^{*2}, ¹*Harvard University, USA,*²*Massachusetts Institute of Technology, USA*

[P2.025]

Air quality and comfort analysis of studying home or at the university

Elisenda Clèries Tardío^{*1}, Alba Ruiz de Alegría-Sala², Lluç Canals Casals², Jaume Salom Tormo¹, ¹*IREC - Catalonia Energy Research Institute, Spain,*²*UPC - Polytechnic University of Catalonia, Spain*

[P2.026]

Understanding and modeling experiences in urban environments using a computational model of emotion: A conceptual framework

S. Yang^{*}, P.E.W. Van den Berg, G.Z. Dane, T.A. Arentze, *Eindhoven University of Technology, The Netherlands*

[P2.028]

Evaluating spatiotemporal modal accessibility to community pharmacy services in Lisbon municipality

Cláudia M. Viana^{*1}, Jorge Rocha¹, David S. Vale², ¹*Centre for Geographical Studies, Laboratório Associado TERRA, Institute of Geography and Territorial Planning, University of Lisbon, Portugal,*²*CIAUD, Lisbon School of Architecture, University of Lisbon, Portugal*

[P2.029]

The impact of the built environment on health and well-being within older adults, marginalized racial groups, and women

Margo Berthier^{*}, *McGill University, Canada*

[P2.030]

Community-engaged and data-informed systems transformation of urban green and blue space for population health – the groundswell consortium

Ruth Hunter¹, Sarah Rodgers², Jeremy Hilton³, Mike Clarke¹, Leandro Garcia¹, Catharine Ward Thompson⁴, Rebecca Geary², Mark Green², Ciaran O'Neill¹, Alberto Longo¹, Rebecca Lovell⁵, Ben Wheeler⁵, Alex Nurse², Ana Porroche-Escudero⁶, Rich Mitchell⁷, Ruth Jepson^{*4}, ¹*Queen's University Belfast, UK,*²*University of Liverpool, UK,*³*Cranfield University, UK,*⁴*University of Edinburgh, UK,*⁵*University of Exeter, UK,*⁶*University of Lancaster, UK,*⁷*University of Glasgow, UK*

[P2.031]

Association between nature relatedness and physical activity in adults—a population-based northern Finland birth cohort 1986 study

Pekka Korpelainen^{*1}, Soile Puhakka^{1,2,3}, ¹*Department of Sports and Exercise Medicine, Oulu Deaconess Institute, Finland,* ²*Center for Life Course Health Research, Faculty of Medicine, University of Oulu, Finland,* ³*The Geography Research Unit, Faculty of Science, University of Oulu, Finland*

[P2.032]

Real-time traffic-based adjustment of a high-resolution air quality model and communication of personal exposure via mobile app

Tilman Leo Hohenberger^{*1}, Wenwei Che², Alexis Kai Hon Lau¹, Jimmy Chi Hun Fung¹, ¹*Hong Kong University of Science and Technology, Hong Kong,* ²*Hong Kong EPD, Hong Kong*

[P2.033]

Comparable diameter and light availability resulted to bigger leaf area and denser foliage in the park than street trees: A study on Norway maple

Hailiang Lyu^{*1,2}, Anna Dermann¹, Florian Dermann¹, Somidh Saha¹, ¹*KIT-ITAS, Germany,* ²*Heilongjiang Bayi Agricultural University, China*

[P2.034]

Integrating health into local Urban Master Plans: Case study application in the midsize city of Vic (Barcelona)

A. Puig-Ribera^{*1}, M. Rofin², J. Bort-Roig¹, E. Aumatell³, A. Juncà¹, M. De San Pedro¹, F. Garcia-Cuyàs¹, C. Chamorro⁴, L. Perona-Ribes⁵, JR. Torrento⁴, G. Jabardo-Camprubí¹, F. Palmero², M. Geli¹, ¹*Centre for Health and Social Care, University of Vic-Central University of Catalonia, Spain, Spain,* ²*Vic City Council, Spain,* ³*Open University of Catalonia, Spain,* ⁴*Public Health Department, Barcelona Provincial Council, Spain,* ⁵*Urbanism Department, Barcelona Provincial Country, Spain, Spain*

[P2.035]

Cycling in the urban environment: A co-occurrence analysis

L. Antón-González^{*}, M. Pans, L. Millán-González, J. Devís-Devís, *University of Valencia, Spain*

[P2.036]

Residential history and changes in perceived health from young adulthood to midlife among the Northern Finland Birth Cohort 1966

T. Lankila^{*1,2}, S. Puhakka^{1,2}, M. Kärmeniemi³, M. Kangas⁴, J. Rusanen¹, R. Korpelainen^{2,3,5}, ¹*The Geography Research Unit, Faculty of Science, University of Oulu, Finland,* ²*Department of Sports and Exercise Medicine, Oulu Deaconess Institute Foundation sr., Finland,* ³*Center for Life Course Health Research, Faculty of Medicine, University of Oulu, Finland,* ⁴*Northern Finland Birth Cohorts, Arctic Biobank, Infrastructure for Population Studies, Faculty of Medicine, University of Oulu, Finland,* ⁵*Medical Research Center Oulu, Oulu University Hospital and University of Oulu, Finland*

[P2.037]

Introduction to design requirements for Tactile Mobility Maps and its collective use

Jaume Gual-Ortí^{*}, Joaquin A. Martinez-Moya, M^a Jesús Mañez-Pitarch, Julio Serrano-Mira, *UNIVERSITAT JAUME I, Spain*

[P2.039]

Impacts of urban form and built environment characteristics on travel satisfaction and subjective well-being during the COVID-19 pandemic in Greater Montreal, Canada

Meredith Alousi-Jones, E.O.D. Waygood^{*}, Geneviève Boisjoly, *Polytechnique Montréal, Canada*

[P2.040]

Optimising distribution routes of pharmaceutical products to supply rural areas in Catalonia

Cristian Castillo^{*1}, Laura Calvet², Eduard J. Alvarez-Palau¹, Angel A. Juan³, Marta Viu-Roig¹, ¹*Faculty of Business and Economics, Universitat Oberta de Catalunya, Spain,* ²*Computer Science Dept., Universitat Oberta de Catalunya, Spain,* ³*Dept. of Applied Statistics and OR, Universitat Politècnica de València, Spain*

[P2.041]

A dilemma of the poor: Choices between food, water, and energy in informal settlements

Ellis Adjei Adams^{*1,2}, Godfred Boateng³, ¹*Keough School of Global Affairs, University of Notre Dame, USA,* ²*Eck Institute for Global Health, University of Notre Dame, USA,* ³*School of Global Health, York University, Canada*

[P2.042]

Built environment determinants of transport mode choice: Single and multilevel approaches

Tayebah Saghapour¹, Lucy Gunn^{*1}, Gavin Turrell¹, Carl Higgs¹, Billie Giles-Corti¹, James Woodcock², Belen Zapata-Diomedí¹, Afshin Jafari¹, Corin Staves², Dharendra Singh¹, Alan Both¹, Liton Kamruzzaman³, Labib S.M.², Haneen Khreis², Audrey de Nazelle⁴, Ori Gudes⁵, Irena Itova⁶, ¹*RMIT University, Australia,* ²*University of Cambridge, UK,* ³*Monash University, Australia,* ⁴*Imperial College London, UK,* ⁵*University of New South Wales, Australia,* ⁶*University of Westminster, UK*

[P2.043]

Association between air pollution and human health in urban cities

Joseph Sánchez-Balseca^{1,2}, Agustí Pérez-Foguet^{*2}, ¹*Pontificia Universidad Católica del Ecuador, Ecuador,* ²*Universitat Politècnica de Catalunya – BarcelonaTech (UPC), Spain*

[P2.044]

A study on the spatio-temporal association between air pollutants and the mortality of cardiovascular and respiratory systems

H.S. Hwang^{*}, J.E. Kang, J.H. Ha, *Pusan National University, Republic of Korea*

[P2.045]

Interactions between personal and environmental factors while walking through urban environments – opportunities and limitations of walking-triggered e-diaries

Martina Kanning^{*1}, Lukas Bollenbach¹, Julian Schmitz², Christina Niermann³, Stefan Fina², ¹*Department of Sport Science, University of Konstanz, Germany,* ²*Research Institute for Regional and Urban Development gGmbH, Germany,* ³*MSH Medical School Hamburg, Germany*

[P2.046]

Factors influencing usage of urban blue spaces: A systems-based approach to identify leverage points

Niamh Smith^{*1}, Michail Georgiou¹, Abby C King², Zoë Tieges^{1,3,4}, Sebastien Chastin^{1,5}, ¹*School of Health and Life Sciences, Glasgow Caledonian University, UK,* ²*Departments of Epidemiology & Population Health and Medicine (Stanford Prevention Research Centre), Stanford University School of Medicine, USA,* ³*Geriatric Medicine, Usher Institute, University of Edinburgh, UK,* ⁴*SMART Technology Centre, School of Computing, Engineering and Built Environment, Glasgow Caledonian University, UK,* ⁵*Department of Movement and Sports, Ghent University, Belgium*

[P2.047]

Built environment attributes fostering older adults' active mobility in small and medium-sized towns

P. Hasselder^{*1}, T. Brüchert¹, P. Quentin², S. Baumgart³, G. Bolte¹, ¹*University of Bremen, Germany,* ²*TU Dortmund University, Germany,* ³*BPW-Stadtplanung, Bremen, Germany*

[P2.048]

Urban blue spaces and human health: A systematic review and meta-analysis of quantitative studies

Niamh Smith^{*1}, Michail Georgiou¹, Abby C King², Zoë Tieges^{1,3,4}, Sebastien Chastin^{1,5}, ¹*School of Health and Life Sciences, Glasgow Caledonian University, UK,* ²*Departments of Epidemiology & Population Health and Medicine (Stanford Prevention Research Centre), Stanford University School of Medicine, USA,* ³*Geriatric Medicine, Usher Institute, University of Edinburgh, UK,* ⁴*SMART Technology Centre, School of Computing,*

[P2.049]

A methodological framework for urban green space management considering the interrelationship between ecological quality and human health

H Koo^{*1}, S Knapp^{2,3}, O Arranz-Becker^{1,3}, I Fritsche^{4,3}, N.C Caló¹, C Fürst^{1,3}, ¹Martin-Luther-University Halle-Wittenberg, Germany,²Helmholtz Centre for Environmental Research, Germany,³German Centre for Integrative Biodiversity Research, Germany,⁴University of Leipzig, Germany

[P2.050]

Assessing particulate matter intake dose for indoor and outdoor activities and microlocations in an urban environment

Rok Novak^{*1}, David Kocman¹, Johanna Amalia Robinson¹, Tjaša Kanduč¹, Dimosthenis Sarigiannis^{2,3,4}, ¹Department of Environmental Sciences, Jožef Stefan Institute, Slovenia,²Environmental Engineering Laboratory, Department of Chemical Engineering, Aristotle University of Thessaloniki, Greece,³HERACLES Research Centre on the Exposome and Health, Center for Interdisciplinary Research and Innovation, Greece,⁴University School of Advanced Study IUSS, Italy

[P2.051]

Associations between micromobility modes and physical activity levels in barcelona city

Alexandra Bretones^{*1}, Oriol Marquet², ¹Universidad Autónoma de Barcelona (UAB), Spain,²Instituto de Ciencias y Tecnología Ambientales (ICTA), Spain

[P2.052]

Does the Built Environment Impact Weekly Walking Behavior? Evidence from Google Location History Data

Qin Zhang^{*1}, Rolf Moeckel^{1,2}, Kelly Clifton³, ¹Technical University of Munich, Germany,²Munich Data Science Institute, Germany,³The University of British Columbia, Canada

[P2.053]

Urban nudging - a recipe for healthier urban living?

E. Rönkkö^{*}, E. Juuti, P. Markkanen, A. Luusua, H-L. Hentilä, University of Oulu, School of Architecture, Finland

[P2.054]

Impacts of current and future mobility plans on air quality in the urban area of Barcelona

M. Guevara^{*1}, D. Rodríguez-Rey¹, S. Enciso¹, C. Tena¹, A. Criado¹, J.M. Armengol¹, J. Benavides², A. Soret¹, O. Jorba¹, C. Pérez-García Pando^{1,3}, ¹Barcelona Supercomputing Center, Spain,²Department of Environmental Health Sciences, Mailman School of Public Health, USA,³ICREA, Catalan Institution for Research and Advanced Studies, Spain

[P2.055]

The effect of urban land use and spatial structure on regional resilience

J Kim^{*1}, J Nam², ¹Department of Smart Cities in Graduate School, University of Seoul,, Republic of Korea,²Department of Urban Planning and Design & Department of Smart Cities in Graduate School, University of Seoul,, Republic of Korea

[P2.056]

Expanding access to urban gardening – the contributions of volunteer-led community gardens and adoption/sharing garden schemes

Yi Zhang^{*1}, Jazzy Browne², Jamie Hilton³, CM (Tilly) Collins¹, ¹Imperial College London, UK,²Nubian Life Resource Centre, UK,³Fulham Good Neighbours, UK

[P2.057]

A data-fusion methodology to assess hourly NO₂ levels and their uncertainty over Barcelona city

A. Criado^{*1}, J.M. Armengol¹, H. Petetin¹, J. Benavides^{1,2}, D. Rodríguez-Rey¹, M. Guevara¹, C. Pérez García-Pando^{1,3}, A. Soret¹, O. Jorba¹, ¹Barcelona Supercomputing Center, Spain,²Department of Environmental

Health Sciences, Mailman School of Public Health, Columbia University, USA,³ICREA, Catalan Institution for Research and Advanced Studies, Spain

[P2.058]

Is built environment change over time associated with mortality across small areas in Scotland?

Laura Macdonald*, Natalie Nicholls, Denise Brown, Richard Mitchell, *Social and Public Health Sciences Unit, University of Glasgow, UK*

[P2.059]

Modelling environmental exposure on the urban-scale using an agent-based approach

Bin Zhou*, David Jean Du Preez, Katrin Gohlsch, Robin Kara, Christoph Knotte, *Model-based Environmental Exposure Science, Faculty of Medicine, University of Augsburg, Augsburg, Germany, Germany*

[P2.060]

Values and constraints of nature-based solutions in addressing injustice, empowerment and the right to the city: Insights from cities in the global north and south

Willi Bauer*, Alexandra Titz, Fred Krüger, *Friedrich-Alexander Universität Erlangen-Nürnberg, Germany*

[P2.061]

Integrated nature based infrastructure solutions to increase urban city resilience

Yamuna Kaluarachchi*, *Manchester School of Architecture, Manchester Metropolitan University, UK*

[P2.062]

Green or white (facade)?

MATJAŽ N. PERC¹, Hana Nekrep*², ¹*University of Maribor, Slovenia,*²*TU Wien, Austria*

[P2.063]

Compositional associations of 24-hour physical activities, sedentary time and sleep with depressive symptoms in urban and rural environments

M. Seppänen*^{1,2,3}, M. Niemelä^{3,4,5}, S. Puhakka^{1,2,3}, T. Lankila^{1,3}, M. Timonen^{2,6}, R. Korpelainen^{2,3,4}, V. Farrahi⁵, ¹*The Geography Research Unit, University of Oulu, Finland,*²*Center for Life Course Health Research, University of Oulu, Finland,*³*Department of Sports and Exercise Medicine, Oulu Deaconess Institute Foundation sr., Finland,*⁴*Medical Research Center, Oulu University Hospital and University of Oulu, Finland,*⁵*Research Unit of Medical Imaging, Physics and Technology, University of Oulu, Finland,*⁶*Unit of General Practice, Oulu University Hospital, Finland*

[P2.065]

An analysis of spatial-temporal variation in indoor air quality based on field measurements of an apartment

T. K. Bedi¹, S. P. Bhattacharya¹, C. Rathee*², ¹*Indian Institute of Technology, Kharagpur, India,*²*Indian Institute of Technology Roorkee, India*

[P2.066]

Thermal comfort assessment of a naturally ventilated residential building to emphasize Vastushastra principles for the built environment

A. A. Kaushal*, P. Anand, B. H. Aithal, *Indian Institute of Technology, Kharagpur, India*

[P2.067]

Usage of mobile apps to support active transportation: Scoping review

Nuttanun Siriaporn*¹, Audrey de Nazelle², Pascal Staccini¹, Gilles Maignant¹, Anne Vuillemin¹, ¹*Université Côte d'Azur, France,*²*Imperial College London, UK*

[P2.068]

Major changes in public transport vehicles and their impact on drivers' occupational exposure

Viviane Remy, David Vernez, Irina Guseva Canu*, *Unisanté, Switzerland*

[P2.069]

Environmental barriers to leisure-time physical activity: Safety concerns among public transport users

Valéria Vieira^{1,2}, Maria Paula Santos^{*2,3}, Thiago Mendes⁴, Andreia Pizarro^{2,3}, Elenir Jardim Cury¹, ¹Federal University of Mato Grosso do Sul, Brazil,²University of Porto, Faculty of Sport, Research Centre in Physical Activity Health and Leisure, Portugal,³Laboratory for Integrative and Translational Research in Population Health (ITR, Portugal),⁴Centre of Studies in Geography and Spatial Planning (CEGOT), Portugal

[P2.070]

Navigation landmarks in built environments for Mild Cognitive Impairment (MCI) and a bibliometric analysis using citespace

C. Qu¹, J. Pan¹, X. Wu¹, Shuhan Fang^{*2}, ¹Fuzhou University, China,²Columbia University, USA

[P2.071]

Environmental health impacts and inequalities in green space and air pollution exposures in six European cities

Evelise Pereira Barboza^{*1,2,3}, Kiran Apsunde⁴, Marta Cirach^{1,2,3}, John Gallagher⁴, Julia Gäeckle⁵, Tamara lungman^{1,2,3}, Hans Keune⁶, Sasha Khomenko^{1,2,3}, Tadhg Macintyre⁷, Natalie Mueller^{1,2,3}, Mark Nieuwenhuijsen^{1,2,3}, ¹Barcelona Institute for Global Health, ISGlobal, Spain,²Department of Experimental and Health Sciences, Pompeu Fabra University, Spain,³CIBER Epidemiología y Salud Pública, Spain,⁴Trinity College Dublin, Ireland,⁵RWTH Aachen University, Germany,⁶Universiteit Antwerpen, Belgium,⁷Maynooth University, Ireland

[P2.072]

The role of mindfulness practices as a key element for a conceptual framework of behavior and health in green environments.

D. Muñoz^{*1}, F. Magrinyà², ¹Polytechnic University of Catalonia, Spain,²UPC-DECA-EXIT, Spain

[P2.073]

AI for near-real-time estimation of fluid flow

Fritz Nieborowski^{*}, Hong Kong University of science and technology, Hong Kong

[P2.074]

Hotspot detection of transformation opportunities for both biodiversity and people in three school neighborhoods in Barcelona

Mariona Ferrandiz-Rovira^{*1,2,3}, Oriol Serra³, Jordi Noya², Danielly García⁴, Maria-Eulàlia Parés⁴, ¹CREAF, Cerdanyola del Vallès, Catalonia, Spain,²BABVE, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Catalonia, Spain,³Replantegem, Spain,⁴Geomatics Research Unit, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC/CERCA), Spain, Spain

[P2.075]

Bridging Urban Public Health actions to the Regional Prevention Plan (RPP) 2020-2025 of Lombardy (Italy). An assessment tool experience

A. Rebecchi¹, G. Ferraguzzi^{*2}, P.G. Della Valle³, M. Tirani⁴, S. Capolongo¹, M. Buffoli¹, N. Cornaggia⁴, F. Putignano⁴, C. Celata⁴, F. Grosso², S. Castaldi², D. Cereda⁴, ¹Design&Health Lab. Department of Architecture, Built environment and Construction engineering (ABC) Politecnico di Milano, Italy,²Department Biomedical Sciences for Health, University of Milan, Italy,³Department of Public Health, Experimental and Forensic Medicine, University of Pavia, Italy,⁴DG Welfare, Lombardy Region, Milan, Italy

[P2.076]

Urban green spaces and cognitive development in children: a health impact assessment of the Barcelona "Eixos Verds - Green Axis" Plan

Jet Oproek^{*}, Evelise Pereira Barboza, Mark Nieuwenhuijsen, Natalie Mueller, Institute for Global Health Barcelona - IS Global, Spain

[P2.077]

Connect the dots project: Experience of joining food production and sustainability in public policy for a healthier and sustainable urban living in the megacity of São Paulo, Brazil

Ana Maria Bertolini*, Gabriela di Giulio, *School of Public Health of University of São Paulo, Brazil*

[P2.078]

Innovative geo-referencing system for epidemiological investigation of Legionella outbreaks in Lombardy Region (Italy)

G. Ferraguzzi^{*1}, P.G. Della Valle², M. Tirani³, S. Capolongo⁴, M. Buffoli⁴, M. Gola⁴, N. Cornaggia³, V. Todeschini³, F. Grosso¹, S. Castaldi¹, D. Cereda³, ¹*Department Biomedical Sciences for Health, University of Milan, Italy,* ²*Department of Public Health, Experimental and Forensic Medicine, University of Pavia, Italy,* ³*DG Welfare, Lombardy Region, Milan, Italy,* ⁴*Design&Health Lab. Department of Architecture, Built environment and Construction engineering (ABC) Politecnico di Milano, Italy*

[P2.079]

PlanClimaSP: the intersections between Nature-Based Solutions and adaptation to climate change in São Paulo - Brazil

Ana Carolina Figueiredo*, Gabriela Marques Di Giulio, *School of Public Health of University of São Paulo, Brazil*

[P2.080]

Impact of analogous green roofs on surface urban heat island using random forest regression: A case study in Liege, Belgium

M.Y. Joshi*, J. Teller, *LEMA research group, Urban and environmental engineering department, University of Liege, Belgium*

[P2.081]

Do the waste fires change our neighborhood? Analysis of combined data to asses landscape impact of waste fires

Jan Bihalowicz*, Wioletta Rogula-Kozłowska, *Institute of Safety Engineering, The Main School of Fire Service, Poland*

[P2.082]

Sustainability evaluation of an integrated use of trip sharing and public transport in the health care sector

Jana Voegl^{*1}, Lorena Reyes-Rubiano², Patrick Hirsch¹, ¹*University of Natural Resources and Life Sciences, Vienna, Institute of Production and Logistics, Austria,* ²*Otto-von-Guericke-Universität Magdeburg, Chair of Operations Management, Germany*

[P2.083]

Long-term impacts of the Covid-19 pandemics on mobility of urban population – panel data analysis

Hana Bruhova Foltynova*, Jan Bruha, *Faculty of Social and Economic Studies, Jan Evangelista Purkyně University in Ústí nad Labem, Czech Republic*

[P2.084]

Using Twitter to assess the influence of urban environment on well-being in Lisbon population

Iuria Betco¹, Luis Encalada-Abarca^{1,2}, Ana I. Ribeiro^{3,4,5}, David S. Vale⁶, Jorge Rocha^{*1,7}, ¹*Institute of Geography and Spatial Planning, University of Lisbon, Portugal,* ²*Universidad Espíritu Santo, Ecuador,* ³*EPIUnit – Instituto de Saúde Pública, Universidade do Porto,, Portugal,* ⁴*Departamento de Ciências da Saúde Pública e Forenses e Educação Médica, Faculdade de Medicina, Universidade do Porto,, Portugal,* ⁵*Laboratório para a Investigação Integrativa e Translacional em Saúde Populacional (ITR),, Portugal,* ⁶*Lisbon School of Architecture, University of Lisbon, Portugal,* ⁷*Associated Laboratory Terra, Portugal*

[P2.085]

Mobility planning strategies and their correlation with health effects. Evaluation of the case of municipalities of the Metropolitan Region of Barcelona

Francesc Magrinyà*, Pau Julià, *Universitat Politècnica de Catalunya-DECA-EXIT, Spain*

[P2.086]

A systematic review and meta-analysis on the effect of urbanization in arthropods

Olivia Sanllorente^{*1}, Alfredo Sanchez-Tojar², Endika Blanco¹, Juan Diego Ibáñez-Álamo¹, ¹University of Granada, Spain, ²Bielefeld University, Germany

[P2.087]

Area-based vs. route-based indicators of the built environment: What explains active transport behaviour better?

Ori Gudes^{*1}, Liton Kamruzzaman¹, Corin Stave², Alan Both³, Irena Itova⁴, S.M. Labib⁵, James Woodcock², Dharendra Singh³, Lucy Gunn³, Afshin Jafari³, Billie Giles-Corti³, Tayebah Saghapour³, Jenna Pante², Haneen Khreis², Belen Zapata-Diomedí³, ¹Monash University, Australia, ²University of Cambridge, UK, ³RMIT, Australia, ⁴University of Westminster, UK, ⁵Utrecht University, The Netherlands

[P2.088]

Large-scale monitoring of personal exposure to air pollution during pregnancy

Pol Jiménez-Arenas^{*1}, Paula de Prado¹, Beatriz Jurado¹, Berta Miralles¹, Cecilia Persavento¹, Mar Álvarez-Pedrerol¹, Mark Nieuwenhuijsen^{1,2,3}, Cathryn Tonne^{1,2,3}, Teresa Moreno^{4,5}, Elisa Llurba⁶, Maria Dolores Gómez-Roig⁷, Maria Foraster¹, Xavier Querol^{4,5}, Payam Dadvand^{1,2,3}, Jordi Sunyer^{1,2,3}, Ioar Rivas^{1,4}, ¹Barcelona Institute for Global Health (ISGlobal), Spain, ²Universitat Pompeu Fabra (UPF), Spain, ³Consorcio de Investigación Biomédica en Red – Epidemiología y Salud Pública (CIBERESP), Spain, ⁴CSIC Associated Unit of Environmental Epidemiology and Air Quality (UA EEQ), Spain, ⁵Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain, ⁶Obstetrics and Gynaecology Department, High Risk Unit, Sant Pau University Hospital, Spain, ⁷BCNatal, Hospital Sant Joan de Déu and Hospital Clínic, Universitat de Barcelona, Spain

[P2.089]

Implications of off-peak commercial deliveries for air quality and environmental justice

S Torbatian^{*1}, M Saleh¹, L Minet², Sh Gamage¹, Sh Yamanouchi¹, T Chowdhury¹, J Vaughan¹, A Wang^{1,3}, K Mousavi¹, M Roorda¹, M Hatzopoulou¹, ¹University of Toronto, Canada, ²University of Victoria, Canada, ³Massachusetts Institute of Technology, USA

[P2.090]

Communicating air pollution: Public empowerment or frustration?

Joohee Lee¹, Hana Kim^{*2}, ¹University of Delaware, USA, ²KAIST, Republic of Korea

[P2.091]

Campus-Community Partnership to Characterize Air Pollution in a Toronto Neighbourhood

E. Farrar^{*1}, N. Kobayaa¹, W. Jaafar¹, S. Torbatian¹, S. Mahagammulla Gamage¹, B. Bowen², J. Brook¹, A. Chan¹, G. Evans¹, M. Giroux³, A. Homewood⁴, C. Jeong¹, L. Monette³, J. Prowse³, J. Siegel¹, B. Thorpe³, J. Xu¹, M. Hatzopoulou¹, ¹University of Toronto, Canada, ²City of Toronto, Canada, ³Bathurst Quay Neighbourhood Association, Canada, ⁴Billy Bishop Toronto Airport, Canada

[P2.092]

Examining rural/urban, socioeconomic, and racial disparities in US church neighborhood walkability

Kelsey Day^{*}, Sara Wilcox, Gabriel Benavidez, University of South Carolina Arnold School of Public Health, USA

[P2.093]

Decline of environmental health due to poorly planned urbanization and its relationship with morbidity of cerebrovascular diseases

Valentina Davydova Belitskaya^{*1}, Martha Georgina Orozco Medina¹, Daniel Alamilla Chan², Arturo Figueroa Montaño³, ¹Department of Environmental Sciences, University of Guadalajara, Mexico, ²Student of Master's Degree in Sciences of the Environmental Health, University of Guadalajara, Mexico, ³Department of Physics, University of Guadalajara, Mexico

[P2.094]

Re-discovery of urban green spaces and their contribution to health and wellbeing during the SARS-CoV-2 pandemic - implications for sustainable transitions of metropolitan areas

Alexandra Jiricka-Pürerer, Jacqueline Wilfer*, Donna Tansil, Karolina Taczanowska, *University of Natural Resources and Life Sciences Vienna, Austria*

[P2.095]

The role of stakeholders in creating mobility in a city's logistics system

Edyta Przybylska, Marzena Kramarz, Katarzyna Dohn*, *Silesian University of Technology, Poland*

[P2.096]

Biodegradable water absorbing geocomposites (BioWAG) - the novel solution for greening of cities and nature based solutions

Krzysztof Lejcuś*, Daria Marczak, Jakub Misiewicz, Michał Śpitalniak, *Wrocław University of Environmental and Life Sciences, Poland*

[P2.097]

Transport in urban areas – Impacts on environment and health

Christina Mitsakou*, Artemis Doutsis, Alison Gowers, Karen Exley, *UK Health Security Agency, UK*

[P2.098]

Testing local under-valued resources for the innovation of urban vertical greenery systems

Matilde Molari*, Laura Dominici, Elena Comino, *Politecnico di Torino, Italy*

[P2.099]

The impact of family allotments garden on the quality of life on the example of the city of Katowice

Katarzyna Hodor¹, Paulina Rduch^{*2}, ¹*Cracow University of Technology, Poland*, ²*Metropolis GZM, Poland*

[P2.100]

Tiny private gardens by the multifamily housing, a way to green the city or just greenwashing?

Anna Gałęcka-Drozda^{*1}, Agnieszka Wilkaniec¹, Magdalena Szczepańska², ¹*Poznan University of Life Sciences, Department of Landscape Architecture, Poland*, ²*Adam Mickiewicz University in Poznań, Faculty of Human Geography and Planning, Poland*

[P2.101]

Building of the Urban Living Lab for evidence-based urban transport planning

DAVID KOČMAN*, DAVOR KONTIĆ, ROK NOVAK, JURE FTIČAR, MIHA PRATNEKER, JANJA SNOJ TRATNIK, *Jožef Stefan Institute, Slovenia*

[P2.102]

Mitigating the effects of urban heatwaves on elderly citizens: Findings from The Hague

Sylvia Bergh^{1,2}, Erwin Van Tuijl^{2,3}, Ashley Longman^{*1}, Saskia Ruijsink⁴, ¹*The Hague University of Applied Sciences, The Netherlands*, ²*International Institute of Social Studies, Erasmus University Rotterdam, The Netherlands*, ³*International Centre for Frugal Innovation, The Netherlands*, ⁴*TU Delft, The Netherlands*

Poster Session 3

14:00-15:00 Wednesday, 10 November, 2022 / Tramuntana 1 & 2

[PT3A.01]

Ecological connectivity in small cities in Poland – an overview

A. Cieszewska*, J. Adamczyk, R. Giedych, *Warsaw University of Life Sciences, Department of Landscape Architecture, Poland*

[PT3A.02]

An analysis of energy and resource usage in dormitory: A case study of Seoul National University's Gwanak residence hall

Jeonghyeon Park*, Sun-Jin Yun, *Seoul National University Graduate School of Environmental Studies, Republic of Korea*

[PT3A.03]

Anambra smart city move: The transition and transformational role of standard transport infrastructural development

Romanus Ayadiuno*¹, Dominic Ndulue^{1,2}, Alphonsus Ali¹, *¹University of Nigeria, Nsukka, Nigeria,²University of Ibadan, Oyo State, Nigeria*

[PT3A.04]

The right to a healthy city - from residents' needs to better planning

Anna Domaradzka¹, Mikolaj Biesaga*¹, Ewa Domaradzka², Magdalena Kolodziejczyk¹, *¹University of Warsaw, Institute for Social Studies, Poland,²Polish Academy of Sciences, Institute of Psychology, Poland*

[PT3A.05]

Active Urbanism: Metabolic rate, bone density, balance, stretching, mindfulness and other benefits of challenging city landscape versus conventional pavements

Anna Boldina*¹, Paul Hanel², Koen Steemers¹, *¹University of Cambridge, UK,²University of Essex, UK*

[PT3B.01]

**Urban agriculture planning and design as transformative approach for healthy and inclusive cities
May Garden, Kic garden and Sunqiao Uad in Shanghai as examples**

Y. Huan*, S. Nijhuis, N. Tillie, *Delft University of Technology, The Netherlands*

[PT3B.02]

Quantifying the traffic turn: How efficient is the bicycle path network compared to the total street network? A new measurement

Torvid Kreisler*, *Martin-Luther-University Halle-Wittenberg, Germany*

[PT3B.03]

Healthy urban planning: A search for meeting points of values and policy agendas

Milena Tasheva-Petrova*, Elena Dimitrova, Angel Burov, Irina Mutafchiiska, Mila Yolova, *University of Architecture, Civil Engineering and Geodesy, Bulgaria*

[PT3B.04]

Development scenarios of fringe areas in developing countries– a case of Gorakhpur, India

K. K. Maurya*, *National Institute of Technology Patna, India*

[PT3B.05]

Is it time to rethink public space allocation? A systematic literature review

F. Nogueira*¹, G. Valença^{2,1}, G. Santos³, A. Morais de Sá¹, A. P. Antunes³, F. Moura², *¹CiTUA, Instituto Superior Técnico, University of Lisbon, Portugal,²CERIS, Instituto Superior Técnico, University of Lisbon, Portugal,³CITTA, Department of Civil Engineering, University of Coimbra, Portugal*

[PT3C.01]

Validation of hydrological -hydraulic models to evaluate Nature-Based Solutions efficiency against flood risks in Sicily and Malta

Liviana Sciuto¹, Manuel Sapiano², Marzio Melis², Feliciana Licciardello^{*1}, Aaron Cutajar², Giuseppe Filetti³, Emanuela Rita Giuffrida¹, Salvatore Barresi¹, Giuseppe Cirelli¹, ¹*Department of Agriculture, Food and Environment (Di3A) – University of Catania, Italy,* ²*Energy & Water Agency, Malta,* ³*Dipartimento Regionale Tecnico – Regione Sicilia, Italy*

[PT3C.02]

Developing and piloting a citizen science App (Our Outdoors) and website to collect and share data on perceptions of health in outdoor spaces

Stephen Malden^{*1,2}, Craig McDougall^{1,2}, Philipp Hummer³, Andy Cope⁴, Ruth Jepson^{1,2}, ¹*University of Edinburgh, UK,* ²*Scottish Collaboration for Public Health Research and Policy, UK,* ³*Spotteron, Austria,* ⁴*Sustrans, UK*

[PT3C.03]

City/science intersections : A scoping review of “science for policy” in urban contexts

Marie-Christine Therrien^{*1}, Noémie Pascal¹, Joris Arnaud¹, Zoé Poirier Stephens², Yan Kestens², ¹*École nationale d'administration publique, Canada,* ²*École de santé publique de l'Université de Montréal, Canada*

[PT3C.04]

From pop-up to permanent: Promoting healthy, bike-friendly and sustainable urban mobility in post-covid. A case study on Berlin

Katharina Csillak, Simon Kaser^{*}, *Institute for Climate Protection, Energy and Mobility e.V., Germany*

[PT3C.05]

Coastal cities and marine architecture evolution regarding their relationship with the sea, exploring it as a main productive territory to supply the essential needs for global sustainable growth, tested by transferring The Plastic Sea made of greenhouses in Almería (Spain) into the ocean setting as an experiment

Maria Elisa Fernandez Ramos^{*}, *Cities Research Institute, Australia*

[PT3D.01]

Toward sustainable stormwater management: Simulation and evaluation of sponge city facilities in urban green space renovation

Liyun Liu^{*1}, Xiaolei Tan¹, Dongtian Chen¹, Wei Liu², ¹*Shandong Agricultural University, China,* ²*Qufu Normal University, China*

[PT3D.02]

Linkages between the concept of nature-based solutions (NBS) and the notion of landscape

Barbara Sowińska-Świerkosz^{*1}, Joan GARCÍA², Laura Wendling³, ¹*Department of Hydrobiology and Ecosystems Protections University of Life Sciences in Lublin, Poland,* ²*GEMMA-Group of Environmental Engineering and Microbiology Department of Civil and Environmental Engineering Universitat Politècnica de Catalunya-BarcelonaTech, Sri Lanka,* ³*VTT TECHNICAL RESEARCH CENTRE OF FINLAND LTD, Finland*

[PT3D.03]

University campuses are important urban areas for avian diversity

Lucía Izquierdo^{*1}, Rocío Ríos¹, Olivia Sanllorente¹, José Luis Molina-Pardo², Juan Diego Ibáñez-Álamo¹, ¹*University of Granada, Spain,* ²*University of Almería, Spain*

[PT3D.04]

How does green infrastructure influence air pollution?

Karina Corada^{*1,2}, Audrey de Nazelle¹, C Matilda (Tilly) Collins¹, Huw Woodward¹, ¹*Imperial College London, UK,* ²*University of East London, UK*

[PT3D.05]

Are urban forests ready for climate change? A climate-change risk analysis for global urban forests

Manuel Esperon^{*1}, John B. Baumgartner², Linda J. Beaumont³, Jonathan Lenoir⁴, David A. Nipperess³, Sally A. Power¹, Benoît Richard⁵, Paul D. Rymer¹, Mark G. Tjoelker¹, Rachael V. Gallagher¹, ¹*Hawkesbury Institute for the Environment, Western Sydney University, Australia*, ²*Centre of Excellence for Biosecurity Risk Analysis (CEBRA), University of Melbourne, Australia*, ³*Department of Biological Sciences, Macquarie University, Australia*, ⁴*Université de Picardie Jules Verne, France*, ⁵*Normandie University, France*

[P3.001]

Changing atmospheric circulation and air quality in Rome

Greg Spellman^{*}, Danielle Bird, *University of Northampton, UK*

[P3.002]

Exploring barriers to healthcare access among transactional sex workers in La Romana, Dominican Republic

Silvia Amesty^{*1,2,3}, Mina Halpern Lozada⁴, Samantha Stonbraker⁵, Susana Juniu⁶, ¹*Columbia University, Vagelos College of Physicians and Surgeons, USA*, ²*Columbia University, Irving Medical Center Center for Family and Community Medicine, USA*, ³*Columbia University, Mailman School of Public Health, USA*, ⁴*Clinica de Familia La Romana, Dominican Republic*, ⁵*Columbia University School of Nursing, USA*, ⁶*Montclair State University, USA*

[P3.004]

Achieving transit service equity through alfa-fair allocation algorithm

Asiri Senasinghe, Lina Kattan^{*}, Chan Wirasinghe, *University of Calgary, Canada*

[P3.005]

Vulnerable households' perception on heatwaves in Lloret de Mar - planning inclusive adaptation for sun and sand tourism

Hyerim Yoon^{*}, Anna Ribas Palom, *University of Girona, Spain*

[P3.006]

The influence of administrative status on the trajectory of socio-economic changes: A case study of polish cities

Katarzyna Przybyła^{*1}, Maria Hełdak¹, Marian Kachniarz¹, David Ramsey², Bogdan Przybyła², ¹*Wroclaw University of Environmental and Life Sciences, Poland*, ²*Wroclaw University of Science and Technology, Poland*

[P3.007]

Enhancing territorial cohesion through participatory budgeting. Insights from Wałbrzych, Poland

Lukasz Damurski^{*}, Agnieszka Szumilas, Paweł Pach, Sophia Ruiz Vasquez, *Faculty of Architecture, Wrocław University of Science and Technology, Poland*

[P3.008]

Co-creating urban transformations: How can civil-society and administrations make use of collaborative potential?

N. Kirby^{*}, D. von Schneidemesser, *Institute for Advanced Sustainability Studies Potsdam, Germany*

[P3.009]

Use of air purifiers in homes to reduce traffic related pollution health risks

Doug Brugge¹, Teresa Vazquez-Dodero¹, Neelakshi Hudda², Misha Eliasziw², Shir Ginzburg¹, Francesca Majluf³, Anil Gurcan¹, Warren Goldstein-Gelb⁴, Chermaine Morson⁵, Amy Mertl¹, Scott Hersey³, Wig Zamore⁶, Linda Sprague Martinez^{*7}, ¹*University of Connecticut, CT, USA*, ²*Tufts University, USA*, ³*Olin College, USA*, ⁴*The Welcome Project, USA*, ⁵*MassMobile, USA*, ⁶*Somerville Transportation Equity Partnership, USA*, ⁷*Boston University, USA*

[P3.011]

Deliveries by drone? Using virtual reality to extend public debate

Angela Smith^{*}, *Bournemouth University, UK*

[P3.012]

Making the invisible visible: Discussing perceived and measured air pollution and noise exposure with cyclists and pedestrians for supporting healthy mobility

Heike Marquart*, *Institut of Transport Research, German Aerospace Center (DLR) Berlin, Germany, Geography Department, Humboldt University Berlin, Germany*

[P3.013]

Shaping future transport: using a board game approach to understand public perception of UAVs in logistics

T Nadeem*, J Dickinson, K King, A Smith, *Bournemouth University, UK*

[P3.014]

Urban circularity benchmarking: a strategic approach to policymaking

Giacomo Di Foggia*, Massimo Beccarello, *University of Milano-Bicocca, Italy*

[P3.015]

Discouraging the motorcycle taxi use in urban contexts: An application of the Mehrabian-Russell behavioural model to users of an informal public transport mode

A.C. Giraldo-Ospino*¹, S.J. Santa-Torres^{1,2}, C.D. Arroyo-Angulo^{1,2}, P. Garcés-Del-Castillo¹, J.A. Vallejo-Borda^{1,3,4},
¹*Departamento de Ingeniería Civil, Universidad de Cartagena, Colombia,*²*Grupo de Investigación Modelación Ambiental (GIMA), Facultad de Ingeniería, Universidad de Cartagena, Colombia,*³*Departamento de Ingeniería Civil, Universidad de Investigación y Desarrollo, Colombia,*⁴*BRT+ Centre of Excellence, Pontificia Universidad Católica de Chile, Chile*

[P3.016]

A study on the measurement of inequality in green areas using the non-proportional index in Seoul, Korea

A.H DONG*, J.E KANG, H.S HWANG, *PUSAN National University, Republic of Korea*

[P3.017]

Fragmentation in daily mobility patterns in the metropolitan area of Barcelona through the lens of gender

L. Montero¹, L. Mejía-Dorantes², J. Barceló³, Jaume Barcelo*¹, ¹*Universitat Politècnica de Catalunya, Spain,*²*Independent Consultant, Germany,*³*Universitat Politècnica de Catalunya, Spain*

[P3.018]

Impact of regional policies on the provision of ecosystems services in peri-urban landscapes

Nica Claudia Caló¹, Marcin Spyra^{1,2}, Robert Starte¹, HongMi Koo¹, Ibone Ametzaga*³, Rocío Motran Ferrandiz³,
¹*Martin-Luther-University Halle-Wittenberg, Germany,*²*Opole University of Technology, ul. Katowicka, Poland,*³*Universidad del País Vasco, Spain*

[P3.019]

A comprehensive methodology to assess MaaS systems integration from an equity perspective

M. Orozco-Fontalvo*¹, A. Lopes², D. Vale², F. Moura¹, ¹*CERIS, Instituto Superior Técnico, University of Lisbon,, Portugal,*²*CIAUD, Lisbon School of Architecture, University of Lisbon, Portugal*

[P3.020]

Impact of the mobility restrictions in the palestinian territory on the population and the environment

H. Aburas*, I. Shahrour, *Univeristy of Lille, France*

[P3.021]

Data making a difference: Research translation of spatial urban indicators for healthy and sustainable cities

C. Higgs*¹, M. Lowe², A.V. Moudon³, D. Adlakha⁴, G. Boeing⁵, S. Liu⁶, D. Salvo⁷, E. Hinckson⁸, E. Cerin^{9,10}, J.F. Sallis¹¹, J. Arundel¹, B. Giles-Corti¹, ¹*Centre for Urban Research, RMIT University, Australia,*²*Melbourne Sustainable Society Institute, University of Melbourne, Australia,*³*Department of Urban Design and Planning, University of Washington, USA,*⁴*Department of Landscape Architecture and Environmental Planning, Natural Learning Initiative, College of Design, North Carolina State University, USA,*⁵*Department of Urban Planning*

and Spatial Analysis, University of Southern California, USA,⁶School of Public Policy and Urban Affairs, Northeastern University, USA,⁷Brown School, Washington University in St. Louis, USA,⁸Faculty of Health and Environmental Sciences, School of Sport & Recreation, Auckland University of Technology, New Zealand,⁹Mary Mackillop Institute for Health Research, Australian Catholic University, Australia,¹⁰School of Public Health, The University of Hong Kong, Hong Kong,¹¹Herbert Wertheim School of Public Health, University of California San Diego, USA

[P3.023]

Impact of COVID-19 on water and electricity consumption in two cities in the vicinities of Barcelona

Elisenda Clèries Tardío, Ferran Pinsach Batet*, Eric Pla Erra, Andrea Bernal Cabrera, Mariana Catalina Jiménez, Jaume Salom Tormo, IREC - Catalonia Energy Research Institute, Spain

[P3.024]

Empowering Citizens, or Empowering Individuals? A Comparison Study of Spaces in Chinese Preschools (2000-2020)

J Zhang*, X Wu, Fuzhou University, China

[P3.025]

Role-playing for more sustainable urban and regional mobility

Paula Quentin*, Thomas Eltner, Nora Burlon, Department of Spatial Planning, TU Dortmund University, Germany

[P3.026]

Integrating digital technologies with public participation in early stages of urban design: Current status and future direction

S. Zeng*, D. Wu, A. Ersoy, S.C. van der Spek, Delft University of Technology, The Netherlands

[P3.027]

Boosting well-being and health in vulnerable contexts: The pilot case of Las Palmeras, Cordoba

María del Mar Delgado*, Isotta Mac Fadden, Francisco Javier MARTINEZ CARRANZA, University of Cordoba, Spain

[P3.028]

Investigation of the social mix aspect in Nantou Ancient Town in Shenzhen

Daria Lisaia*, Yuan Qian, Vanke Urban Research, China

[P3.029]

Crossing environmental-health data to evaluate environmental inequalities in megacities and urban areas: A review

Van-Bao TA*¹, Bruno BARROCA², Gilles FORET³, Sami SOUIHI⁴, Thiago WANDERLEY MATOS DE ABREU⁴, Françoise LUCAS¹, ¹Laboratoire Eau, Environnement et Systèmes Urbains (LEESU) - Université Paris-Est Créteil, Ecole des Ponts ParisTech, France, ²Lab⁴URBA - Université Gustave Eiffel, France, ³Laboratoire Interuniversitaire des Systèmes Atmosphériques (LISA) - Université Paris-Est Créteil, Université Paris Cité, France, ⁴Laboratoire Images, Signaux et Systèmes Intelligents (LISSI) - Université Paris-Est Créteil, Institut Universitaire de Technologie de Créteil-Vitry, France

[P3.030]

Daily mobility and income levels in Spanish urban functional areas

C. López-Escolano*, S. Escolano-Utrilla, University of Zaragoza, Spain

[P3.031]

Sustainable transition for infrastructure: Analyzing the intersection of product-service system and circular economy via five pilots in the Netherlands

Dominika Teigiserova*, Daan Schraven, Delft University of Technology, The Netherlands

[P3.032]

Education on climate change and health – the ENBEL library

Triin Veber^{*1}, Miriam Stackpole Dahl², Hans Orru¹, ¹University of Tartu, Estonia,²CICERO Center for International Climate Research, Norway

[P3.033]

Perinatal health inequalities in the industrial region of Estonia: A birth registry-based study

U. Dahal^{*1,2}, T. Veber¹, D.O. Åström³, T. Tamm¹, L. Albreht⁴, E. Teinemaa⁵, K. Orru², H. Orru^{1,3}, ¹Institute of Family Medicine and Public Health, University of Tartu, Estonia,²Institute of Social Science, University of Tartu, Estonia,³Section of Sustainable Health, Umeå University, Sweden,⁴Environmental Health Department, Estonian Health Board, Estonia,⁵Estonian Environmental Research Centre,, Estonia

[P3.034]

Affordable housing for amenity migrants? How to make public goods work for talents acquisition: the demand and supply analysis of neighborhood facilities of affordable housing in Xiamen, China

Shuhan FANG^{*}, Qiuyan ZHU, Xin WU, Fuzhou University, China

[P3.035]

"Butterfly effect" for environmental justice in urban areas – case study of Zakrzówek in Kraków, Poland

Katarzyna Gorczyca^{*}, Magdalena Miśkowiec, Łukasz Fiedeń, Agnieszka Agnieszka Świgost-Kapocsi, Jagiellonian University in Kraków, Poland

[P3.036]

Bringing in inclusivity in children's education to overcome the socio economic diversity: A case of select community organization in pune city

S Mathews^{*}, S Wagh, Symbiosis College of Arts and Commerce, India

[P3.037]

'Child's walking' as care work and the privatization of reproduction labor while gendering the Nation-state in South Korea: From the 1920s to the 1990s

M.J. Hwang^{*}, S.J. Yun, Seoul National University, Republic of Korea

[P3.038]

The association between socioeconomic status and access to greenspace in the two largest cities in Norway

H. Frøislie¹, E. C. A. Nordbø¹, B. Oftedal², N. H. Krog^{*2}, ¹Department of Public Health Science, Faculty of Landscape and Society, Norwegian University of Life Sciences, Ås, Norway,²Department of Air Quality and Noise, Division of Climate and Environmental Health, Norwegian Institute of Public Health, Oslo, Norway

[P3.039]

Co-creation of an active transport promotion mobile app: A concept mapping study

Nuttanun Siriaporn^{*1}, Audrey de Nazelle², Anne Vuillemin¹, ¹Université Côte d'Azur, France,²Imperial College London, UK

[P3.040]

Seeking spatial justice in riverfront production of space. The case of the Greater Bay Area of China

D. Shao^{*}, G. Talamini, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong

[P3.041]

Bridging the gap from research to practice: The role of a Researcher-in-Residence

Anna Le Gouais^{*}, University of Bristol, UK

[P3.042]

Health situation analysis: A powerful tool for translating neighborhood-scale environmental exposure and population health evidence into priorities for building design

Adele Houghton^{*}, Havard T. H. Chan School of Public Health, USA, Biositu, LLC, USA

[P3.043]

I live, go to school, and play here: Child-friendly planning and lessons learned from children in Thorncliffe park, Toronto

A Shadkam*, *University of Waterloo, Canada*

[P3.044]

Measuring accessibility impact and spatial equity: A case of proposed Delhi-Meerut regional rapid transit corridor

Aditya Pitale*¹, Shubhajit Sadhukhan¹, Manoranjan Parida¹, Manaswinee Kar², ¹*Indian Institute of Technology Roorkee, India*,²*Indian Institute of Technology, Roorkee, India*

[P3.045]

Engaging vulnerable road users in the planning process: A case study of zebra crossings

Jillian Manner*^{1,2}, Audrey Cameron¹, Caley McDowall³, Jenny Muir³, Ruth Jepson^{1,2}, ¹*University of Edinburgh, UK*,²*Scottish Collaboration for Public Health Research and Policy, UK*,³*Jacobs, UK*

[P3.046]

Developing a Framework to Evaluate Urban Public Spaces for Developing Economies

Rishabh Mangal*, Mrinmayee Mhatre, Nandan Dawda, Krupesh Chauhan, *Sardar Vallabhbhai National Institute of Technology, Surat, India*

[P3.047]

Community pharmacies deserts in Mainland Portugal

Bernardo Martins¹, Cláudia M. Viana¹, David S. Vale², João Vasconcelos^{1,3}, Jorge Rocha*^{1,4}, ¹*Institute of Geography and Spatial Planning, University of Lisbon, Portugal*,²*Lisbon School of Architecture, University of Lisbon, Portugal*,³*Polytechnic of Leiria, Portugal*,⁴*Associated Laboratory Terra, Portugal*

[P3.048]

Built-in vulnerabilities? Understanding the interplay of socio-economic status, the built environment and exposure to outdoor air pollution in Helsinki Metropolitan Area

Á. Gosztonyi*, J. Demmler, S. Juhola, S. Ala-Mantila, *University of Helsinki, Finland*

[P3.049]

People in communities catalyzing change with data to address traffic-related air pollution

Linda Sprague Martinez*^{1,2}, Shir Ginzberg³, Sharon Ron⁴, Lydia Lowe⁵, Ellin Reisner⁶, Doug Brugge³, ¹*Boston University School of Social Work, USA*,²*Boston University Clinical Translational Science Institute, USA*,³*University of Connecticut, USA*,⁴*Massachusetts Area Planning Commission, USA*,⁵*Chinatown Land Trust, USA*,⁶*Somerville Transportation Equity Partnership, USA*

[P3.050]

Indicator systems for measuring tourism intensification and touristification because of social conflicts. A comparative study in Malaga and Barcelona

F. J. Chamizo-Nieto*, N. Nebot-Gómez de Salazar, C. Rosa-Jiménez, S. Reyes-Corredera, *University of Malaga, Spain*

[P3.051]

Development of a park rating system to foster green equity in Boston, MA

M.P. Botana Martinez*, S. Chatterjee, M.P. Fabian, *Boston University, USA*

[P3.052]

A multisectoral collaboration to better integrate health in housing policy and neighborhood transformation processes in the province of Barcelona

C. Sáenz de Tejada¹, C. Daher*¹, L. Vidal Corsà², A.M. Font Morera², M. Solé Pascual³, M. Pons García³, J.R. Torrentó Marselles⁴, F. Martínez Moreno⁴, C. Chamorro Moreno⁴, ¹*Barcelona Institute for Global Health (ISGlobal), Spain*,²*Barcelona Provincial Council, Oficina d'Habitatge, Spain*,³*Barcelona Provincial Council,*

Servei de Convivència, Diversitat i Cicle de Vida, Spain,⁴Barcelona Provincial Council, Servei de Salut Pública, Spain

[P3.053]

Human exposome: A new perspective on urban planning for children's health?

Miriam Weber^{*1}, Peter van den Hazel², ¹*City of Utrecht, The Netherlands,*²*INCHES, The Netherlands*

[P3.054]

Unfolding the dynamic aspects of deprivation experience: From residence to activity spaces

Souneil Park^{*1}, Sam Comber², Daniel Arribas-Bel³, ¹*Telefonica Research, Spain,*²*Marks & Spencer, UK,*³*University of Liverpool, UK*

[P3.055]

Linking climate change adaptation governance and environmental justice for sustainable urban road transportation in global south

Dillip Das^{*}, *University of KwaZulu-Natal, South Africa*

[P3.056]

Effects of individual characteristics on risky cycling behaviour, mediated by cycling anger experienced and expressed among Brussels and Flemish adult cyclists: Testing a mediated model

Bas de Geus^{*1}, Aimé Adam², Lara Stas², Sergio Useche^{3,4}, Pierre Philippot¹, Romain Meeusen², ¹*Universite catholique de Louvain, Belgium,*²*Vrije Universiteit Brussel, Belgium,*³*University of Valencia, Spain,*⁴*Spanish Foundation for Road Safety, Spain*

[P3.057]

Reimagining the smart allocation of road space in Amsterdam for fairness

F. Geiser^{*}, E. Kim, K. Alfrink, *Delft University of Technology, The Netherlands*

[P3.058]

Your favourite park is not my favourite park: A participatory geographic information system approach to improve urban green and blue spaces: A case study in Edinburgh, Scotland

Charlotte Wendelboe-Nelson^{*}, Yiyun Wang, Simon Bell, Catharine Ward Thompson, *University of Edinburgh, UK*

[P3.060]

Providing innovative mobility services that contribute to a sustainable transformation of urban mobility - Findings from a mixed-methods study of two German cities

Laura Gebhardt¹, Alexandra König², Julia Schuppan¹, Kerstin Stark^{*1}, ¹*Institut of Transport Research, Germany,*²*Institute of Transportation Systems, Germany*

[P3.061]

The effects of MaaS on accessibility inequality: Who benefits from it?

André Soares Lopes^{*1}, Maurício Orozco-Fontalvo², Filipe Moura², David Vale¹, ¹*CIAUD, Lisbon School of Architecture, University of Lisbon, Portugal,*²*CERIS, Instituto Superior Técnico, University of Lisbon, Portugal*

[P3.062]

Seasonal variation of metals concentration in the ultrafine particulate matter at the Urban location of Financial Capital of India

Jamson Masih^{*1}, Rakesh Singhal², Sachin Gupta¹, Ananya Bar¹, ¹*Wilson College, India,*²*Analytical Chemistry Division, Bhabha Atomic Research Centre, Mumbai, India, India*

[P3.063]

Fair route guidance: A network-wide approach using macroscopic fundamental diagram

F. Hosseinzadeh, N. Moshahedi, L. Kattan^{*}, *University of Calgary, Canada*

[P2.001]

Environmental correlates of physical activity, health and quality of life of the aging population in China

Zhengying Liu, Astrid Kemperman*, Harry Timmermans, *Eindhoven University of Technology, The Netherlands*

[P2.002]

Topodiversity, sustainable mobility and subjective well-being: Longitudinal evidence from a mid-sized Swedish city

Karl Samuelsson*¹, Matteo Giusti¹, Stephan Barthel^{1,2}, Noah Linder¹, Nancy Joy Lim¹, ¹*University of Gävle, Sweden*,²*Stockholm University, Sweden*

[P2.004]

Baffled: Site-specific attenuation of particulate air pollution, shape matters

CM (Tilly) Collins*¹, Agamemnon Otero^{2,3}, Nikolaos Bempedelis¹, Huw Woodward¹, ¹*Imperial College London, UK*,²*Repowering London, UK*,³*Energy Garden, UK*

[P2.005]

Assessing the Impact of COVID-19 Lockdown on anxiety and depression in Spain. Results from the European Green COVID study

Marco Garrido-Cumbrera*¹, Alicia González-Marín², José Correa-Fernández¹, Olta Braçe¹, ¹*Health & Territory Research, Universidad de Sevilla, Spain*,²*Universidad de Sevilla, Spain*

[P2.006]

Exploring the mental health and resilience of immigrant adolescents living in Denver, Colorado, during COVID-19 pandemic

Susana Juniu*¹, Silvia Amesty², ¹*Montclair State University, USA*,²*Columbia University, USA*

[P2.007]

Quantifying the total mortality disease burden from motorised road traffic

B. Vandeninden*^{1,2}, C. Bouland¹, C. Faes³, E.M. De Clercq², ¹*Université Libre de Bruxelles (ULB), Belgium*,²*Sciensano, Belgium*,³*Universiteit Hasselt, Belgium*

[P2.008]

Urban heat islands and climate change: The case study of Maribor, Slovenia

I. Žiberna¹, Nataša Pipenbaher², D. Donša*², S. Škornik², M. Kaligarič², L. Kajfež Bogataj³, Z. Črepinšek³, V. J. Grujić^{2,4}, D. Ivajnič^{2,1}, ¹*Faculty of Arts, University of Maribor, Slovenia*,²*Faculty of Natural Science and Mathematics, University of Maribor, Slovenia*,³*Biotechnical Faculty, University of Ljubljana, Slovenia*,⁴*Faculty of Education, University of Maribor, Slovenia*

[P2.009]

Non-point source water pollution modeling for the urban–rural transitional areas of China: Research status and prospect

Minghua Zhang*, Jingyuan Xue, *University of California Davis, USA*

[P2.010]

Psychological resilience factors associated with climate change adaptations by subsistence farmers in a rural community. Limpopo Province, South Africa

Bontle Kgopa*, *University of Limpopo, South Africa*,*University of Pretoria, South Africa*

[P2.011]

The Impact of the COVID-19 Pandemic on the perception of the transportation offer in Barcelona

Laia Mojica*, Oriol Roig, Jerònia Cubells, *Universitat Autònoma de Barcelona, Spain*

[P2.012]

Prediction of personal noise exposure using activity pattern: A case study in Taiwan

Sakshi Saraswat*^{1,2}, Chih-Yi Su³, Wan-Ting Hu², Yu-Chen Cheng⁴, Wen-Chi Pan*², ¹*International Ph.D. Program in Environmental Science and Technology, University System of Taiwan, Taiwan*,²*Institute of Environmental*

and Occupational Health Sciences, National Yang-Ming Chiao Tung University, Taiwan,³Research Center for Humanities and Social Sciences, Academia Sinica, Taiwan,⁴National Institute of Environmental Health Sciences, National Health Research Institutes, Taiwan

[P2.013]

Modeling the hygrothermal benefits of green walls in buildings

A. Alvarado-Alvarado^{*1}, B. Belmans², S. Denys¹, ¹Sustainable Energy, Air and Water Technology (DuEL), Department of Bioscience Engineering, University of Antwerp, Belgium, ²Energy and Materials in Infrastructure and Buildings (EMIB), Department of Applied Engineering, University of Antwerp, Belgium, Belgium

[P2.014]

Health impact assessment of urban and transport developments in Barcelona: A case study

A Ramos^{*1,2}, M Cirach¹, E Pereira^{1,2}, T Lungman^{1,2}, S Khomenko^{1,2}, C Daher¹, M Dijst³, M Nieuwenhuijsen¹, ¹Barcelona Institute for Global Health, Spain, ²Pompeu Fabra University, Spain, ³Luxembourg Institute of Socio-Economic Research, Spain

[P2.015]

Does living near blue space modify the impact of socio-economic deprivation on mental health in urban areas? A population-based retrospective study

M. Georgiou^{*1}, Z. Tiegies^{1,2}, G. Morison¹, N. Smith¹, S. Chastin^{1,3}, ¹Glasgow Caledonian University, UK, ²University of Edinburgh, UK, ³Ghent University, UK

[P2.016]

Nationwide equity assessment of the 20-minute neighbourhood in the Scottish context by socioeconomic status and urbanicity: A socio-spatial proximity analysis of residential locations

Jonathan Olsen^{*1}, Lukar Thornton², Grant Tregonning¹, Richard Mitchell¹, ¹University of Glasgow, UK, ²University of Antwerp, Belgium

[P2.017]

Framing the co-creation for age-friendly community spaces: A needs assessment process with care home residents and community-dwelling older adults in the Dreta de l'Eixample neighborhood in Barcelona. A Health CASCADE study

J. R. Zapata-Restrepo^{*1}, G. R. Longworth¹, P. Dall², D. Skelton², J.M.M. Chinapaw³, S. Morejon Torné¹, M. Giné-Garriga¹, ¹Fundació Blanquerna - URL, Spain, ²Glasgow Caledonian University, UK, ³Amsterdam UMC, The Netherlands

[P2.018]

The interrelationships between living environment, happiness perceptions, and quality of life in older adults

Ching-Yi Chen^{*}, National Open University, Taiwan

[P2.019]

Domestic water consumption during the COVID-19 lockdown. Characterizing changes of habits in urban contexts with mixed socioeconomic and residential patterns

Maria Torres-Bagur^{*1}, Anna Ribas¹, David Sauri², ¹Department of Geography, University of Girona, Spain, ²Department of Geography, Autonomous University of Barcelona, Spain

[P2.020]

Health and psychosocial impacts of road traffic accidents (RTA) on victims' families: An archival study on the RTA epidemic in Jamaica

D Wright^{*1,2}, C Webster³, ¹Montego Bay Community College, Jamaica, ²Cranfield University, UK, ³Independent Researcher, USA

[P2.022]

Resilience quantification of healthcare systems under pandemics

A. Moussa*, M. Ezzeldin, W. El-Dakhakhni, M. Eltorki, *McMaster University, Canada*

[P2.023]

Integrative methodology for urban mobility plans, a case from Brazil

Andréa Holz Pfützenreuter*, Renata Cavion, Simone Becker Lopes, Silvia Lopes de Sena Tagliapietra,
Christiane Wenk Nogueira Fernandes, *Universidade Federal de Santa Catarina, Brazil*