

URBAN TRANSITIONS 2022

Integrating Urban and Transport Planning,
Environment and Health for Healthier Urban Living

8-10 November 2022
Sitges, Barcelona, Spain

Oral Programme

8th November 2022

07:00-07:45	Registration Hall Auditorium			
07:45-08:45		Early Morning Session 1: Multi-dimensional health in cities: Gogreen routes 360 health approach Tramuntana 3 Tadhg MacIntyre, <i>Maynooth University, Ireland</i>	Early Morning Session 2: Planning and transitioning to urban resilience Garbi 2 Karl Kim, <i>University of Hawaii, USA</i> and Chris Pringle <i>Elsevier Ltd, UK</i>	Early Morning Session 3: Barriers for healthy place making in practice Garbi 1 Razieh Zandieh, <i>The University of Manchester, UK</i>
08:45-09:00	Opening Remarks - Mark Nieuwenhuijsen, <i>Barcelona Institute for Global Health, Spain</i> Auditorium			
09:00-09:30	[KN01] Hannes Taubenbock, <i>German Aerospace Center, Germany</i> Making change tangible with large data from space Auditorium Mark Nieuwenhuijsen			
09:30-10:00	[KN02] James Woodcock, <i>University of Cambridge, UK</i> Transitioning to healthy and sustainable cities in the permacrisis Auditorium Mark Nieuwenhuijsen			
10:00-11:00	Session 01: Transforming cities and food systems Auditorium Mirko Goletz, W. Li 10:00-10:15 [O01.01] What chances opportunities do Light Electric Vehicles present offer to transform cities? Laura Gebhardt ¹ , Mascha Brost ² , <u>Mirko Goletz</u> ¹ ¹ <i>German Aerospace Center, Institut of Transport Research, Germany.</i> ² <i>German Aerospace Center, Institut of Vehicle Concepts, Germany</i>	Session 02: Planning for active transportation Tramuntana 3 Kostas Mouratidis, M.D. Wessel 10:00-10:15 [O02.01] Putting your best foot forward: Leveraging local assets (and liabilities) to create vibrant walking networks <u>Mr. M.D. Wessel</u> <i>Sustainable Community Builder, Canada</i>	Session 03: Health impact assessment/cost benefit analysis Garbi 2 Sonja Kahlmeier, Belen Zapata-Diomedí 10:00-10:15 [O03.01] Cost benefit analysis of active modes of transport: International review and comparative analysis of guidance and tools <u>Dr Belen Zapata-Diomedí</u> ¹ , Dr Annette Kroen ²	Session 04: Engagement/Co-creation Garbi 1 Nadine Haufe, Razieh Zandieh 10:00-10:15 [O04.01] Co-creating sustainable urban mobility solutions: Drivers and barriers in a co-creation process on the neighbourhood level – Experiences from the Horizon 2020 project SUNRISE <u>M.A. Nadine Haufe</u> , Msc. Lukas Franta <i>TU Wien, Institute of Spatial Planning, Centre for Sociology, Austria</i>

<p>10:15-10:30 [O01.02] Sustainable urban food systems: A foresight 2035 study to bring out the research priorities <u>Prof. Stéphane Guilbert</u>¹, Dr. Barbara Redlingshöfer² ¹Institut Agro, MontpellierSupagro, France. ²Inrae, France</p> <p>10:30-10:45 [O01.03] Contemporary Shrinkage, Tokyo case Study. An inquest into mature global cities, growth and demographic change <u>Mrs. Marcela Riva de Monti</u> Universidad Politécnica de Madrid, Spain</p> <p>10:45-11:00 [O01.04] The production of invisible space: The impact of platformization of urban food systems on the built environment <u>Mr. W. Li</u>, Dr. G. Talamini City University of Hong Kong, Hong Kong</p>	<p>10:15-10:30 [O02.02] The role of urban design and planning in stimulating utilitarian walking - the context of a Nordic 'small city' <u>Professor Harpa Stefansdottir</u>¹, Dr. Tanu Priya Uteng², Dr. Maja Karoline Rynning², Postdoctoral researcher Konstantinos Mouratidis³ ¹Department of Planning and design, Agricultural University of Iceland, Iceland. ²Norwegian Centre for Transport Research, Norway. ³Norwegian University of Life Sciences, Norway</p> <p>10:30-10:45 [O02.03] Comparing walkability of two neighborhoods in the city of Berlin — a GIS-based study on urban and transport structure <u>Dipl.-Ing. Johannes Weber</u>, M.Sc. Caroline Koszowski, Prof. Dr.-Ing. Regine Gerike TU Dresden, Institute of Transport Planning and Road Traffic, Germany</p> <p>10:45-11:00 [O02.04] Assessing urban walkability with public participation geographic information systems (PPGIS): Measurement and findings from small Norwegian cities <u>Kostas Mouratidis</u>¹, Harpa Stefansdottir¹, Maja Karoline Rynning², Rikke Ingebrigtsen², Sunniva Frislid Meyer² ¹Norwegian University of Life Sciences, Norway. ²Institute of Transport Economics, Norway</p>	<p>¹Healthy Liveable Cities Lab, Centre for Urban Research, RMIT University, Australia. ²Centre for Urban Research, RMIT University, Australia</p> <p>10:15-10:30 [O03.02] Health impacts of transport in Finland and in the largest cities <u>Marko Tainio</u>¹, Heli Lehtomäki², Niko Karvosenoja¹, Ville-Veikko Paunu¹, Antti Korhonen², Otto Hänninen², Jouni Tuomisto³, Ari Karppinen⁴, Jaakko Kukkonen⁴ ¹Finnish Environment Institute SYKE, Finland. ²Finnish Institute for Health and Welfare, Finland. ³Kausal, Finland. ⁴Finnish Meteorological Institute, Finland</p> <p>10:30-10:45 [O03.03] Differential impacts of cycling investment in England: A natural experimental study <u>Dr Richard Patterson</u>¹, Dr David Ogilvie¹, Dr Anna Goodman², Dr Anthony A. Laverty³, Dr Jenna Panter¹ ¹MRC Epidemiology Unit, University of Cambridge, UK. ²London School of Hygiene and Tropical Medicine, UK. ³Imperial College London, UK</p> <p>10:45-11:00 [O03.04] Going global: Expanding the scope of the Health Economic Assessment Tool (HEAT) for walking and cycling - experiences and challenges <u>Prof. Dr. Sonja Kahlmeier</u>¹, Dr. Thomas Götschi², Dr. Christian Brand³, Dr. Nick Cavill⁴, Dr. Alberto Castro⁵, Prof. Audrey de Nazelle⁶, Dr. Thiago Herick de Sa⁷, Alex Johnson⁸, Dr. Paul Kelly⁹, Dr Christoph Lieb¹⁰, Dr. David Rojas-Rueda¹¹, Prof. Harry Rutter¹², Dr. Andrea Santos¹³, Dr Olga Lucia Sarmiento¹⁴, Dr. Robert Smith¹⁵, Dr. Meelan Thondoo¹⁶, Dr. Meghan Winters¹⁷, Dr. Yunesian Masud¹⁸, MSc. Francesca Racioppi¹⁹ ¹Swiss Distance University of Applied Science (FFHS), Switzerland. ²University of Oregon, USA. ³University of Oxford, UK. ⁴Cavill Associates, UK. ⁵Swiss Tropical and Public Health Institute, Switzerland. ⁶Imperial College London, UK. ⁷World Health Organization, Switzerland. ⁸Accra Metropolitan Assembly, Ghana. ⁹University of Edinburgh, UK. ¹⁰Ecoplan, Switzerland. ¹¹Colorado State University, USA. ¹²University of Bath, UK. ¹³London School of Hygiene and Tropical Medicine, UK. ¹⁴University of the Andes, Colombia. ¹⁵University of Sheffield, UK. ¹⁶University of Cambridge, UK. ¹⁷Simon Fraser University, Canada. ¹⁸Tehran University of Medical Sciences, Iran. ¹⁹WHO Regional Office for Europe, Germany</p>	<p>10:15-10:30 [O04.02] Co-creation as a factor influencing the preferences of e-commerce customers in the area of last-mile deliveries and returns on the e-commerce market <u>Prof. Maja Kiba-Janiak</u>¹, Prof. Katarzyna Cheba², Msc. Magdalena Mucowska¹ ¹Wroclaw University of Economics and Business, Poland. ²West Pomeranian University of Technology in Szczecin, Poland</p> <p>10:30-10:45 [O04.03] Street Voice: Can Citizens' Juries help tackle urban sustainability challenges? <u>Dr Alison Chisholm</u>, Dr Juliet Carpenter, Professor Catherine Pope, Dr David Howard University of Oxford, UK</p> <p>10:45-11:00 [O04.04] Driverless vehicles and the elderly's outdoor mobility <u>Dr Razieh Zandieh</u> University of Manchester, UK</p>
<p>11:00-11:30</p>	<p>Refreshment Break Tramuntana 1 & 2</p>		

11:30-12:45

Session 05: Sustainable city

Auditorium

Paulina Duch-Zebrowska, Ashley R. Longman

11:30-11:45 [O05.01]

Closing the gap – the opportunity for sustainability and smart transition in CEE countries

Paulina Duch-Zebrowska

Faculty of Architecture and Urban Planning, Gdansk University of Technology, Poland

11:45-12:00 [O05.02]

The perspective of residents, entrepreneurs, and local government for sustainable development towards a smart city

PhD Grzegorz Kinelski^{1,2}, Prof. PhD Zbigniew Makieła¹, PhD Karolina Mucha-Kuś¹

¹WSB University, Poland. ²VEOLIA, Poland

12:00-12:15 [O05.03]

Towards a systemic understanding of sustainable wellbeing in cities: A conceptual framework

Dr Lucinda Cash-Gibson^{1,2,3}, Dr Eliana Martinez-Herrera^{4,1,2}, Mr Ferran Muntanó Isart^{1,3}, Ms Júlia Tena^{1,3}, Prof Joan Benach^{1,2,5,3}

¹JHU-UPF Public Policy Center, Departament de Ciències Polítiques i Socials, Universitat Pompeu Fabra, Spain. ²Health Inequalities Research Group, Employment Conditions Knowledge Network (GREDS-EMCONET), JHU-UPF Public Policy Center, Departament de Ciències Polítiques i Socials, Universitat Pompeu Fabra, Spain. ³UPF Barcelona School of Management (UPF-BSM), Spain. ⁴National School of Public Health “Héctor Abad Gómez”, University of Antioquia, Colombia. ⁵Ecological Humanities Research Group (GHECO), Transdisciplinary Research Group on Socioecological Transitions (GinTRANS2), Universidad Autónoma, Spain

12:15-12:30 [O05.04]

Localizing the Doughnut Economy? Findings from citizen initiatives to address urban sustainability challenges in Zuid Holland, The Netherlands

Sylvia Bergh¹, Peter Bodegom, van², Eefje Cuppen², Shivant Jhagroe², Saskia Ruijsink³, Wouter Spekink⁴, Ashley R. Longman³

¹Institute of Social Studies, The Netherlands. ²Leiden University, The Netherlands. ³TU Delft, The Netherlands. ⁴Erasmus University Rotterdam, The Netherlands

Session 06: Cities and health

Tramuntana 3

Rich Mitchell, Stijn Rybels

11:30-11:45 [O06.01]

Urban-rural differences in mental wellbeing: How much do neighbourhood problems matter in developing and developed world settings?

Dr Jon Olsen¹, Dr Natalie Nicholls¹, Dr Ramjee Bhandari², Professor Rich Mitchell¹

¹University of Glasgow, UK. ²University of Chester, UK

11:45-12:00 [O06.02]

Thresholds for spatial urban design and transport features for the creation of healthy and sustainable cities through walking: Findings from the IPEN Adult study

Prof E. Cerin^{1,2}, Prof J.F. Sallis^{1,3}, Dr D. Salvo⁴, Prof E. Hinckson⁵, Dr T.L. Conway³, Prof N. Owen^{6,7}, Prof D. van Dyck⁸, Dr M. Lowe⁹, Mr C. Higgs¹⁰, Prof A. Moudon Vernez¹¹, Dr M.A. Adams¹², Ms K.L. Cain³, Dr L.B. Christiansen¹³, Prof R. Davey¹⁴, Dr J. Dygrýn¹⁵, Prof L.D. Frank³, Prof R. Reis^{4,16}, Prof O.L. Sarmiento¹⁷, Dr D. Adlakha¹⁸, Dr G. Boeing¹⁹

¹Australian Catholic University, Australia. ²The University of Hong Kong, Hong Kong. ³University of California San Diego, USA. ⁴Washington University in St. Louis, USA. ⁵Auckland University of Technology, New Zealand. ⁶Swinburne University of Technology, Australia. ⁷Baker Heart and Diabetes Institute, Australia. ⁸Ghent University, Belgium. ⁹University of Melbourne, Australia. ¹⁰RMIT University, Australia. ¹¹University of Washington, USA. ¹²Arizona State University, Phoenix, USA. ¹³University of Southern Denmark, Denmark. ¹⁴University of Canberra, Australia. ¹⁵Palacký University Olomouc, Czech Republic. ¹⁶Pontifical Catholic University of Parana, Brazil. ¹⁷Universidad de los Andes, Colombia. ¹⁸North Carolina State University, USA. ¹⁹University of Southern California, USA

12:00-12:15 [O06.03]

Urban vitality and seniors' outdoor rest time in Barcelona

Zeynep S. Akinçi¹, Dr. Oriol Marquet¹, Dr Xavier Delclòs-Alió², Prof. Carme Miralles-Guasch^{1,3}

¹Grup d'Estudis en Mobilitat, Transport i Territori (GEMOTT), Departament de Geografia, Universitat Autònoma de Barcelona, Spain. ²Departament de Geografia, Universitat Rovira i Virgili, Spain. ³Institut de Ciència i Tecnologia Ambientals (ICTA), Universitat Autònoma de Barcelona, Spain

12:15-12:30 [O06.04]

To create health-promoting urban environments, we need an interdisciplinary understanding of person-place interactions

Session 07: Simulation and modelling

Garbi 2

Tabea Sonnenschein, Jasper van Vliet

11:30-11:45 [O07.01]

Scenarios of healthier urban transport regimes – An agent-based modeling case study of Amsterdam
Tabea Sonnenschein^{1,2}, Dr. Simon Scheider¹, Dr. Ardine de Wit^{3,4}, Dr. Roel Vermeulen¹

¹Utrecht University, The Netherlands. ²University Medical Center Utrecht, The Netherlands. ³Vrije Universiteit Amsterdam, The Netherlands. ⁴National Institute of Public Health and the Environment (RIVM), The Netherlands

11:45-12:00 [O07.02]

Shifting car travel to active modes to improve population health and achieve transport goals: A simulation study

Dr Belen Zapata-Diomedí¹, Dr Lucy Gunn¹, Dr Annette Kroen², A/Prof Melanie Davern², Dr Alan Both¹

¹Healthy Liveable Cities-Lab, Centre for Urban Research, RMIT University, Australia. ²Centre for Urban Research, RMIT University, Australia

12:00-12:15 [O07.03]

Understanding and modeling accessibility to public green in large urban centers

Miss Alice Battiston¹, PhD Rossano Schifanella^{1,2}

¹University of Turin, Italy. ²ISI Foundation, Italy

12:15-12:30 [O07.04]

The use of AI in sustainable urban development research: Natural language processing (NLP) usage in urban research, a comparative analysis between different AI engines

M.Sc. Mai Ahmed, Dr. Katharina Borgmann, Agota Barabas, Prof. Dr.-Ing. Jörg Noennig, Mohammad Sohanur Rahman

12:30-12:45 [O07.05]

Modelling alternative urban change trajectories to inform planning and policy making

Dr. Jasper van Vliet

Vrije Universiteit Amsterdam, The Netherlands

Session 08: NBS, air pollution and health

Garbi 1

A. Ascenso, Maria Dubovik

11:30-11:45 [O08.01]

Air quality characterization and trends in European cities towards nature-based solutions implementation

A. Ascenso¹, A. Miranda¹, P. Roebeling^{1,2}

¹CESAM, Department of Environment and Planning, University of Aveiro, Portugal. ²Wageningen Economic Research, Wageningen University and Research, The Netherlands

11:45-12:00 [O08.02]

The academic-practitioner gap: Is air pollution mitigation considered in urban planting? A UK-based study

Karina Corada^{1,2}, Dr Audrey de Nazelle¹, Dr C Matilda (Tilly) Collins¹, Dr Huw Woodward¹

¹Imperial College London, UK. ²University of East London, UK

12:00-12:15 [O08.03]

Green spaces and mental health: A health impact assessment study of the Barcelona “eixos verds” plan

D. Vidal Yañez, E. Pereira Barboza, C. Daher, M. Nieuwenhuijsen, N. Mueller

Institut de Salut Global de Barcelona (ISGlobal), Spain

12:15-12:30 [O08.04]

Low traffic neighbourhoods (LTNs) reduces air pollution within and around intervention areas

Xiuleng Yang, Katherine Hough, Emma McCoy, Audrey de Nazelle

Imperial College London, UK

12:30-12:45 [O08.05]

Nature-based solutions to simultaneously address urban climate, biodiversity and human wellbeing challenges

Ms Maria Dubovik, Dr Laura Wendling, Ms Carmen Antuna Rozado, Mr Arto Laikari

VTT Technical Research Centre of Finland, Finland

Prof. Dr. Martina Kanning¹, Ph.D Li Yi², Prof. Chih-Hsiang Yang³, Dr. Christina Niermann⁴, Prof. Dr. Stefan Fina⁵

¹Department of Sport Science, University of Konstanz, Germany. ²Spatial Sciences Institute, University of Southern California, USA. ³Department of Exercise Science, University of South Carolina, USA. ⁴MSH Medical School Hamburg, Germany. ⁵Research Institute for Regional and Urban Development gGmbH, Germany

12:30-12:45 [O06.05]

How to (teach) design for healthy neighbourhoods? Lessons from the urban design studio "Healthy city – vital district" at Antwerp University.

PhD student Stijn Rybels

Univeristy of Antwerp, Belgium

12:45-13:05

Poster Teaser Session 1A

Auditorium

Paulina Duch-Zebrowska, Ashley R. Longman

12:45-12:47 [PT1A.01]

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

Professor Jung In Kim

Soongsil University, Republic of Korea

12:47-12:49 [PT1A.02]

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

Ph.D. Student JH Han, Prof. J Nam

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

12:49-12:51 [PT1A.03]

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

Dr Tomasz Spórna¹, dr hab. Robert Szymtykie², dr Tomasz Figlus³, dr Agnieszka Lisowska-Kierepka², dr Łukasz Musiak³, dr Dominik Sikorski², dr Paweł Sudra⁴

¹University of Silesia in Katowice, Faculty of Natural Sciences, Institute of Social and Economic Geography and Spatial Management, Będzińska 60, 41-200 Sosnowiec, Poland, Poland. ²University of Wrocław, Institute of Geography and Regional Development, Department of Human Geography, Uniwersytecki pl. 1, 50-137 Wrocław, Poland, Poland. ³University of Lodz, Faculty of Geographical Sciences, Department of Political, Historical Geography and Regional Studies, 31 Kopcińskiego St., 90-142 Łódź, Poland. ⁴Warsaw University of Life Sciences – SGGW, Institute of Environmental Engineering, Department of Remote Sensing and Environmental Assessment,

Poster Teaser Session 1B

Tramuntana 3

Rich Mitchell, Stijn Rybels

12:45-12:47 [PT1B.01]

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

Dr. Ruben Garnica-Monroy¹, Dra. Karen Hinojosa¹, Lic. Luis Sierra²

¹Tecnologico de Monterrey, Mexico. ²Independent Consultor, Mexico

12:47-12:49 [PT1B.02]

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

Ms. M. Pellicer-Chenoll, Ms. L. Antón-González, Mr. L. Millán-González, Mr. J. Devis-Devis

University of Valencia, Spain

12:49-12:51 [PT1B.03]

Covid-19, transportation, security and urban resilience

Professor Karl Kim

University of Hawaii, USA

12:51-12:53 [PT1B.04]

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

Kerstin Stark¹, Dr. Julia Schuppan², Laura Gebhardt², Dr. Julia Jarass², Dr. Ariana Kehlbacher²

¹DLR German Aerospace Center (DLR), Germany.

²German Aerospace Center (DLR), Germany

12:53-12:55 [PT1B.05]

Fossil Health: Causes and consequences of hegemonic health paradigms

Laila Vivas

Poster Teaser Session 1C

Garbi 2

Tabea Sonnenschein

12:45-12:47 [PT1C.01]

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

Cong Cao¹, Dr. Shilpa Rao², Professor Jan Morten

Dyrstad³, Professor Colin Green³

¹Department of Economics, Norwegian University of Science and Technology, Norway. ²Division for Infectious Diseases and Environmental Health, Norwegian Institute of Public Health, Norway.

³Norwegian University of Science and Technology, Norway

12:47-12:49 [PT1C.02]

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

Assoc. Prof. Dr. Yucel Severcan¹, Assoc. Prof. Dr. Ayse Ozbil Torun², Prof. Dr. Margaret Anne Defeyter², Zela Akin¹, Heval Bingol¹

¹Middle East Technical University, Turkey.

²Northumbria University, UK

12:49-12:51 [PT1C.03]

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

PhD Joanna Pluto-Kossakowska, PhD Anna Fijałkowska,

PhD Joanna Jaroszewicz, PhD Małgorzata Denis, Msc

Sylwia Krzysztofowicz

Warsaw University of Technology, Poland

12:51-12:53 [PT1C.04]

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

Poster Teaser Session 1D

Garbi 1

A. Ascenso, Maria Dubovik

12:45-12:47 [PT1D.01]

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

A. De la Iglesia Martinez, Dr. SM. Labib

Department of Human Geography and Spatial Planning, Faculty of Geosciences, Utrecht University, The Netherlands

12:47-12:49 [PT1D.02]

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

Dr. Clemence Cavoli¹, Dr. Daniel Oviedo¹, Ms Alex Chong¹, Professor Caren Levy¹, Mr Joaquin Romero², Mr Braima Koroma³, Mr Joseph Macarthy³

¹UCL, UK. ²Goteo, Mozambique. ³SLURC, Sierra Leone

12:49-12:51 [PT1D.03]

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

Dr Lassi Warsta, Ms Maria Dubovik, Mr Mikko Tuomisto, Mr Arto Laikari, Mr Lauri Parikka, Mr Pekka Halonen, Dr Laura Wendling

VTT Technical Research Centre of Finland, Finland

12:51-12:53 [PT1D.04]

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

Dr. L. Boniardi^{1,2}, Mr. S Manni³, Mr C. Zanelli³, Prof. S. Fustinoni^{1,2}

<p><i>Nowoursynowska 166 St., 02-787 Warsaw, Poland, Poland</i></p> <p>12:51-12:53 [O45.04/PT1A.04] A holistic index-based framework to assess urban resilience: Application to the region of Madrid, Spain <u>Marta Suárez</u>^{1,2}, Javier Benayas¹, Ana Justel³, Raffaele Sisto⁴, Carlos Montes¹, Elías Sanz-Casado⁵ ¹<i>Department of Ecology, Universidad Autónoma de Madrid, Spain.</i> ²<i>UNESCO Chair in Sustainable Development and Environmental Education, University of the Basque Country UPV/EHU, Spain.</i> ³<i>Department of Mathematics, Universidad Autónoma de Madrid, Spain.</i> ⁴<i>Smart&City Solutions, Spain.</i> ⁵<i>Research Institute for Higher Education and Science (INAEUC), University Carlos III of Madrid, Spain</i></p> <p>12:53-12:55 [PT1A.05] Towards a new model of citizenship culture: Exploring the incidence of urban, artistic and cultural activities <u>Prof. Clara Ines Pardo Martinez</u>¹, Prof. Alexander Cotte Poveda² ¹<i>Universidad del Rosario, Colombia.</i> ²<i>Universidad Santo Tomas, Colombia</i></p>	<p><i>Basque Centre for Climate Change (BC3), Spain</i></p>	<p><u>Dr. M. Fox</u>^{1,2,3}, Ms. S. Sinkar¹, Dr. M. Bechard^{4,5} ¹<i>Johns Hopkins Bloomberg School of Public Health, USA.</i> ²<i>Center for Advancing Research on Transportation Emissions, Energy, and Health, USA.</i> ³<i>Risk Sciences and Public Policy Institute, USA.</i> ⁴<i>University of Ottawa, Canada.</i> ⁵<i>Children’s Hospital of Eastern Ontario, Canada</i></p> <p>12:53-12:55 [PT1C.05] Public transportation planning and informal employment spatiality <u>Ms. V. Guzman - Monje</u>, Ms. C. Butron - Revilla, Ms. E. Manchego - Huaquipaco <i>National University of San Agustin of Arequipa, Peru</i></p>	<p>¹<i>EPIGET - Epidemiology, Epigenetics, and Toxicology Lab, Department of Clinical Sciences and Community Health, University of Milan, Italy.</i> ²<i>Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico, U.O.S Tossicologia, Italy.</i> ³<i>ABCittà Coop. ONLUS, Italy</i></p> <p>12:53-12:55 [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 <u>Msc. B. Vandeninden</u>^{1,2}, Dr. E.M. De Clercq², Prof. Dr. C. Faes³, Prof. Dr. C. Bouland¹ ¹<i>Université Libre de Bruxelles (ULB), Belgium.</i> ²<i>Sciensano, Belgium.</i> ³<i>University Hasselt, Belgium</i></p>
<p>13:05-14:00 Lunch Noray Restaurant</p>			
<p>14:00-15:00 Poster Session 1 Tramuntana 1 & 2</p>			
<p>15:00-16:00 Session 09: Cities, resilience and ethics Auditorium T. Logan, Katarzyna Wieszczyzna</p> <p>15:00-15:15 [O09.01] Understanding capacity building for action within Urban resilience <u>Ms Katarzyna Wieszczyzna</u>¹, Professor Dr Nicola Tollin¹, Dr Mathias Spaliviero² ¹<i>University of Southern Denmark, Denmark.</i> ²<i>United Nations Human Settlement Programme, Kenya</i></p> <p>15:15-15:30 [O09.02] Promise and peril: How community resilience is affected in different approaches to urban village transformation <u>Kemeng Zhao</u> <i>Delft University of Technology, The Netherlands</i></p> <p>15:30-15:45 [O09.03] Investigating sustainability and resilience of metropolitans in the US with artificial neural network clustering techniques</p>	<p>Session 10: Public transport and Micromobility Tramuntana 3 E.K Kim, R. Oostendorp</p> <p>15:00-15:15 [O10.01] E-Scooters in cities: Users and usage, conflicts and coexistence with walking and cycling <u>Dr. R. Oostendorp</u>, Dr. M. Hardinghaus <i>German Aerospace Center (DLR), Institute of Transport Research, Germany</i></p> <p>15:15-15:30 [O10.02] Who rides faster? Micromobility speed and conflicts for urban space <u>Jerònia Cubells</u>, Dr Oriol Marquet <i>Universitat Autònoma de Barcelona, Spain</i></p> <p>15:30-15:45 [O10.03] Visiting High-speed railway station areas as public spaces? Surveying users’ perception of place quality in Shanghai station area, China <u>Mr Jinglun Du</u>¹, Dr. Oana Druta¹, Prof. Haixiao Pan², Prof. Pieter Van Wesemael¹</p>	<p>Session 11: Equity, sustainability and norms Garbi 2 Lucinda Cash-Gibson, Giulia Melis</p> <p>15:00-15:15 [O11.01] Moving towards equitable sustainability: A mixed-method assessment of politically committed European cities <u>Dr Lucinda Cash-Gibson</u>^{1,2,3}, Mr Ferran Muntané Isart^{1,3}, Ms Júlia Tena^{1,3}, Dr Eliana Martínez-Herrera^{4,2,1}, Prof Joan Benach^{1,2,3,5} ¹<i>JHU-UPF Public Policy Center, Departament de Ciències Polítiques i Socials, Universitat Pompeu Fabra, Spain.</i> ²<i>Health Inequalities Research Group, Employment Conditions Knowledge Network (GREDS-EMCONET), JHU-UPF Public Policy Center, Departament de Ciències Polítiques i Socials, Universitat Pompeu Fabra,, Spain.</i> ³<i>UPF Barcelona School of Management (UPF-BSM),, Spain.</i> ⁴<i>National School of Public Health “Héctor Abad Gómez”, University of Antioquia, Colombia.</i> ⁵<i>Ecological Humanities Research Group (GHECO), Transdisciplinary Research Group on Socioecological Transitions (GinTRANS2), Universidad Autónoma, Spain</i></p>	<p>Session 12: Disaster, regeneration, digitalization and politicians Garbi 1 Yegane Ghezelloo, Richi Mohanty</p> <p>15:00-15:15 [O12.01] Process of community-driven post-disaster recovery of public spaces in the Great East Japan Earthquake and Tsunami-2011 affected areas <u>Dr. Yegane Ghezelloo</u>¹, Emeritus Professor Akihiko Hokugo², Associate Professor Tamiyo Kondo¹, Dr. Abel Táiti Konno Pinheiro³, Associate Professor Elizabeth Maly⁴ ¹<i>Department of Architecture, Kobe University, Japan.</i> ²<i>Research Center for Urban Safety and Security, Kobe University, Japan.</i> ³<i>Disaster Reduction and Human Renovation Institution, PhD, Japan.</i> ⁴<i>International Research Institute of Disaster Science, Tohoku University, Japan</i></p> <p>15:15-15:30 [O12.02] Regenerative compatibility. A synergy between healthy ecosystems, environmental attitudes, and restorative experiences</p>

	<p>Haiqing Liu¹, Associate Professor Na Chen², Professor Xinhao Wang¹ ¹<i>School of Planning, University of Cincinnati, USA.</i> ²<i>Center for Chinese Public Administration Research; School of Government Sun Yat-sen University, China</i></p> <p>15:45-16:00 [O09.04] Community resilience through urban design and equitable access to essential services Dr T. Logan, Mr M. Anderson <i>University of Canterbury, New Zealand</i></p>	<p>¹<i>Eindhoven university of Technology, The Netherlands.</i> ²<i>Tongji University, China</i></p> <p>15:45-16:00 [O10.04] The effect of public transport accessibility and convenience on housing movement decision making in seoul city in Korea E.K Kim¹, J Nam² ¹<i>Department of Urban Planning and Design in Graduate School, University of Seoul, Republic of Korea.</i> ²<i>Department of Urban Planning and Design & Department of Smart Cities in Graduate School, University of Seoul, Republic of Korea</i></p>	<p>15:15-15:30 [O11.02] Changes of spatial structure in the intra-urban scale. Evidence from Poland dr Bartosz Bartosiewicz <i>University of Łódź, Poland</i></p> <p>15:30-15:45 [O11.03] From niche to norm - unraveling the complexity of mobility transition by surfacing social norms of mobility behavior using a mixed-methods approach Dr. Michael Braito, Dr. Elisabeth Schuppenlehner-Kloyber, Dr. Patrick Scherhauser, Dr. Sandra Wegener <i>University of Natural Resources and Life Sciences, Vienna, Austria</i></p> <p>15:45-16:00 [O11.04] Urban heat island effect and social vulnerability in Turin: Prioritizing climate change mitigation actions with an equity perspective Giulia Melis¹, Nicolas Zengarini², Eduardo DiGangi¹, Marta Ellena³, Prof Giuseppe Costa⁴ ¹<i>Future Cities and Communities, LINKS Foundation, Italy.</i> ²<i>Epidemiology Unit, Regional Health Service ASL TO3, Italy.</i> ³<i>Regional Models and geo-Hydrological Impacts (REMHI) Division - Fondazione Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy.</i> ⁴<i>Università di Torino, Italy</i></p>	<p>Dr. M. Giusti, Mr. K. Samuelsson <i>University of Gävle, Sweden</i></p> <p>15:30-15:45 [O12.03] Municipal politicians' understanding of risk – what does it take for political decision-makers to innovate? Ms Julia Jokiahö, Dr Fedra Vanhuysse <i>Stockholm Environment Institute, Sweden</i></p> <p>15:45-16:00 [O12.04] Impact of digitalisation on the perception and use of urban public space: Understanding how digital influences are redefining the urban public spaces Miss Richi Mohanty <i>University of Kent, UK</i></p>
<p>16:00-16:30</p>	<p>Refreshment Break Tramuntana 1 & 2</p>			
<p>16:30-17:30</p>	<p>Session 13: Cities and economics Auditorium M. Do, Filippos K. Zisopoulos</p> <p>16:30-16:45 [O13.01] Towards the regenerative city – Insights by applying tools from regenerative economics at the EU level Dr. Filippos K. Zisopoulos^{1,2}, Assistant prof. Daan Schraven², Prof. Martin de Jong^{1,3,4} ¹<i>Rotterdam School of Management - Erasmus University Rotterdam, The Netherlands.</i> ²<i>Infrastructure Design & Management - Delft University of Technology, The Netherlands.</i> ³<i>Erasmus School of Law - Erasmus University Rotterdam, The Netherlands.</i> ⁴<i>Institute for Global Public Policy - Fudan University,, China</i></p> <p>16:45-17:00 [O13.02] The political economy of net-zero carbon transport transitions: A multi-stakeholder perspective of urban bus decarbonization in the United Kingdom Dr. I. Argyriou, Professor J. Barry <i>Queen's University Belfast, UK</i></p>	<p>Session 14: Energy and transport Tramuntana 3 Naeem Ahmed, Jackson Deziel</p> <p>16:30-16:45 [O14.01] Transport energy consumption, urbanization, and environment in Asian Populous countries: Exploring the role of ICT through Panel Threshold model Dr Zakia Batool, Mr Naeem Ahmed <i>National University of Modern Languages, Islamabad, Pakistan</i></p> <p>16:45-17:00 [O14.02] Capacity building for an effective energy transition and climate neutrality in 8 European municipalities Arantza López¹, Marijn Geet², Jannes Kalfsbeek³ ¹<i>Tecnalia, Spain.</i> ²<i>RUG, The Netherlands.</i> ³<i>NEC, The Netherlands</i></p> <p>17:00-17:15 [O14.03] Vehicle electrification in informal transport Marc Hasselwander¹, Jacqueline Senyagwa², Emilie Martin², Vera-Marie Andrieu², Mirko Goletz¹, Oliver Lah²</p>	<p>Session 15: Neighbourhood and health Garbi 2 Sebastien Chastin, Mònica Ubalde-López</p> <p>16:30-16:45 [O15.01] Investigating the association between regeneration of urban blue spaces and risk of incident chronic health conditions stratified by neighbourhood deprivation: A population-based retrospective study, 2000-2018 Dr Zoe Tieges^{1,2}, Michail Michail Georgiou¹, Niamh Smith¹, Prof Gordon Morison¹, Prof Sebastien Chastin^{1,3} ¹<i>Glasgow Caledonian University, UK.</i> ²<i>University of Edinburgh, UK.</i> ³<i>Ghent University, Belgium</i></p> <p>16:45-17:00 [O15.02] Profiles of metabolic syndrome and the neighbourhood environment Dr A. Barnett¹, Dr E. Martino², Dr L. Knibbs³, Professor J. Shaw^{4,5}, Professor D. Dunstan⁴, Professor D. Magliano^{4,5}, Dr D. Donaire-Gonzalez⁶, Professor E. Cerin^{1,7,8} ¹<i>Australian Catholic University, Australia.</i> ²<i>The University of Melbourne, Australia.</i> ³<i>The University of</i></p>	<p>Session 16: Green space Garbi 1 Marco Garrido-Cumbrera, Sonja Kahlmeier</p> <p>16:30-16:45 [O16.01] Understanding the role of Accompaniment when visiting Green Spaces Professor Marco Garrido-Cumbrera, PhD Olta Braçe, M.Biostats José Correa-Fernández, Professor Enrique López-Lara <i>Health & Territory Research, Universidad de Sevilla, Spain</i></p> <p>16:45-17:00 [O16.02] The impact of exposure and access to green/blue spaces on mental health inequalities: A population-wide dynamic longitudinal panel study with linked survey data Prof Sarah Rodgers¹, Dr Daniel Thompson², Dr Joanne Garrett³, Dr Amy Mizen², Dr Francis Rowney⁴, Dr Rebecca Geary¹, Dr Richard Fry², Prof Alan Watkins², Mr Ashley Akbari², Dr Rebecca Lovell³, Prof Ronan Lyons², Prof Mark Nieuwenhuijsen⁵, Prof Gareth Stratton², Dr Dialehti Tsimpida¹, Dr Benedict</p>

	<p>17:00-17:15 [O13.03] Willingness To Pay (WTP) for elderly homes in China: An empirical study in Shanghai and Suzhou, China Dr Yunqing Xu¹, <u>Dr YISHUANG XU</u>², Dr Yi Man Rita Li³ ¹<i>Xi'an Jiaotong-Liverpool University, China.</i> ²<i>University of Manchester, UK.</i> ³<i>Hong Kong Shue Yan University, Hong Kong</i></p> <p>17:15-17:30 [O13.04] Infrastructure health monitoring and maintenance cost estimation for road asset management: Focused on sejong special self-governing city <u>Prof. M. Do</u>¹, Ph.D. Researcher S. Choi¹, Senior Researcher W. Byun² ¹<i>Hanbat National Univ., Republic of Korea.</i> ²<i>LHI, Republic of Korea</i></p>	<p>¹<i>German Aerospace Center (DLR), Germany.</i> ²<i>Urban Electric Mobility Initiative (UEMI), Germany</i></p> <p>17:15-17:30 [O14.04] Gasoline, Emergency Medical Services, and Cross-Price Elasticity of Demand in the Urban Setting <u>Dr. Jackson Deziel</u>, Nate Andrews <i>Western Carolina University, USA</i></p>	<p><i>Sydney, Australia.</i> ⁴<i>Baker Heart and Diabetes Institute, Australia.</i> ⁵<i>Monash University, Australia.</i> ⁶<i>Utrecht University, The Netherlands.</i> ⁷<i>The Arctic University of Norway, Norway.</i> ⁸<i>The University of Hong Kong, Hong Kong</i></p> <p>17:00-17:15 [O15.03] The association of residential natural landscape diversity and total physical activity at midlife - Northern Finland Birth Cohort 1966 Study <u>Soile Puhakka</u>^{1,2,3}, Katja Kangas⁴, Tiina Lankila^{3,1}, Maisa Niemelä^{5,6,1}, Mikko Kärmeniemi^{2,1}, Helena Tukiainen³, Jan Hjort³, Raija Korpelainen^{1,2,6} ¹<i>Department of Sports and Exercise Medicine, Oulu Deaconess Institute, Finland.</i> ²<i>Center for Life Course Health Research, Faculty of Medicine, University of Oulu, Finland.</i> ³<i>The Geography Research Unit, Faculty of Science, University of Oulu, Finland.</i> ⁴<i>Natural Resources Institute Finland, Economics and Society, University of Oulu, Finland.</i> ⁵<i>Research Unit of Medical Imaging, Physics and Technology, Faculty of Medicine, University of Oulu, Finland.</i> ⁶<i>Medical Research Center, Oulu University Hospital and University of Oulu, Finland</i></p> <p>17:15-17:30 [O15.04] Improving public spaces through school streets calming: The impact of the "School Street Program" in Barcelona <u>Dr Mònica Ubalde-López</u>^{1,2,3}, Sr Joan Cholbi⁴, Mss Sara Pauli¹, Mrs Andrea Ballbé⁵, Mrs Raquel Calvo⁵, Mrs Carolyn Daher^{1,2,3}, Dr Mark Nieuwenhuijsen^{1,2,3}, Dr Jordi Honey-Rosés⁴ ¹<i>Barcelona Institute for Global Health (ISGlobal), Spain.</i> ²<i>Universitat Pompeu Fabra (UPF), Spain.</i> ³<i>Centro de Investigación Biomédica en Red Epidemiología y Salud Pública (CIBERESP), Spain.</i> ⁴<i>Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, Spain.</i> ⁵<i>City of Barcelona, Spain</i></p>	<p>Wheeler³, Dr James White⁶, Dr Sue Williams⁷, Dr Mathew White⁸ ¹<i>University of Liverpool, UK.</i> ²<i>Swansea University, UK.</i> ³<i>University of Exeter, UK.</i> ⁴<i>University of Plymouth, UK.</i> ⁵<i>Barcelona Institute of Global Health (ISGlobal), Spain.</i> ⁶<i>Cardiff University, UK.</i> ⁷<i>Natural Resources Wales, UK.</i> ⁸<i>University of Vienna, Austria</i></p> <p>17:00-17:15 [O16.03] Non-native red oaks (<i>Quercus rubra</i> L.) are healthier but support fewer microhabitats and bat activity than native pedunculate oaks (<i>Quercus robur</i> L.) in urban environments: A study on the park and street trees in southwest Germany Monika Laux¹, <u>Hailiang Lyu</u>^{1,2}, Martin Entling³, Jens Schirmel³, Mario Köhler⁴, Somidh Saha¹ ¹<i>KIT-ITAS, Germany.</i> ²<i>Heilongjing Bayi Agricultural University, China.</i> ³<i>University of Koblenz-Landau, Germany.</i> ⁴<i>City Horticulture Office (Gartenbauamt), Municipality of Karlsruhe, Germany</i></p> <p>17:15-17:30 [O16.04] Challenges for Advancing Urban Green and Blue Space and Urban Health—Collaborative statement on integrating research, practice, and policy Prof Ruth Hunter¹, Prof Mark Nieuwenhuijsen², Prof Carlo Fabian³, Prof Niamh Murphy⁴, Prof Kelly O'Hara⁵, Prof Erja Rappe⁶, Prof James Sallis⁷, <u>Prof Sonja Kahlmeier</u>⁸ ¹<i>Queen's University Belfast, UK.</i> ²<i>ISGlobal, Spain.</i> ³<i>University of Applied Sciences Northwestern Switzerland FHNW, Switzerland.</i> ⁴<i>Waterford Institute of Technology, Ireland.</i> ⁵<i>University Beira Interior, Portugal.</i> ⁶<i>Age Institute, Finland.</i> ⁷<i>University of California, San Diego, USA.</i> ⁸<i>Swiss Distance University of Applied Science (FFHS), Switzerland</i></p>
17:30-18:30	<p>Welcome Drinks Reception Tramuntana 1 & 2</p>			

<p>08:00-09:00</p>	<p>Breaking research - New super exciting results Auditorium Michael Jerrett</p> <p>08:00-08:15 [EMO.01] Spatial association of green space, tree canopy and parks with life expectancy in neighborhoods of Los Angeles Doctoral Candidate Rachel Connelly, <u>Professor and Director Michael Jerrett</u> <i>University of California, Los Angeles, USA</i></p> <p>08:15-08:30 [EMO.02] Utopia by design: Contemporary opportunities for a timeless ideal <u>Ana Gatóo</u>, Dr Aftab Jalia, Dr Antiopi Koronaki, Dr Michael Ramage <i>University of Cambridge, UK</i></p> <p>08:30-08:45 [EMO.03/P2.003] Sea view visibility, coastal proximity, and mental health in the aftermath of a natural disaster, Japan <u>Dr. Ai Tashiro</u>¹, Professor Tomoki Nakaya² ¹<i>The University of Tokyo, Japan.</i> ²<i>Tohoku University, Japan</i></p> <p>08:45-09:00 [EMO.04/PT1C.04] Health and equity in transportation health impact assessments: A retrospective analysis <u>Dr. M. Fox</u>^{1,2,3}, Ms. S. Sinkar¹, Dr. M. Bechard^{4,5} ¹<i>Johns Hopkins Bloomberg School of Public Health, USA.</i> ²<i>Center for Advancing Research on Transportation Emissions, Energy, and Health, USA.</i> ³<i>Risk Sciences and Public Policy Institute, USA.</i> ⁴<i>University of Ottawa, Canada.</i> ⁵<i>Children's Hospital of Eastern Ontario, Canada</i></p>	<p>Early Morning Session 4: Connecting climate and health for urban transformation Tramuntana 3</p> <p>Carolyn Daher, <i>ISGlobal, Spain</i> & Esti Sanz, <i>BC3 Basque Centre for Climate Change Klima Aldaketa Ikergai, Spain</i></p>	<p>Early Morning Session 5: Nature-based solutions for sustainable, resilient, and equitable transitions - Embracing urban complexity Garbi 2</p> <p>Johannes Langemeyer, <i>Universitat Autònoma de Barcelona, Spain</i></p>	<p>Early Morning Session 6: Planning cities for health – the evidence base for health from the UBD project Garbi 1</p> <p>Mark Nieuwenhuijsen, <i>Barcelona Institute for Global Health, Spain</i></p>
<p>09:00-09:30</p>	<p>[KN03] Isabelle Anguelovski, Autonomous University of Barcelona, Spain Achieving health equity in urban green planning Auditorium James Woodcock</p>			
<p>09:30-10:00</p>	<p>[KN04] Susan Handy, University of California, USA The ideas that shape transportation and what they mean for health Auditorium James Woodcock</p>			
<p>10:00-11:00</p>	<p>Session 17: City models/15 min city Auditorium Jeffrey Blain, Francesc Magrinà</p> <p>10:00-10:15 [O17.01] How to characterize a 15-minute city? A study case of Saint-Fons, Lyon, France</p>	<p>Session 18: New transit models Tramuntana 3 Manaswinee Kar, Jamson Masih</p> <p>10:15-10:30 [O18.02] Non-parametric efficiency analysis of urban transport systems</p>	<p>Session 19: Neighbourhood planning, physical activity and crime Garbi 2 Antoni Colom, A. Szmelter-Jarosz</p> <p>10:00-10:15 [O19.01]</p>	<p>Session 20: Green space and health Garbi 1 M. Korpisaari, T. Lungman</p> <p>10:00-10:15 [O20.01]</p>

Doctor Jeffrey Blain, Doctor Carmen Cantuarias-Villesuzanne, Doctor Brice Barois
ESPI2R Research in Real Estate, France

10:15-10:30 [O17.02]

15-Minute City: Access to essential services in Metro Vancouver

Avril Li¹, Dr Michael Brauer¹, Dr Meghan Winters², Dr Kate Weinberger¹

¹University of British Columbia, Canada. ²Simon Fraser University, Canada

10:30-10:45 [O17.03]

Analysing the potential of the 15-minute city concept and related transport equity aspects in Spain

M. Radics^{1,2}, P. Christidis¹

¹European Commission, Joint Research Centre (JRC), Seville, Spain. ²Universidad de Cantabria (UCAN), Santander, Spain

10:45-11:00 [O17.04]

Superblocks or Green Axes in Barcelona: The key governance issues for a successful experience

Professor Francesc Magrinyà

Universitat Politècnica de Catalunya-DECA-EXIT, Spain

Mr Alexander Kaiser, Prof. Dr. Axel Schaffer
Bundeswehr University Munich, Department of Economics and Organizational Sciences, Germany

10:30-10:45 [O18.03/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

10:45-11:00 [O18.04]

Adapting walking as a healthy access mode to metro stations - the deterrents and priorities of improvement

Ms. Manaswinee Kar, Dr. Shubhajit Sadhukhan, Dr. Manoranjan Parida

Indian Institute of Technology, Roorkee, India

The Influence of Neighborhood Walkability on Physical Activity Changes during a physical activity intervention program in a senior population at high cardiovascular risk

PhD Antoni Colom^{1,2,3}, PhD Julia Wärnberg^{4,5}, PhD Maurici Ruiz^{6,7}, Alexandre Moragues⁸, PhD Joana María Seguí-Pons⁷, PhD Jadwiga Konieczna^{1,9}, PhD Francisco Javier Barón-López^{9,10}, PhD Ramon Estruch^{4,11}, PhD Josep Vidal Cortada^{4,12}, PhD Vicente Martín Sánchez^{13,14}, PhD Miguel A. Martínez-González^{4,15,16}, PhD J. Alfredo Martínez^{4,17,18}, PhD Montserrat Fitó^{4,19}, PhD Jordi Salas-Salvado^{4,20,21}, PhD Dora Romaguera^{1,9}, MD Francisca Fiol²²

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Intensity of physical activity is associated with cardiac autonomic function irrespective of residential greenness

M. Korpisaari^{1,2,3}, S. Puhakka^{1,2,3}, V. Farrahi⁴, M. Niemelä⁴, M. Tulppo⁵, T. Ikäheimo⁶, R. Korpelainen^{1,2}, T. Lankila^{3,1}

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⁷Department of Sports and Exercise Medicine, Oulu Deaconess Institute Foundation, Finland. ⁸Center for Life Course Health Research, Faculty of Medicine, University of Oulu, Finland. ⁹Geography Research Unit, Faculty of Science, University of Oulu, Finland. ¹⁰Research Unit of Medical Imaging, Physics and Technology, Faculty of Medicine, University of Oulu, Finland. ¹¹Research Unit of Biomedicine, Medical Research Center, Faculty of Medicine, University of Oulu and Oulu University Hospital, Finland. ¹²Center for Environmental and Respiratory Health Research, Faculty of Medicine, University of Oulu, Finland

10:15-10:30 [O20.02]

Nonlinear associations between urban greenness exposures and neighborhood level years of potential life lost: A study in greater manchester

Dr. SM Labib^{1,2}, Professor Sarah Lindley³, Dr. Jonny Huck³

¹Department of Human Geography and Spatial Planning, Faculty of Geosciences, Utrecht University, The Netherlands. ²Centre for Diet and Activity Research, MRC Epidemiology Unit, University of Cambridge, UK. ³Department of Geography, School of Environment, Education and Development (SEED), University of Manchester, UK

10:30-10:45 [O20.03]

How do urban parks, neighborhood open spaces and private gardens contribute to individuals' subjective well-being: Results of a structural equation model

Yuwen Zhao, Pauline van den Berg, Ioulia V. Ossokina, Theo A. Arentze

Eindhoven University of Technology, The Netherlands

10:45-11:00 [O20.04]

Cooling cities for health through urban green infrastructure: A health impact assessment for european cities

MPH T. lungman^{1,2}, MSc M. Cirach¹, PhD F. Marando³, MPH E. Pereira-Barboza¹, MSc S. Khomenko¹, PhD P. Masselot⁴, MSc M. Quijal¹, PhD J. Urquiza¹, PhD N. Mueller¹, PhD A. Gasparrini⁴, PhD M. Nieuwenhuijsen¹

¹ISGlobal, Spain. ²Universitat Pompeu Fabra, Spain. ³Joint Research Centre (JRC), Italy. ⁴London School of Hygiene and Tropical Medicine (LSHTM), UK

Hospital Universitari San Joan de Reus, Reus, Spain., Spain. ²¹Institut d'Investigació Pere Virgili (IISPV). Reus, Spain., Spain. ²²Balearic Health Service IbSalut Son Serra-La Vileta Healthcare Centre, Spain

10:15-10:30 [O19.02]

An online interactive atlas for built environment context and change in Great Britain: BECCA
Dr J Panter¹, Dr F Caryl², Dr D Fecht³, Dr J Hepburn², Mrs L McDonald², Dr A de Nazelle³, Dr D Ogilvie¹, Dr R Patterson¹, Prof R Mitchell²
¹University of Cambridge, UK. ²University of Glasgow, UK. ³Imperial College London, UK

10:30-10:45 [O19.03]

Nurturing the future: Assessing the playability of urban neighbourhoods
Emily Gemmell, Dr. Michael Brauer
University of British Columbia, Canada

10:45-11:00 [O19.04]

Mindset, quality of life and mobility choices – the complex analysis for urban and suburban areas in Poland
A. Szmelter-Jarosz, M. Suchanek
University of Gdańsk, Poland

11:00-11:30

Refreshment Break

Tramuntana 1 & 2

11:30-12:45

Session 21: Cities and climate

Auditorium
May Haggag, Teresa Palomo Amores

11:30-11:45 [O21.01]

Climate resilience planning using machine learning techniques
Dr. May Haggag, Mrs. Eman Rezk, Dr. Wael El-Dakhkhni
McMaster University, Canada

11:45-12:00 [O21.02]

Vulnerability and adaptation to climate change: Perceptions and experience in an Arab urban locality in Israel
A. Pahaut¹, B. Egbaria¹, A. Obeid², Dr. M. Negev¹
¹University of Haifa, Israel. ²The Galilee Society, Israel

12:00-12:15 [O21.03]

How to support and integrate health and climate emergency policies
PhD E. Sanz¹, PhD L. Chelleri², PhD A. Chiabai¹
¹Basque Centre of Climate Change, Spain. ²International University of Catalonia, Spain

Session 22: Active travel

Tramuntana 3
Lorraine D'Arcy, James Woodcock

11:30-11:45 [O22.01]

Open source walkability monitoring tool for urban neighbourhoods in the European Union
Prof Stefan Fina¹, Dr Lorraine D'Arcy², Dr David Vale³
¹ILS – Research Institute for Regional and Urban Development, Germany. ²TU Dublin, Ireland. ³University of Lisbon, Portugal

11:45-12:00 [O22.02]

Association between built environment attributes and active travel speeds and volumes observed among Strava users in the Greater Manchester region
I. Itova¹, C. Staves¹, S. M. Labib², A. de Nazelle³, A. Jafari⁴, J. Woodcock¹, J. Panter³, B. Zapata-Diomedes⁴, T. Saghapour⁴, L. Gunn⁴, B. Giles-Corti⁴, H. Khreis¹, D. Singh⁴, O. Gudes⁵
¹University of Cambridge, UK. ²Utrecht University, The Netherlands. ³Imperial College London, UK. ⁴RMIT University, Australia. ⁵Monash University, Australia

12:00-12:15 [O22.03]

Session 23: Air pollution and health

Garbi 2
Luca Boniardi, Heike Marquart

11:30-11:45 [O23.01]

Exploring cyclists' and pedestrians' air pollution and noise exposure, sensory experiences and health protective practices on-the-move using go-/ride-alongs and wearable sensors
Heike Marquart
German Aerospace Center (DLR), Germany. Humboldt University Berlin, Germany

11:45-12:00 [O23.02]

Sector-specific contributions to ambient air pollution in European cities and impact on mortality
Sasha Khomenko¹, Marta Cirach¹, Evelise Pereira-Barboza¹, Tamara Lungman¹, Natalie Mueller¹, Sourangsu Chowdhury², Enrico Pisoni³, Philippe Thunis³, Jos Lelieveld⁴, Mark Nieuwenhuijsen¹
¹Barcelona Institute for Global Health (ISGlobal), Spain. ²Center for International Climate Research (CICERO), Norway. ³Joint Research Centre (JRC), Italy. ⁴Max Planck Institute, Germany

12:00-12:15 [O23.03]

Session 24: Justice in planning

Garbi 1
Alessia Calafiore, L. Smale

11:30-11:45 [O24.01]

Exploring environmental justice in urban green space governance: A case study of three New York City parks
L. Smale¹, Dr. D. Taylor¹, Dr. L. Campbell², Dr. M. Johnson², Dr. E. Svendsen²
¹Yale School of the Environment, Yale University, USA. ²Northern Research Station, USDA Forest Service, New York City Urban Field Station, USA

11:45-12:00 [O24.02]

Justice and the design of urban landscapes: Perspectives from practice in re-opening Oslo's Alna river
Angela Kivle
The Oslo School of Architecture and Design, Norway

12:00-12:15 [O24.03]

The lived experience of low emission zones: A residents' survey on fairness and impact of the London ULEZ
Dr Thomas Verbeek

	<p>12:15-12:30 [O21.04] An iceberg in an urban heat island: How communities deal with climate change <u>Lurissa den Dulk</u>¹, Dr. Marleen Buizer¹, Dr. Bertie Kaal², Dr. Ir. Laura Kleerekoper³ ¹Wageningen University, The Netherlands. ²University of Amsterdam, The Netherlands. ³Hogeschool van Amsterdam, The Netherlands</p> <p>12:30-12:45 [O21.05] Improving habitability in open spaces through bioclimatic shading strategies in Seville PhD candidate <u>Teresa Palomo Amores</u>¹, Researcher M.Carmen Guerrero Delgado¹, Researcher José Sánchez Ramos¹, Researcher Alberto Cerezo Narváez², PhD candidate Daniel Castro Medina¹, Researcher Servando Álvarez Dominguez¹ ¹University of Seville, Spain. ²University of Cádiz, Spain</p>	<p>Transition experiments in labs of walkability for livability <u>Filipa Corais</u> <i>School of Architecture, Art and Design of University of Minho, Portugal. Landscape, Heritage and Territory Laboratory (Lab2PT), Portugal</i></p> <p>12:15-12:30 [O22.04] Street view environments are associated with the walking duration of pedestrians: The case of Amsterdam, the Netherlands <u>Mr Jiakun Liu</u>, Prof. dr. ir. Dick Ettema, Dr. Marco Helbich <i>Utrecht University, The Netherlands</i></p> <p>12:30-12:45 [O22.05] Health impact modelling of transport in the Global South <u>Prof James Woodcock</u>¹, Dr Haneen Khreis¹, Dr Ali Abbas¹, Dr Rahul Goel², Dr Lambed Tatah¹, Dr Anna Schroeder¹, Mr Daniel Gill¹, Dr Christian Brand³ ¹University of Cambridge, UK. ²Indian Institute of Technology, Delhi, India. ³University of Oxford, UK</p>	<p>Is a land use regression model capable of predicting cleanest home-to-school routes? <u>Dr L. Boniardi</u>^{1,2}, Dr. E. Dons^{3,4}, Dr. L. Campo², Dr. M. Van Poppel³, Prof. L. Int Panis^{3,5}, Prof. S. Fustinoni^{1,2} ¹EPiGET - Epidemiology, Epigenetics, and Toxicology Lab, Department of Clinical Sciences and Community Health, University of Milan, Italy. ²Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, U.O.S Tossicologia, Italy. ³Flemish Institute for Technological Research (VITO), Belgium. ⁴Hasselt University, Hasselt, Belgium, Belgium. ⁵Hasselt University, Hasselt, Belgium, Benin</p> <p>12:15-12:30 [O23.04] Health impact of air pollution and related costs in cities of South-East Europe <u>Claudio A. Belis</u>¹, Marta Ballocci¹, Vlatka Matkovic², Marija Jetvic³, Rita Van Dingenen¹ ¹European Commission, Joint Research Centre, Italy. ²Health & Environment Alliance, Belgium. ³Institute of Public Health of Vojvodina, University of Novi Sad, Serbia</p> <p>12:30-12:45 [P2.043] Association between air pollution and human health in urban cities PhD Joseph Sánchez-Balseca^{1,2}, <u>PhD Agustí Pérez-Foguet</u>² ¹Pontificia Universidad Católica del Ecuador, Ecuador. ²Universitat Politècnica de Catalunya – BarcelonaTech (UPC), Spain</p>	<p><i>Delft University of Technology, The Netherlands</i></p> <p>12:15-12:30 [O24.04] Governance learning from collective actions for just climate adaptation in cities <u>Dr. Mahir Yazar</u> <i>University of Bergen, Centre for Climate and Energy Transformation, Department of Geography, Norway</i></p> <p>12:30-12:45 [O24.05] Towards equitable 20 minute cities <u>Dr Alessia Calafiore</u>¹, Dr Richard Dunning², Dr Alex Nurse², Prof Alex Singleton² ¹University of Edinburgh, UK. ²University of Liverpool, UK</p>
<p>12:45-13:05</p>	<p>Poster Teaser Session 2A Auditorium May Haggag, Teresa Palomo Amores</p> <p>12:45-12:47 [PT2A.01] Environmental planning in Quibdó, Colombia: Strategies for stormwater management and biodiversity restoration under urban expansion <u>Ms. Rose Winer</u> MIT, USA</p> <p>12:47-12:49 [PT2A.02] Is climate change a laughing matter? <u>Miss Emma Carroll-Monteil</u> Edinburgh University, UK</p> <p>12:49-12:51 [PT2A.03] How do future patterns of urbanisation affect climate risk?: Examples from the UK OpenCLIM project <u>Dr Alistair Ford</u>^{1,2}, Dr James Virgo¹, Dr Craig Robson¹ ¹Newcastle University, UK. ²Tyndall Centre for Climate Change Research, UK</p> <p>12:51-12:53 [PT2A.04]</p>	<p>Poster Teaser Session 2B Tramuntana 3 Lorraine D'Arcy, James Woodcock</p> <p>12:45-12:47 [PT2B.01] The multiple benefits of active mobility for people and the environment (and how we achieve them) DI Natasa Hodzic-Srndic, <u>BA BA MSc Kathrin Raunig</u> AustriaTech, Austria</p> <p>12:47-12:49 [PT2B.02] Walking to school: Behaviours and perceptions of adolescents living within walking distance to their school <u>Professor S. Mandic</u>^{1,2}, Dr E. García Bengoechea^{3,4}, Associate Professor D. Hopkins⁵, Associate Professor K. Coppell⁶, Professor M. Smith⁷, Associate Professor A. Khan⁸, Professor J. Spence⁹ ¹Auckland University of Technology, New Zealand. ²AGILE Research Ltd., New Zealand. ³University of Limerick, Ireland. ⁴Sport Ireland, Ireland. ⁵University of Oxford, UK. ⁶University of Otago, New Zealand. ⁷The University of Auckland, New Zealand. ⁸The University of Queensland, Australia. ⁹University of Alberta, Canada</p>	<p>Poster Teaser Session 2C Garbi 2 Luca Boniardi, Heike Marquart</p> <p>12:45-12:47 [PT2C.01] What is a physical activity enabling neighborhood - from an urban planning perspective <u>Yufang Zhang</u> University of Groningen, The Netherlands</p> <p>12:47-12:49 [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, <u>Audrey de Nazelle</u>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</p>	<p>Poster Teaser Session 2D Garbi 1 Alessia Calafiore, L. Smale</p> <p>12:45-12:47 [PT2D.01] Housing conditions and consumer food practices: Different stakeholders' perspectives <u>Assistant Professor Lukar Thornton</u> University of Antwerp, Belgium</p> <p>12:47-12:49 [PT2D.02] A multidisciplinary and integrated approach to urban health-equity policies <u>Prof. Roberto Di Monaco</u>¹, MSc Silvia Pilutti², Phd Nicolas Zengarin³, MD Roberto Gnani³, MPhil Teresa Spadea³, MD 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</p> <p>12:49-12:51 [PT2D.03]</p>

	<p>Learning cities, innovative potential of cities in mining regions <u>Prof Zbigniew Makieła</u> <i>WSB University, Poland</i></p> <p>12:53-12:55 [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 <u>Mr M. Anderson</u>, Dr T. Logan <i>University of Canterbury, New Zealand</i></p>	<p>12:49-12:51 [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, <u>S. Rachdan</u> <i>Amsterdam Public Health research institute, Amsterdam University Medical Center, The Netherlands</i></p> <p>12:51-12:53 [PT2B.04] Urban street use: An all-users, all-uses framework Mr. Abbas SheikhMohammadZadeh, Prof. Nicolas Saunier, <u>Dr. E.O.D Waygood</u> <i>Civil, Geological and Mining Engineering Department, Polytechnique Montréal, Canada</i></p> <p>12:53-12:55 [PT2B.05] Exploring walking and cycling accessibility using network-based built environment indicators of safety, comfort, and attractiveness <u>Mr Corin Staves</u>¹, Mr SM Labib², Ms Irena Itova¹, Ms Qin Zhang³, Ms Jenna Panter¹, Ms Aruna Sivakumar⁴, Ms Audrey de Nazelle⁴, Ms Belen Zapata-Diomed⁵, Mr Ali Abbas¹, Ms Tayebah Saghapour⁵, Ms Lucy Gunn⁵, Mr John Gulliver⁶, Mr Afshin Jafari⁵, Mr Dharendra Singh⁵, Mr Luke Knibbs⁷, Mr James Woodcock¹, Mr Rolf Moeckel³, Ms Billie Giles-Corti⁵ ¹University of Cambridge, UK. ²Utrecht University, The Netherlands. ³Technical University of Munich, Germany. ⁴Imperial College London, UK. ⁵Royal Melbourne Institute of Technology, Australia. ⁶University of Leicester, UK. ⁷University of Sydney, Australia</p>	<p>12:49-12:51 [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 <u>Prof E. Cerin</u>¹, Dr A. Barnett¹, Dr G. Poudel¹, Ms E. Martino², Prof J.E. Shaw³, Dr L.D. Knibbs⁴, Prof B. Jalaludin⁵, Prof 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</p> <p>12:51-12:53 [PT2C.04] Detecting changes in urban mobility during the covid-19 pandemic using mobile phone tracking data <u>Dr Ossi Kotavaara</u>¹, Dr Tiina Lankila^{2,3}, Dr Terhi Ala-Hulkko^{2,1}, Dr 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</p> <p>12:53-12:55 [PT2C.05] Are all pedestrians the same? Characterization of pedestrian perception of sidewalk attributes M.Sc. M.I. Lopez-Rodriguez¹, <u>Ph.D. J.A. Vallejo-Borda</u>^{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</p> <p>12:55-12:57 [PT2C.06] Are neighborhood leisure spaces associated with physical activity of socially vulnerable preschoolers? Dr Clarice Martins^{1,2}, Dr Anastácio Filho², <u>Dr Maria Paula Santos</u>^{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</p>	<p>Regenerative parallaxing: Framing hegemonic environmental politics analysis within a transcalar environmental (in) justice framework <u>Laila Vivas</u>^{1,2}, Dr. Aline Chiabai¹ ¹Basque Centre for Climate Change (BC3), Spain. ²University of the Basque Country (UPV/EHU), Spain</p> <p>12:51-12:53 [PT2D.04] Understanding the impact of transport projects on the land use through gentrification process in Latin American cities <u>M.a Rebeca Assis</u>, Ph.D Carlos Loureiro <i>Federal University of Ceará, Brazil</i></p> <p>12:53-12:55 [PT2D.05] Let's make urban greening easier: A response to public authorities' request for simpler evaluation of green and blue projects benefits <u>Dr. Jiří Louda</u>¹, Dr. Jan Macháč², Marek Hekrl², Lenka Dubová², Dr. Kristýna Rybová², Assoc. Prof. Lenka Slavíková² ¹Jan Evangelista Purkyně University in Usti nad Labe, Czech Republic. ²Jan Evangelista Purkyně University in Usti nad Labem, Czech Republic</p>
13:05-14:00	<p>Lunch Noray Restaurant</p>			
14:00-15:00	<p>Poster Session 2</p>			

	Tramuntana 1 & 2			
15:00-16:00	<p>Session 25: Urban transformation Auditorium Y. Okazawa, Orlando Roman</p> <p>15:00-15:15 [O25.01] Location characteristics of large-scale photovoltaic power plants in Japan <u>Y. Okazawa</u>, K. Hino, Y. Asami <i>The University of Tokyo, Japan</i></p> <p>15:15-15:30 [O25.02] Method to City transformation <u>Prof. M. Amado</u>¹, Dr. A.R. Amado², Dr. F. Poggi³ ¹<i>CERIS – Civil Engineering Research and Innovation for Sustainability, Portugal.</i> ²<i>CIAUD - Research Centre for Architecture, Urbanism and Design, Portugal.</i> ³<i>CICS.NOVA - Interdisciplinary Centre of Social Sciences, Portugal</i></p> <p>15:30-15:45 [O25.03] Creating an integrated approach to health in land use planning: Observations from a partnership Jennie Pry¹, <u>Christopher Browne</u>^{2,1} ¹<i>South Western Sydney Local Health District, Australia.</i> ²<i>Wollondilly Shire Council, Australia</i></p> <p>15:45-16:00 [O25.04] Developing future planning scenarios by assessing the co-evolution of transportation networks and urban development <u>Mr. Orlando Roman</u>, Ms. Emma Zeindl, Prof. Bryan T. Adey <i>ETH Zürich, Switzerland</i></p>	<p>Session 26: COVID19 mobility Tramuntana 3 Haneen Khreis, Jamson Masih</p> <p>15:00-15:15 [O26.01] A systematic review on the impact of COVID-19 restrictions on air pollutants in low- and middle-income countries Dr Annalan Navaratnam¹, Mr Harry Williams², Dr James Woodcock¹, <u>Dr Haneen Khreis</u>¹ ¹<i>University of Cambridge, UK.</i> ²<i>University of Birmingham, UK</i></p> <p>15:15-15:30 [O26.02] Evolutions in undirected travel (satisfaction) during the COVID-19 pandemic <u>Hannah Hook</u>¹, Prof. Dr. Jonas De Vos², Prof. Dr. Veronique Van Acker^{3,1}, Prof. Dr. Frank Witlox^{1,4} ¹<i>Ghent University, Belgium.</i> ²<i>University College London, UK.</i> ³<i>Luxembourg Institute of Socio-Economic Research: LISER, Luxembourg.</i> ⁴<i>University of Tartu, Estonia</i></p> <p>15:30-15:45 [O26.03] Analyzing urban mobility transition triggered by the Covid-19 pandemic: A conceptual framework for cycling regime change in European cities <u>Matt Davoudizavareh</u>¹, Fariya Sharmeen¹, Bipashyee Ghosh² ¹<i>KTH, Sweden.</i> ²<i>University of Sussex Science Policy Research Unit (SPRU), UK</i></p> <p>15:45-16:00 [O26.04] Rethinking public space in times of covid-19: Pop-up infrastructure for active mobility in Berlin <u>A. Czeh</u>, Dr. J. Jarass <i>DLR, Institute of Transport Research, Germany</i></p>	<p>Session 27: Inequities Garbi 2 Lucy Gunn, Giselle Sebag</p> <p>15:00-15:15 [O27.01] Exploring inequities in housing affordability through an analysis of walkability and house prices by neighbourhood socioeconomic disadvantage <u>Dr Lucy Gunn</u>, Dr Tayebeh Saghapour, Professor Billie Giles-Corti, Professor Gavin Turrell <i>RMIT University, Australia</i></p> <p>15:15-15:30 [O27.02] Spatial and socioeconomic inequities in liveability in Australia's 21 largest cities: Does city size matter? B Giles-Corti¹, T Saghapour¹, <u>G Turrell</u>¹, L Gunn¹, A Both¹, M Lowe², J Rozek¹, R Roberts¹, P Hooper³, A Butt¹, C Higgs¹ ¹<i>RMIT University, Australia.</i> ²<i>University of Melbourne, Australia.</i> ³<i>University of Western Australia, Australia</i></p> <p>15:30-15:45 [O27.03] Revealing gender stereotypes and resistance in urban space use — a case study of Panjiayuan Market, Beijing, China <u>Miss Bing Han</u>, Dr. Ziwen Sun <i>Beijing Institute of Technology, China</i></p> <p>15:45-16:00 [O27.04] The Accelerating City Equity (ACE) Project: A framework to accelerate health equity in sustainable development <u>Giselle Sebag</u>¹, Araliya Senerat², Mariana Gomes³ ¹<i>International Society for Urban Health, Spain.</i> ²<i>International Society for Urban Health, USA.</i> ³<i>International Society for Urban Health, Brazil</i></p>	<p>Session 28: Stakeholder engagement Garbi 1 Paula Quentin, Pauline van den Berg</p> <p>15:00-15:15 [O28.01] Framing health in local planning practices: Findings from Northwest Germany <u>Dr. Paula Quentin</u>¹, Dr. Tanja Brüchert², Lena Oeltjen², Prof. Dr. Sabine Baumgart¹, Prof. Dr. Karsten Zimmermann¹, Prof. Dr. Gabriele Bolte² ¹<i>Department of Spatial Planning, TU Dortmund University, Germany.</i> ²<i>Institute of Public Health and Nursing Research, University of Bremen, Germany</i></p> <p>15:15-15:30 [O28.02] What constitutes meaningful engagement for new large scale urban development? Learning from the TRUUD project, UK <u>Dr Jo White</u>¹, Dr Anna Le Gouais² ¹<i>University of the West of England, UK.</i> ²<i>University of Bristol, UK</i></p> <p>15:30-15:45 [O28.03] Recommendations for developing urban interventions to promote physical activity: Interviews with key informants in Europe <u>Dr Prachi Bhatnagar</u>¹, Mr Stephen Whiting², Dr Kremlin Wickramasinghe² ¹<i>University of Oxford, UK.</i> ²<i>World Health Organization European Office for the Prevention and Control of Non-Communicable Diseases, Russia</i></p> <p>15:45-16:00 [O28.04] Involving citizens in urban planning participation processes: A stated choice study <u>Pauline van den Berg</u>, Romee den Boer, Robert van Dongen, Theo Arentze <i>Eindhoven University of Technology, The Netherlands</i></p>
16:00-16:30	<p>Refreshment Break Tramuntana 1 & 2</p>			
16:30-17:30	<p>Session 29: COVID19 and the city Auditorium Naeem Ahmed, Stefanie Dens</p> <p>16:30-16:45 [O29.01] The covid-19 pandemic and climate change vulnerability mapping in Pakistan: New insights for strategic management and policy implications <u>Mr Naeem Ahmed</u>¹, Dr Ihtsham Ul Haq Padda², Dr Azra Khan²</p>	<p>Session 30: Transport planning and mobility Tramuntana 3 Devon McAslan, Julia Schuppan</p> <p>16:30-16:45 [O30.01] Enabling parking-reduced development: Flexible parking standards and mobility alternatives in swedish municipalities <u>Dr. Devon McAslan</u>, Dr. Frances Sprei</p>	<p>Session 31: The X minute city Garbi 2 Karen Lamb, T. Logan</p> <p>16:30-16:45 [O31.01] The x-minute city: Measures of the 10, 15, 20-minute city and an evaluation of its use in sustainable urban design <u>Dr T. Logan</u>, Dr M. Hobbs, Dr L. Conrow, Mr N. Reid, Ms B. Young, Mr M. Anderson</p>	<p>Session 32: Urban biodiversity Garbi 1 Marcela Angel, Juan Luis Rivas-Navarro</p> <p>16:30-16:45 [O32.01] Identification and approach to the project of the ecosystem structure of Granada: An environmental, socioeconomic and cultural urgency</p>

	<p>¹National University of Modern Languages, Islamabad, Pakistan. ²Federal Urdu University of Arts, Science and Technology, Islamabad, Pakistan</p> <p>16:45-17:00 [O29.02] Solar energy the panacea to post covid urban development (the Nigerian factor) <u>Engr "E" "Aja"</u>^{1,2}, Prof "M" "Haruna"¹ ¹National Agency for Science and Engineering Infrastructure, Nigeria. ²Nile University of Nigeria, Nigeria</p> <p>17:00-17:15 [O29.03] Municipalities investment projects in light of the economic recovery plan: A data-driven approach for planning <u>prof Giacomo Di Foggia</u>, Prof Massimo Beccarello <i>University of Milano-Bicocca, Italy</i></p> <p>17:15-17:30 [O29.04] Interdisciplinary approaches to unravel complexities in the burden of tuberculosis and covid-19 in lima metropolitana, Peru <u>stefanie dens</u>¹, Claudia Nieto-Sanchez², Mario de los Santos³, Karla Solari⁴, Jesus Cisneros⁴, Victor Vega⁵, Larissa Otero⁵, Kristien Verdonck², Koen Peeters-Grietens², Maarten Van Acker¹ ¹University of Antwerp, Belgium. ²Institute of Tropical Medicine, Belgium. ³Pontificia Universidad Católica del Perú, Peru. ⁴Universidad Nacional Mayor de San Marcos, Peru. ⁵Instituto de Medicina Tropical Alexander von Humboldt, Peru</p>	<p><i>Chalmers University of Technology, Sweden</i></p> <p>16:45-17:00 [O30.02] Public space and the spatial experience of older adults: A study of the socio-physical environment in two historic town neighborhoods <u>Dr. M.B. Cortés Topete</u>, Dr. O.L. Narváez Montoya <i>UNIVERSIDAD AUTONOMA DE AGUASCALIENTES, Mexico</i></p> <p>17:00-17:15 [O30.03] Older people's usage pattern of community facilities and mobility in a dense urban city <u>Mr Siqiang Wang</u>, Dr Esther, Hiu Kwan YUNG <i>Department of Building and Real Estate, The Hong Kong Polytechnic University, Hong Kong</i></p> <p>17:15-17:30 [O30.04] Setting the urban agenda to implement automated road transport with regard to sustainable urban mobility plans. Findings of a Delphi Survey and stakeholder workshops in European cities Dr. Julia Schuppan, <u>Kay Gade</u> <i>German Aerospace Center DLR, Institute for Transport Research, Germany</i></p>	<p><i>University of Canterbury, New Zealand</i></p> <p>16:45-17:00 [O31.02] Car use in the context of the 15 minute-city. Are we planning in the right direction? <u>Dr. Oriol Marquet</u>¹, Dr. Monika Maciejewska², Dr. Guillem Vich³ ¹Institute of Environmental Science and Technology (ICTA-UAB), Spain. ²Cosmopolis Centre for Urban Research, VUB, Belgium. ³ISGlobal (Barcelona Institute for Global Health), Spain</p> <p>17:00-17:15 [O31.03] Car-free, car-reduced or what? A comprehensive literature review <u>S. Aumann</u>, J. Kinigadner, B. Büttner <i>Technical University Munich, Germany</i></p> <p>17:15-17:30 [O31.04] Obesogenic environments: Is residing in a 20-minute neighbourhood associated with lower body mass index? Guannan Yang¹, Dr Lukar Thornton², Professor Mark Daniel³, Basile Chaix⁴, <u>Dr Karen Lamb</u>¹ ¹University of Melbourne, Australia. ²University of Antwerp, Belgium. ³University of Canberra, Australia. ⁴Sorbonne Université, France</p>	<p><u>Prof. Juan Luis Rivas-Navarro</u>¹, Prof. Belén Bravo-Rodríguez¹, Prof. Anna Zahonero-Xifré², Leila Isidora Santos-Vuerli³ ¹Urban and regional planning department / Universidad de Granada, Spain. ²Urban and regional planning department / Universitat Politècnica de Catalunya, Spain. ³Master en Architecture / École nationale Supérieure d'Architecture de Bretagne, France</p> <p>16:45-17:00 [O32.02] Biodiversity monitoring and participatory science as tools for urban development and environmental planning: Quibdó as a case study <u>Maria Castillo</u>¹, Yujie Wang^{2,3}, Rose Winer¹, Marcela Angel⁴, Alessandra Fabbri⁴ ¹Massachusetts Institute of Technology, Department of Urban Studies and Planning, USA. ²Harvard University, John A. Paulson School of Engineering and Applied Sciences, USA. ³Massachusetts Institute of Technology, School of Architecture and Planning, USA. ⁴Massachusetts Institute of Technology, Environmental Solutions Initiative, USA</p> <p>17:00-17:15 [O32.03] The potential of using citizens' own biodiversity associations for public biodiversity communication <u>Dr. Christina Bantle</u>, Emilia Sinkeviciute <i>Eberswalde University for Sustainable Development, Germany</i></p> <p>17:15-17:30 [O32.04] Biodiversity-based planning for urban, peri-urban, and non-urban areas in ecologically sensitive regions <u>Ms Marcela Angel</u>, Ms Alessandra Fabbri, Doctor Norhan Bayomi, Professor John Fernández <i>Massachusetts Institute of Technology, USA</i></p>
19:00-22:00	<p>Conference Dinner (Optional ticketed event) Can Laury Restaurant</p>			

<p>08:00-09:00</p>	<p>08:00-08:30 - S² Cities - Youth participation in designing safer urban environments Auditorium Oral</p> <p>Giulio Baroni, Global Infrastructure Basel Foundation, Switzerland S2 Cities</p> <p>Andrea Betancourt, Global Infrastructure Basel Foundation, Switzerland Catalysing youth-driven action for safer cities</p>	<p>Early Morning Session 7: Building a curriculum for sustainable urban environments: what should we teach? Tramuntana 3</p> <p>Ahmadreza Faghieh Imani, <i>Imperial College London, UK</i></p>	<p>Early Morning Session 8: 14 pathways of transport and health Garbi 2</p> <p>Haneen Khreis, <i>MRC Epidemiology Unit, University of Cambridge, UK</i></p>	<p>Early Morning Session 9: Cycling activism and citizen collaboration in barcelona: The BiciBus and BiciZen initiatives Garbi 1</p> <p>Jordi Honey Roses, <i>Universitat Autònoma de Barcelona, Spain</i></p>
<p>09:00-09:30</p>	<p>[KN05] Billie Giles-Corti, RMIT University, Australia Transitioning to healthy, liveable and sustainable cities: A global priority Auditorium Susan Handy</p>			
<p>09:30-10:00</p>	<p>[KN06] Harry Rutter, University of Bath, UK Systems approaches to urban health Auditorium Susan Handy</p>			
<p>10:00-11:00</p>	<p>Session 33: City branding and appraisal Auditorium Piotr Dzik, Irene Gómez-Varo</p> <p>10:00-10:15 [O33.01] The city as a brand: Theory versus practice <u>MA Piotr Dzik</u>¹, PhD Anna Adamus-Matuszyńska² ¹<i>Academy of Fine Arts and Design in Katowice, Poland.</i> ²<i>University of Economics in Katowice, Poland</i></p> <p>10:15-10:30 [O33.02] Appraisal of smart cities' governance performance by comparative analysis <u>Dr K. K. Maurya</u> <i>National Institute of Technology Patna, India</i></p> <p>10:30-10:45 [O33.03] Biourbanism Mr Adrian McGreg¹, <u>Michael Cowdy</u>² ¹<i>McGregor Coxall, Australia.</i> ²<i>McGregor Coxall, UK</i></p> <p>10:45-11:00 [O33.04] Are vital neighbourhoods socially-privileged? Exploring the relationship between urban vitality and urban vulnerability Irene Gómez-Varo¹, <u>Dr. Oriol Marquet</u>², Dr. Xavier Delclòs-Alió³, Professor Carme Miralles-Guasch¹ ¹<i>Department of Geography, Universitat Autònoma de Barcelona, Spain.</i> ²<i>Institute of Environmental Science and Technology, Spain.</i> ³<i>Department of Geography, Universitat Rovira i Virgili, Spain</i></p>	<p>Session 34: City and mobility changes Tramuntana 3 Anna Ibraeva, Julia Jarass</p> <p>10:00-10:15 [O34.01] Transforming streets to squares - experiences from real-world experiments in Berlin <u>Dr Julia Jarass</u> <i>German Aerospace Center, Institute of Transport Research, Germany</i></p> <p>10:15-10:30 [O34.02] Reimagining streetscapes in a car-free city <u>Mr. Avatar Simpson</u> <i>Agendi Inc, USA. Connecticut College, USA</i></p> <p>10:30-10:45 [O34.03] Formal vs informal institutions in the TOD planning process in lower density areas in Sweden <u>Associate Professor Robert Hrelja</u>¹, Professor Tom Rye^{2,3} ¹<i>Malmö University, Sweden.</i> ²<i>Molde University College, Norway.</i> ³<i>Urban Planning Institute of the Republic of Slovenia, Slovenia</i></p> <p>10:45-11:00 [O34.04] Mobility impacts of a new metro system with transit-oriented development features <u>Anna Ibraeva</u>¹, Gonçalo Homem de Almeida Correia², Cecília Silva³, António Pais Antunes¹ ¹<i>University of Coimbra, Portugal.</i> ²<i>TU Delft, The Netherlands.</i> ³<i>University of Porto, Portugal</i></p>	<p>Session 35: Climate and sustainability Garbi 2 Daniel Castro Medina, X. Lu</p> <p>10:00-10:15 [O35.01] Thermal conditioning of short-term stays. Radiant solution in a bus stop in Seville <u>PhD candidate Daniel Castro Medina</u>¹, Researcher M.Carmen Guerrero Delgado¹, Researcher José Sánchez Ramos¹, Researcher Alberto Cerezo Narváez², PhD candidate M.Paz Montero Gutiérrez¹, Researcher Servando Álvarez Domínguez¹ ¹<i>University of Seville, Spain.</i> ²<i>University of Cadiz, Spain</i></p> <p>10:15-10:30 [O35.02] Redefining human thermal perception for the Mediterranean climates <u>PhD candidate Teresa Palomo Amores</u>, Researcher M.Carmen Guerrero Delgado, Researcher José Sánchez Ramos, PhD Daniel Castro Medina, PhD M.Paz Montero Gutiérrez, Researcher Servando Álvarez Domínguez <i>University of Seville, Spain</i></p> <p>10:30-10:45 [O35.03] Science and fiction: Evolution and future trends in sustainable urban transformation in Southeast Asia and China Dr K. Borgmann, <u>Á. Barabás</u>, M. Ahmed, Prof. Dr.-Ing. J. Noennig <i>HafenCity University Hamburg, Digital City Science, Germany</i></p>	<p>Session 36: Green space and participation Garbi 1 Beata J. Gawryszewska, D. Zendeli</p> <p>10:00-10:15 [O36.01] Participatory management of greenery in small and medium-sized towns in Poland - an expendable luxury? <u>dr Beata J. Gawryszewska</u>¹, dr Anna Długozima¹, dr Ryszard Nejman² ¹<i>Warsaw University of Life Sciences, Poland.</i> ²<i>Chamber of Commerce and Industry, Poland</i></p> <p>10:15-10:30 [O36.02] ParkSeek: Understanding accessibility, quality, and equity dimensions of parks and recreation facilities across Canada <u>Dr Jason Gilliland</u>^{1,2,3}, Alexander Wray¹, Catherine Reining¹, Dr Sean Doherty⁴, Dr Jinhung Lee¹, Dr Jed Long¹, Dr Chris Lemieux⁵ ¹<i>Western University, Canada.</i> ²<i>Children's Health Research Institute, Canada.</i> ³<i>Lawson Health Research Institute, Canada.</i> ⁴<i>Wilfrid Laurier University, Canada.</i> ⁵<i>Wifrid Laurier University, Canada</i></p> <p>10:30-10:45 [O36.03] Construction of a green infrastructure in Salamanca, World Heritage City, through multi-stakeholder involvement MSc. B. Fernández¹, MSc. B. Diosdado², MSc. J. Laso², MSc. M. Kernstock³, <u>Dr. I. Ametzaga</u>¹ ¹<i>UNESCO Chair on Sustainable Development and Environmental Education, Department of Plant Biology</i></p>

			<p>10:45-11:00 [O35.04] Towards symbiotic urbanism: Mitigating the impact of river channelization in the New Territories of Hong Kong Dr. G. Talamini, <u>X. Lu</u> City University of Hong Kong, Hong Kong</p>	<p>and Ecology, University of the Basque Country (UPV/EHU), Spain. ²Municipal Board of Housing and Urbanism. Salamanca City Hall, Spain. ³AD HOC Desarrollo sostenible, S.L., Spain 10:45-11:00 [O36.04] About pedestrian accessibility, urban heat stress patterns distribution and thermal comfort. An experimental study for the city of Milan PhD Candidate D. Zendeli, Assistant Professor N. Colaninno, Associate Professor E. Morello Politecnico di Milano, Italy</p>
<p>11:00-11:30</p>	<p>Refreshment Break Tramuntana 1 & 2</p>			
<p>11:30-12:45</p>	<p>Session 37: Low carbon cities Auditorium Arantza López, Hojae Ryu</p> <p>11:30-11:45 [O37.01] Local orchestration towards carbon neutrality: A snapshot of 8 ambitious European municipalities <u>Arantza López</u>, Koldo Urrutia, Carolina García <i>Tecnalia, Spain</i></p> <p>11:45-12:00 [O37.02] Driving transitions to the net-zero “new-normal” city Professor European Smart Cities D. Ludlow <i>University of the West of England, Bristol, UK</i></p> <p>12:00-12:15 [O37.03] Too much consumption or too high emissions intensities? Explaining the high consumption-based carbon footprints in the Nordic countries <u>Professor Jukka Heinonen</u> <i>University of Iceland, Iceland</i></p> <p>12:15-12:30 [O37.04] Exploring energy consumption practices for urban energy transition in Korea: Focusing on the case of newly married couples Mr. Hojae Ryu, Professor SunJin Yun Seoul National University, Republic of Korea</p> <p>12:30-12:45 [O37.05/P1.046] Policy portfolios to mitigate urban transport GHG emissions in 120 affluent cities worldwide C. Liotta^{1,2}, V. Vigiúé¹, F. Creutzig^{2,3} 1CIREC (Ecole des Ponts ParisTech), France. 2Technische Universität Berlin, Germany. 3Mercator Research Institute on Global Commons and Climate Change, Germany</p>	<p>Session 38: (New) Concepts Tramuntana 3 Jamson Masih, Andre Mueller</p> <p>11:30-11:45 [O38.01] Developing a new control approach for energy systems in built environment areas PhD candidate Rafael Monge Palma, Researcher M.Carmen Guerrero Delgado, Researcher José Sánchez Ramos, PhD candidate Daniel Castro Medina, PhD candidate Teresa Palomo Amores, Researcher Servando Álvarez Domínguez, <u>Maria De La Paz Montero Gutierrez</u> <i>University of Seville, Spain</i></p> <p>11:45-12:00 [O38.02] Withdrawn</p> <p>12:00-12:15 [O38.03] EU Structural Funds as an integrating and targeting funding scheme for urban transitions <u>Dr. André Mueller</u> <i>BBSR (Federal Institute for Research on Building, Urban Affairs and Spatial Development), Germany</i></p> <p>12:15-12:30 [O38.04] Free choice or a matter of constrains? Zero-, one-, and multiple-car households in various urban fabrics in the Helsinki Metropolitan Area <u>Linda Karjalainen</u>^{1,2}, Maija Tiitu¹, Jenni Lehtimäki¹, Jari Lyytimäki¹, Ville Helminen¹, Professor Petri Tapio³, Anu Tuominen⁴, Professor Tommi Vasankari⁵, Adjunct Professor Riikka Paloniemi^{1,2} ¹<i>Finnish Environment Institute, Finland.</i> ²<i>University of Helsinki, Finland.</i> ³<i>University of Turku (Finland Futures Research Centre), Finland.</i> ⁴<i>VTT Technical Research Centre of Finland Ltd, Finland.</i> ⁵<i>UKK Institute, Finland</i></p>	<p>Session 39: Challenges for city planning Garbi 2 Clemence Cavoli, Maria Heldak</p> <p>11:30-11:45 [O39.01] Challenges to transition to sustainable urban mobility in Sub-Saharan African cities: The case of Maputo and Freetown <u>Dr Clemence Cavoli</u>¹, Dr Daniel Oviedo¹, Ms Alex Chong¹, Ms Yasmina Yusuf¹, Mr Constancio Machanguana², Mr Joaquin Romero³, Dr Joseph Macarthy⁴, Prof Peter Jones¹ ¹<i>UCL, UK.</i> ²<i>Universidade Eduardo Mondlane, Mozambique.</i> ³<i>Goteo, Mozambique.</i> ⁴<i>SLURC, Sierra Leone</i></p> <p>11:45-12:00 [O39.02] Planning paths towards resilience in metropolitan fringes: Insights from Barcelona Metropolitan Area <u>M.S. Andresa Marques</u>^{1,2}, Professor Dr. Angélica Alvim¹, Professor Jörg Schröder² ¹<i>Universidade Presbiteriana Mackenzie, Brazil.</i> ²<i>Leibniz Universität Hannover, Germany</i></p> <p>12:00-12:15 [O39.03] Sustainable future cities: Smart, green and healthy <u>Miss Anna O'Regan</u>^{1,2,3}, Dr Marguerite Nyhan^{1,2,3,4} ¹<i>University College Cork, Ireland.</i> ²<i>MaREI, the SFI Research Centre for Energy, Climate & Marine, University College Cork, Ireland.</i> ³<i>Environmental Research Institute, University College Cork, Ireland.</i> ⁴<i>Harvard T.H. Chan School of Public Health, Harvard University, USA</i></p> <p>12:15-12:30 [O39.04] Putting the pieces together: A comprehensive approach to uncover the sidewalk perceived service or performance <u>Ph.D. J.A. Vallejo-Borda</u>^{1,2,3}, C.Eng. / Arch. G.A. Barrero⁴, M.Arch. H.A. Ortiz-Ramirez⁴, Ph.D. A. Rodriguez-Valencia⁴</p>	<p>Session 40: Nature based solutions Garbi 1 Agamemnon Otero, Katarzyna Wieszczyńska</p> <p>11:30-11:45 [O40.01] Station greening and well-being; the social and physical benefits of Energy Gardens to participants and passers-by <u>Mr Agamemnon Otero</u>¹, Dr CM (Tilly) Collins², Miss Billie-Louise Schlich², Dr Ans Vercammen² ¹<i>Energy Garden UK, UK.</i> ²<i>Imperial College London, UK</i></p> <p>11:45-12:00 [O40.02] Large wellbeing co-benefits of co-designed sustainable solutions: A natural experimental study in a UK deprived area <u>Dr Jamie Anderson</u>¹, Dr Jack Benton², Professor David French¹, Ms Vanessa Mackintyre³, Dr Matthew Dennis¹, Professor James Rothwell¹ ¹<i>University of Manchester, UK.</i> ²<i>University of Machester, UK.</i> ³<i>University of Manchester, UK</i></p> <p>12:00-12:15 [O40.03] Co-developing nature-based solutions (NbS) for maximizing ecosystem services of urban forests <u>J. Son</u>¹, S. Saha^{1,2} ¹<i>Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe Institute of Technology (KIT), Germany.</i> ²<i>Institute of Forest Sciences, Faculty of Environment and Natural Resources, Albert-Ludwigs-Universität Freiburg, Germany</i></p> <p>12:15-12:30 [O40.04] Urban pocket park construction practice and renewal design research <u>Mrs. Liyun Liu</u>, Mr. Qingyi Cao, Mr. Dongtian Chen Shandong Agriculture University, China</p> <p>12:30-12:45 [O40.05] Urban green infrastructure and climate change adaption policies in Austria</p>

12:30-12:45 [O38.05]
Pro-environmental habits
mr Noah Linder¹, Dr Matteo Giusti¹, mr Karl Samuelsson¹, Dr Stephan Barthel^{1,2}
¹*Department of Building Engineering, Energy Systems and Sustainability Science, University of Gävle, Sweden.*
²*Stockholm Resilience Centre, Stockholm University, Sweden*

¹*Departamento de Ingeniería Civil, Universidad de Cartagena, Colombia.* ²*Departamento de Ingeniería Civil, Universidad de Investigación y Desarrollo, Colombia.* ³*BRT+ Centre of Excellence, Pontificia Universidad Católica de Chile, Chile.* ⁴*Universidad de los Andes, Colombia*

12:30-12:45 [O39.05]
Housing Problems of Senior Citizens in Poland
Prof Maria Heldak, Dr Katarzyna Przybyta, Prof Alina Kulczyk-Dynowska, Dr Agnieszka Stacherzak, Dr Jakub Szczepański, Dr Olgierd Kempa, mgr Monika Płuciennik, mgr Joanna Lipsa
Wrocław University of Environmental and Life Sciences, Poland

Mrs Roswitha Weichselbaumer, Dr. Florian Reinwald
University of Natural Resources and Life Sciences, Vienna, Austria

12:45-13:05

Poster Teaser Session 3A

Auditorium
Arantza López, Hojae Ryu

12:45-12:47 [PT3A.01]
Ecological connectivity in small cities in Poland – an overview
Dr hab. A. Cieszewska, Dr J. Adamczyk, Dr hab. R. Giedych
Warsaw University of Life Sciences, Department of Landscape Architecture, Poland

12:47-12:49 [PT3A.02]
An analysis of energy and resource usage in dormitory: A case study of Seoul National University's Gwanak residence hall
Student J.H. Park, Professor S.J. Yun
Seoul National University Graduate School of Environmental Studies, Republic of Korea

12:49-12:51 [PT3A.03]
Anambra smart city move: The transition and transformational role of standard transport infrastructural development
Dr Romanus Ayadiuno¹, Mr Dominic Ndulue^{1,2}, Dr Alphonsus Ali¹
¹*University of Nigeria, Nsukka, Nigeria.* ²*University of Ibadan, Oyo State, Nigeria*

12:51-12:53 [PT3A.04]
The right to a healthy city - from residents' needs to better planning
dr Anna Domaradzka¹, Mr Mikolaj Biesaga¹, Dr Ewa Domaradzka², Ms Magdalena Kolodziejczyk¹
¹*University of Warsaw, Institute for Social Studies, Poland.* ²*Polish Academy of Sciences, Institute of Psychology, Poland*

12:53-12:55 [PT3A.05]

Poster Teaser Session 3B

Tramuntana 3
Jamson Masih, Andre Mueller

12:45-12:47 [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
Mr. Y. Huan, Dr. S. Nijhuis, Dr. N. Tillie
Delft University of Technology, The Netherlands

12:47-12:49 [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

12:49-12:51 [PT3B.03]
Healthy urban planning: A search for meeting points of values and policy agendas
Assoc. Prof. Dr. Milena Tasheva-Petrova, Assoc. Prof. Dr. Elena Dimitrova, Chief Ass. Prof. Dr. Angel Burov, Chief Ass. Prof. Dr. Irina Mutafchiiska, Ass. Prof., PhD candidate Mila Yolova
University of Architecture, Civil Engineering and Geodesy, Bulgaria

12:51-12:53 [PT3B.04]
Development scenarios of fringe areas in developing countries– a case of Gorakhpur, India
Dr K. K. Maurya
National Institute of Technology Patna, India

12:53-12:55 [PT3B.05]
Is it time to rethink public space allocation? A systematic literature review
Mr. F. Nogueira¹, Mr. G. Valença^{2,1}, Dr. G. Santos³, Dr. A. Morais de Sá¹, Dr. A. P. Antunes³, Dr. F. Moura²

Poster Teaser Session 3C

Garbi 2
Clemence Cavoli, Maria Heldak

12:45-12:47 [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, Dr. Feliciano Licciardello¹, Aaron Cutajar², Giuseppe Filetti³, Emanuela Rita Giuffrida¹, Salvatore Barresi³, 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*

12:47-12:49 [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
Dr Stephen Malden^{1,2}, Mr Craig McDougall^{1,2}, Mr Philipp Hummer³, Dr Andy Cope⁴, Professor 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*

12:49-12:51 [PT3C.03]
City/science intersections : A scoping review of “science for policy” in urban contexts
Prof Marie-Christine Therrien¹, Noémie Pascal¹, Joris Arnaud¹, Zoé Poirier Stephens², Prof. Yan Kestens²
¹*École nationale d'administration publique, Canada.* ²*École de santé publique de l'Université de Montréal, Canada*

12:51-12:53 [PT3C.04]

Poster Teaser Session 3D

Garbi 1
Agamennon Otero, Katarzyna Wieszczyńska

12:45-12:47 [PT3D.01]
Toward sustainable stormwater management: Simulation and evaluation of sponge city facilities in urban green space renovation
Mrs. Liyun Liu¹, Mr. Xiaolei Tan¹, Mr. Dongtian Chen¹, Mrs. Wei Liu²
¹*Shandong Agricultural University, China.* ²*Qufu Normal University, China*

12:47-12:49 [PT3D.02]
Linkages between the concept of nature-based solutions (NBS) and the notion of landscape professor Barbara Sowińska-Świerkosz¹, professor 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*

12:49-12:51 [PT3D.03]
University campuses are important urban areas for avian diversity
Miss Lucía Izquierdo¹, Miss Rocío Ríos¹, Dr. Olivia Sanllorente¹, Dr. José Luis Molina-Pardo², Dr. Juan Diego Ibáñez-Álamo¹
¹*University of Granada, Spain.* ²*University of Almería, Spain*

12:51-12:53 [PT3D.04]
How does green infrastructure influence air pollution?
Karina Corada^{1,2}, Dr Audrey de Nazelle¹, Dr C Matilda (Tilly) Collins¹, Dr Huw Woodward¹

	<p>Active Urbanism: Metabolic rate, bone density, balance, stretching, mindfulness and other benefits of challenging city landscape versus conventional pavements <u>Mx Anna Boldina</u> <i>University of Cambridge, UK</i></p>	<p>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</p>	<p>From pop-up to permanent: Promoting healthy, bike-friendly and sustainable urban mobility in post-covid. A case study on Berlin Katharina Csillak, <u>Simon Kaser</u> <i>Institute for Climate Protection, Energy and Mobility e.V., Germany</i></p> <p>[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 <u>Mrs Maria Elisa Fernandez Ramos</u> <i>Cities Research Institute, Australia</i></p>	<p>¹Imperial College London, UK. ²University of East London, UK</p> <p>12:53-12:55 [PT3D.05] Are urban forests ready for climate change? A climate-change risk analysis for global urban forests <u>Dr Manuel Esperon</u>¹, Dr John B. Baumgartner², A Prof Linda J. Beaumont³, Dr Jonathan Lenoir⁴, Dr David A. Nipperess³, Prof Sally A. Power¹, Dr Benoît Richard⁵, Dr Paul D. Rymer¹, Prof Mark G. Tjoelker¹, A Prof Rachael V. Gallagher¹ ¹Hawkesbury Institute for the Environment, Western Sydney University, Australia. ²Centre of Excellence for Biosecurity Risk Analysis (CEBRA), University of Melbourne, Australia. ³Department of Biological Sciences, Macquarie University, Australia. ⁴Université de Picardie Jules Verne, France. ⁵Normandie University, France</p>
<p>13:05-14:00</p>	<p>Lunch Noray Restaurant</p>			
<p>14:00-15:00</p>	<p>Poster Session 3 Tramuntana 1 & 2</p>			
<p>15:00-16:00</p>	<p>Session 41: City indicators and sustainability Auditorium Anna Fijalkowska, Owen Waygood</p> <p>15:00-15:15 [O41.01] CHIME: Children’s independent mobility environments <u>Dr. Owen Waygood</u>¹, Ms Zahra Tavakoli¹, Mrs Elise Desjardins², Prof. Antonio Paez² ¹Polytechnique Montréal, Canada. ²McMaster University, Canada</p> <p>15:15-15:30 [O41.02] Walkable catchment area as a framework for determining urban life quality indicators <u>PhD Anna Fijalkowska</u>¹, PhD Joanna Pluto-Kossakowska¹, PhD Joanna Jaroszewicz², PhD Małgorzata Denis², MSc Sylwia Krzysztofowicz¹, MSc Oskar Graszka³ ¹Department of Photogrammetry, Remote Sensing and GIS; Faculty of Geodesy and Cartography Warsaw University of Technology, Poland. ²Department of Spatial Planning and Environmental Sciences; Faculty of Geodesy and Cartography Warsaw University of Technology Faculty of Geodesy and Cartography Warsaw University of Technology, Poland. ³Department of Photogrammetry, Remote Sensing and;</p>	<p>Session 42: Cities, sustainability and quality of life Tramuntana 3 P. Fonteyn, Aisha Sobey</p> <p>15:00-15:15 [O42.01] Conducting the smart way of life: Smart city rhetoric and quality of life <u>Ms Aisha Sobey</u> <i>University of Cambridge, UK</i></p> <p>15:15-15:30 [O42.02] Collaboration for sustainable cities: How to raise the finances needed for urban transitions <u>Dr. F. Vanhuysse</u>, T. Piseddu <i>SEI, Sweden</i></p> <p>15:30-15:45 [O42.03] Untangling complexity: A qualitative study to understand how to integrate health in decision-making for large-scale urban development <u>Dr Anna Le Gouais</u> <i>University of Bristol, UK</i></p> <p>15:45-16:00 [O42.04] In plain sight: Green views and urbanites’ neighborhood satisfaction <u>P. Fonteyn</u>, S. Daniels, R. Malina, S. Lizin</p>	<p>Session 43: Towards adaption Garbi 2 Ambika Prasad Gupta, Hiroki Nakajima</p> <p>15:00-15:15 [O43.01] Identifying the cause and impact of slum encroachment along the Asan River, Dehradun <u>Mr. Ambika Prasad Gupta</u>¹, Ar. JYOTI PAL², Soumya Gupta¹, Harshit Sosan Lakra¹ ¹Indian Institute of Technology, Roorkee, India. ²School of planning and architecture, Delhi, India</p> <p>15:15-15:30 [O43.02] A systematic review of urban adaptation <u>Hiroki Nakajima</u> <i>University of Tokyo, Japan</i></p> <p>15:30-15:45 [O43.03] Recovery of open spaces through thermal control: A case study in Seville <u>PhD candidate Daniel Castro Medina</u>, Researcher M.Carmen Guerrero Delgado, Researcher José Sánchez Ramos, PhD candidate Teresa Palomo Amores, PhD candidate Rafael Monge Palma, Researcher Servando Álvarez Dominguez <i>University of Seville, Spain</i></p> <p>15:45-16:00 [O43.04]</p>	<p>Session 44: Green space indicators Garbi 1 Marco Garrido Cumbreira, R. Giedych</p> <p>15:00-15:15 [O44.01] A comprehensive environmental quality assessment of an urban park in the built environment: A case-study of Fitzwilliam Square Park, Dublin, Ireland <u>Kiran A. Apsunde</u>¹, Mengyi Jin^{2,1}, Brian Broderick¹, John Gallagher¹ ¹Trinity College Dublin (TCD), Ireland. ²Shanghai Jiao Tong University, China</p> <p>15:15-15:30 [O44.02] Analysis of the relationship between self-reported and calculated accessibility to parks and green spaces K El-Murr, <u>O Waygood</u>, G Boisjoly <i>Polytechnique Montreal, Canada</i></p> <p>15:30-15:45 [O44.03] Gender perspective in the perception of green spaces PhD Olta Braçe, <u>Professor Marco Garrido-Cumbreira</u>, MBIostats José Correa-Fernández <i>Health & Territory Research, Universidad de Sevilla, Spain</i></p> <p>15:45-16:00 [O44.04] Using the Public Green Area Index (PGAI) to determine the actual net supply of urban green</p>

<p><i>GIS Faculty of Geodesy and Cartography Warsaw University of Technology, Poland</i></p> <p>15:30-15:45 [O41.03] Using open data and open-source software to develop spatial indicators of urban design and transport features for achieving healthy and sustainable cities in diverse global contexts <u>C. Higgs</u>¹, G. Boeing², S. Liu³, J. Arundel⁴, J. Sallis⁴, E. Cerin^{5,6}, M. Lowe⁷, D. Adlakha⁸, E. Hinckson⁹, A.V. Moudon¹⁰, D. Salvo¹¹, B Giles-Corti¹ ¹<i>Centre for Urban Research, RMIT University, Australia.</i> ²<i>Department of Urban Planning and Spatial Analysis, University of Southern California, USA.</i> ³<i>School of Public Policy and Urban Affairs, Northeastern University, USA.</i> ⁴<i>Herbert Wertheim School of Public Health, University of California San Diego, USA.</i> ⁵<i>Mary Mackillop Institute for Health Research, Australian Catholic University, Australia.</i> ⁶<i>School of Public Health, The University of Hong Kong, Hong Kong.</i> ⁷<i>Melbourne Sustainable Society Institute, University of Melbourne, Australia.</i> ⁸<i>Department of Landscape Architecture and Environmental Planning, Natural Learning Initiative, College of Design, North Carolina State University, USA.</i> ⁹<i>Faculty of Health and Environmental Sciences, School of Sport & Recreation, Auckland University of Technology, New Zealand.</i> ¹⁰<i>Department of Urban Design and Planning, Urban Form Lab, University of Washington, USA.</i> ¹¹<i>Prevention Research Center, Brown School, Washington University in St Louis, USA</i></p> <p>15:45-16:00 [O41.04] Little philadelphia in Catalonia - comparing suburban residential areas in the barcelona metropolitan region <u>Dipl.-Ing. Viktoria Eva Lelek</u>¹, Assoc.Prof. DI Dr. Habil. Angelika Psenner² ¹<i>TU Wien, Spain.</i> ²<i>Vienna University of Technology, Austria</i></p>	<p><i>Centre for Environmental Sciences (CMK), UHasselt, Martelarenlaan 42, 3500 Hasselt, Belgium</i></p>	<p>La distribución del VIH: Spatializing HIV in España (Emplacing HIV: Spatializing HIV in Spain) <u>Dr. Tyler Arguello</u> <i>California Stater University, Sacramento, USA</i></p>	<p>spaces in small and medium size urban municipalities in Poland <u>dr hab. R. Giedych</u>, dr hab. A. Cieszewska, dr J. Adamczyk <i>Warsaw University of Life Sciences, Department of Landscape Architecture, Poland</i></p>
<p>16:00-16:30 Refreshment Break Tramuntana 1 & 2</p>			
<p>16:30-17:30 Session 45: Addressing complexity and the future Auditorium Anna Domaradzka, Federica Fiacco</p> <p>16:30-16:45 [O45.01] Local livability models as impact assessment tools for nature-based interventions <u>Dr Anna Domaradzka</u> <i>University of Warsaw, Institute for Social Studies, Poland</i></p> <p>16:45-17:00 [O45.02]</p>	<p>Session 46: City and sustainability concepts Tramuntana 3 Sadhana Manthapuri, Cristian Toşa</p> <p>16:30-16:45 [O46.01] "Does the economic DNA of the city exist?" <u>Ms Sadhana Manthapuri</u>, Dr Ralph Hall <i>Virginia Tech, USA</i></p> <p>16:45-17:00 [O46.02] Mapping urban sustainability networks over time using automated content analysis of media data <u>Dr. Mario Angst</u></p>	<p>Session 47: Informal settlements Garbi 2 Yuxiao He, Jasper van Vliet</p> <p>16:30-16:45 [O47.01] The different dimensions of urbanization in East Africa Msc Vita Bakker¹, Dr. Ronald Twongyirwe², prof. dr. Peter Verburg¹, prof. dr. Alphonse Kyessi³, <u>Dr. Jasper van Vliet</u>¹ ¹<i>Institute for Environmental Studies - Vrije Universiteit Amsterdam, The Netherlands.</i> ²<i>Mbarara University of Science and Technology, Uganda.</i> ³<i>Institute for Human</i></p>	<p>Session 48: Green space and other Garbi 1 Luke Knibbs, Liu Zhaowen</p> <p>16:30-16:45 [O48.01] Residential greenspace and academic performance in a longitudinal analysis of Australian children Salma Ahmed¹, <u>Luke Knibbs</u>², Katrina Moss¹, Tafzila Mouly¹, Ian Yang³, Gita Mishra¹ ¹<i>School of Public Health, The University of Queensland, Australia.</i> ²<i>School of Public Health, The University of Sydney, Australia.</i> ³<i>Faculty of Medicine, The University of Queensland, Australia</i></p>

	<p>Collective and corporate coworking spaces during the Pandemic: Winners and losers in post-crisis urban space. Evidence from Warsaw <u>prof. Maciej Smetkowski</u>, PhD Katarzyna Wojnar <i>University of Warsaw, Centre for European Regional and Local Studies (EUROREG), Poland</i></p> <p>17:00-17:15 [O45.03] Energy implications of the Chinese-driven morphological transformation of Lusaka, Zambia <u>Ms. F. Fiacco</u>¹, Mr. J. Samunete², Mr. K. Jere³, Dr. G. Talamini¹ ¹City University of Hong Kong, Hong Kong. ²The Copperbelt University, Zambia. ³Università degli Studi di Napoli L'Orientale, Italy</p> <p>17:15-17:30 [O45.04/PT1A.04] A holistic index-based framework to assess urban resilience: Application to the region of Madrid, Spain <u>Marta Suárez</u>^{1,2}, Javier Benayas¹, Ana Justel³, Raffaele Sisto⁴, Carlos Montes¹, Elías Sanz-Casado⁵ ¹Department of Ecology, Universidad Autónoma de Madrid, Spain. ²UNESCO Chair in Sustainable Development and Environmental Education, University of the Basque Country UPV/EHU, Spain. ³Department of Mathematics, Universidad Autónoma de Madrid, Spain. ⁴Smart&City Solutions, Spain. ⁵Research Institute for Higher Education and Science (INAECU), University Carlos III of Madrid, Spain</p>	<p><i>University of Zurich, Digital Society Initiative, Switzerland</i></p> <p>17:00-17:15 [O46.03] Which cities are inertial or resilient to shrinkage? Intra-metropolitan spatial inequalities in South Korea <u>Dr Youngmee Jeon</u>, Prof. Saehoon Kim <i>Seoul National University, Republic of Korea</i></p> <p>17:15-17:30 [O46.04] Sustainable transitions: Mapping and introducing green products to encourage pro-environmental behaviour among citizens <u>Cristian Tosa</u>, Ayda Joudavi, Chandra P. Paneru, Assoc. Prof. Ari K.M. Tarigan <i>University of Stavanger, Norway</i></p>	<p><i>Settlement Studies - Adri University, Tanzania, United Republic of</i></p> <p>16:45-17:00 [O47.02] A proposed amelioration strategy for informal settlements, based on the bottom-up approach grounded in the Eco Village viewpoint. A case of Misisi area, Lusaka, Zambia <u>MR Kezala Jere</u> <i>L'Orientale Università degli studi di Napoli, Italy</i></p> <p>17:00-17:15 [O47.03] The planned invisibility of urban villages for city branding in Shenzhen, China <u>Ms Yuxiao He</u>, <u>Dr Gianni Talamini</u> <i>City University of Hong Kong, Hong Kong</i></p> <p>17:15-17:30 [O47.04/P1.001] From informal to formal: The sustainable transformation of small towns <u>Prof. M. Amado</u>, <u>Dr. F. Poggi</u> <i>CERIS – Civil Engineering Research and Innovation for Sustainability, Portugal</i></p>	<p>16:45-17:00 [O48.02] Citizens' engagement in urban biodiversity conservation <u>Dr. Christina Bantle</u>, Jana Twarok, Prof. Dr. Heike Molitor <i>University for Sustainable Development Eberswalde, Germany</i></p> <p>17:00-17:15 [O48.03] Visiting green spaces and physical activity engagement during pregnancy. Evidence from the UGARE project <u>Dr. Guillem Vich</u>¹, <u>Dr. Xavier Delclòs-Alió</u>², Dr. Mikel Subiza-Pérez³, Dr. Asier Anabitarte³, Ms. Carolina Rueda⁴, Dr. Antoni Colom⁵, Prof. Carme Miralles-Guasch⁶, Dr. Aitana Lertxundi⁷, Dr. Jesús Ibarluzea^{3,8} ¹ISGlobal, Spain. ²Universitat Rovira i Virgili, Spain. ³IIS Biodonostia, Spain. ⁴Parc de Salut del Mar, Spain. ⁵Fundació Institut d'Investigació Sanitària Illes Balears, Spain. ⁶Universitat Autònoma de Barcelona, Spain. ⁷Universidad del País Vasco/Euskal Herriko Unibertsitatea, Spain. ⁸Health Department of Basque Country, Spain</p> <p>17:15-17:30 [O48.04] Towards inclusive and circular urban waste management: Mapping the transformation of the waste infrastructure system in Almere, the Netherlands <u>Zhaowen Liu</u>¹, Assistant Professor Daan Schraven¹, Professor Martin de Jong², Professor Marcel Hertogh¹ ¹Delft University of Technology, The Netherlands. ²Erasmus University Rotterdam, The Netherlands</p>
17:30-17:45	<p>Closing Remarks - Mark Nieuwenhuijsen, Barcelona Institute for Global Health, Spain Auditorium</p>			