

REAL CORP 2023

CONFERENCE SCHEDULE

28th International Conference on Urban Planning and Regional Development in the Information Society
GeoMultimedia 2023



NATURE-BASED SOLUTIONS FOR SUSTAINABLE RESILIENT SMART GREEN AND BLUE CITIES

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Fakulteta za arhitekturo





18-20 SEPTEMBER 2023
UNIVERSITY OF LJUBLJANA, FACULTY OF ARCHITECTURE
ZOISOVA CESTA 12, LJUBLJANA, SLOVENIA

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SCHEDULE

Monday, 18 September 2023






Time	Auditorium 1
10:00-10:45	<p>Conference Opening</p>
<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>	<p>Welcome to REAL CORP 2023</p> <p>Matej BLENKUŠ University of Ljubljana, Dean of Faculty of Architecture; Ljubljana, Slovenia</p> <p>Alenka FIKFAK University of Ljubljana, Faculty of Architecture; Ljubljana, Slovenia</p> <p>Igor BIZJAK Director of the Urban Planning Institute of the Republic of Slovenia; Ljubljana, Slovenia</p> <p>Barbara GOLIČNIK MARUŠIČ Urban Planning Institute of the Republic of Slovenia; Ljubljana</p> <p><i>Representative of public authority (t. b. a.)</i> Ljubljana, Slovenia</p> <p>Manfred SCHRENK Conference Director</p>
10:45-12:15	<p>Opening Keynotes</p>
	<div style="display: flex; align-items: flex-start; margin-bottom: 10px;">  <div> <p>Dynamic Processes – a Key Principle of Nature-Based Solutions and the Main Challenge of Urban Planning</p> <p>Barbara GOLIČNIK MARUŠIČ Urban Planning Institute of the Republic of Slovenia; Ljubljana</p> </div> </div> <div style="display: flex; align-items: flex-start; margin-bottom: 10px;">  <div> <p>Creative Games in Teaching Sustainability: Learning By Doing</p> <p>Alenka FIKFAK University of Ljubljana, Faculty of Architecture; Ljubljana, Slovenia</p> </div> </div> <div style="display: flex; align-items: flex-start;">  <div> <p>Cities – Inclusiveness and Community Planning</p> <p>Rajendra KUMAR Lovely Professional University; Phagwara, Punjab, India</p> </div> </div>
12:15-13:30	<p>Lunch Break</p>



18-20 September 2023






SCHEDULE

Monday, 18 September 2023

Auditorium 1		Time
Keynotes Chair: Manfred SCHRENK		13:30-15:30
	<p>Urban Nature – Beyond Green Markus APPENZELLER Founder and Managing Director MLA+, Head of Urbanism Amsterdam Academy of Architecture; Rotterdam, NL</p>	<div style="writing-mode: vertical-rl; transform: rotate(180deg);">MONDAY</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TUESDAY</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">WEDNESDAY</div>
	<p>Designing, Building and Living Within Planetary Boundaries Lučka KAJFEŽ BOGATAJ University of Ljubljana, Biotechnical Faculty; Ljubljana, Slovenia</p>	
	<p>Times of Change: The Need for Sustainable Spatial Transformation and the Role of Data, GIS, and Visualisation Martin BERCHTOLD Professor for Digitisation, Visualisation and Monitoring in Spatial Planning at University of Kaiserslautern-Landau; Kaiserslautern, DE</p>	
	<p>Nature-Based Solutions: The Long View Judith RYSER Architect and Urban Thinker; London, UK</p>	
 <p>Who is speaking right now? Find it out on https://live.corp.at</p> 		
Coffee Break and 400 m Walk to Urban Planning Institute of the Republic of Slovenia (UIRS)		15:30-16:15

SCHEDULE

Monday, 18 September 2023

Time	UIRS
16:15-18:00	Keynote Speeches AT UIRS Chair: Manfred SCHRENK
MONDAY TUESDAY WEDNESDAY	 <p>Welcome to the Urban Planning Institute of the Republic of Slovenia Barbara GOLIČNIK MARUŠIČ Urban Planning Institute of the Republic of Slovenia, Head of Research; Ljubljana, Slovenia</p>
	 <p>The Importance of Spatial Data for Sustainable Spatial Management Blaž BARBORIČ Geodetic Institute of Slovenia; Ljubljana, Slovenia</p>
	 <p>Wind Turbine Blade Waste Recycling into Urban Regeneration Elements (Urban Design at Public Places) Eva VANIŠTA LAZAREVIĆ Professor at University of Belgrade, Faculty of Architecture; Belgrade, Serbia</p>
	 <p>Creating Data-Driven Tourism Planning: Tourism 4.0, Data Spaces and other Innovative Initiatives Urška STARC PECENY ARCTUR, Chief Innovation Officer and Lead of Tourism 4.0 Department; Nova Gorica, Slovenia</p>
	 <p>Smart City Projects Mannheim Hans Rüdiger KAUFMANN University of Applied Management Studies; Mannheim, DE</p>
from 18:00	Guided City Tour, afterwards Snacks, Drinks and Networking



18-20 September 2023

SCHEDULE

SCHEDULE

Tuesday, 19 September 2023

Time	Auditorium 1	Auditorium 2
09:30-11:00	Urban Design and Planning Driven by Nature-Based Solutions Chair: Barbara GOLIČNIK MARUŠIĆ	Urban Heat Islands and Urban Microclimate Chair: Martin BERCHTOLD
MONDAY TUESDAY WEDNESDAY	<p>🏆 Integrative Design Solutions for Connecting Street Trees to the Urban Water Cycle Karl GRIMM*, Dagmar GRIMM-PRETNER** * Karl Grimm Landschaftsarchitekten; Vienna, AT ** University of Natural Resources and Life Sciences, Institute of Landscape Architecture; Vienna, AT</p> <p>🏆 Airflow in Urban Environment: an Approach to Improve Egyptian Buildings Regulations Rana ELBADRI, Hassan ABDEL-SALAM, Mohamed FIKRY Alexandria University, Architectural Department; Alexandria, Egypt</p> <p>Modelling the Efficiency of Nature-Based Solutions to Decrease Extreme Summer-time Heat in Dense Urban Environment on Example of Vienna, Austria Maja ZUVELA-ALOISE*, Claudia HAHN*, Marianne BÜGELMAYER-BLASCHEK**, Martin SCHNEIDER** * GeoSphere Austria, Urban Climate; Vienna, AT ** Austrian Institute of Technology; Vienna, AT</p>	<p>Evaluation of High-Resolution Simulation of the Urban Heat Island in Vienna, Austria Maja ZUVELA-ALOISE, Claudia HAHN, Brigitta HOLLOSI, Sandro OSWALD GeoSphere Austria; Vienna, AT</p> <p>Cool Down Güssing: Sustainable Cooling Concepts for Existing Buildings using the Example of the Municipality of Güssing Robert PRATTER*, Christian DOCZEKAL**, Georg PREM*** * 4ward Energy Research GmbH; Graz, AT ** Güssing Energy Technologies GmbH; Güssing, AT *** Reiterer & Scherling GmbH; Hartberg, AT</p> <p>Microclimate-Related Human Comfort as Aspect in Urban Planning: Indication of Nature-Based Solution Interventions to Increase Quality of Cycling Networks Ziva RAVNIKAR*, Barbara GOLIČNIK MARUŠIĆ**, Alfonso BAHILLO MARTINEZ*** * University of Deusto; Bilbao, Spain ** Urban Planning Institute of the Republic of Slovenia; Ljubljana, Slovenia *** Department of Signal Theory and Communications, University of Valladolid; Valladolid, Spain</p> <p>🏆 Building According to Climate Change Annalisa ROLLANDI, Felix GÜNTHER SUPSI – Institute of Earth Sciences (IST), Department for Environment Constructions and Design; Mendrisio, CH</p>
11:00-11:30	Coffee Break	



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LIVE CONFERENCE GUIDE

Presentations marked with 🏆 are reviewed papers.



Tuesday, 19 September 2023

Auditorium 3	Auditorium 4	Time
Sensitive and Sustainable Urban Planning Chair: Eva VANIŠTA LAZAREVIĆ	Co-Creation and Community Engagement Chair:	09:30-11:00
<p>🏆 Gender-Sensitive Use and Development of (Digital) Participation and Analysis Tools for Equal Access to Open Spaces Flora FESSLER*, Ernst GEBETSROITHER-GERINGER*, Florian REINWALD** * AIT Austrian Institute of Technology, Center for Energy; Vienna, AT ** Universität für Bodenkultur Wien, Department of Landscape, Spatial and Infrastructure Sciences; Vienna, AT</p> <p>🏆 Time-based Solutions for Gender Just Low Carbon, Sustainable Urban Transformation – Learning from European Time-Planning Practises Heidrun WANKIEWICZ*, Lidewij TUMMERS**, Flora FESSLER*** * planwind/Corrina, Owner/Researcher; Salzburg, AT ** Tussen Ruimte/University Twente/Corrina, CEO/Researcher; Rotterdam, NL *** AIT – Austrian Institute of Technology GmbH, Digital Resilient Cities Center for Energy; Vienna, AT</p> <p>🏆 Co-Creating Inclusive Public Spaces: Engaging Underrepresented and Marginalised Communities in the Planning Process Marina LOVRIĆ Geodetic Institute of Slovenia; Ljubljana, Slovenia</p> <p>🏆 The Influence of Social Infrastructure Accessibility on Liveability in Urban Neighbourhoods Corinna SCHITTENHELM, Martin RUMBERG, Detlef KURTH RPTU Kaiserslautern-Landau, RU/Stadtplanung; Kaiserslautern, DE</p> <p>Making Tourism Accessible: Capturing Barriers for Persons with Disabilities with Mobile Devices Blaž BARBORIČ Geodetic Institute of Slovenia; Ljubljana, Slovenia</p>	<p>🏆 The Community Gardens and Kitchens, and their Contribution to the Social Development of the Marginalised Areas in Berlin Hellen AZIZ Kassel University, Urban Development; Berlin, DE</p> <p>How can Climate Learning be Initiated? Piloting Unconventional Interventions in Neighbourhoods Viktoria KOFLER, Claudia WINKLER, Sebastian SEEBAUER, Michael BRENNER-FLIESSER Joanneum Research, LIFE - Institute for Climate, Energy Systems and Society; Graz, AT</p> <p>How to Co-Create Collective Awareness on the Benefits of Trees Veerle STROSSE*, Sara STOFFELS*, Nathalie VALLET** * VPO, Environment Flanders; Brussels, Belgium ** University of Antwerp, Department Management; Antwerp, Belgium</p> <p>🏆 Creating Resilient Public Spaces. A Global Perspective on the Conditions for Integrated Urban Development Katharina HÖFTBERGER*, Roland KREBS*, Stefan MAYR*, Sheikh Muhammad REZWAN**, Theresa KÖNIG*, Victoria DE LÁNCER SALAS***, Anselmo CANI**** * superwien urbanism; Vienna, AT ** Daffodil International University, Department of Architecture; Dhaka, Bangladesh *** Universidad Iberoamericana UNIBE, School of Architecture; Santo Domingo, Dominican Republic **** Universidade Eduardo Mondlane, Faculty of Architecture; Maputo, Mozambique</p>	11:00-11:30
Coffee Break		11:00-11:30

MONDAY

TUESDAY

WEDNESDAY

SCHEDULE

Tuesday, 19 September 2023

Time	Auditorium 1	Auditorium 2
11:30-13:00	Nature-Based Solutions: Tools and Instruments Chair: Nataša PICHLER-MILANOVIĆ	Menschengerechte Mobilität Moderation: Martin BERCHTOLD
MONDAY TUESDAY WEDNESDAY	<p>🏆 Nature Based Solutions: More than Just Greening the City? Judith RYSER*, Teresa FRANCHINI** * CityScope Europe; London, UK ** Temanova; Madrid, Spain</p> <p>Small Lexicon on Ecology (for those interested in cities) Olivier LEFEBVRE Olivier Lefebvre Consultant, Olivier Lefebvre Consultant; Paris, France</p> <p>🏆 Theoretical and Methodological Framework for the Development of Urban Climatic Planning Recommendation Maps Sophie THIEL*, Florian REINWALD*, Astrid KAINZ**, Claudia HAHN**, Daniel ZIMMERMANN***, Robert LUGER*** * University of Natural Resources and Life Sciences (BOKU); Vienna, AT ** GeoSphere Austria; Vienna, AT *** 3:0 Landschaftsarchitektur, Office for climate-sensitive planning; Vienna, AT</p> <p>🏆 Nature-Based Solutions and a Just Transition: Understanding the Jobs, Skills and Training Requirements for NBS to Contribute to the Green Economy Leslie MABON Open University; Milton Keynes, UK</p>	<p>Der Beitrag temporärer Straßenexperimente zur kollaborativen Planung lebenswerter urbaner Quartiersstraßen Steven MÄRZ, Lynn VERHEYEN, Sina DIERSCH Wuppertal Institute; Wuppertal, DE</p> <p>🏆 Decoding Stress – ein interdisziplinärer Stressforschungsansatz zur Förderung qualitativvoller öffentlicher Stadträume für den Rad- und Fußverkehr Nina HAUG, Peter ZEILE, Markus NEPPL Karlsruher Institut für Technologie (KIT), Stadtquartiersplanung; Karlsruhe, DE</p> <p>🏆 Gendersensibles Carsharing – Nutzungsbarrieren und Maßnahmen Linda DÖRRZAPF*, Sonja GRUBER**, Ornella MAROVIC***, Vanessa SODL-NIEDERECKER* * TU Wien, MOVE; Wien, AT ** Büro Sonja Gruber; Wilfleinsdorf, AT *** Mo.Point Mobilitätsservices GmbH; Wien, AT</p>
13:00-14:00	Lunch Break	



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18-20 September 2023

SCHEDULE

Tuesday, 19 September 2023

Auditorium 3	Auditorium 4	Time
Urban Policy Chair: Eva VANIŠTA LAZAREVIĆ	Data and Information Infrastructure Chair: Trynos GUMBO	11:30-13:00
<p>🏆 Local Climate Adaptation Governance: Challenges to Transformation Carolin SCHROEDER TU Berlin, Zentrum Technik und Gesellschaft; Berlin, DE</p> <p>🏆 The Role of Secure Land Tenure Policy and Practise on Economic and Social Development: Lessons from Edendale and Ambleton, City of Pietermaritzburg Nombuso MKHWANAZI, Trynos GUMBO, Thulisile MPHAMBUKELI University of Johannesburg, Urban and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Climate Havens of Egypt: Facing Extreme Weather Events Nesma SALAH, Amira ADEL, Ali BAKR Alexandria University, Architectural Department; Alexandria, Egypt</p> <p>🏆 Reflections on the High-Quality Development of the Guangdong-Hong Kong-Macao Greater Bay Area Based on the Fourth Regional Plan of New York Metropolitan Area under the Three-Factor Model of Economy, Environment and Society Liang ZHAO Shenzhen University, Department of Architecture and Urban Planning; Shenzhen, China</p> <p>Presentations marked with 🏆 are reviewed papers.</p>	<p>🏆 Towards a Conceptual Framework for Sustainable Municipal Free Wi-Fi Interventions in South Africa Tlou Phillemon MATHANE, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 A Core of Robotics Intelligence. A “Green Button” Idea Tatiana POPOVICH*, Pietro ELISEI**, Manfred SCHRENK***, Artem ZAGVOZDKIN*, Vasily POPOVICH*, Stanislav BURDAKOV* * St. Petersburg, Russia ** ISOCARP; The Hague, NL *** CORP – Consulting Research Projects; Vienna, AT</p> <p>🏆 Neuroarchitecture Approach to Female Perception of Safety in Public Space Nesreen AIAD, Khalid AL-HAGLA, Hassan ABDELSALAM Faculty of Engineering, Architecture; Alexandria, Egypt</p> <p>🏆 The Impact of Free Municipal Wi-Fi on the Citizens’ Right to the City, Good Governance, and Service Delivery in an African Context Tlou Phillemon MATHANE, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p>	13:00-14:00
Lunch Break		13:00-14:00

MONDAY

TUESDAY

WEDNESDAY

SCHEDULE

Tuesday, 19 September 2023

Time	Auditorium 1	Auditorium 2
14:00-15:45	<p>Nature-Based Solutions: From Policy to Practise Chair: Nataša PICHLER-MILANOVIĆ</p>	<p>Digital und smart Moderation: Linda DÖRRZAPF</p>
MONDAY	<p>🏆 Making Green Real – How to Promote Greenery in Real Estate Development T. TÖTZER*, M. SCHNEIDER*, B. BOZIC**, R. BUKOR***, D. ENZERSDORFER****, S. FORMANEK*****, V. GEBHARDT*****, M. JUNG*, A. LICHTBLAU*****, W. SELLINGER****</p> <p>* AIT, DRC – Digital Resilient Cities; Wien, AT; ** 6B47 Austria; Wien, AT; *** Lindle+Bukor ; Wien, AT; **** grünplan gmbh; Leobendorf, AT; ***** GRÜNSTATTGRAU; Wien, AT; ***** Stadt Wien , MA 18 – Stadtentwicklung und Stadtplanung; Wien, AT; ***** 90 DEGREEN GmbH; Wien, AT</p>	<p>🏆 Land I(i)eben – künftig alles smart? Chancen und Herausforderungen der digitalen Transformation für regionale Entwicklung am Beispiel des Landkreises Kusel Tobias WEBER, Kirsten MANGELS RPTU Kaiserslautern-Landau, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE</p>
TUESDAY	<p>Net-Zero Land Consumption in Practise – Urban Infill, Demolition and Urban Qualification as Elements of a Circular Land Use Economy Hendrik JANSEN IU International University, Architecture and Urban Design; Berlin, DE</p>	<p>🏆 Digitales Parken der Zukunft – Planungen zu einem Reallabor auf dem Campus der Universität der Bundeswehr München Tobias WIEMERS, Frederik GÜGEL, Markus HOLZMAIR Universität der Bundeswehr München, Professur für Raumplanung und Mobilität; Neubiberg, DE</p>
WEDNESDAY	<p>BlueGreenStreets – Adapting Urban Streets for Climate Change Jochen ECKART*, Wolfgang DICKHAUT**, Michael RICHTER**</p> <p>* Hochschule Karlsruhe, Institute for Transport Systems and Infrastructure; Karlsruhe, DE ** HafenCity-Universität Hamburg; Hamburg, DE</p>	<p>🏆 Bäume im Bild: Wie ein transdisziplinärer Ansatz und KI zur Verbesserung der Datenqualität eines städtischen digitalen Baumkatasters beitragen können Julia MAYER*, Lena HOFF**, Sascha HENNINGER**, Martin MEMMEL*</p> <p>* Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), SmartCity Living Lab; Kaiserslautern, DE ** RPTU Kaiserslautern-Landau, Fachbereich Raum- und Umweltplanung; Kaiserslautern, DE</p>
	<p>🏆 Brownfield Regeneration in Sarajevo – Sustainable Growth Towards a Polycentric City K. HÖFTBERGER*, H. KLUMPNER**, R. KREBS*, K. MATIĆ***, A. PAVLOVIĆ****, M. WALCZAK**, A. DJURIC*****</p> <p>* superwien urbanism; Vienna, AT; ** ETH Zurich, Department of Architecture; Zürich, CH; *** Colliers, Capital Markets; Zagreb, Croatia; **** University of Sarajevo, Bosnia and Herzegovina; ***** Urban Innovation Vienna; Wien, AT</p>	<p>Hochauflösendes Monitoring der Flächennutzungsentwicklung in Deutschland Gotthard MEINEL Leibniz-Institut für ökologische Raumentwicklung, Raumbezogene Information und Modellierung; Dresden, DE</p>
15:45-16:15	<p>Coffee Break</p>	



Tuesday, 19 September 2023

Auditorium 3	Auditorium 4	Time
Public Health and Well-Being I Chair:	Socially Sustainable and Responsible Mobility I Chair:	14:00-15:45
<p>🏆 Measuring the Impact of Walking Environments on Brain Activation: Results from an fNIRS Pilot Study Lisa Marie BRUNNER*, Henrikke DYBVIK**, Helge HILLNHÜTTER*, Pasi AALTO***, Martin STEINERT** * Norwegian University of Science and Technology, Institute of Architecture and Planning; Trondheim, Norway ** Norwegian University of Science and Technology, Department of Mechanical and Industrial Engineering; Trondheim, Norway *** Norwegian Univ. of Science and Technology, Institute of Architecture and Technology; Trondheim, Norway</p> <p>🏆 The Role of Smart Cities on Smart Healthcare Management Hans Rüdiger KAUFMANN, Neda OMIDLOU University of Applied Management Studies; Mannheim, DE</p> <p>🏆 Urban Stress and Bicycle Infrastructure in the City of Osnabrück – Analysing Well-Being and Infrastructure Relationships in Streetscapes through a Triangulation Approach Céline SCHMIDT-HAMBURGER*, Thomas ELTNER**, Peter ZEILE*, Nina HAUG* * Karlsruhe Institute of Technology, Architecture - Chair of Urban Housing and Development; Karlsruhe, DE ** TU Dortmund, Fachgebiet Stadt und Regionalplanung; Dortmund, DE</p> <p>🏆 Impact of Urban Attributes on Human Happiness and Health in Alexandria as an Egyptian City Lamiaa ABD-RABO, Mohamed ABDELALL, Zeyad EL SAYAD Faculty of Engineering – Alexandria University, Architecture Department; Alexandria, Egypt</p>	<p>🏆 The Effect of Overtaking Distances on the Stress Occurrence of Cyclists in Urban Areas Jan HAUENSTEIN*, Jochen ECKART**, Peter ZEILE***, Jule MERK** * Planersocietät, Verkehrsplaner; Karlsruhe, DE ** Hochschule Karlsruhe, Institute for Transport Systems and Infrastructure; Karlsruhe, DE *** Karlsruher Institut für Technologie KIT, Stadtquartiersplanung STQP; Karlsruhe, DE</p> <p>🏆 Understanding Spatio-Temporal Usage Patterns of Cargo Bike Sharing to Foster Market Diffusion Aurelia KAMMERHOFER*, Florian PÜHRINGER*, Leo KOSTKA**, Linda DÖRRZAPF*, Martin BERGER* * TU Wien, MOVE; Wien, AT ** TU Wien, FVV; Wien, AT</p> <p>🏆 Optimising Sustainable Urban Mobility: Analysis of Non-Motorised Transport along M1 Road in Lilongwe Town, Malawi Gloda ZULU, Trynos GUMBO, Retsepile KALAOANE University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Paratransit, Built Environment, and Urban Mobility – a Responsive Relationship Ahmed ATEF ELSAWY, Hany AYAD Alexandria University, Architectural Engineering Department; Alexandria, Egypt</p>	15:45-16:15
Coffee Break		15:45-16:15

MONDAY

TUESDAY

WEDNESDAY

SCHEDULE

Tuesday, 19 September 2023

Time	Auditorium 1	Auditorium 2
16:15-17:45	Innovative Urban Development Chair: Blaž BARBORIČ	Kommunale Entwicklung Moderation: Martin BERCHTOLD
MONDAY TUESDAY WEDNESDAY	<p>🏆 Rethinking the Urban Green Spaces by the Lens of GIScience: the Experience of the Project Living Urban Parks Edoardo CRESCINI*, Giuseppe DELLA FERA *, Francesco FACCHINELLI**, Francesca PERONI*, Daniele CODATO*, Salvatore PAPPALARDO*, Massimo DE MARCHI*</p> <p>* University of Padova, Department of Civil, Environmental and Architectural Engineering; Padova (PD), Italy ** University of Padova, Department of Historical and Geographic Sciences and The Ancient World; Padova (PD), Italy</p> <p>🏆 An Assessment of Urban Decay in Rural Towns: a Case of Building Dilapidation in Thohoyandou Town, South Africa Comfort NDOU, Shylet NYAMWANZA University of Venda, Urban and Regional Planning; Thohoyandou, South Africa</p> <p>🏆 Investigating Urban Regeneration and Sustainable Cities Development Nexus in the City of Pietermaritzburg, South Africa Sphamandla NDLAZI, Trynos GUMBO, Eric MAKONI University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p>	<p>ZUSIE Zukunft Siedlung – klimaresiliente Umbaustrategien für die Siedlung in Erpersdorf und deren Transfer Lukas BOTZENHART, Katharina KIRSCH SORIANO DA SILVA Caritas der Erzdiözese Wien, Stadtteilarbeit; Wien, AT</p> <p>🏆 Programmmanagement als Grundlage zur Umsetzung von Stadtentwicklungskonzepten Max HAUG KIT, IESL; Stuttgart, DE</p> <p>🏆 Die dunkle Nacht erhebt sich – „Sternenparks“ als informelles und kommunales Steuerungselement für Natur- und Freiraumschutz Sascha HENNINGER, Marcel SCHÄFER RPTU Kaiserslautern-Landau, Fachbereich Raum- und Umweltplanung; Physische Geographie; Kaiserslautern, DE</p> <p>🏆 Inside Babyboomer – Gesundheits- und Wohnstandortverhalten deutscher Babyboomer und deren planerische Herausforderungen für die Gesundheitsversorgung in ländlich-suburbanen Räumen Marvin STIEWING, Kirsten MANGELS RPTU Kaiserslautern-Landau, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE</p>
	<p>Also note the live info monitor next to the registration desk!</p>	
from 18:00	Official REAL CORP 2023 Evening Reception	



Tuesday, 19 September 2023

Auditorium 3	Auditorium 4	Time
Public Health and Well-Being II Chair:	Socially Sustainable and Responsible Mobility II Chair: Linda DÖRRZAPF	16:15-17:45
<p> Living and Working in a Healthy Environment: How Sensor Research in Flanders can Help Measure and Monitor Exposure to Certain Environmental Factors Sophie DE MULDER, Michel GOETHALS, Mart VERLAEK, Liesbeth GOMMÉ, Niels DE KEMPENEER, Tine VAN HOOF, Karen VAN CAMPENHOUT, Philippe VAN HAVER, Maja MAMPAEY, Caroline TEUGHEL, Geert VAN HAUTE Department of Environment & Spatial Development Flanders, Environment and Health Research Team; Brussels, Belgium</p> <p> Impact of Educational Building Design on Users' Psychological and Physical Well-Being – Case Study High School in Egypt Khlood WAHBA, Asmaa HASAN, Dina TAHA Alexandria University, Faculty of Engineering, Department of Architecture; Alexandria, Egypt</p> <p> Towards the Evaluation of Possible Indicators for the Provision of Green Spaces in Settlements to Promote Physical Activity among the Population Jana KOZAMERNIK, Vita ZLENDER, Ina ŠUKLJE ERJAVEC Urban Planning Institute of the Republic of Slovenia; Ljubljana, Slovenia</p> <p>The Positive Effects of Active Mobility on Health with a Focus on Children's and Youth Mobility Natasa HODZIC-SRNDIC AustriaTech, Mobility Ecosystems; Wien, AT</p> <p>Presentations marked with are reviewed papers.</p>	<p> Application of the Persona Concept to Convey Socially Sustainable and Responsible Transport System Planning to Children and Juveniles Considering Autonomous Vehicles: Work Report on the Project AM4Kids – Future Workshop Nina HOHENECKER*, Bente KNOLL**, Christopher SCHLEMBACH***, Georg HAUGER*, Gabriela SAMMER****, Agnes RENKIN** * TU Wien, Verkehrssystemplanung; Vienna, AT ** B-NK GmbH; Vienna, AT *** Universität Wien, Institut für Soziologie; Vienna, AT **** ZIS+P Verkehrsplanung; Graz, AT</p> <p> Optimization of Cities through Green Spaces Hans Rüdiger KAUFMANN*, Thomas WALCH**, Gamze ÜNSAL-PETER***, Danny WESTPHAL***, Thomas SCHÄFER***, Stefan BLEY****, Matthias RÄDLE*** * Univ. of Applied Management Studies; Mannheim, DE ** Factory Agency; Mannheim, DE *** Hochschule Mannheim; Mannheim, DE **** City of Mannheim, DE</p> <p> Increase Occupancy Rate in Passenger Cars – Potentials of Awareness Raising for Carpooling Martin BERGER*, Linda DÖRRZAPF*, Lukas TANZER*, Arthur KAMMERHOFER**, Richard PREISLER***, Fabian ARTACKER*** * TU Wien, MOVE; Wien, AT ** TU Wien, SRF; Wien, AT *** Carcapacity; Wien, AT</p> <p> FTN – Frequent Transit Network: Transit Strategies towards Achieving Transit-Oriented Development in Alexandria City, Egypt Rowan SHEBL*, Hany AYAD**, Mai ABDO** * General Directorate of Planning and Urban Development, Data Centre; Alexandria, Egypt ** Alexandria University, Department of Architecture; Alexandria, Egypt</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>

SCHEDULE

Wednesday, 20 September 2023

Time	Auditorium 1	Auditorium 2
09:30-11:00	Urban Regeneration for a Better Quality of Life I Chair: Judith RYSER	Innovationen in Städtebau und Raumplanung Moderation: Martin BERCHTOLD
MONDAY TUESDAY WEDNESDAY	<p>🏆 Urban Revitalisation of Small Settlement in the Regional Context: Case Study Kneževo in Baranja Region in Croatia Lea PETROVIĆ KRAJNIK, Damir KRAJNIK, Petra BANIĆ University of Zagreb, Department of Urban Planning, Spatial Planning and Landscape Architecture; Zagreb, Croatia</p> <p>XR-Supported Communication in Green Urban Projects. Participating in Urban Change through Virtual and Augmented Reality Katharina HÖFTBERGER*, Doris ALLERSTORFER**, Anna KONRATH***, Andreas BERGER****, Roland KREBS* * superwien urbanism; Vienna, AT ** tatwort Nachhaltige Projekte; Vienna, AT *** fluxguide; Vienna, AT **** Green4Cities; Vienna, AT</p> <p>🏆 Towards Enhancement of Alexandria City Waterfront: Quality of Life Assessment Model Aida NAYER, Dina MOHAMED BHI, Architectural Engineering; Alexandria Cairo Desert Road, Egypt</p> <p>🏆 Co-Creating Development in Mining Towns: the Nexus between Social Labour Plans and Integrated Development Plans for Urban Development Planning in Rustenburg, South Africa Samson FABOYE, Trynos GUMBO, Jackson SEBOLA-SAMANYANGA University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p>	<p>🏆 Vertikales Wachstum im Städtebau Leonardo REINHARD, Tobias WIEMERS Universität der Bundeswehr München, Institut für Verkehrswesen und Raumplanung; Neubiberg, DE</p> <p>Nature-Based Solutions als Aspekt bei der Entwicklung innerstädtischer, hochfrequentierter Parkanlagen am Beispiel Rennbahnpark Frankfurt und Neckarvorland Mannheim Christian WILD bhm Planungsgesellschaft mbH; Bruchsal, DE RPTU Kaiserslautern-Landau, Raum- und Umweltplanung; Kaiserslautern, DE</p> <p>🏆 Implementierung von Waldinseln im Bereich der gründerzeitlichen Innenhöfe von Graz Petra KUBIN TU Graz, Institut für Städtebau; Graz, AT</p> <p>Monitoring von Stadt- und Regionalentwicklung mit statistischen Zeitreihen Clemens BEYER, Manfred SCHRENK CORP – Consulting Research Projects; Schwechat, AT</p>
11:00-11:30	Coffee Break	



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**LIVE
CONFERENCE
GUIDE**



Wednesday, 20 September 2023

Auditorium 3	Auditorium 4	Time
Climate Change Mitigation and Adaptation Chair:	Nature-Based Solutions: Case Studies Chair:	09:30-11:00
<p>🏆 The Potentials of Digital Tools to Contribute to Spatial Transformations – the Example of the Digital Twin of the City of Helsinki Jonas PAULY, Karina M. PALLAGST RPTU Kaiserslautern-Landau, Raum- und Umweltplanung; Kaiserslautern, DE</p> <p>🏆 Green Buildings as an Accelerator in Climate Change Mitigation and Air Quality Improvement Ofhani MUKWEVHO, Trynos GUMBO, Walter MUSAKWA University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Requirements for a Dashboard Application to Facilitate Climate-Smart Planning for Sustainable Resilient Green and Blue Cities Florian REINWALD*, Sophie THIEL*, Verena MACHO**, Susanne FORMANEK***, Rafael WERLUSCHNIG****, Markus LUISER****, Andras HORVATH**** * University of Natural Resources and Life Sciences (BOKU); Vienna, AT ** FCP Fritsch, Chiari & Partner ZT GmbH; Vienna, AT *** GRÜNSTATTGRAU Research and Innovations GmbH; Vienna, AT **** Rheologic GmbH; Vienna, AT</p> <p>🏆 Refurbished Green Buildings and Net Carbon Emissions Nexus: Towards Safer and Intelligent Futures in South African Cities Jeffery MAHHACHI, Trynos GUMBO, Thulisile MPHAMUKELI University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p>	<p>🏆 Exploring Nature-Based Solutions for Urban River Restoration: Insights from China's Sponge City Programme Yixin CAO, Karl Matthias WANTZEN University of Tours, Interdisciplinary Research Center of Cities, Territories, Environment and Society; Tours, France</p> <p>🏆 Nature-Based Solutions through Blue-Green Infrastructure as Measure of Adaptation, Resilience and Liveability to Climate Change: Case Study City Lab Saltillo, Mexico Catalina DIAZ*, Eduardo SANTILLAN-GUTIERREZ**, Gabriela DE VALLE***, Carmina VILLAREAL*** * University Stuttgart, Institute of Human Factors and Technology Management IAT/Urban Systems Engineering; Stuttgart, DE ** Tecnológico de Monterrey, Centro del Agua; Monterrey, Nuevo León, Mexico *** Municipal Planning Institute Saltillo; Saltillo, Mexico</p> <p>🏆 Investigating the Environmental and Economic Benefit of Waste to Energy Project: a Case Study of Methane Gas at the Thohoyandou Landfill Site Mukona KONE*, Trynos GUMBO*, David TINARO** * University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa ** University of Venda, Science and Mathematic; Thohoyandou, South Africa</p> <p>🏆 Thermal Variation and Socio-Environmental Inequality in Taipei Basin Wan-Yu SHIH Ming Chuan University, Urban Planning and Disaster Management; Taipei, Taiwan</p> <p>Presentations marked with 🏆 are reviewed papers.</p>	11:00-11:30
Coffee Break		11:00-11:30

MONDAY

TUESDAY

WEDNESDAY

SCHEDULE

Wednesday, 20 September 2023

Time	Auditorium 1	Auditorium 2
11:30-13:00	Urban Regeneration for a Better Quality of Life II Chair: Janez P. GROM	Innovation in Nature-Based Solutions Chair: Barbara GOLIČNIK MARUŠIČ
MONDAY TUESDAY WEDNESDAY	<p>🏆 Urban Nexus: An Approach for Regenerative Urban Environments (Public Spaces Located in the Urban Fringe) Nouran NAGUIB, Hassan ABDEL-SALAM, Dina SAADALLAH, Mai ABDO Alexandria University, Department of Architectural Engineering; Alexandria, Egypt</p> <p>Comparison of the Evolution Process of City Examination and Evaluation in China and Britain and its Enlightenment to China Ziwei GAO, Yuting YANG, Xiaohan XU China Academy of Building Research; Beijing, China</p> <p>🏆 Integrating Multi-Scalar Attributes in Assessing Urban Sustainability for the Built Environment in Heritage Sites: the SHAI Model Aida NAYER*, Dalia ABD EL FATTAH** * BHI, Architectural Engineering; Alexandria Cairo Desert Road, Egypt ** El Yamama University, Architecture Engineering Department; Riyadh, Saudia Arabia</p> <p>🏆 Challenges for Implementing Blue-Green Measures in the Transformation of Peri-Urban Streets Mario STEFAN*, Lena FLAMM**, Carola HILGERT***, Eva SCHWAB*** * TU Graz, Institute of Urbanism; Graz, AT ** bgmr Landschaftsarchitekten; Berlin, DE *** Technical University Graz; Graz, AT</p> <p>🏆 Urban Regeneration: Identifying Causes and Impacts of Urban Decay within the Pietermaritzburg Central Business District: South Africa Kwethemba KHUMALO, Trynos GUMBO, Jackson SEBOLA-SAMANYANGA University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p>	<p>🏆 Harnessing Crowdsourcing Data for Comprehensive Green Window View Analysis Anna-Maria BOLTE, Mahsa MOGHADAS, Theo KÖTTER University of Bonn; Bonn, DE</p> <p>Participatory Approaches in Nature-Based Solutions: Literature and Practises Sara BIANCIFIORI*, Sara TORABI MOGHADAM**, Patrizia LOMBARDI** * POLITO/IUSS pavia/ EURAC, DIST department; Torino, Italy ** POLITO, DIST; Torino, Italy</p> <p>🏆 The Possibility of Including Habitat Types as Nature-Based Solutions in Spatial Planning Documents: the Case of Slovenia Manca DREMEL*, Igor ZELNIK**, Barbara GOLIČNIK MARUŠIČ * Urban Planning Institute of the Republic of Slovenia; Ljubljana, Slovenia ** University of Ljubljana, Biotechnical Faculty, Department of Biology; Ljubljana, Slovenia</p> <p>🏆 Community-Based Ecotourism Principles as a Framework for Community Development in Protected Areas Yasmine RADWAN*, Amira A. FATHI**, Khaled ELHAGLA** * Arab academy for science, technology & maritime transport, Architecture and Environmental Design; Cairo, Egypt ** Alexandria university, Faculty of Engineering, Department of Architecture; Alexandria, Egypt</p>
13:00-14:00	Lunch Break	

Presentations marked with 🏆 are reviewed papers.



Wednesday, 20 September 2023

Auditorium 3	Auditorium 4	Time
Sustainable Resources and Infrastructure Management Chair:	Data-driven Energy Transition across Various Planning Levels Chair: Stefan GEIER	11:30-13:00
<p>🏆 The Potential of Bio-Based Insulation Materials for Healthy Living Spaces and Sustainable Architecture Sandra BÖHM Karlsruhe Institute of Technology KIT, Institute of Design and Building Technology; Karlsruhe, DE</p> <p>🏆 Crisis and Green Urban Development: Urban Agriculture and Post-Earthquake Urban Resilience in Christchurch, New Zealand Andreas WESENER Lincoln University, School of Landscape Architecture; Lincoln, New Zealand</p> <p>Examining Pathways to Sustainable Storm Water Management: Experiences in Thohoyandou, Limpopo, South Africa Mashudu RANDELA, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Intelligent Social Networks T. POPOVICH*, P. ELISEI**, D. GOLUBOVIC-MATIC***, P. LACONTE****, V. V. POPOVICH*, M. SCHRENK*****, V. SHUTKOV*, A. ZAGVOZDKIN* * HTRD Ltd; St. Petersburg, Russia ** EEC UIA Prog. Intl. Expert; Bucharest, Romania *** Union Nicola Tesla University; Belgrade, Serbia **** Foundation for the Urban Environment – FFUE; Brussels, Belgium ***** CORP Consulting Research Projects; Schwechat, AT</p> <p>🏆 Evaluate the Socio-Economic Impact of the International Coastal Road (ICR) on Burg Elburullus City Ahmed ELKADY*, Mohamed A. FIKRY**, Zeyad T. ELSAYAD**, Ahmed Salah ELDEEB* * Kafrelsheikh University, Architecture Department; Kafr El Sheikh, Egypt ** Alexandria University, Architectural Engineering Department; Alexandria, Egypt</p>	<p>From Pixels to Planning: Large-scale Mapping of Urban Morphology and Population Distribution with the World Settlement Footprint 3D Daniela PALACIOS LOPEZ, Elisabeth BRZOSKA, Mattia MARCONCINI, Julian ZEIDLER, Thomas ESCH German Aerospace Center, Land Surface Dynamics; Weßling, DE</p> <p>Data for the Energy Transition from Strategic Planning to Project Level (GEL S/E/P II) Stefan GEIER University of Natural Resources and Life Sciences (BOKU); Vienna, AT</p> <p>Methods, Challenges, and Solutions for PEDs in Planning and Implementation (ZQ3Demo) Jens LEIBOLD UAS Technikum Wien; Vienna, AT</p> <p>🏆 “Energy WITH Spirit” Facing Nowadays Challenges by Generating Sustainable Energy in Solidary Energy Communities: First Project Insights Bente KNOLL*, Katharina PFASCHBACHER-ZACH*, Ralf DOPHEIDE**, Agnes RENKIN* * B-NK GmbH Büro für nachhaltige Kompetenz; Wien, AT ** Dipl.-Ing. Ralf Dopheide e.U.; Wien, AT</p>	<p>MONDAY</p> <p>TUESDAY</p> <p>WEDNESDAY</p>
Lunch Break		13:00-14:00

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SCHEDULE

Wednesday, 20 September 2023

Time	Auditorium 1	Auditorium 2
14:00-15:30	Systems of Green and Blue Infrastructure Chair: Trynos GUMBO	Adoptive Architecture and Multifunctional Spaces Chair:
MONDAY	Optimizing the Infrastructure of Electric Vehicles and Developing Business Models for Sustainability Hans Rüdiger KAUFMANN, Nishant DHIR, Savas GENÇ University of Applied Management Studies; Mannheim, DE	Pathways to Urban Parks Functionality Enhancement: Lessons from Gugu Dlamini Park Mhlalisi MNDZEBELE*, Trynos GUMBO*, George NKERE*, Ayobami POPOOLA** * University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa ** University of Kwazulu-Natal, Town and Regional Planning; Durban, South Africa
TUESDAY	The Role of Electric Vehicles in Greening the Environment: Prospects and Challenges Oluwayemi-Oniya ADERIBIGBE, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa	Overall Layout of Socialist and Post-Socialist Large Housing Estates in Croatia Anđelina SVIRČIĆ GOTOVAC*, Jelena ZLATAR GAMBEROŽIĆ*, Sara URSIĆ**, Jana VUKIĆ*** * Institute for Social Research in Zagreb; Zagreb, Croatia ** Institute of Social Sciences Ivo Pilar; Zagreb, Croatia *** Faculty of Humanities and Social Sciences, Department for Sociology; Zagreb, Croatia
WEDNESDAY	EVAPPO+ Transpiring Green Walls – a Demonstration on How to Maximise the Evapotranspiration Effect to Cool Down our Microclimate Bente KNOLL*, Agnes RENKIN*, Ralf DOPHEIDE**, Elisabeth KNASMILLNER***, Andreas HILLER***, Michael FLEISCHMANN*** * B-NK GmbH Büro für nachhaltige Kompetenz; Wien, AT ** Dipl.-Ing. Ralf Dopheide e.U.; Wien, AT *** RaumRegionMensch ZT GmbH; Wolkersdorf, AT	Design Studio Environment: Using Biophilic Patterns for Creative Performance Amany ABDEL-AZIZ, Dina NASSAR, Ingi EL-CHERIF, Khalid AL-HAGLA Faculty of Engineering, Alexandria University, Department of Architecture; Alexandria, Egypt
	Understanding the Significance of Urban Lingering Factor of Built Environments in the Socio-Climatic Decision-Making Process for Urban Open Spaces Sagda GAMALELDIN, Mohamed IBRAHIM, Zeyad EL-SAYAD Alexandria University, Architectural Engineering; Alexandria, Egypt	Computational-based Generative Design Exploration Multi-Agent System as an Approach Israa EL-MAGHRABY, Khaled AL-HAGLA, Heba JAHIN Alexandria University, Architectural Engineering; Alexandria, Egypt
	Facades Solar Screens Impact on Daylighting Performance in Buildings Mohamed ELCHARKAWI, Hassan ABDEL-SALAM, Mohamed FIKRY Alexandria University, Architecture engineering; Alexandria, Egypt	
15:30-16:00	Conference Closing: Summary, Outlook, Perspectives	
		Auditorium 1



Wednesday, 20 September 2023

Auditorium 3	Auditorium 4	Time
Urban Morphology and Landscape Chair: Judith RYSER	Lessons Learnt From COVID-19 Chair:	14:00-15:30
<p>🏆 The Contribution of Peri-Urban Characterisation to the Development of Sense of Place Indicators Vita ZLENDER, Rok BRIŠNIK The Urban planning Institute of the Republic of Slovenia; Ljubljana, Slovenia</p> <p>🏆 Investigating the Main Factors of Neighbourhood Morphology Affecting Social Cohesion: SEM-PLS Analysis Approach Doaa MORSY*, Khalid AL-HAGLA**, Mohamed FIKRY** * General Directorate of Planning and Urban Development, Data Center; Alexandria, Egypt ** Alexandria University, Architecture Department; Alexandria, Egypt</p> <p>🏆 The Planning and Utilisation of Green Spaces in South Africa: Potchefstroom as a Case Study Zaakirah JEEVA University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Research on Construction Method of Genetic Map for Rural Settlement Heritage of Ethnic Minorities in Guangxi, China Xi LUO, Jianyun HUANG Shanghai, China</p> <p>🏆 Urban Morphology vs. Social Cohesion: a Study of Two Neighbourhoods in New Borg Al-Arab City, Egypt Doaa MORSY*, Khalid AL-HAGLA**, Mohamed FIKRY** * General Directorate of Planning and Urban Development, Data Center; Alexandria, Egypt ** Alexandria University, Architecture Department; Alexandria, Egypt</p> <p>Presentations marked with 🏆 are reviewed papers.</p>	<p>🏆 Functional Applications of Unmanned Aerial Vehicle Technology in Urban Planning Practice: A PRISMA Systematic Review Bernard Eric MDAOPA*, Trynos GUMBO*, Them bani MOYO**, Innocent MUSONDA** * University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa ** University of Johannesburg, Centre for Applied Research + Innovation in the Built Environment (CARINBE); Johannesburg, South Africa</p> <p>🏆 Designing Learning Environments in Response to Pandemics: a Comparative Analysis for COVID-19 Best Practises Schools Interventions Merna MIKHAEIL, Asmaa HASAN, Tarek FARGHALY Alexandria University, Department of Architecture; Alexandria, Egypt</p> <p>🏆 The Role of Global Governance Systems in Shaping Responses in the Era of Pandemics: Lessons from Chinese Covid-19 Experiences for South Africa Boy Johannes MASHABELA, Jeffrey MAHACHI, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Johannesburg, South Africa</p> <p>🏆 Diagnose Digital Skills Gap between Professional and Academic Sectors in Architecture Discipline – Jordan Case Study Anwaar BANISALMAN*, Ibrahim MAROUF*, Ali ABU GHANIMEH**, Amira FATHI * * Alexandria University, Architecture Engineering; Alexandria, Egypt ** University of Jordan, Architecture Engineering; Amman, Jordan</p>	MONDAY TUESDAY WEDNESDAY