

REAL CORP 2018

CONFERENCE PROGRAMME

23rd International Conference on Urban Planning and Regional Development in the Information Society



EXPANDING CITIES DIMINISHING SPACE

ARE “SMART CITIES” THE SOLUTION
OR PART OF THE PROBLEM OF CONTINUOUS URBANISATION
AROUND THE GLOBE?



4-6 APRIL 2018, TU WIEN, CAMPUS GUSSHAUS
GUSSHAUSSTRASSE 25-29, 1040 VIENNA, AUSTRIA

www.corp.at

WELCOME



Manfred Schrenk, Vienna, Austria;
Conference Director, Chairman CORP

also grow into 3rd dimension: "up into the sky" and "going underground". Many cities kind of expand in time, become "cities that never sleep", extending their urban activities to 24 hours per day all the year round – 24/365. Even in countries and regions with constant or declining population numbers, it is still the cities that attract people. While the "hunger" in the literal sense for food and resources is growing, the "spaces in between", especially agricultural land, but also natural retreats and buffer zones are diminishing.

These aspects of city expansion do not only lead to massive changes all over the world, they also arise multiple challenges, chances and risks which have to be dealt with in planning processes. Questions arise on how to deal with these problems at short notice, and what has to be done to find solutions to these challenges thinking in long-term strategies – the challenges and problems seem huge. At the same time more and more unprecedented (urban) technologies are available to monitor and manage cities. Smart urban technologies promise a contribution to the solution of multiple challenges and can be applied in wide fields, an essential aspect is to overcome "disciplinary approaches" and having a holistic view of the city – an approach that urban planners claim to have been using forever. With all the technology in focus of course the goals of sustainability and resilience remain as important as they have always been. Cities are mainly about people and not about technology, so it is still "quality of life" that should be in focus.

Vienna, the host city of REAL CORP 2018, is still the most liveable city in the world according to the well-known Mercer study on quality of living. The results of this study show, for the 8th time now, that Vienna's approach to quality of living is acknowledged internationally – an ideal location for REAL CORP which has always been a conference with a strong focus on international presenters and audience – this year we brought together some 250 participants from more than 40 countries worldwide. The main goal of the REAL CORP conference series is to bring together leading experts in the field of spatial planning, geoinformation and related disciplines to exchange their knowledge, share their ideas, discuss current developments and get together for face to face networking leading to the development of new thoughts, partnerships and projects.

The success of the REAL CORP conferences is – clearly without doubt – the result of the efforts of participants, reviewers, and the conference organising team consisting of CORP association, ISOCARP – International Society of City and Regional Planners, Karlsruhe Institute of Technology and Vienna University of Technology. We would like to acknowledge the Reviewer Team and Programme Committee members for their valuable voluntary help with the review process. Our thanks go to all participants and authors of the submitted papers as well.

**Welcome to Vienna!
Have a great conference!**

Manfred Schrenk, Clemens Beyer and the REAL CORP Team



<http://live.corp.at>



EXPANDING CITIES – DIMINISHING SPACE

Are “Smart Cities” the solution or part of the problem of continuous urbanisation around the globe?



CONFERENCE TOPICS

Facts behind Urban Expansion: Which cities are growing? Why? Where? How? At which rate? Sensors, Satellites, Drones ... – modern technologies help to monitor, analyse and explain the dynamics of urban and rural areas. Can they also help find solutions?

Exceeding the City Limits, Urbanisation Continues: Cities are growing fast. What can be done if the existing urban areas are exhausted? Expansion into the outskirts – urban sprawl and dedensification, expansion into higher density, expansion into height, expansion into underground spaces?

Housing, Infrastructure, Commercial development, ...: the real estate perspective on future cities

GIS, 3D and 4-Dimensional Planning, BIM: When systematically expanding in height and into the underground, how about the rules and the planning in 3rd dimension – do we need a 3D cadastre? Nowadays many buildings are not built to stay forever any more. So what about 4D planning? Can BIM (Building Information Management) help manage highly complex projects?

Vacant Countryside: Still people tend to move into cities: for better jobs, shorter paths, more infrastructure, easier supply, ... Rural areas lose more and more population, but what about further maintenance of these spaces? Will rural areas be marginalised or can they become more attractive again? What about “Smart Villages” and “Smart Countryside”?

Migration: Movement into cities does not only affect the domestic population. Cities also have to face international migration, by choice and in terms of refugees, causing the risk to overburden cities regarding their melting pot functions. What can be done to improve and manage the coexistence of many different nationalities, religions and culture in a limited area?

Future Mobility: eMobility, autonomous vehicles, (semi-)public transport, intermodal and multimodal mobility, “self-powered mobility” – cycling and walking – or can we even avoid mobility growth by creating an infrastructure of short paths? REAL CORP discusses approaches in passenger mobility as well as in cargo mobility.

Soil Sealing: The total area covered by cement, asphalt, concrete etc. is expanding. Sealing of soil leads to problematic urban microclimates and weather extremes. Can green buildings, green roofs, vertical farms and green spaces in cities solve the problem, or is it already too late and we can just face the consequences of the last decades' developments?

Energy of the Future: Fossile energy resources are limited – to solve energy demand problems in a long-term perspective, on the one hand renewable energy sources have to be fostered, on the other side the overall demand for energy has to be scaled down introducing low energy urban solutions. Cheap oil is a driving factor of urban growth.

Scarcity of Resources, Circular Economy: The permanent growth of population, especially in cities, has already led to shortages in supply of food and drinking water in some regions of the planet. Can new spaces for the production of renewable resources be developed? Are there ways to deal more thrifitly with non-renewable resources? Is recycling or upcycling a solution to the growing demand for resources?

Expansion of the Internet, Big Data: Data storage is cheaper than ever before and broadband access makes it easy to have even hugest amounts of data travel around the world, even with mobile devices where the next communication standard 5G is already in preparation. Big Data and the internet of things are already a reality. What are the consequences for cities, citizens and for urban life?

Cities as Liveable, Accessible, Human-Oriented Places: By means of information and communications technologies cities are transformed into smart organisms – but what about the people living in the city? Are they willing to be part of a high tech environment? How to design safe, liveable, healthy places to live? Cities are mainly about people and not about technology, so it is still “quality of life” that should be in focus.

About REAL CORP

CORP conferences have been held annually since 1996 and are major international congresses on Urban Planning, Regional Development and Information Society. The events are extraordinarily interdisciplinary, whereby usually a lot of new ideas and projects are generated. Several hundred experts from all around the world from the fields of urban planning, transport planning, information and communication technologies, architecture, ecology, real estate, GIS and surveying, multimedia technologies and more meet to discuss current tasks and topics on urban planning, regional development and information society in an international and interdisciplinary conference. Speakers and participants represent private companies as well as research institutions and public administration. The programme includes expert lectures, round tables and workshops, business presentations and exhibitions as well as extensive social events. All conference papers are freely available on our website www.corp.at – not only from this year's conference, but back to 1996, including a full text search engine.



KEYNOTE SPEAKERS



Manfred Schrenk, Vienna, Austria; Conference Director, Chairman CORP

Manfred Schrenk studied spatial planning and regional science at Vienna University of Technology where he extensively worked on urban and transport planning. His fields of specialisation are urban planning and spatial development in information and knowledge society, mobility and transport planning, international urban development, urban, transport and environmental technologies, GIS and planning technologies. He is organiser of the annual international CORP conferences since foundation in 1996. He has been Vice President Events & Treasurer ISOCARP (International Society of City and Regional Planners) and Deputy President AGEO (Austrian Umbrella Organisation for Geoinformation). He is board member ÖGR (Austrian Society of Spatial Planning) and Chairman CORP (Competence Center for Urban and Regional Planning).



Gerhard Navratil, Vienna, AT; Vienna University of Technology, Department of Geodesy and Geoinformation, Research Group Geoinformation

Gerhard Navratil is a research and teaching assistant at the Institute of Geoinformation at the Technical University of Vienna. In 2002 he received his PhD from the Technical University of Vienna: He discussed how to create a mathematical model from the pure law text resulting in an abstract specification that can be used to write programs implementing the law using the Austrian General Land Registration Law as a test case. In July 2007 he received the Venia Docendi (the right to teach) from the Vienna University of Technology. Since 2010 Gerhard Navratil is a member of the WIA team (Wissenschaft in der Ausbildung) at the University of Applied Science Technikum Wien. Since 2011 he is a member of the Austrian team aiming at establishing boundaries and boundary marks as UNESCO World Heritage.



Martin Dubbeling, The Hague, NL; President-elect of ISOCARP – International Society of City and Regional Planners

Martin Dubbeling is an urban planner and urban designer specialised in sustainable urban design. He is founder of Connecting Cities and President-elect of ISOCARP. Martin is an active and senior practitioner in spatial planning, urban planning, landscape architecture and the environment in the Netherlands and abroad. Martin Dubbeling is one of the authors of the award winning and best selling books ‘Sustainable Urban Design, Perspectives and Examples’ (2005) and ‘Sustainable Urban Design, The Next Step’ (2010). In 2013 Martin Dubbeling founded Connecting Cities, office for research, consultancy, design and communication in sustainable urban and regional planning. As Vice President Urban Planning Advisory Teams (UPATs) of ISOCARP, he organized Urban Planning Advisory Teams (UPAT) workshops in Singapore (2010), Wuhan (2012 and 2017), Perm (Russia, 2012), Shantou (2013), Nanjing (2013), for the United Nations Development Programme (UNDP) in Gaza and for UN-Habitat in the West Bank (both in Palestine, 2015), and in Bodø (Norway, 2017).



Hannes Taubenböck; Weßling, Germany; Deutsches Zentrum für Luft- und Raumfahrt (DLR)

Hannes Taubenböck received the Diploma degree in geography from the Ludwig-Maximilian's University Munich, Germany, in 2004 and the Ph.D. degree (Dr.rer.nat.) in geography from the Julius-Maximilian's University of Würzburg, Germany, in 2008. After the PhD position at the German Remote Sensing Data Center at DLR (2005-2007) and a post-doc position at the University of Würzburg (2008-2010), he became a Scientific Employee with DLR-DFD in 2010. Since 2013 he heads the “Modelling and geostatistical methods” team. Since 2009 he is also lecturer with the University of Würzburg. His research activities concentrate on the development of algorithms for information extraction from multisensoral remotely sensed data and subsequent value adding findings in the domain of urban geography.

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KEYNOTE SPEAKERS



Rafael de Miguel González holds a PhD in urban geography and urban and regional planning from the University of Paris (France). He is Associate Professor of Geography at the University of Zaragoza (Spain), where he is Executive Associate Dean for International Programs and Director of Confucius Institute, and visiting scholar at several universities in USA, UK, France, Belgium and Denmark. He has previously been City of Zaragoza Council Member during the International Expo Zaragoza 2008. He has also previously been advisor for the regional government of Aragon in urban and regional planning. His specialities in research are urban geography and planning (suburbanisation, metropolitan planning, sustainability, smart cities) and geography education. He is Vice President of the European Association of Geographers (EUROGEO), member of the Board of the Royal Geographic Society of Spain and fellow member of the Royal Academy of Fine Arts of San Luis as well as member of the Editorial Board of several Journals as International Research in Geographical and Environmental Education (IGU) and Director of the Editorial Series Key Challenges in Geography (Springer).

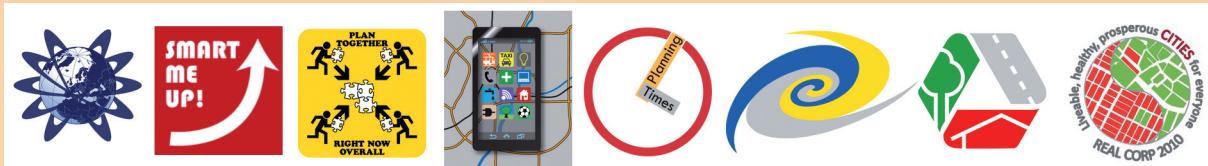
Rafael de Miguel González, Wardamme, Belgium; Vice President of the European Association of Geographers



Judith Ryser qualified as an architect and urbanist with an MSc in social sciences, Judith Ryser's research activities in Paris, Stockholm, Geneva (United Nations), Brussels (EU), Madrid (Fundacion Metropoli) and London in public sector posts, private practice and at universities (UCL, AA) focused on cities and development strategies. She carries out research and consultancies, advises international agencies, is teaching and guest lecturing, engages with community groups, writes articles and edits publications at home and abroad. She is a member of the International Advisory Council of the Fundacion Metropoli, Madrid. Past vice-president and life member of Isocarp (International Society of City and Regional Planners), she carried out many executive functions. She is a long standing collaborator of CORP, member of the Urban Design Group and its editorial board and a member of the Chartered Institute of Journalists.

Judith Ryser, London, UK; Architect, CityScope Europe, www.urbanthinker.com

REAL CORP SINCE 1996



2017: Panta Rhei – a World in Constant Motion

2016: Smart Me Up! How to become and how to stay a Smart City, and does this improve quality of life?

2015: Plan Together – Right Now – Overall. From Vision to Reality for Vibrant Cities and Regions

2014: Plan it Smart – Clever Solutions for Smart Cities

2013: Planning Times – You better Keep Planning or You get in Deep Water, for the Cities they are A-Changin'

2012: Re-Mixing the City – Towards Sustainability and Resilience?

2011: Change for Stability – Lifecycles of Cities and Regions

2010: Cities for Everyone – Liveable, Healthy, Prosperous. Promising vision or unrealistic fantasy?

...

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SPECIAL FOCUS BLOCKS

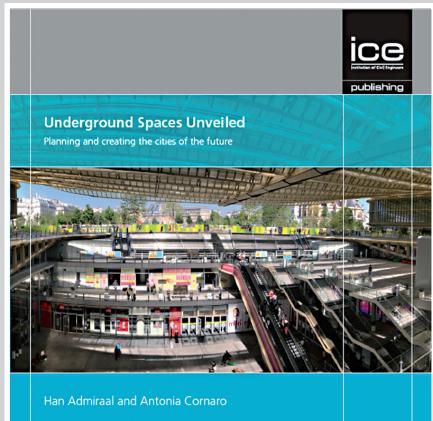
Book Presentation: Underground Spaces Unveiled

4 April 2018, 16:30 – 18:00, Auditorium 1

Urban planners and decision makers are facing numerous challenges as cities worldwide rapidly expand, and urban space diminishes by the day. This results in an ever-increasing demand for space. Consequently, many concepts are being studied and implemented to mitigate the effects on the urban environment. At the same time, climate change requires a new kind of urban resilience and mitigation through a disconnect from fossil fuels and excessive carbon production. To achieve this, we need a new fundamental understanding of the urban metabolism which for now remains hidden. Understanding contemporary

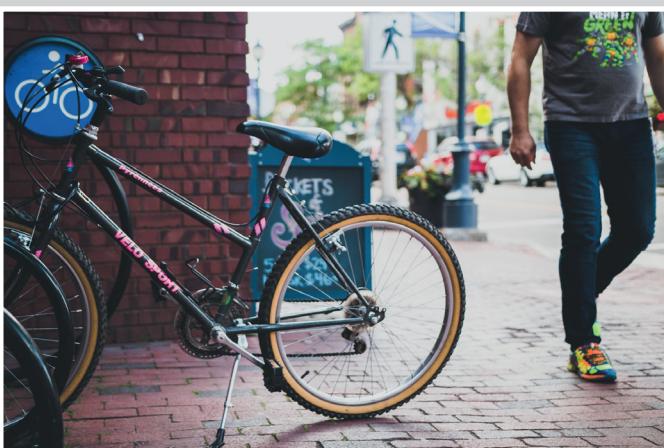
city life requires us to reconnect the biophysical and social domains. It also requires an in-depth knowledge of the subsurface metabolism that is an integral part of the urban metabolism.

In their book 'Underground Spaces Unveiled' this is just one of the topics that Han Admiraal and Antonia Cornaro discuss. During REAL CORP 2018 they will launch their book during a special session on 4 April from 16:30 to 18:00. The session will include a presentation, readings from the book and Q & A interaction, as well as refreshments.



Special Focus: Promoting Active Mobility: From Research into Practice

5 April 2018, 09:00 – 10:30, Auditorium 1



Facing the ever increasing **challenges of the transportation system** as a whole and the great many **negative effects of private motorized traffic** in particular (such as air-, noise and other environmental pollution, negative health effects, accidents, consumption of space) **shifting traffic to active modes** (walking, cycling, etc.) seems one of the most promising ways of tackling these problems.

Hence, this session will be centered around the question **how to best promote active transport modes** in a **systematic and sustainable manner**. We will cover **theoretical concepts, empirical evidence and hands-on experience** from working in situ thus **closing the gap between research and practical application**.

Suggested **solution paths** relate to the **mobility sector** (ACTIV8: innovative evidence-based planning tools for decision makers at federal and community levels; cycling promotion in local communities) **and beyond** (ACTIVE2WORK: novel working hours arrangements, health benefits and sufficient mobility).

ACTIV8 //

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SPECIAL FOCUS BLOCKS

Special Focus: ISOCARP Next City Seminar

5 April 2018, 11:00 – 12:45, Auditorium 1



The International Society of City and Regional Planners (ISOCARP) is a global association of experienced professional planners. ISOCARP brings together recognised and highly-qualified planners in an international network. The ISOCARP Next City activities address the current transition of the way we plan, design and redevelop our cities. This transition follows

the rapid and current changes in our society towards the circular and versatile ‘Next Economy’ and the emerging and smart ‘Next City’ that is livable, inclusive and cherishes bottom-up initiatives. The overall theme the Next City, based on smart and sustainable urbanism. We intend to explore how cities need to be planned and managed differently in the next decade. And more specifically, how the gap between visioning, planning and implementation can be bridged and how planning and planners can create alliances to help to achieve the Sustainable Development Goals.

In this Next City Seminar ISOCARP presents three different topics. **Kristoffer Larsen Seivåg** and **Mats Marthinussen** from the arctic and small Norwegian City of Bodø present the ambitious and courageous “New Airport – Smart Bodø” project in which the city takes the renewal and replacement of a regional airport as a starting point to reinvent the city. **Elizabeth Reynolds** presents her book on Underground Urbanism that seeks to provide a new perspective on our cities. This book brings together geology, urban planning, engineering, architecture and design, to explain what lies beneath our cities, and how it can be used to create great, sustainable places. ISOCARP Vice President **Daniele Vettorato** will present the current state of the Smart Cities White Paper that ISOCARP is preparing. The ISOCARP Next City Seminar will be moderated by ISOCARP’s President-Elect **Martin Dubbeling**.

Podiumsdiskussion: Mehr aus der Stadt machen

5 April 2018, 14.00 – 16.00, Auditorium 2

Mehr aus der Stadt machen: Was die Immobilienwirtschaft zu einer smarteren, schöneren, lebenswerteren Stadt beitragen kann und was sie dafür braucht

Die Herausforderung ist groß: Auf den begrenzten Räumen der modernen Städte leben, arbeiten, kaufen und bewegen sich Millionen von Menschen. Die Ressource Boden wird zu einer kaum leistbaren Angelegenheit, Wohnungen gibt es nie genug, die Straßen verstopfen sich und gleichzeitig steigen Lebenserwartung und Anspruch der Stadtbewohner zusehends.

Die Immobilienbranche profitiert von der Anziehungskraft der Städte und von dem vielen Geld, das angelegt werden will. Aber sie trägt auch eine große Verantwortung für das Stadtbild und die Möglichkeiten des Wohnens, Arbeitens und für die Versorgungsmöglichkeiten. Wie die Immobilienbranche sich dieser Verantwortung stellt, welche Gedanken sie sich dazu macht und wie die konkreten Pläne aussehen, wird auf dieser Podiumsdiskussion besprochen.

Moderiert von Alexander Ghezzo¹, Organisator von Immobilienkonferenzen. Es diskutieren: Marc Guido Höhne², Drees & Sommer; Claudia Nutz³, Michael Pech⁴, ÖSW; Klaus Wolfinger⁵; Silvia Wustinger-Renezeder⁶, 6B47.



SPECIAL FOCUS BLOCKS

Special Focus: Gaia in Colours – Densification and Expansion of the Urban within the Natural 5 April 2018, 16.30 – 18.30, Auditorium 2

Im Jahr 2170 hat dieser Planet eine Transformation erfahren, die die Elemente der ökologischen Landschaftsgestaltung und der Stadtgestaltung verschmelzen hat lassen.

Die Oberfläche dieses Planeten kündet von einem neuen Zusammenwirken von Mensch und Natur. Statt uns in die Megacities zurückzuziehen, sind wir alle Gärtner geworden – aber durchaus nicht ohne gewisse urbane Errungenschaften mitzunehmen. Wir leben zumeist in verdichteten kleinstadtartigen Umgebungen in verschiedensten Gestalten, die von mehr oder weniger konzentrischen Ringen intensiv und extensiv bewirtschafteter Kulturlandschaft umgeben sind und auch von Bereichen die dem menschlichen Eingriff entzogen sind. Obwohl uns alle möglichen modular verbundenen Verkehrsmittel zur Verfügung stehen, ist der Fußgänger wieder zum Maß aller Dinge geworden. Unsere Städte und Dörfer drücken verstärkt kulturelle Diversität aus. Wir haben Raum zur Entfaltung gewonnen, weil wir Städte als Organismen, als gigantische Pflanzen, die uns Schutz und Nahrung bieten, zu gestalten gelernt haben.

Im Einzelnen möchte ich zeigen:

1. Die kombinierte Formensprache von gebauter Welt und den diversesten Landschaften.

Wie wir uns der Wüste und dem Gebirge, dem Wald und der Tundra anzupassen vermögen und im Gegenzug diese Landschaften in Kenntnis der ihnen innenwohnenden Kräfte sanft im Spiel der Wechselwirkungen vermenschen, ohne sie künstlich gestalten zu müssen.

2. Das Organischwerden der gebauten Welt selbst.

Wie unsere Häuser und Städte Pflanzen und Tieren ähnlicher werden, mit Skelett, Nervensystem und Blutkreislauf, wie eine kreislaufförmige Ökonomie-Ökologie eine Welt ohne Abfälle trägt und einen Zyklus des Gedeihens für alle trägt.

3. Das Gebaute als Ausdruck unserer Kultur, der verschiedenen Ausdrucksformen unseres kollektiven Wollens und unserer Identität.

Wie wir uns in Subkulturen zusammenfinden, um in Habitaten unsere innere Berufung gemeinschaftlich zu leben und zu erfüllen, und wie sich aus der Welt der Berufungen ein Werk der Menschheit formt – getragen von Orten, die in ihrer Mannigfaltigkeit Stationen einer Abenteuerreise gleichen.

4. Die Dialektik von Nomadismus und Sesshaftigkeit.

Wie wir uns wenn notwendig zu entkoppeln und befreien lernen, wenn wir zu sehr in Abhängigkeit geraten, wie wir unserer Sehnsucht nach Weite und Abenteuer, nach Erlebnis und Erweiterung unseres Lebensfeldes, nach globalen Beziehungen und Fluss von Mensch und Material die eleganteste Form geben. Also auch Nomadismus voll zu leben imstande sind, wenn wir es wirklich wollen.

5. Das Entlassenwerden in und Einlassen auf die Natur als Ausdruck unserer seelischen und körperlichen Gesundwerdung, die unser gebauter Schutzorganismus unterstützt.

Wie auch das Nicht-Zuhause jenseits des Habitats unser Wohnzimmer und unsere Lebensschule wird.

EXPANDING CITIES – DIMINISHING SPACE

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SPECIAL FOCUS BLOCKS

Special Focus: Instrumente zur Bewertung systemischer Wirkungen von Verkehrsmaßnahmen

6. April 2018, 09:30 – 11:00, Auditorium 2

Instrumente zur Bewertung systemischer Wirkungen von Verkehrsmaßnahmen: Indikatoren für nachhaltige Entwicklung und Rebound-Risiko im Test

Veranstaltet von: Mag. Bernhard Fürst, TRAFFIX Verkehrsplanung GmbH
Dr. Sebastian Seebauer, JOANNEUM RESEARCH

Die meisten Verkehrsmaßnahmen – ob Infrastruktur, Verkehrssteuerung, Antriebstechnologien, Gesetzgebung, soziale Innovationen oder vieles mehr – bringen systemische Wirkungen mit sich. Diese Wirkungen entfalten sich oft weit über den unmittelbaren Einflussbereich der Verkehrsmaßnahme hinaus und können vielfältige unerwünschte und erwünschte Seiteneffekte auslösen.

Um verkehrs- und mobilitätspolitische Strategien, Maßnahmen und Forschungsergebnisse in Bezug auf ihre Auswirkungen auf eine nachhaltige Entwicklung beurteilen zu können, gibt es derzeit noch keine standardisierte Methode. Begriffe, Kriterien und Indikatoren, die Auswirkungen von Mobilität und Verkehr auf nachhaltige Entwicklung insgesamt definieren, liegen in Österreich noch weitgehend im Unklaren. Rebound-Effekte werden zunehmend als kritischer Faktor in Energie- und Klimastrategien diskutiert, weil sie erwartete Energie-Einsparungen nach Einführung einer energieeffizienten Innovation durch verändertes Nutzungsverhalten (über)kompensieren können.

Entscheidungsträgerinnen und Entscheidungsträger stehen daher vor der Schwierigkeit, systemische Wirkungen im Vorfeld zu erkennen, um sie gezielt zu verstärken oder abzuschwächen. Um diese Lücke zu schließen, wurden in den Projekten **SAMOA (Sustainability Assessment for Mobility in Austria)** und **REBOUND (Dynamik und Prävention von Rebound-Effekten bei Mobilitätsinnovationen)** Indikatorensysteme entwickelt. Diese Indikatorensysteme sollen eine Entscheidungsfindung durch mehr Richtungssicherheit in Bezug auf die Auswirkungen von Verkehr und Mobilität auf nachhaltige Entwicklung unterstützen und das frühzeitige Erkennen und präventive Abfedern von Seiteneffekten ermöglichen.

Im Workshop werden beide Indikatorensysteme vorgestellt und anschließend an Praxisbeispielen getestet bzw. auf ihre Praxistauglichkeit hin diskutiert. Ziel des Workshops ist einerseits die Diskussion und das Nachschärfen der Indikatorensysteme und Parameter für die Anwendbarkeit als praktische Planungswerkzeuge. Andererseits soll ein Austausch auf Augenhöhe unter Expertinnen und Experten aufzeigen, welche Erfahrungen, Risiken und Handlungsspielräume bei systemischen Wirkungen von Verkehrsmaßnahmen zu berücksichtigen sind.



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für Verkehr,
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ENTWICKLUNG



Planung & Kommunikation



CONFERENCE TIMELINE

Tuesday, 3 April 2018

Welcome Reception and Ice Breaking

Location: Campus Gusshaus (conference venue), rooftop or foyer

Welcome Address:

18:00 – 20:00

Manfred Schrenk, Conference Director
Representative of Vienna University of Technology

Snacks, drinks and networking

Limited capacity, participants are asked to confirm attendance on MY.CORP.



Wednesday, 4 April 2018

09:00 – 10:00

Come Together, Registration

Location: Campus Gusshaus, ground floor (conference venue)

10:00 – 11:00

Conference Opening, Keynote

Welcoming Words and Introduction:

Manfred Schrenk, Conference Director, Lecturer TU Wien

Gerhard Navratil, Organising Partner TU Wien

Martin Dubbeling, President-elect of ISOCARP

Keynote: Expanding Cities – Diminishing Space: Perspectives from Outer Space

Hannes Taubenböck, Deutsches Zentrum für Luft- und Raumfahrt (DLR)

11:00 – 11:30

Coffee Break

Keynote Speeches

Smart Cities and the New Urban Agenda

Rafael de Miguel González, Vice President of the European Association of Geographers

11:30 – 13:00

Cool Planning for Smart Cities, the case of New Airport – Smart Bodø

Martin Dubbeling, President-elect of ISOCARP

Expanding Cities – Diminishing Space: Will Cities Remain Liveable, Accessible, Human-Oriented Places: for Whom and How?

Judith Ryser, CityScope Europe

13:00 – 14:00

Lunch Break

14:00 – 16:00

Presentations (Parallel Sessions)

16:00 – 16:30

Coffee Break

16:30 – 18:00

Presentations (Parallel Sessions)

from 18:30

Vintage Tram Tour and Evening Reception



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CONFERENCE TIMELINE

Thursday, 5 April 2018

Presentations (Parallel Sessions) 09:00 – 10:30

Coffee Break 10:30 – 11:00

Presentations (Parallel Sessions) 11:00 – 12:45

Lunch Break 12:45 – 14:00

Presentations (Parallel Sessions) 14:00 – 16:00

Coffee Break 16:00 – 16:30

Presentations (Parallel Sessions) 16:30 – 18:00

Informal Come-Together at the Conference Venue from 18:00

Friday, 6 April 2018

Presentations (Parallel Sessions) 09:30 – 11:00

Coffee Break 11:00 – 11:30

Presentations (Parallel Sessions) 11:30 – 13:00

Lunch Break 13:00 – 14:00

Presentations (Parallel Sessions) 14:00 – 15:30

Summary, Closing Note, Final Discussion, Outlook, Farewell 15:30 – 16:00

Guided City Tour, Informal Conclusion afterwards

REVIEWER TEAM AND PROGRAMME COMMITTEE

Al-Hokail, Abdulhakeem A.; Dr.	Urban Planner, Saudi Arabia	Dhahran, Saudi Arabia
Benedikt, Josef; Dr.	Geologic Dr. Benedikt, GIS & Fuzzy Logic	Vienna, AT
Beyer, Clemens; Dipl.-Ing.	CORP – Competence Center of Urban and Regional Planning	Vienna, AT
Bogdanovic, Ruzica; Prof.	University of Belgrade, Faculty for Transport & Traffic Engineering	Belgrade, Serbia
Börner, Wolfgang; Mag.	City of Vienna, Urban Archeology Division	Vienna, AT
Broschart, Daniel; Dr.-Ing.	Stadtplanungsamt Landberg am Lech	Landberg am Lech, DE
Cabello, Maria; MSc	Trabajos Catastrales, Departamento Comercial	Sarriguren, Navarra, E
Campagna, Michele; Prof. Dr.	Università degli Studi di Cagliari	Cagliari, IT
Dallhammer, Erich; Dipl.-Ing. Dr.	ÖIR – Österreichisches Institut für Raumplanung	Vienna, AT
Dorau, Uschi; Dipl.-Ing.	Freiland Umweltconsulting ZT GmbH	Vienna, AT
Dörrzapf, Linda; Dipl.-Ing.	Vienna University of Technology, Department of Spatial Planning	Vienna, AT
Elisei, Pietro; Dr.-Ing.	Urbasofia	Bucharest, Romania
Emberger, Günter; Prof. Mag. Dr.	Vienna Univ. of Technology, Research Center of Transport Planning and Traffic Engineering	Vienna, AT
Engelke, Dirk; Prof. Dr.	Hochschule für Technik Rapperswil	Rapperswil, CH
Exner, Jan-Philipp; Dr.-Ing. MSc	Urban Planner, Architecture + Amenagement	Luxemburg
Fazekas, Stefan	Warp Innovation	Vienna, AT
Garau, Chiara; Dr.	University of Cagliari, Faculty of Architecture	Cagliari, IT
Golubovic Matic, Darinka; MSc	Urban Planner	Tallinn, Estonia
Grimm-Pretner, Dagmar; Ass. Prof. Dipl.-Ing. Dr.	University of Natural Resources and Applied Life Sciences	Vienna, AT
Hanzl, Małgorzata; PhD	Technical University of Łódź	Łódź, Poland
Hauger, Georg; Prof. Dr.	Vienna University of Technology, Department of Spatial Planning	Vienna, AT
Höhl, Wolfgang; Prof. Dr.-Ing.	University of Applied Sciences Augsburg, Faculty of Design	Augsburg, DE
Jain, Bijendra K.; Arch. PhD	City of New Delhi, Delhi Development Authority	New Delhi, India
Klementschitz, Roman; Dr.	University of Natural Resources and Applied Life Sciences	Vienna, AT
Krause, Kai Uwe; DI Dr.	Freie und Hansestadt Hamburg, Geoinformation und Vermessung	Hamburg, DE
Murgante, Beniamino; Prof. Dr.	University of Basilicata	Potenza, IT
Navratil, Gerhard; Prof. Dr.	Vienna University of Technology, Department of Geodesy and GeoInformation	Vienna, AT
Netsch, Stefan; Dipl.-Ing.	Fachhochschule Salzburg, Smart Buildings in Smart Cities	Salzburg, AT
Neuschmid, Julia; Mag.	IDC Austria	Vienna, AT
Pfaffenbichler, Paul; Dipl.-Ing. Dr.	Vienna Univ. of Technology, Research Center of Transport Planning and Traffic Engineering	Vienna, AT
Pietsch, Matthias; Dipl.-Ing.	Hochschule Anhalt – Anhalt University of Applied Sciences	Bernburg, DE
Popovich, Vasiliy V.; Prof. Dr.	Russian Academy of Sciences, SPIIRAS, Head of OOGIS Laboratory	St. Peterburg, Russia
Ryser, Judith; Arch	City Scope Europe, Urban Thinker	London, UK
Schrenk, Manfred; Dipl.-Ing.	CORP – Competence Center of Urban and Regional Planning	Schwechat, AT
Steinnocher, Klaus; Dr.	Austrian Institute of Technology, Center for Energy	Vienna, AT
Stupar, Aleksandra; Prof. Dr.	University of Belgrade, Department of Urbanism	Belgrade, Serbia
Taha, Dina; Ass. Prof. Dr.	Alexandria University, Faculty of Engineering	Alexandria, Egypt
Vaništa Lazarević, Eva;	Atelier Eva Vanista Lazarevic	Belgrade, Serbia
Wasserburger, Wolfgang W.; Dipl.-Ing.	Vienna University of Technology, Department of Geodesy and GeoInformation	Vienna, AT
Zeile, Peter; Dr.-Ing.	Karlsruhe Institute of Technology, Institute for Urban and Landscape Design STQP	Karlsruhe, DE
Živković, Ljiljana; PhD, MBA	Spatial Planner	Belgrade, Serbia

EXPANDING CITIES – DIMINISHING SPACE

Are “Smart Cities” the solution or part of the problem
of continuous urbanisation around the globe?



SCHEDULE

Wednesday, 4 April 2018

Time	
09:00-10:00	Registration, Come Together
	Auditorium 1
10:00-11:00	Welcome by Representatives of Organisers and Partners, Keynotes
	 Manfred SCHRENK Conference Director, Chairman CORP, Lecturer at TU Wien, Department of Spatial Planning
	 Gerhard NAVRATIL TU Wien, Department for Geodesy and Geoinformation, Research Group Geoinformation
	 Martin DUBBELING President-elect of ISOCARP – International Society of City and Regional Planners; The Hague, NL
	 Expanding Cities – Diminishing Space: Perspectives from Outer Space Dr. Hannes TAUBENBÖCK Deutsches Zentrum für Luft- und Raumfahrt (DLR); Weßling, Germany
11:00-11:30	Coffee Break
11:30-13:00	Keynotes
	 Smart Cities and the New Urban Agenda Dr. Rafael DE MIGUEL GONZÁLEZ Vice President of the European Association of Geographers; Wardamme, Belgium
	 Cool Planning for Smart Cities, the case of New Airport – Smart Bodø Ir. Martin DUBBELING President-elect of ISOCARP – International Society of City and Regional Planners; The Hague, Netherlands
	 Expanding Cities – Diminishing Space: Will Cities Remain Liveable, Accessible, Human-Oriented Places: for Whom and How? Arch. Judith Ryser, MSc CityScope Europe; London, United Kingdom
13:00-14:00	Lunch

SCHEDULE

Wednesday, 4 April 2018

Time	Auditorium 1	Auditorium 2
14:00- 16:00	City and Data and Technology Chair: Pietro Elisei	Raumplanung aus rechtlicher Sicht Moderation: Heidrun Wankiewicz
WEDNESDAY	<p>Crowding Density in Urban Environment and its Effects on Emotional Responding of Pedestrians: Using Wearable Device Technology with Sensors Capturing Proximity as well as Psychophysiological Emotion Responses while Walking in the Street</p> <p>Georgios PAPASTEFANOU*, Luyao XIANG**, Anna ENGELNIEDERHAMMER*</p> <p>* GESIS Leibniz Institute for the Social Sciences; Mannheim, DE</p> <p>** Chinese University of Hong Kong; Hong Kong SAR, Hong Kong SAR</p> <p>Virtual Reality and Urban Emotions – Biosensorics in the Virtual Context of Urban Planning Methods</p> <p>Peter ZEILE</p> <p>Karlsruhe Institute of Technology KIT, Institute for Urban and Landscape Design STQP; Karlsruhe, DE</p> <p>A Concept of Geo-Facts for Online Discourse in “Postfactual” Times in the Context of Spatial Planning</p> <p>Gerhard NAVRATIL*, Max HARNONCOURT**</p> <p>* TU Wien, Department for Geodesy and Geoinformation; Vienna, AT</p> <p>** factline Webservices GmbH; Vienna, AT</p> <p>New Enabling Technologies to Observe and Characterise Urban Environments with Big Data from Space – the Urban Thematic Exploitation Platform</p> <p>Thomas ESCH*, Mattia MARCONCINI*, Julian ZEIDLER*, Jakub BALHAR**, Martin BÖTTCHER***, Enguerran BOISSIER****, Emmanuel MATHOT****, Václav SVATON*****, Daniela PALACIOS*</p> <p>* German Aerospace Center (DLR); Weßling, DE</p> <p>** GISAT s.r.o; Prague, CZ</p> <p>*** Brockmann Consult GmbH; Geesthacht, DE</p> <p>**** Terradue Srl; Frascati, IT</p> <p>***** VSB-Technical University of Ostrava; Ostrava, CZ</p>	<p>Verstärken Liberalisierung und Deregulierung die räumlichen Disparitäten zwischen Stadt und Land? Eine Fallstudie zum Südtiroler Einzelhandel im Kontext der Liberalisierungsgesetze ab 2012</p> <p>Thomas WIELAND</p> <p>Karlsruher Institut für Technologie, Institut für Geographie und Geoökologie; Karlsruhe, DE</p> <p>Salzburger Raumordnungsgesetz und Landesentwicklungsprogramm Neu: Bodenpolitische Wende und Planungsinnovation oder alter Wein in neuen Schläuchen?</p> <p>Franz DOLLINGER*, Heidrun WANKIEWICZ**, Andreas FACKLER***</p> <p>* Land Salzburg, Wohnen und Raumplanung; Salzburg, AT</p> <p>** Planwind.at; Salzburg, AT</p> <p>*** Profilentwicklung.at; Salzburg, AT</p> <p>Vorübergehende Einrichtungen zur Unterbringung von Personen: Ausnahmen von bau- und planungsrechtlichen Bestimmungen zur Unterbringung Geflüchteter</p> <p>Karin HILTGARTNER</p> <p>TU Wien, Department für Raumplanung; Vienna, AT</p>
THURSDAY		
FRIDAY		
16:00- 16:30	Coffee Break	

EXPANDING CITIES – DIMINISHING SPACE

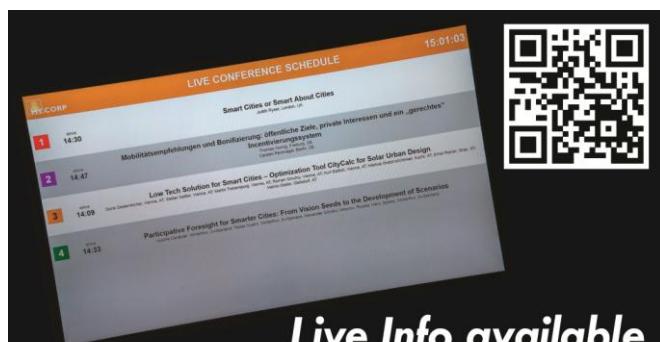
Are “Smart Cities” the solution or part of the problem of continuous urbanisation around the globe?



SCHEDULE

Wednesday, 4 April 2018

Auditorium 3		Time
Planning Smart Mobility Chair: Gerhard Navratil		14:00-16:00
<p>Trophy Towards a more Liveable and Accessible Cycle Path Network in Padova: a Participatory Mapping Process</p> <p>Daniele CODATO*, Diego MALACARNE**, Guglielmo PRISTERI**, Salvatore PAPPALARDO**, Massimo DE MARCHI**</p> <p>* Department of Civil, Environmental and Architectural Engineering, Department of Civil, Environmental and Architectural Engineering; Padova, Italy ** University of Padova, Department of Civil, Environmental and Architectural Engineering; Padova, Italy</p> <p>ESPRIT – a Public Car System</p> <p>William RENDALL*, Robert STÜSSI**, Valery CERVANTES***, Richard MOUNCE****</p> <p>* ESPRIT project, Advisory Board; Puerto del Carmen, Spain ** ESPRIT project, Advisory Board member; Lisbon, Portugal *** CEA, Commissariat à l'énergie atomique et aux énergies alternatives, LITEN; Grenoble, France **** University of Aberdeen, Centre for Transport Research; Aberdeen, UK</p> <p>Trophy Exploring the Applicability of Location Based Services to Delineate the State Public Transport Routes Integratedness within the City of Johannesburg</p> <p>Brightnes RISIMATI, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Doornfontein, South Africa</p> <p>ISTmobil: Customer Needs Orientated, Individual Mobility Services in Suburban Areas (Individual Mobility as a Service)</p> <p>Thomas SAGER, Alexander FÜRDÖS, Stefan BRUNNER, Alexander M. STIASNY ISTmobil GmbH; Graz, AT</p>		
		16:00-16:30

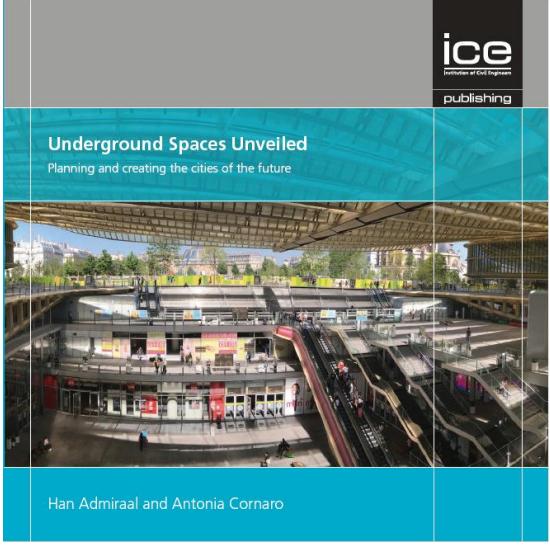


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SCHEDULE

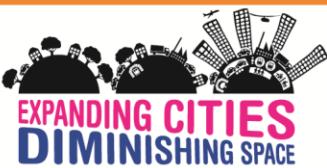
Wednesday, 4 April 2018

Time	Auditorium 1	Auditorium 2
16:30- 18:00	Book Presentation Antonia Cornaro, Han Admiraal	Stadt, Land, Dorf Moderation: Maria Wasserburger
WEDNESDAY	 <p>Underground Spaces Unveiled Planning and creating the cities of the future</p> <p>Han Admiraal and Antonia Cornaro</p> <p>Urban planners and decision makers are facing numerous challenges as cities worldwide rapidly expand, and urban space diminishes by the day. This results in an ever-increasing demand for space. Consequently, many concepts are being studied and implemented to mitigate the effects on the urban environment. At the same time, climate change requires a new kind of urban resilience and mitigation through a disconnect from fossil fuels and excessive carbon production. To achieve this, we need a new fundamental understanding of the urban metabolism which for now remains hidden. Understanding contemporary city life requires us to reconnect the biophysical and social domains. It also requires an in-depth knowledge of the subsurface metabolism that is an integral part of the urban metabolism. In their book 'Underground Spaces Unveiled' this is just one of the topics that Han Admiraal and Antonia Cornaro discuss.</p>  	<p>Land oder Stadt, das ist die Entscheidung einer persönlichen Raumplanung Karl NIEMANN ALLPHANET; Düsseldorf, DE</p> <p>Mittelstädte als Stabilisatoren ländlich-peripherer Räume Elke RIES Technische Universität Kaiserslautern, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE</p> <p>Dorf Neu Denken. Ein Konzept zur räumlichen Strukturierung von Dörfern im Zeitalter der Digitalisierung für wachsende Regionen in Mitteleuropa Jeff MIRKES, Peter ZEILE, Markus NEPPL Karlsruher Institut für Technologie (KIT), Stadtquartiersplanung (STQP); Karlsruhe, DE</p>
from 18:30	Vintage tram tour and official evening reception	

What's coming up next?
Our live conference guide
<http://live.corp.at>
has the answer

EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Wednesday, 4 April 2018

Auditorium 3		Time
Innovative Planning Concepts Chair: Izabela Mironowicz	Impressions from REAL CORP vintage tram tour 2017	16:30-18:00
<p>Large Housing Estates – Analysing the Morphologic Similarities and Differences of a Specific Town Planning Concept Hannes TAUBENBÖCK, Manuel MURAWSKI, Michael WURM German Aerospace Center, German Remote Sensing Data Center; Wessling, DE</p> <p>The Inclusive Role of Ekistics Elements in Earmarking Innovation Zones through a Balanced Distribution of Smart Development and Local Expression: Case of Kolkata Metropolitan Area (KMA) Prerna MANDAL, Joy SEN Indian Institute of Technology Kharagpur, Department of Architecture and Regional Planning; Kharagpur, India</p> <p>City of the Future Ludwigsburg: Co-Creation in Urban Development Processes Constanze HEYDKAMP, Sven DÜBNER, Nora FANDERL Fraunhofer Institute for Industrial Engineering IAO; Stuttgart, DE</p> <p>From Sustainable Cities to Sustainable People – Making Behaviour Change towards Sustainability a Priority in Urban Planning Processes Petra STIENINGER HURTADO Urban Breezes; Chicago, IL, USA</p> <p>A Spatial Regulation Planning Method for Eco-Problems in Dense Areas of Mega City: A Case Study of Guangzhou, China Xiaohui LI, Jie WU, Jianjun WANG, Xinzha DAI, Weixiao NIE, Nao LONG Guangzhou Urban Planning & Design Survey Research Institution, Urban Planning Research Center; Guangzhou, China</p>	  	
	Photos by CORP Association and Jacqueline Reberschak.	from 18:30

SCHEDULE

Thursday, 5 April 2018

Time	Auditorium 1	Auditorium 2
09:00- 10:30	Promoting Active Mobility: From Research into Practice Chair: Roland Hackl	Stadträume erforschen Moderation: Wolfgang W. Wasserburger
	SPECIAL FOCUS	
	active2work – Reorganising Working Time Regulations to Encourage a Modal Shift towards Active Modes in Work-Related Mobility Marlene HAWELKA tbw research; Vienna, AT	 Angsträume und Stressempfinden im urbanen Kontext Fabian SCHLOSSER*, Peter ZEILE** * TU Dortmund; Dortmund, DE ** Karlsruher Institut für Technologie KIT, Stadtquartiersplanung STQP; Karlsruhe, DE
	Introducing Evidence-based Methods in Active Mobility Planning – or how to ACTIV8 Local Potentials Clemens RAFFLER tbw research, Vienna; AT	 Automatisierte Detektion von Angsträumen und ihre Auswirkungen auf die nachhaltige Stadtentwicklung Thorsten KELM, Annette BECKER, Ulrike KLEIN Hochschule Bochum, Fachbereich Geodäsie; Bochum, DE
	Supporting Decision Makers in Local Transport Planning by means of a Bike Affinity Index Susanne WOLF-EBERL, Patrick POSCH Research&Data Competence OG; Vienna, AT	 Menschen mit Demenz – unterwegs im öffentlichen Raum. Situationen und Unterstützungsmöglichkeiten Bente KNOLL*, Birgit HOFLEITNER*, Elisabeth REITINGER**, Barbara PICHLER**, Barbara EGGER** * B-NK GmbH Büro für nachhaltige Kompetenz; Wien, AT ** IFF – Institut für Palliative Care und Organisationsethik, Universität Klagenfurt, Wien, Graz ; Wien, AT
	Increasing Cycling Shares by Cycling Promotion in Local Communities – Promising Initiatives and Measure Implementation Sebastian REINBERG komobile GmbH; Gmunden, AT	WAY-KEY – smarter Mobilitätsassistent für Menschen mit Demenzerkrankung Clemens BEYER, Wolfgang W. WASSERBURGER Accessible Map Association; Vienna, AT
10:30- 11:00	Coffee Break	



EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Thursday, 5 April 2018

Auditorium 3		Time
Urban Energy Chair: Petra Hirschler		09:00- 10:30
DESENT: Smart Decision Support System for Urban Energy and Transportation Evelyn HUMMER*, Thomas NACHT*, Isabella KOLB-STÖGERER**, Dujuan YANG*** * Award Energy Research GmbH; Graz, AT ** Reiterer & Scherling GmbH; Vorau, AT *** Technische Universiteit Eindhoven; MB Eindhoven, NL		
Innovative Approaches to Integrative Energy Planning – Experiences and Results from the EU Project Urban Learning Ute GIGLER*, Herbert HEMIS** * Urban Innovation Vienna GmbH, Energy Center; Wien, AT ** Stadt Wien, MA20 Energieplanung; Wien, AT		
Mitigation of Greenhouse Gas Emissions from Urban Environmental Infrastructures Daeseung KYUNG, Sunghee LEE, Jongkon KIM Korea Land & Housing Institute, Urban Management; Daejeon, South Korea		
 http://live.corp.at LIVE CONFERENCE GUIDE	Photos by CORP Association and Jacqueline Reberschak.	10:30- 11:00

SCHEDULE

Thursday, 5 April 2018

Time	Auditorium 1	Auditorium 2
11:00-12:45	ISOCARP Next City Seminar Chaired by ISOCARP	Smarte Stadtteile Moderation: Petra Hirschler
	SPECIAL FOCUS	
	Introduction Martin DUBBELING President-elect of ISOCARP – International Society of City and Regional Planners; The Hague, NL	Urban Relations – über die Bedeutung der Beziehungsebene in der Stadt(teil)entwicklung Barbara HAMMERL, Elisabeth OSWALD, Nana PÖTSCH StadtLABOR Innovationen für urbane Lebensqualität GmbH; Graz, AT
	New Airport – Smart Bodø Kristoffer Larsen SEIVÅG, Mats MARTHINUSSEN City of Bodø, Norway	Typologisierung der Headquarters in Wien im Hinblick auf die Nachhaltigkeit Andreas BREINBAUER, Sandra EITLER FH d. BFI Wien, Logistik & Transportmanagemet; Wien, AT
	On Underground Space Elizabeth REYNOLDS Urben, Director; London, UK	Smart Cities – bekannte Förderungen unter neuem Namen? Stefan NETSCH, Markus KARNUTSCH Salzburg University of Applied Sciences, Smart Buildings in Smart Cities SMC; Kuchl, AT
	Smart City White Paper Daniele VETTORATO EURAC Research; Bozen, Italy	SmartUP: Entwicklung eines Zentrums für Nachhaltigkeit Barbara HAMMERL*, Berthold SCHLEICH**, Ulrike KABOSCH***, Heimo STALLER****, Anna Maria FULTERER****, Martina KORNTHALER*****, Hans SCHNITZER*, Gosia STAWECKA* * StadtLABOR Innovationen für urbane Lebensqualität GmbH; Graz, AT ** ÖKO-Service Beschäftigungsg.m.b.H.; Graz, AT *** ARGE Abfallvermeidung, Ressourcenschonung und nachhaltige Entwicklung GmbH; Graz, AT **** AEE – Inst. f. nachhaltige Technologien; Gleisdorf, AT ***** Saubermacher Dienstl. AG; Feldkirchen b. Graz, AT
	afterwards Conclusion, Summary, Discussion	Regionalpark Murauen – ressourcenschonende, anrainergerechte Naherholung in wachsenden Stadtregionen Uschi DORAU*, Brigitte GRIESSE*, Johannes LEITNER**, Barbara KOINEGG**, Hans-Jörg RADERBAUER* * freiland Environmental Consulting Civil Engineers Ltd.; Vienna/Graz, AT ** PLANUM Fallast Tischler & Partner GmbH; Graz, AT
12:45-14:00	Lunch Break	



ISOCARP
 Knowledge for Better Cities

EXPANDING CITIES – DIMINISHING SPACE

Are “Smart Cities” the solution or part of the problem of continuous urbanisation around the globe?



SCHEDULE

Thursday, 5 April 2018

Auditorium 3		Time
Smart Cities and Smart Data Chair: Pietro Elisei		11:00-12:45
Smart Cities and (Geo-)Data Infrastructure Manfred SCHRENK CORP – Consulting Research Projects, CEO; Schwechat, AT		
Geo-referenced Internet of Things for Modern Cities Nataly ZHUKOVA, Mark ZASLAVSKIY Saint Petersburg, Russia	54th ISOCARP Congress, Bodø, Norway, 1-5 October 2018 On this warming planet, with its population more than 50 % urban, we urgently need cooler cities and towns. And good urban planning can help deliver them. The aim of ISOCARP's 54 th Annual Congress is no small feat: the Society is calling on the best and brightest of the planning profession to come to Bodø, Norway and tell us how to save civilisation. Nothing less. We believe the future of civilisation now more than ever depends on the way we plan and manage our cities and towns. Their role in the evolving planetary climate drama is three-fold – cities and towns are the villains; the victims, and the potential saviours. Villains – because urban areas are the principal consumers and polluters of the tiny habitable layer on our planet we call the ‘biosphere’. Victims – because more than half of humanity lives in urban areas, and almost all of them are exposed to some form of climate impact. Saviours – because the possible remedies and solutions can be applied efficiently, effectively and in time, only when populations are concentrated. So the root cause of, and the solution to, the global climate crisis are fundamentally urban. There is no alternative. On a warming planet, cooler cities are the only option.	
Megacities Spatiotemporal Dynamics Monitored with the Global Human Settlement Layer Michele MELCHIORRI*, Aneta FLORCZYK**, Sergio FREIRE**, Daniele EHRLICH**, Marcello SCHIAVINA**, Martino PESARESI**, Thomas KEMPER** * Piksel- EC JRC, Disaster Risk Management Unit; Ispra, Italy ** European Commission – Joint Research Centre; Ispra, Italy	Professor Dushko Bogunovich Congress General Rapporteur 2018 https://isocarp.org/2018congress/	12:45-14:00

WEDNESDAY

THURSDAY FRIDAY

SCHEDULE

Thursday, 5 April 2018

WEDNESDAY

THURSDAY

FRIDAY

Time	Auditorium 1	Auditorium 2
14:00- 16:00	Smart Living Chair: Judith Ryser	Mehr aus der Stadt machen Moderation: Alexander Ghezzo
	🏆 City of the Future Constance: „Future City“ – Quality instead of Square Meter Sven DÜBNER*, Lukas ESPER** * Fraunhofer Institute for Industrial Engineering IAO, Urban Data & Resilience; Stuttgart, DE ** City of Constance, Amt für Stadtplanung und Umwelt Konstanz; Constance, DE	PODIUMSDISKUSSION
	Smart Occupancy – How to Avoid City Expansion by High-Density Use of Existing Buildings Dietmar WIEGAND*, Siegfried WIRTH** * Vienna University of Technology (TU Wien), Real Estate Development and Management; Vienna, AT ** Unternehmensberatung Mag. Siegfried Wirth; Vienna, AT	Mehr aus der Stadt machen: Was die Immobilienwirtschaft zu einer smarteren, schöneren, lebenswerteren Stadt beitragen kann und was sie dafür braucht Die Herausforderung ist groß: Auf den begrenzten Räumen der modernen Städte leben, arbeiten, kaufen und bewegen sich Millionen von Menschen. Die Ressource Boden wird zu einer kaum leistbaren Angelegenheit, Wohnungen gibt es nie genug, die Straßen verstopfen sich und gleichzeitig steigen Lebenserwartung und Anspruch der Stadtbewohner zusehends.
	🏆 Non-profit Housing: Current Trends in the European Context and its Specific Value for the Inward Urban Development in Switzerland Roman STREIT ETH Zürich, Professur für Raumentwicklung; Zürich, CH	Die Immobilienbranche profitiert von der Anziehungskraft der Städte und von dem vielen Geld, das angelegt werden will. Aber sie trägt auch eine große Verantwortung für das Stadtbild und die Möglichkeiten des Wohnens, Arbeitens und für die Versorgungsmöglichkeiten. Wie die Immobilienbranche sich dieser Verantwortung stellt, welche Gedanken sie sich dazu macht und wie die konkreten Pläne aussehen, wird auf dieser Podiumsdiskussion besprochen.
	How Do We Live Skender KOSUMI TU Wien, Department of Spatial Planning; Wien, AT	Es diskutieren: Marc Guido Höhne, Drees & Sommer Claudia Nutz Michael Pech, ÖSW Klaus Wolfinger Silvia Wustinger-Renezeder, 6B47
16:00 16:30	Coffee Break	

EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Thursday, 5 April 2018

Auditorium 3		Time
Expansion of the Internet, Big Data Chair: Gerhard Navratil		14:00-16:00
<p>Smartphone and Mobile Territories - Technical Knowledge Transformed into an Object Producing New Territorial Layers: An Experience in the City of Strasbourg Esin EKIZOGLU*, Elizabeth MORTAMAIIS** * Université Paris Diderot- Ecole Nationale Supérieure Paris Val de Seine, Laboratory ICT- laboratory EVCAU; Strasbourg, France ** Ecole Nationale Supérieure Paris Val de Seine, Laboratory EVCAU; Paris, France</p> <p>Method of Open Data Import and Analysis for Internet of Things Applications Based on Geocontext Markup Mark ZASLAVSKIY*, Dmitry MOUROMTSEV** * ITMO University; Saint-Petersburg, Russian Federation ** Saint-Petersburg, Russian Federation</p> <p>Big Data and Knowledge-based Urban System in Tehran Vahide EBRAHIMNIA*, Asrin MAHMOUDPOUR** * Shahid Beheshti University, Urban & Regional Planning; Tehran, Iran ** Art University of Tehran, Urban & Regional Planning ; Tehran, Iran</p> <p>A Framework of Machine Learning Algorithms for Urban Data Intelligent Processing Man TIANXING, Nataly ZHUKOVA St. Petersburg, Russia</p> <p>Defining Economic Typologies based on an Economic Activities Database Federico GIARETTA*, Jan ZAMAN**, Inge PENNINCX**, Sophie DE MULDER** * Architecture Workroom Brussels; Brussels, Belgium ** Vlaamse overheid , Departement Omgeving ; Brussels, Belgium</p>	<p>REAL CORP CONFERENCE PROCEEDINGS</p> <p>Unlike many other conferences, every single conference paper since the very beginning in 1996 is available for free download on corp.at. Nevertheless, for every year, all papers presented on the conference are published in the REAL CORP proceedings which are available</p> <ul style="list-style-type: none"> • on CD-ROM (distributed at the conference and also for sale on corp.at) • as printed version since 2006 (book on demand) • for download from our website <p>We offer you a convenient paper search engine where you can</p> <ul style="list-style-type: none"> • search by author (including co-authors) • search by publication year • search by paper title • or make a full text search through the whole paper database <p>to find each single paper since 1996!</p> <p>REAL CORP proceedings have individual ISBN for each conference year and are also listed in the ISSN register: ISSN 2521-3938 (Online), ISSN 2521-392X (Print), ISSN 2521-8050 (CD-ROM).</p> <p>To order a print-on-demand hardcopy of the proceedings, please send an e-mail to office@corp.at.</p>	16:00-16:30

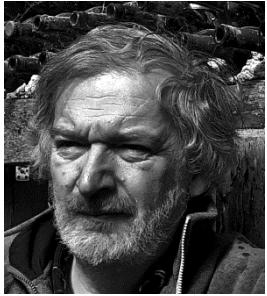
SCHEDULE

Thursday, 5 April 2018

WEDNESDAY

THURSDAY

FRIDAY

Time	Auditorium 1	Auditorium 2
16:30- 18:00	On Buildings Chair: Ljiljana Živković	Gaia in Colours Moderation: Franz Nahrada
	 An Automated Verification Workflow for Planned Lighting Setups using BIM Andreas WALCH*, Katharina KRÖSL*, Christian LUKSCH*, Thomas PIPP**, David PICHLER**, Michael SCHWÄRZLER*** * VRVis Research Center, Semantic Modelling and Acquisition Group; Wien, AT ** ÖBB-Immobilienmanagement GmbH; Wien, AT *** VRVis Research Center, Area Smart Worlds; Wien, AT	SPECIAL FOCUS Gaia in Colours Densification and Expansion of the Urban within the Natural
from 18:00	Urban Parterre Modelling UPM: Lifting the Cadastral Map to the Third Dimension Angelika PSENNER, Klaus KODYDEK TU Wien, Institut für Städtebau, Landschaftsarchitektur und Entwerfen; Wien, AT	 Im Jahr 2170 hat dieser Planet eine Transformation erfahren, die die Elemente der ökologischen Landschaftsgestaltung und der Stadtgestaltung verschmelzen hat lassen. Die Oberfläche dieses Planeten kündet von einem neuen Zusammenwirken von Mensch und Natur.
	 GIS-BIM Interoperability for Regeneration of Transurban Areas Davide BARBATO, Guglielmo PRISTERI, Massimo DE MARCHI University of Padova, Department of Civil, Environmental and Architectural Engineering; Padova, Italy	Statt uns in die Megacities zurückzuziehen, sind wir alle Gärtner geworden – aber durchaus nicht ohne gewisse urbane Errungenschaften mitzunehmen. Wir leben zumeist in verdichteten kleinstadtartigen Umgebungen in verschiedensten Gestalten, die von mehr oder weniger konzentrischen Ringen intensiv und extensiv bewirtschafteter Kulturlandschaft umgeben sind und auch von Bereichen die dem menschlichen Eingriff entzogen sind.
	Reintroduction of the Building Code for Canton Sarajevo as a Prerequisite of Urban Planning and Urban Management in the Cantonal Transformation Process Edib URUCI*, Thomas DILLINGER*, Natasa PELJA TABORI**, Damir LUKIC** * TU Wien, Department for Spatial Planning; Vienna, AT ** Canton Sarajevo Office for Planning Development, Planning Development Department; Sarajevo, BiH	Obwohl uns alle möglichen modular verbundenen Verkehrsmittel zur Verfügung stehen, ist der Fußgänger wieder zum Maß aller Dinge geworden. Unsere Städte und Dörfer drücken verstärkt kulturelle Diversität aus. Wir haben Raum zur Entfaltung gewonnen, weil wir Städte als Organismen, als gigantische Pflanzen, die uns Schutz und Nahrung bieten, zu gestalten gelernt haben.
	Informal Get-Together at the conference venue (snacks, drinks, networking)	

EXPANDING CITIES – DIMINISHING SPACE

Are “Smart Cities” the solution or part of the problem of continuous urbanisation around the globe?



SCHEDULE

Thursday, 5 April 2018

Auditorium 3		Time
Urban Spaces Chair: Pietro Elisei		16:30-18:00
Urban Green and Open Spaces under Pressure: The Potential of Ecosystem Services Supply and Demand Analysis for Mediating Planning Processes in the Context of Climate Change Nina KIESE, Christoph MAGER Karlsruher Institut für Technologie, Institut für Geographie und Geoökologie; Karlsruhe, DE		
Climate-fit.city Online Analytical Platform Needs Barbara VOJVODIKOVA, Petra SOBANOVA, Iva TICHA, Natalie SZELIGOVA IURS – Institute for Sustainable Development of Settlements; Ostrava Poruba, Czech Republic	<p>Concluding Remarks (2)</p> <p>Five year strategic plan for sustainable LA includes:</p> <ul style="list-style-type: none"> Finalization of the certification process (first level of land registration process) Cadastral surveying (second level) Review and preparation of a legal framework and the digitalisation of land records Development of a strategic master plan for the nation and of local development maps Strengthening of existing land administration organs and implementation of new ones <p>13. Sept. 2017 Navratil, Mansberger, CORP'17 TU Berlin</p>	
🏆 TDR Approach Employment in Dealing with Metropolitan Area's Sprawl; Isfahan Metropolitan Area, District 9 Sahar NEDAE TOUSI*, Bahareh HARDANI*, Ehsan GHORBANI GHESHGHAEE NEJHAD** * Shahid Beheshti University, Urban and Regional Planning; Tehran, Iran ** Isfahan Art University, Isfahan Art University; Tehran, Iran		
🏆 The Challenging Path to a Redistribution of Space – Renegotiating Urban Mobility Carolin SCHROEDER, Gabriele WENDORF TU Berlin, Zentrum Technik & Gesellschaft; Berlin, DE		
Inner Courtyards as Public Open Spaces László JÓNA HAS Centre for Economic and Regional Studies Institute for Regional Studies, West-Hungarian Research Department; Győr, Hungary		
	Photos by CORP Association and Jacqueline Reberschak.	
		from 18:00

SCHEDULE

Friday, 6 April 2018

Time	Auditorium 1	Auditorium 2
09:30- 11:00	Mobility of the Future Chair: Astrid Gühnemann	Instrumente zur Bewertung systemischer Wirkungen von Verkehrsmaßnahmen Moderation: Bernhard Fürst, Sebastian Seebauer
WEDNESDAY	<p>🏆 Proactive Spatial Planning in Regard to a new Regional Mobility Hub – the case of Ebreichsdorf Thomas DILLINGER, Markus NEUHAUS TU Wien, Department für Raumplanung; Wien, AT</p> <p>🏆 Examining the Role of Public Transport Interchange Hubs in Supportive Public Transport Integration in City of Johannesburg Brightnes RISIMATI, Trynos GUMBO University of Johannesburg, Town and Regional Planning; Doornfontein, South Africa</p> <p>🏆 On the Development of a Sustainable and Fit for the Future Transportation Network Karin MARKVICA*, Matthias PRANDTSTETTER*, Bin HU*, Jürgen ZAJICEK*, Claudia BERKOWITSCH**, Georg HAUGER**, Sarah PFOSER***, Thomas BERGER***, Sandra EITLER****, Reinhold SCHODL****, Bernhard ENNSER****, Andreas BREINBAUER****</p> <p>* AIT Austrian Institute of Technology GmbH, Center for Mobility Systems; Vienna, AT ** Vienna University of Technology, Centre of Transportation System Planning; Vienna, AT *** University of Applied Sciences Upper Austria Steyr; Steyr, AT **** University of Applied Sciences BFI Vienna; Vienna, AT</p> <p>Identifying Spatial Planning Gaps in Kenyan Railway Projects Raphael KAZUNGU*, Judith GITAU**, Philomena WANJIRU**</p> <p>* Nairobi City County Government; Nairobi, Kenya ** Nairobi City County Government, Urban Planning; Nairobi, Kenya</p>	<p>SPECIAL FOCUS</p> <p>Instrumente zur Bewertung systemischer Wirkungen von Verkehrsmaßnahmen: Indikatoren für nachhaltige Entwicklung und Rebound-Risiko im Test</p> <p>Mitwirkende:</p> <p>Bernhard Fürst TRAFFIX Verkehrsplanung GmbH; Wien, AT</p> <p>Efa Doringer PlanSinn Planung & Kommunikation GmbH; Wien, AT</p> <p>Johannes Broßmann PlanSinn Planung & Kommunikation GmbH; Wien, AT</p> <p>Sebastian Seebauer Joanneum Research Forschungsgesellschaft mbH, LIFE – Zentrum für Klima, Energie und Gesellschaft; Graz, AT</p> <p>Linda Dörrzapf Technische Universität Wien, Fachbereich für Verkehrssystemplanung; Wien, AT (geplant)</p> <p>Aggelos Soteropoulos Technische Universität Wien, Fachbereich für Verkehrssystemplanung; Wien, AT</p>
11:00- 11:30	Coffee Break	

EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Friday, 6 April 2018

Auditorium 3		Time
Case Studies from Europe and Beyond Chair: Ljiljana Živković		09:30-11:00
Urban Planning in Bosnia and Herzegovina Rahman NURKOVIĆ University of Sarajevo, Faculty of Science, Geography; Sarajevo, Bosnia and Herzegovina	 REAL CORP CONFERENCE PROCEEDINGS <ul style="list-style-type: none"> ONLINE (free of charge, all papers since first CORP in 1996, full text search): http://www.corp.at PRINT ON DEMAND (order via our website www.corp.at) CD-ROM (part of your conference package) OPEN ACCESS REPOSITORY: http://repository.corp.at  Conference proceedings, programm folders, conference photos, video trailers, ...	
Connecting Tourism Specialisations and Excellent Agro-Food Productions as Effective Development Drivers in the Mediterranean Area: INNOVAGRO Project Beniamino MURGANTE, Lucia SAGANEITI University of Basilicata, School of Engineering; Potenza, Italy	ATTRACTIVE DANUBE Project – Territorial Attractiveness Analysis of the Danube Region Ljiljana ZIVKOVIC*, Blaž BARBORIČ** * Belgrade, Serbia ** Geodetic Institute of Slovenia; Ljubljana, Slovenia	Planning for Urban Quality in Station Area Development, Bijwasan, New Delhi Chhavi ARYA*, Peter ZEILE**, Prerna SUDAN*** * Karlsruher Institut für Technologie – KIT; Karlsruhe, DE ** Karlsruher Institut für Technologie, Stadtquartiersplanung STQP; Karlsruhe, DE *** Raj Rishi College; Alwar, India



SCHEDULE

Friday, 6 April 2018

Time	Auditorium 1	Auditorium 2
11:30- 13:00	On Sprawl and Shrinkage Chair: Uschi Dorau	Innovative Stadt- und Siedlungsentwicklung Chair: Stefan Netsch
WEDNESDAY	<p>What is Urban Sprawl in Flanders? Karolien VERMEIREN*, Lien POELMANS*, Guy ENGELEN*, Isabelle LORIS**, Ann PISMAN** * Flemish Institute for Technological Research, environmental modelling; Mol, Belgium ** Flemish government, environment; Brussel, Belgium</p> <p>Driving Factors of Urban Expansion in Peri-Urban Areas of Greater Cairo Region Muhammad Salem Said MUHAMMAD, Naoki TSURUSAKI, Prasanna DIVIGALPITIYA Kyushu University, Department Of Urban Design, Planning And Disaster Management; Fukuoka, Japan</p> <p>Planning Smart Shrinkage – The New Perspective for Livability in Historic Cities Sarmite BARVIKA, Sandra TREIJA Riga Technical University, Faculty of Architecture; Riga, Latvia</p> <p>Assessing Expanding Space Use versus Infill for Economic Activities Wesley GRUIJTHUISEN*, Therese STEENBERGHEN*, Dominique VANNESTE **, Jan ZAMAN***, Inge PENNINCX***, Sophie DE MULDER ***, Koen VERMOESEN****, Eline HOREMANS**** * KU Leuven, SADL, Geography and tourism Division; Heverlee, Belgium ** KU Leuven, Geography and tourism Division; Heverlee, Belgium *** Environment Department Flanders; Brussels, Belgium **** Department Innovation and business; Brussels, Belgium</p> <p>About the Transition to an Eco-Compatible Society: the Example of Urban Spread Oliver LEFEBVRE Olivier Lefebvre Consultant; Paris, France</p>	<p>„Stadt-Raum-Strategien“: Innovationsfelder für resiliente Stadtentwicklung Susanne STECKERL Stadtgemeinde Leonding, Leitung Standortmarketing, Stadtentwicklung; Leonding, AT</p> <p>Strategien für Regionen mit Bevölkerungsrückgang Manfred RIEDL Amt der Tiroler Landesregierung, Landesstatistik und TIRIS; Innsbruck, AT</p> <p>Steuerung der Siedlungsflächen-entwicklung auf dem Prüfstand – kompakte, umweltverträgliche Siedlungsstrukturen im regionalen Kontext: Traum oder Wirklichkeit? Nina WAHRHUSEN, Kirsten MANGELS Technische Universität Kaiserslautern, Lehrstuhl Regionalentwicklung und Raumordnung; Kaiserslautern, DE</p> <p>Alte Idee, neu gedacht: Grünraumspange Bisamberg – Gerasdorf – Norbert-Scheid-Wald Martina JAUSCHNEG*, Christina STOCKINGER** * Büro Jauschneg; Wien, AT ** Magistrat der Stadt Wien, MA 18 Stadtentwicklung und Stadtplanung; Wien, Österreich</p>
13:00- 14:00	Lunch Break	

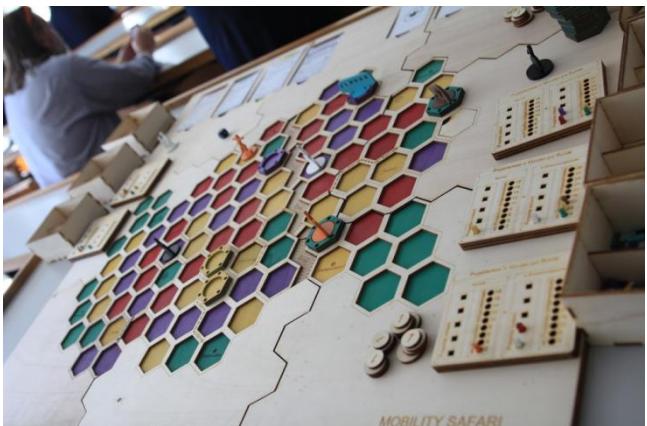
EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Friday, 6 April 2018

Auditorium 3		Time
Revival of the Countryside Chair: Pietro Elisei		11:30-13:00
<p>Rural Revival Financing in Serbia: Kikinda Municipality Case Study</p> <p>Danilo S. FURUNDZIC*, Bozidar FURUNDZIC**, Dragana IVANIS***, Dijana JAKSIC-KIURSKI***, Ivana PETROVIC***</p> <p>* University of Belgrade, Faculty of Architecture; Belgrade, Serbia ** CPM Consulting; Belgrade, Serbia *** JP Kikinda; Kikinda, Serbia</p> <p>Agro-Cities as a Way to Counteract Urban Poverty</p> <p>Pietro ELISEI*, Sabina LEOPA**, Renata LOPEZ***, Agostino DI LORENZO****, Roberto GERUNDO*****</p> <p>* EC UIA Programme International Expert; Bucharest, Romania ** Urbasofia, EU Projects Department- Director; Bucharest, Romania *** Pozzuoli, Italy **** Municipality of Pozzuoli, UIA MAC Project Manager ; Pozzuoli, Italy ***** Municipality of Pozzuoli, Planning Commissioner (Vice Mayor for Urban Planning); Pozzuoli, Italy</p> <p>The Future of the Countryside</p> <p>Carlos H BETANCOURTH Eptisa, Smart Cities; Barcelona, Spain</p>	  	
		13:00-14:00

SCHEDULE

Friday, 6 April 2018

WEDNESDAY

THURSDAY

FRIDAY

Time	Auditorium 1	Auditorium 2
14:00- 15:30	The Quality of Urban Design Chair: Stefan Nesch	Moderne Mobilität Chair: Gerhard Navratil
	 A Socio-ecological Approach to Assessing Physical Activities in Public Open Spaces of Alexandria City, Egypt Esraa EL MASHAK*, Rania RASLAN**, Hany AYAD** * Faculty of Engineering , Alexandria university, Architecture and urban design; Alexandria, Egypt ** Faculty of Engineering /Alexandria University, Architectural Department; Alexandria, Egypt LOOPER: Towards a Methodology of Co-Design Approaches Mareile WIEGMANN, Imre KESERU, Cathy MACHARIS Vrije Universiteit Brussel, MOBI Research Group - Sustainable Mobility; Brussel, Belgium A Critical Review of the Child-friendly Cities Initiative from an Urban Design Perspective Sherin GAMMAZ, Sara MOUSTAFA GOUDA Cairo University, Faculty of Engineering, Architectural; Cairo, Egypt The Challenge of Quality of Life in New Urban Development Shabnam FARBOUD Tehran, Iran	 Integrativer Infrastrukturausbau im städtischen Raum – Entwicklungschancen durch moderne Mobilität Hans KORDINA, Bettina RIEDMANN Kordina ZT GmbH; Wien, AT  Räumliche Differenzierung des ÖPNV-Modalsplits zur Integration in die Standortbetrachtung für Ladeinfrastrukturen Waldemar BROST, Teresa FUNKE, Michael LEMBACH RWTH Aachen University, Institut für Städtebauwesen und Stadtverkehr; Aachen, DE  Entwicklung eines verkehrsbezogenen und bewusstseinsbildenden Multimodalitätstools für ländliche Räume Alessandra ANGELINI*, Georg HAUGER**, Alexander NEUMANN*** * Technische Universität Wien, Center of Transportation System Planning; Vienna, AT ** Technische Universität Wien, Center of Transportation System Planning; Wien, AT *** netwiss OG; Wien, AT
15:30- 16:00	Auditorium 1 Summary, Final Discussion, Outlook, Farewell	
from 16:00	Guided city tour (limited capacity, registration on MY.CORP necessary)	

EXPANDING CITIES – DIMINISHING SPACE

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SCHEDULE

Friday, 6 April 2018

Auditorium 3		Time
Dealing Efficiently with Ressources Chair: Ljiljana Živković		14:00- 15:30
Redistributing Resources in the Urban Environment – Tools and Strategies towards a more Sustainable and Resilient Urban Fabric Klaus KODYDEK, Angelika PSENNER TU Wien, Institut für Städtebau, Landschaftsarchitektur und Entwerfen; Vienna, AT		
Sustainability Assessment of Urban Water Infrastructure Systems with Special Focus on the Urban Water-Energy Nexus Franka STEINER, Helmut LEHN, Annika WEISS Karlsruhe Institute of Technology, Institute for Technology Assessment and Systems Analysis (ITAS); Karlsruhe, DE		
The Challenge of Transforming Urban Supply and Disposal Infrastructures to more Resource and Energy Efficiency Helmut LEHN*, Franka STEINER*, Jasmin FRIEDRICH*, Dámare ARAYA VALENZUELA** * Karlsruhe Institute of Technology, Institute for Technology Assessment and Systems Analysis (ITAS); Karlsruhe, DE ** Karlsruhe Institute of Technology, Institute for Technology Assessment and Systems Analysis (ITAS) / Engler-Bunte-Institute (EBI); Karlsruhe, DE	Photos by CORP Association and Jaqueline Reberschak.	

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