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CITIES FOR EVERYONE

Liveable, Healthy, Prosperous
Promising Vision or Unrealistic Fantasy?



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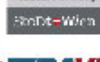
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Edited by

Manfred SCHRENK, Vasily V. POPOVICH, Peter ZEILE

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Table of contents – Inhaltsverzeichnis:

A Multi-Scale (Multi-Fractal) Approach for a Systemic Planning Strategy from a Regional to an Architectural Scale.	17
Claudia Czerkauer-Yamu, Pierre Frankhauser	17
4thNature – Ambient Assisted Urban Resources. Wie Green Cities nachhaltig befördert werden können	27
Jürgen Pietsch, Sunju Lee	27
A diagnosis tool for small and medium sized cities on their way to an InnoCité	33
Nadine Schrader-Bölsche, Kirsten Mangels.....	33
Against the great divide between theory and practice: gated communities versus urban liveability.....	45
Islam Ghonimi, Hassan al zamly, mohamed khairy, mohamed soilman	45
Albania in Transition: International Assistance for Roads but not Public Transport	57
Dorina Pojani	57
An Operational Model towards Playful Public Participation.....	65
Viviana Lanza, Lucia Tilio.....	65
Are Cities in Poland Ready for Sustainability? Poznań Case Study.....	75
Adam Radzimski, Michał Beim, Bogusz Modrzewski.....	75
Assessing the quality of life (QOL), its significance in urban planning and the feasibility of establishing a Quality of Life Reporting System (QOLRS) in cities, the historic city of Esfahan as the case example	87
Daryoush Moradi	87
Baukultur Rheinland-Pfalz im Kontext von Geoweb und Web2.0 mit MACE.....	97
Peter Zeile, Martin Memmel	97
Bikability In Metropolitan Lagos: A Conceptualization of Eco Friendly Transportation Alternative.....	107
Tunji Adejumo	107
Chongqing at Crossroads: How Urban Planning and Infrastructure can Support Sustainable Industries.	115
Debra Lam, Andrea Fernandez.....	115
City environment: Regional development dimension. Baltic case.....	119
Ilze Stokmane.....	119
Confronting the Lagos Informal Land Use: Issues and Challenges.....	131
Oluwafemi Olajide	131
Contemporary tools of urban development - orientated on equity?	141
Katja Stock, Lidewij Tummers.....	141
Crime prevention through environmental design in residential developments in Tehran.....	155
Nasim Iran manesh, Kouros Etaati	155
Delhi towards Carbon Neutrality through Sustainable Mobility	163
Sanhita Bandyopadhyay, Papiya Bandyopadhyay, Piyali Bandyopadhyay.....	163
Der Beitrag regionaler Verkehrspolitik zur Realisierung der Vision lebenswerter, gesunder und prosperierender Städte für alle: Beispielfall Burgenland.....	167
Elmar Fürst, Verena Matz	167
Der Low-Carbon-Index: Ein Instrument zur Beurteilung der Energieeffizienz städtebaulicher Planungen.....	175
Hannah Baltés, J. Alexander Schmidt	175
Die Potenziale aktueller WebGIS- und Web-2.0-Entwicklungen als Planungsinstrumente – der Planer als Eichhörnchen?! 181	181
Rebecca Körnig-Pich, Guido Kebbiedes, Peter Zeile	181
Developing a Typology of Public Participation 2.0 Users: an Example of Nexthamburg.de	191
Beate Weninger, Alenka Krek Poplin, Julian Petrin.....	191
Development and environmental protection in the coastal urban area of the municipality of Glyfada (Greece)	201
Agisilaos Economou	201
Development of municipal System as an instrument of planning approach transition toward integrated sustainable development– case of Serbia.....	207
Ksenija Lalović, Tatjana Mrdjenović	207
Die Aktivierende Stadtdiagnose – Vorstellung einer stadtpsychologischen Methode zur Förderung nachhaltiger Stadtentwicklungsprozesse	223
Cornelia Ehmayer.....	223
Emergence of suburban employment centres in German metropolitan regions: Impacts on commuter traffic, 1987-2007....	235
Dennis Guth	235
EURO 2012 in Poland as a catalyst for change and testing ground for new urban management tools	249
Magdalena Rembeza, Lukasz Pancewicz	249

European Reference Indicators for Public Facilities and Services. Approach to an Integrated Production in Reference Values for the Basic Social Services Infrastructure	257
Maria Lluïsa Marsal Llacuna, Nadia Fava.....	257
Evaluation von Regionalplänen – ein theoriebasierter Ansatz zur Analyse von Instrumenten zur Steuerung der Siedlungsentwicklung	267
Klaus Einig, Andrea Jonas, Brigitte Zaspel	267
Face to Face with Fantasy: the City of Utopian Places.....	279
Lineu Castello.....	279
Freiburg’s way to sustainability: the role of integrated urban and transport planning	287
Michal Beim, Martin Haag	287
Functional Regions Defined by Urban Centres of (Inter)National Importance – The Case of Slovenia	297
Samo Drobne, Miha Konjar, Anka Liseč, Nataša Pichler Milanović and Alma Zavodnik Lamovšek.....	297
Generative Solar Design. Lichträume, Schattenkörper und dynamische Sonnenstandssimulation mit Open-Source-Software	307
Wolfgang Höhl	307
GeoFinanzen: Unterstützung kommunaler Entscheidungsprozesse durch kartographische Präsentation von Finanzdaten. 317	317
Anja Matatko	317
Googlization Factors of Saudi Eastern Province Virtual Cities. Factors Analysis of Eastern Province Virtual Cities.....	327
Talal A Al-Hairig, Ahmed J Al-Jaralah	327
Improving intermodal transport with a focus on long distance: Selected findings from LINK –the European Forum on Intermodal Passenger Travel.....	335
Patrick Hoenninger	335
Innenstädte für alle: Visualisierung und Simulation zur Qualifizierung des innerstädtischen Entwurfs.....	343
Henning Stepper, Arne Siegler, Ingo Wietzel.....	343
Innovating Multidimensional Urban Visions	353
Ján Lacko, David Behal, Peter Borovsky, Zuzana Cernekova, Andrej Ferko, Martin Florek, Matej Novotny, Martin Samuelcik, Stanislav Stanek, Elena Sidukova.....	353
Instruments for sustainable urban development in Eastern Germany – the example of the “Wächterhäuser” (warden houses) in Leipzig	363
Kornelia Ehrlich	363
Integrating Socio-Economic Data in Spatial Analysis: An Exposure Analysis Method for Planning Urban Risk Mitigation 369	369
Neysa Setiadi, Hannes Taubenböck, Sonja Raupp, Jörn Birkmann.....	369
Konzepte länderspezifischer Erweiterungen standardisierter Objektmodelle am Beispiel des Standards XPlanung in der Freien und Hansestadt Hamburg	377
Joachim Benner, Thomas Eichhorn, Kai-Uwe Krause, Vera Kirchenbauer	377
KornetCity: An Operational Model for Belgrade, Serbia	385
Maja Dimitrijevic, David C. Prošperi	385
Learning from Barcelona: Towards Urban Sustainability	397
Nadia Fava Maria Lluïsa Marsal Llacuna.....	397
Liveable and resilient Ho Chi Minh City: Tackling the challenges of climate change, energy security and sustainable urban development	403
Harry Storch, Nigel Downes.....	403
Maintainable 3D Models of Cities	413
Gerhard Navratil, Rizwan Bulbul, Andrew U. Frank	413
Menschen als Messfühler – die Kombination von Geowebmethoden und Sensorik	421
Peter Zeile, Jan-Philipp Exner, Stefan Höffken, Bernd Streich	421
Mobile Stadtinformationssysteme und Location Based Services – Neue Potentiale für die Touristen- und Bürgerinformation	429
Sebastian Althoff, Norman Kratz, Gregor Landwehr, Peter Zeile	429
Mobility barriers in urban transport for the sight or hearing impaired: Solutions help all passengers	439
Elmar Fürst	439
Multi-Criteria Land Use Classification in GIS for Buildings Construction	447
Subhija Ponjavic, Elvir Ferhatbegović.....	447
Network Centric City. Computer Science Vision of Urbanization	457
Vasily Popovich, Manfred Schrenk, Stanislav Vlasov, Yan Ivakin	457
“Neue Kollektive” – eine zentrale Herausforderungen für die zukunftsfähige Stadtplanung	465
Tatjana Fischer	465

Neue Strategien und eine Datenarchitektur für das Wissensmanagement in der urbanen Pflanzenverwendung.....	475
Marcel Heins, Wolfram Kircher.....	475
New Challenges in the transition of industrial areas within the Vision of Istanbul Metropolitan Plan for 2023.....	485
A. Erdem Erbas, Tansel Erbil.....	485
New Communication Tools and eParticipation: Social Media in Urban Planning.....	495
Stefan Höffken, Chris Haller.....	495
New Prospects for Urban Planning Service Systems with Use of GIS Tools and New Data Sources Linked to Reference Databases.....	511
Jadwiga Brzuchowska.....	511
Nobel Economic Laureates and the “Performance” of Cities.....	517
David C. Prospero.....	517
Old Brownfields, new Parks of Tomorrow. Chances to Improve the Environment of the Cities.....	529
Anne Hoffmann, Dietwald Gruehn, Christiane Ziegler-Hennings.....	529
Perspectives for urban experts in future urban development and mobility practice in Serbia.....	541
Uroš Radosavljević, Ksenija Lalović, Tatjana Mrdenović.....	541
Planning for Health Amelioration: Analyzing Mumbai’s Urbanization Patterns.....	547
Amitabh Verma.....	547
Planning healthy cities - the role of markets in urban life.....	555
Kravalik Zsuzsanna.....	555
Polyrational strategies for sustainable energetic development of space – the example of Leipzig.....	569
Christian Strauß.....	569
Position and Possibility of Large Hungarian Towns in the Hierarchy of the European Towns.....	577
János Rechnitzer, Bálint Filep.....	577
Public transport accessibility in Poznań.....	583
Jędrzej Gadziński, Michał Beim.....	583
Rankings and networks – global cooperation and competition.....	593
Gudrun Haindlmaier, Verena Riedl.....	593
Raumplanung als Alltagsmanagement für ALLE? Herausforderungen des demographischen Wandels – Werkstattbericht DEMOCHANGE.....	601
Heidrun Wankiewicz, Wolfgang Spitzer, Thomas Prinz, Franz Dollinger.....	601
Reduzierung der durch Stadtverkehr verursachten Umweltbelastungen: Integrierte Planungsverfahren sind gefordert!	611
Jochen Richard.....	611
Retailing and proximity in a liveable city: the case of Barcelona public markets system.....	621
Manel Guàrdia, Nadia Fava, José Luís Oyon.....	621
Räumliche Risikovorsorge zur Beherrschung der Risiken von Störfällen technischer Anlagen.....	631
Arne Siegler, Martin Rumberg.....	631
Simulation and Visualization of the Behavior of Handicapped People in Virtually Reconstructed Public Buildings.....	639
Martin Brunnhuber, Helmut Schrom-Feiertag, Gerd Hesina, Dietmar Bauer, Werner Purgathofer.....	639
Size of the Patch.....	649
Agnieszka Kowalewska, David C. Prospero.....	649
Social and Aesthetic Camouflage: Case Study of New Belgrade.....	661
Jelena Pantic.....	661
Stadt - Land - Peripherie - Die Zukunft der Stadt liegt (auch) in der Region!? Eine Erkundung des Zukünftigen zwischen Visionen und Realitäten.....	667
Nils Leber.....	667
Strategies for Sustainable Cities: Climate Change as a Generator of Development Planning Policies - Belgrade Example ...	677
Ana Peric, Danilo S. Furundzic.....	677
SUPPORT – A Strategic Planning and Decision Support Instrument for Environmental Urban Planning in Berlin.....	685
Antje Köppen, Michael Förster, Birgit Kleinschmit, Johann Köppel, Johanna Ferretti.....	685
Sustainable Mobility in Cities: Reducing the Carbon Footprint of Transportation in Tübingen.....	693
Andrea Henkel, Martin Haag.....	693
Territorial information systems (TIS) as an instrument for developing social capital in local communities in Serbia.....	703
Tatjana Mrdjenovic, Ksenija Lalovic, Uros Radosavljevic.....	703
The “Green Palisade” Concept: a scenario of waste and wastewater as resources city.....	713
Ova Candra Dewi, Mayrina Firdayati, Ina Koerner, Ralf Otterpohl.....	713
The assessment of traffic livability, including local effects at home, during trips and at the destination, based on the individual activity pattern and trip behaviour.....	723

Dominique Gillis, Dirk Lauwers, Dick Botteldooren, Luc Dekoninck	723
The capabilities of remote sensing to derive urban location factors for probability-based spatial growth analysis	733
Hannes Taubenböck, Sebastian Clodt, Michael Wurm, Martin Wegmann, Carsten Jürgens.....	733
The construction of the concept of neighbourhood children from the big city	743
Nikolaos K. Mitoulas.....	743
The Mediterranean Games of 2013, as a vaulting horse for Sustainable Development for the city of Volos	747
Mitoula Roido, Theodoropoulou Eleni, Vambakari Malvina, Efthimiou Theodoros.....	747
The Regeneration of Lagos Lagoon Waterfronts for Recreation and Tourism.....	759
Nnezi Uduma-Olugu, Leke Oduwaye.....	759
The role of civil actors, private sector, and public organizations in the urban life of open spaces (The Cairo Case)	765
Manal Abou El-Ela, Ibrahim Sharaf El-Din, Mohamed Khairy Amin	765
The u-City Index: Integrated planplementation of future ubiquitous cities	773
Andrew Macias-Diaz	773
Towards True Underground Infrastructure Surface Documentation	785
Thomas Ortner, Gerhard Paar, Gerd Hesina, Robert F. Tobler, Bernhard Nauschnegg.....	785
Überörtliche Verkehrsentflechtung in Zentralkärnten – Realitätsdruck versus Machbarkeitsstudien im Rückblick	795
Harald Eicher.....	795
Understanding the city: Local Agendas 21, Territorial Audits and Urban Policies. Instruments and technologies applied in the AL21 of the city of Cuenca, Spain.....	807
Teresa Franchini, María José Lozano de San Cleto, María Asunción Martín Lou	807
Urban Design and Lifestyle Changes. Creative Cities by Creative Citizens	813
Jose María Yagüe	813
Urban Land Use Management in Ljubljana: From Competitiveness to Sustainability - or vice versa?	819
Nataša Pichler-Milanović, Alma Zavodnik Lamovšek	819
Urban Poverty and Environmental Conditions in Informal Settlements of Ajegunle, Lagos Nigeria.....	829
Oluwafemi Olajide	829
Urban Remote Sensing – How Can Earth Observation Support the Sustainable Development of Urban Environments?.....	839
Thomas Esch, Hannes Taubenböck, Wieke Heldens, Michael Thiel, Michael Wurm, Christian Geiss, Stefan Dech	839
Urban sprawl + politics + cars = Canberra vs. Compact city + innovative politics + active forms of transport = healthy Canberra	851
Gregor H Mews	851
Urban Vision Linz. Ganze Stadt – halber Lärm	859
Gerhard Lueger, Wolfgang Gratt, Thomas Edtstadler, Axel Gattinger, Helmut Retzl, Rudolf Wenny	859
Urban Workshop Plus - Concept of Public-Professional Partnership in Urban Development	869
Izabela Mironowicz, Anthony Clerici.....	869
Using remote sensing and GIS for damage assessment after flooding, the case of Muscat, Oman after Gonu tropical cyclone 2007: Urban planning perspective.....	881
Lotfy Kamal Azaz	881
Verbesserung der thermischen Behaglichkeit innerhalb dichter Wohnkomplexe am Beispiel einer südkoreanischen Stadt. 891	891
Eva Ringhof, Sascha Henninger	891
Vorsorge als Betrachtungsgegenstand der Raumplanung	901
Arne Siegler, Henning Stepper, Ingo Wietzel.....	901
Wanderungsströme der Bevölkerung in der Stadtregion Wien.....	911
Peter Görgl, Marco Helbich, Heinz Fassmann, Vanja Gazdek	911
Web 2.0 Applications for Collaborative Transport Planning	919
Andrew Nash.....	919
Web 2.0 in Lehre und Forschung – Chancen und Potenziale für die räumliche Planung	931
Peter Zeile, Jan-Philipp Exner, Stefan Höflken, Bernd Streich	931
Wege im Grünen – Modellierung von Wegepräferenzen von Besuchern/-innen Wiener Erholungsgebiete anhand eines diskreten Wahlmodells.....	941
Arne Arnberger, Renate Eder, Thomas Reichhart	941
Wie entwickelt sich der Grünraum in Wien?	951
Kirsten Müllner, Klaus Kramer	951
Zertifizierung von Stadtquartieren	963
Jan Hogen	963
“Air-City”: Modular pneumatic and bionic architecture for buildings and mobile fairs	973
Thomas Herzig, Gerald Härtlein.....	973

AmauroMap – Interactive Online City Map for Blind and Visually Impaired People	981
Wolfgang Wasserburger, Julia Neuschmid, Manfred Schrenk	981
AnachB.at – das neue Echtzeit-Verkehrsinfoservice für die Vienna Region	985
Nicole Prikoszovits	985
aspersn Die Seestadt Wiens – nachhaltige Stadtentwicklung	991
Hageneder Christiana, Hinterkömer Peter	991
Assessing the implementation of Rawalpindi’s Guided Development Plan through GIS and Remote Sensing	997
Muhammad Adeel	997
Assessment and Simulation Methods for Green Building Planning	1005
Thomas Leitner, Andreas Schiffleitner, Bernhard Lipp	1005
Assessment of Governance Strategies for Climate Adaptation in Flanders/Belgium	1009
Björn R. M. Verhofstede, Hans Leinfelder, Georges Allaert	1009
Bridging the Physical and the Virtual: Creating a Social Network via Media-Enhanced Street Furniture	1015
Sung Ah Kim, Yunjung Cho	1015
Bus Stop 3.0 – Bus Stop of the Future – Multifunctional Centers for Regional Development	1021
Manfred Schrenk, Josef Benedikt, Tanja Egger, Christian Eizinger, Andor Farkas	1021
CentropeMAP and CentropeSTATISTICS – Cross-Border Geodata Infrastructure with User-Defined Thematic Maps ...	1029
Clemens Beyer, Walter Pozarek, Manfred Schrenk	1029
Chancengleichheit beim Zugang zu Mobilität. Analyse der Verkehrsbefragung „Mobilität in Deutschland (MiD) 2002“ unter ausgewählten Gender-Aspekten – am Beispiel der Region Hannover (Niedersachsen, Deutschland)	1035
Ingrid Heineking	1035
Cohering the spatial and strategic planning in the Czech Republic	1043
Jiřina Bergatt Jackson	1043
Comprehensive Urban Renewal: More than Building Regeneration: a Case Study in Vienna	1049
Betül Bretschneider	1049
Das Klimaschutzprogramm der Stadt Wien – ein Beitrag zu mehr Lebensqualität in Wien	1055
Marianne Steiner	1055
Das Wissen Wiens – innovative urbane Technologien und Strategien als Garant der Wiener Lebensqualität	1061
Alexandra Vogl	1061
Design Considerations and Sustainable Low Cost Housing Provision for the Urban Poor in Addis Ababa, Ethiopia	1067
Emaculate Ingwani, Tendayi Gondo, Trynos Gumbo, Elias Mazhindu	1067
Die Nutzung der Wiener Lebensqualitätsforschung als Instrument einer an den Bedürfnissen der Bevölkerung orientierten Stadtentwicklung	1071
Rainer Hauswirth	1071
Die Regionalen in Nordrhein-Westfalen: Impulse für den Strukturwandel. Beispielhafte Erneuerungsstrategie der Regionale 2010 im Rheinland	1077
Anne Katrin Bohle	1077
„Einfach-Mehrfach“, ein partizipativ angelegtes Erfolgsmodell der Stadt Wien	1079
Jutta Kleedorfer	1079
Environmental Justice in Berlin: GIS-based method determining an aggregated index for urban planning	1085
Gesa Geißler, Birgit Kleinschmit, Robert Ahrberg, Battugs Erdenetsogt, Yvonne Heimann, Lisa Heinsch, Laura Hensel, Thomas Herff, Josephine Janke, Philipp Kaufmann, Miriam Kothe, Hendrikje Leutloff, Anja Manzke, Anke Rehhausen, Sebastian Schramm, Stefanie Töpfer, Sebastian Unger, Bartlomiej Wisniewski	1085
Ermittlung von Energiekennzahlen für Haushalte und Stadtstrukturtypen in Ho Chi Minh City	1091
Nguyen Xuan Thinh, Katrin Scharte, Doreen Rahe	1091
FlexiCount: Eine flexible Personenzählmatte für den mobilen Indoor und Outdoor Einsatz	1097
Martin Horauer, Markus Ray, Andreas Augustin und Gregor Novak	1097
Graz Reininghaus: Vielfalt ermöglichen – für die Wiedergeburt des Urbanen	1103
Andreas Kleboth	1103
Green Buildings for sustainable cities	1109
Bernd Stampfl	1109
Gesunde Stadt? Eine interdisziplinäre Perspektive auf gesundheitliche Einflüsse in Essener Stadtteilen	1111
Minh-Chau Tran, Susanne Moebus, J. Alexander Schmidt, Fabian Kessl	1111
Heritageescape, Urban Planning and Strategies: Studies from India	1117
Rana P. B. Singh	1117
Integration and Transformation of Post-Apartheid South African City Fabric	1129

Ambrose A. Adebayo, Godfrey G. Musvoto	1129
Is Junik unique? Devising planning policy documents “in-house”	1135
Ferdone Tofaj, Lumnije Gashi, Teuta Jaha, Enes Toska, Dukagjin Bakija.....	1135
Konfliktsituationen in der (offenen) Planung: Lösungen und Anforderungen an die Städte	1141
Bettina Riedmann, Hans Kordina	1141
Linz Charter – Guideline for Urban Development: Architecture, Traffic and Urban Planning have become “Deaf” Disciplines in which Acoustic Consequences are Treated Without Concern	1147
Peter Androsch	1147
MARIA – Mobile Assistance for Barrier Free Mobility in Public Transportation	1153
Lucas Paletta, Reinhard Sefelin, Joachim Ortner, Jutta Manninger, Regina Wallner, Marianne Hammani-Birnstingl, Verena Radoczky, Patrick Luley, Walter Scheitz, Otto Rath, Manfred Tscheligi, Burkhard Moser, Katrin Amlacher, Alexander Almer... ..	1153
Mikrosimulation von Mischverkehr – Konzept MiMiSim und Ausblick auf MixME	1159
Robert Schönauer, Helmut Schrom-Feiertag	1159
Mobi-Kid – Kindergerechte Information für die sichere und nachhaltige Nutzung des ÖV	1165
Alexander Chloupek, Kathrin Morawetz	1165
Mobility survey based on intelligent technologies (MOBIFIT)	1173
Max Herry, Gerd Sammer, Rupert Tomschy, Michael Meschik.....	1173
Neoliberalism and public participation in urban regeneration in Portugal	1179
Luís Mendes	1179
Personal transport information, mobility behaviour and attitudes towards technology: target groups for advanced traveller information systems	1189
Sebastian Seebauer, Martin Berger.....	1189
Pilotprojekt „Zu Fuß im St.-Andrä-Viertel“ Qualitäten für Fußgänger/-innen - Fußgängeraudit für einen ganzen Stadtteil; Salzburg (Austria)	1199
Dieter Schwab	1199
Plan4all – State of the Art in the Harmonisation of Spatial Planning Data	1203
Julia Neuschmid, Clemens Beyer, Christian Eizinger, Manfred Schrenk, Wolfgang Wasserburger	1203
Public Private Partnership as an urban regeneration tool for the inner city, large-scale public space projects in Poland ...	1209
Magdalena Rembeza, Lukasz Pancewicz	1209
Public Space Design as a Stimulator for Movement of Pedestrians. Case Study: Municipality of Vracar, City of Belgrade	1213
Milena Vukmirović.....	1213
“Revision of urban spaces to make it accessible for disabled people in order to achieve the aim of “city for all “	1219
Anahita Mahmoudi, Kamyar Fanaei.....	1219
ROdEM: Modellierung einer optimalen Raumnutzungsverteilung zur Minimierung von Kfz-Emissionen	1225
Georg Kriebernegg, Stefan Hausberger, Martin Rexeis, Christian Schiller.....	1225
Russian Urban Planning: modern ideas (Legislative Base, Spatial Planning, Transport and Ecology, GIS Technology)	1231
Anna Beregovskih, Irina Grishechkina, Dghamilia Shalakhina, Sergey Miller, Mikhail Petrovich	1231
SDI of the Free and Hanseatic City of Hamburg and the Hamburg Metropolitan Region in the context of the Community programme eContentplus co-funded project Plan4all and in the context of INSPIRE	1239
Winfried Hawerk, Kai-Uwe KRAUSE.....	1239
Seeking the Best Urban Form	1245
Tsouderos Ioannis, Dimelli Despina.....	1245
Senior Social Platform – An application aimed to reduce the social and digital isolation of seniors	1249
Paul Andor Farkas	1249
Smart Grid and E-Mobility	1255
Peter Tschulik.....	1255
Smart growth and integrated planning in Gdansk and Dublin urban changes	1261
Joanna Bach Głowińska, Tomasz Budziszewski, Bogdan Grechuta, Beata Ochmańska, Barbara Pujdak, Justyna Przeworska, Karolina Rospek Aszyk, Agnieszka Różga Micewicz.....	1261
SmartCountplus – Towards Automated Counting and Modelling of Non -Motorised Traffic with a Stand-Alone Sensor Device	1263
Norbert Brändle, Ahme Nabil Belbachir, Stephan Schraml.....	1263
Spatial Analysis of Municipal Water Supply in Abeokuta Metropolis, South Western Nigeria	1269
G. C. Ufoegbune, J. A. Oyedepo, Awomeso, A. O. Eruola	1269
Stadtentwicklung versus Lifestyle – zur steigenden Prosperität des Brunnenviertels in Wien Ottakring	1277
Kurt Smetana	1277
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Sustainable Cities	1285
Stefan Denig.....	1285
Sustainable Urbanism with Green Roofs – Natural Stormwater Management	1293
Wolfgang Ansel, Alfred Diem	1293
SZENAMO. Szenarien zukünftiger Mobilität älterer Personen	1299
Andreas Friedwagner, Ralf Risser, Isabella Braguti, Doris Wunsch, Manuel Oberlader, Elisabeth Füssl, Daniel Bell	1299
Territorial indicator system as a tool for evaluating territorial strategies	1305
Aldert de Vries, Xabier Velasco.....	1305
The Austrian Sustainable Building Certificate for buildings and city districts	1313
Clemens Rainer.....	1313
The City Planning Cadastre System of the city of Moscow as a tool for sustainable urban development.....	1317
Alexander Pereslegin.....	1317
The Impact of the Modal Split on accessibility in urban areas.....	1319
Wolfgang Rauh	1319
The Mobility Pass for Residential Real Estate – an Instrument to Calculate Mid- and Long-Term Mobility Costs of Real Estate Decisions	1323
Manfred Schrenk, Tanja Egger, Christian Eizinger.....	1323
The Potsdam Housing Market: A GIS-based Spatial Analysis using FOS.....	1327
Harald Scherthanner, Hartmut Asche.....	1327
The theme of the Catastrophe in the Information Society	1333
Olivier Lefebvre.....	1333
Toward Sustainable Development in Cities: A Case for New Spatial Decision Support Methods in Urban Planning.....	1339
Anna Kaczorowska-Fudala	1339
VeGIS – Tool for the connectivity between traffic models and geographic information systems.....	1345
Steve Grössl, Ursula Witzmann	1345
Visions of Liveable Cities? Der UNESCO-Weltkulturerbestatus als Potenzial für nachhaltige Stadtentwicklung.....	1349
Carola Silvia Neugebauer.....	1349
Ways4all: Indoor navigation for visually impaired and blind people.....	1355
Martijn Kiers, Tina Sovec	1355
What happens to the East-West Cornucopia? Regional development opportunities in Schwechat revisited.....	1361
Judith Ryser.....	1361
Wien – vom Rand des Eisernen Vorhangs zu einem zentralen Knotenpunkt der EU-Makroregion Donaauraum.....	1373
Thomas Madreiter	1373
Innovative Fördermechanismen für den Radverkehr	1381
Martin Eder	1381

Perspectives for urban experts in future urban development and mobility practice in Serbia

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1 ABSTRACT

The focus of this paper is in reviewing the possibilities of new designed and tested teaching concepts, methods and skills at the Faculty of Architecture Belgrade University (FABU) based on the contemporary theoretical and practical European approaches in the field of sustainable urban transport and mobility and implications for future urban experts in the field of urban development and mobility practice in Serbia.

The importance of knowledge and information is rapidly rising in the knowledge economy especially in cities as nodes of production, processing, exchange and even trade of knowledge. Important role in that process which occurs in cities belongs to the Universities and research institutes, beside many other relevant actors like public authorities, NGO's & CBO's, private companies, civil society.

In the process of Serbia's accession to the EU the whole country is in the process of reform dealing with burdens from the past and aiming towards European values. Legislative as well as capacity building activities are present from the year of 2000 by democratically elected governments and by international NGO's and official governmental organizations (EU commission...).

FABU participates in the FP6 EU funded project 'Sustainable Surface Transport' as one of the partners in the project, disseminating knowledge on sustainable urban transport and mobility.

The project has enormous importance for improvement of all our institutions in the field of clean and sustainable urban transport systems and promotion and participation of Serbia in European Union projects. Benefits of using ELTIS web site is that experts from various fields can expand their knowledge on sustainable urban transport and mobility systems using findings and specific experience from other countries.

With the aim of disseminating knowledge on sustainable urban transport and mobility in Serbia the Faculty of Architecture realized several activities and results on urban transport and mobility issues:

- Promotion of ELTIS web site on seminars, round tables and trainings delivery in Serbia to public sector representatives (ministries, local authorities, urban planning traffic departments), NGO's (bicycle associations), private sector urban design offices.
- Translation of 56 English case studies into Serbian language and 13 Serbian case studies accessible on the ELTIS web site.
- In the education curriculum at the Bachelor level at the Faculty of Architecture new subject "Mobility in cities" was established two years ago where students work with realized EU and Serbian case studies on sustainable urban transport and mobility and its implications on urban structure, compare EU & Serbian context and give recommendations in mentioned field in soft aspects for policy issues, urban planning & management concepts, and urban design.

These new teaching concepts and methods designed & conducted by the authors of this paper were tested for 2 semesters and proved to add value to the knowledge and specific expert skills in two direct ways. One was that the increased demand from the students on sustainable design and urban mobility led to the additional subject "Traffic in cities" introduced last year. Another direct result was visible in the Urban Design Projects on Bachelor and Master level of studies where students applied new knowledge and skills on aspects of urban design and planning of the development of cities and reaching liveable and healthy cities for all users in accordance with principles of sustainable mobility concepts.

The paper explores and discusses new knowledge from the comparison of European and Serbian context and its applicability in the future urban development and mobility education and practice in Serbia.

2 INTRODUCTION

Aware of necessity of significant changes in Serbia, we are nowadays dealing with the problem of defining how to adjust our existing institutional and public authority capacities and their activities to the strategic development model demands. The major problems are appearing from incompatibility of existing

institutional and governmental capacities and their activities, established 50 years ago, in comparison to the organizational demands derived from new modern model of governance and management. Changes that are to be made mean fundamental reorganization of public sector.

In the process of Serbia's accession to the EU the whole country is in the process of reform dealing with burdens from the past and aiming towards European values. Legislative as well as capacity building activities are present from the year of 2000 by democratically elected governments and by international NGO's and official governmental organizations (EU commission...).

3 CHALLENGES FOR FACULTY OF ARCHITECTURE'S PARTICIPATION IN EU FUNDED PROJECTS

Under the coordination of prominent Austrian scientific research association Forschungsgesellschaft Mobilität gemeinnützige GmbH FGM AMOR Austrian Mobility Research (AMOR) Faculty of Architecture University of Belgrade (FABU) participates as a partner in the FP6 EU funded project 'Sustainable Surface Transport' from the year of 2005.

The Project aims to achieve international cooperation and review the possibilities of application of the results achieved so far within the EU FP6 projects in countries that have recently become EU members or countries that are its potential members. Participation of FABU in the Project is of the great importance, since it was the first time that one of the countries from the Western Balkans, potential EU members was included in the EU FP6 program.

European Union (EU) and European Commission have made great efforts for a long time in promoting sustainable urban transport. One of the ways that is the part of the Project is European Local Transport Information System (ELTIS) – an initiative of the European Commission's Directorate General for Energy and Transport. ELTIS is website that provides access to the best scientific and practical results and research materials for training and learning in the field of sustainable transport systems. The aim of ELTIS is to provide information and support a practical transfer of knowledge and exchange of experience in the field of urban and regional transport in Europe.

The Project's primary objectives are:

- to make easier to use and allow users easy access to all relevant information (news, files, materials)
- to increase the number of available examples, materials, and translations and to include new content and topics;
- to increase the number of users through the construction of "brand" ELTIS Web site and allow a professional Marketing (goal is that ELTIS website become "Google" search engine in the field of transport);
- to focus attention to the new EU countries and countries in the EU accession process through a system of expert training and workshops, translation of the most important examples of the languages of these countries and to offer active user support;
- to offer non-traditional ways of knowledge dissemination.

Through the ELTIS website it is possible at this moment to directly establish more than 150,000 contacts through various user's network that ensures the project's broad and far-reaching impact even after completion (expected in april 2010). It has been expected in 2005 and has been realized so far that inclusion of non-European partner network (Eastern European, Asian and Latin American) will enable new initiatives for the successful exchange of knowledge, and Europe on the other side will be able to promote its own approach to issues of sustainable urban transport systems on a global level and contribute to global dialogue.

The expected result of the implementation of the Project is increased level of knowledge and practical use of research results developed in the enlarged EU. It should be achieved through expanded ELTIS service, specific activities in the field of education and training of professionals and focused on development initiatives.

In that respect, FABU prepared and realized several activities within the Project with direct showing benefits to relevant stakeholders such as policy and decision makers, politicians, heads of urban management departments, public transport operators, practitioners in the field, university staff, researchers, students:

- Access to the Information network users through ELTIS web service;
- local representation of realized and potential projects (both research and practical) in the field of sustainable transport systems at European and world level;
- involvement in a series of workshops on topics of ecological and sustainable urban transport system that FABU will organize and implement;
- access to brochures and other relevant research and practical materials specifically oriented to the problems of the partner countries (in English and Serbian language);
- the possibility of inclusion in training courses for the training of experts.

The project has enormous importance for the capacity building activities of our institutions and organizations in the field of clean and sustainable urban transport systems and promotion and participation of Serbia in European Union projects.

Benefits of using ELTIS web site is that experts from various fields can expand their knowledge on sustainable urban transport and mobility systems using findings and specific experience from other countries.

With the aim of disseminating knowledge on sustainable urban transport and mobility in Serbia the Faculty of Architecture realized several activities and results on urban transport and mobility issues:

- Promotion of ELTIS web site on seminars, round tables and trainings delivery in Serbia to public sector representatives (ministries, local authorities, urban planning traffic departments), NGO's (bicycle associations), private sector urban design offices...
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4 REFORM OF HIGHER EDUCATION AT THE FACULTY OF ARCHITECTURE BELGRADE UNIVERSITY (FABU) AND RELATION TO EU PROJECT

University of Belgrade exists from 1846. Throughout the history it has changed several times its organizational form, but on the other hand many of the principles are rooted deep and it is almost a rule that change is something that happens very slowly in academic world.

Until the year of 2005 organizational form and structure of FABU dated from after the World War Two with cathedras as basic organizational units with different subjects within them. There were several attempts of radical change of educational plan and program and therefore organizational structure of FABU, but more or less they remained incremental or temporary.

Most of the proposed changes in the past failed due to several reasons, but most important was the resistance of people to change due to established norms and values within character of organizational structure mentioned above. Another reason was that there were not real pressure from outside environment that would call for fundamental change, especially in "well designed and planned system as Socialist centrally driven system was".

Things have changed with the political and overall changes in Serbian society at the end of '90s. Shifts from centrally planned to transitional economy in Serbia and attempts to follow European integration processes have had major impact on the FABU. Most important inputs are: 1) Bologna declaration, 2) Legislative change in Higher education in Serbia (new Law on Education from 2005) and 3) obvious need for improvement of Educational Processes and Programs at the Faculty.

Finally, Bologna declaration brought the change in 2005 both in organizational system of the Faculty in terms of:

- 1. three years of basic, Bachelors studies and two years of Master studies;

- 2. cathedra based organizational arrangement to independent subjects and their relations due to need of Educational programs;

Those changes created the platform in which new elective subjects could be established and included in the Faculty curriculum with the cooperation with other institutes or within national or international projects.

5 NEW CONTEMPORARY MOBILITY ISSUES AND CONCEPTS FOR FUTURE URBAN DESIGNERS AND ARCHITECTS

Education on the subject “Mobility in cities” is directed to explore contemporary aspects of multimodal transport in urban areas in order to achieve sustainable development of urban areas. Education aims to reach the outcome (product, result, effect) and the process (action plan, working method, route, activities). The goal is that students gain a basic understanding of modern management concepts in transportation systems and mobility in relation to land use in urban areas. It is also important that they understand the role of architects and urban designers and planners in these processes along with other experts and stakeholders such as public authorities representatives, local communities and their needs, private sector interests, etc.

Students acquire knowledge on methods, techniques and skills on organization of sustainable urban transport systems in relation to land use in order to apply their knowledge and learn what kind of implications will decisions based on principles of sustainable transport will have on the spatial organization.

The main goal in the teaching process is dissemination of aspects of design and planning of urban structure development in order to achieve higher levels of quality of life in urban areas in accordance with the principles of sustainable urban transportation systems.

Subject outcomes are closely related to the problems of urban design and planning and students applied new knowledge on the subject Urban Design Project on the same semester and in the Bachelor Design Project.

The basic knowledge and learning outcomes that students gain on the subject are:

- Understand key contemporary disciplinary issues related to enabling multimodality problems of transport and mobility of people in urban areas through the review of the basic assumptions in the field of sustainable transport: mobility management, parking management, relation of land use planning with the sustainable transport, aspects of safety and environmental protection.
- methods of mobility management, parking management and relation of land use planning with the sustainable transport
- Practical knowledge of the principles of urban design in accordance with the requirements of high mobility and sustainable transport in the city.

This theoretical and practical knowledge increased the competence of students in solving problems of urban design and planning in accordance with the principles of sustainable transport systems in the city and skills to collaborate with experts in the field of integrated transport in solving urban problems in a competent way.

Method of teaching that were used during the course were divided into two main blocks:

- Block of interactive lectures divided into four groups of basic trainings in the field of relation of land use planning with the sustainable transport, mobility management and transport, parking management, and safety and environmental protection;
- Block of exercises divided into two parts where students work on:
 - 1. The study of literature and analysis and comparison of implemented cases from the European Union and Serbia from one of these areas of their choice;
 - 2. Thematic exercise: analysis of selected specific real urban situation and forming conceptual proposal and solutions from one of these areas of their choice;
- Two presentations of added knowledge on key issues based on the results of implemented: 1) research, analysis and comparison of cases, and 2) the proposed solutions;

Final research report include findings from the research analysis and comparison of EU and Serbian cases, as well as guidelines for soft policy measures in the field of urban design and planning in accordance with the principles of sustainable transport in our community.

Students deal with important questions such as: What is missing in Serbia so that similar principles / decisions / actions like in EU can be applied in this context (for example: lack of integrated policies, transport awareness campaigns, institutional resources and know-how, the will to change or learn, the participation of relevant stakeholders, guidelines, laws, monitoring results, etc.)? What are the benefits in Serbia or what is better done than in the European Union, or what the pitfalls are? Further recommendations are given as the series of future and next steps in capacity building, travel awareness, stakeholders participation, campaigns targeted towards end – users.

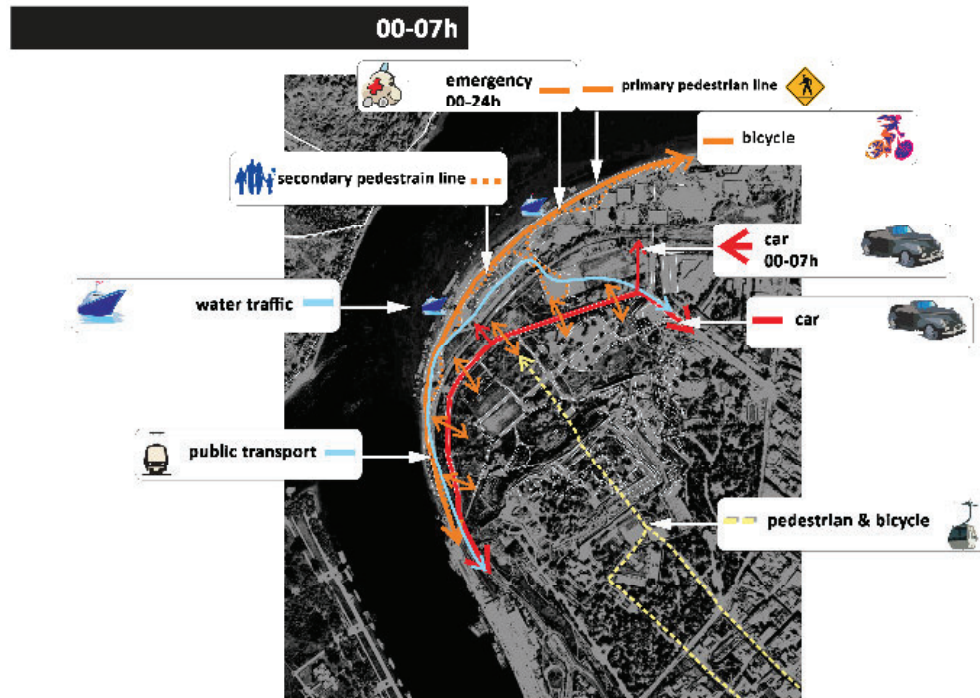


Fig. 1: Application of knowledge from ‘‘Mobility in cities’’ on student’s Master Urban Design Project (students Jovana Pavić and Stefan Drašković)

6 CONCLUSIONS AND EXPECTED IMPLICATIONS

Following criteria that the teachers and the authors of this paper included in the evaluation of results and findings are important both for the improvement of the subject ‘‘Mobility in cities’’ in the education process and for the specific knowledge and skills in the field of sustainable transport for future urban designers and architects.

- ‘‘emotional perspective’’ in order to support ideas and concepts for clean and sustainable urban transport like e-mail gimmicks, cartoons and illustrations;
- acceptance of professional English language terms with the outcome of reading and understanding English literature in the field of sustainable transport and sharing knowledge and experience with the global community;
- flexible process - students attitudes / stakeholders in real arena towards new topics (student’s identification of specific Serbian cases that are further presented, discussed and approved both by teachers and other students);
- identification due to flexible process that creates sense of belonging within the group and forming of identity trough the Case (for example – students often tend to call students upon specific cases they have elaborated – ‘‘Drunken drivers’’ for special service for drunk car drivers that want to safely be driven home by motor bikers);
- non-traditional ways of information and dissemination trough visual products from ELTIS such as brochures, website, presentations;

- attendance on local conferences and seminars in Serbia and enlargement of knowledge with relevant stakeholders from the region and neighbouring Balkan Peninsula countries;
- interactive workshops with guest lecturers from public enterprises in the field of sustainable transport, representatives of NGO's and CBO's;
- 24/7 on line support and e-mail communication with students / or end-users in "real urban arena" up to the creation of mobility centre for information; and,
- student's point of view on new gained knowledge and skills and general satisfaction related to expectations from the beginning of the subject period (beside general evaluation at the Faculty level).

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