



2005-2006 Progress Report

National Center for Smart Growth Research and Education at the University of Maryland

in cooperation with

- The School of Architecture, Planning and Preservation -**
- The College of Agriculture and Natural Resources -**
- The School of Engineering -**
- The School of Public Policy -**

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A Message from the Executive Director –

The period between the publication of our last progress report and the publication of this report has again been very productive for the National Center for Smart Growth Research and Education. The period saw a deepening of collaboration among longstanding staff and the addition of Glenn Moglen (Civil Engineering) as a permanent, quarter-time staff member. More than a 15 graduate students in urban planning, public policy, engineering, and economics helped advance the mission of the Center while gaining valuable experience conducting research on smart growth.

As always, scholarship remained the primary area of emphasis as several quantitative measures of scholarly productivity confirm. From its inception through 2005, Center staff published 53 papers in scholarly journals or accepted for future publication and 21 papers are in review; six chapters in books (six forthcoming) and are writing, editing or co-editing eight complete books; more than 41 working papers, professional reports, non-refereed articles, and other publications. Two papers by Center Affiliate Jan Song from the University of North Carolina and Center Director Gerrit-Jan Knaap were among the 25 most downloaded articles in two prestigious journals: “Measuring the Effects of Mixed Land Uses on Housing Values” was among the top 25 in *Regional Sciences and Urban Economics*, and “New Urbanism and Housing Value: A Disaggregate Assessment,” was among the top 25 in the *Journal of Urban Economics*. Similarly, a paper by Reid Ewing, “The Relationship Between Urban Sprawl and Physical Activity, Obesity, and Morbidity,” was listed in November 2005 as one of the most cited papers in the previous two years and was the most cited in the “general social sciences category.” In addition, Center staff regularly served as referees for a variety of journals and as an associate editor on the editorial board of the *Journal of the American Planning Association*.

Center staff also completed or continued several high-visibility projects. The China program headed by Chengri Ding continued to grow in scope and significance. The Center’s China program, funded and strongly supported by the Lincoln Institute of Land Policy, offered numerous training programs both in China and the United States. Ding was cited in an internationally distributed story in *The Economist*.

Reid Ewing, under contract with the U.S. Environmental Protection Agency, led a charette in College Park focused on the redesign of the U.S. Route 1 corridor near the University of Maryland campus. Kelly Clifton’s work on physical activity was the subject of two local television stories, one on WBFF in Baltimore and the other on WUSA-TV9 in Washington, D.C. A report by Antonio Bento and Jim Cohen on the effectiveness of adequate public facility ordinances in Maryland was covered by the *Baltimore Sun* and other newspapers in Maryland and other states.

The project that received the most exposure, however, was Reality Check *Plus*, a series of growth visioning exercises held around Maryland in May and June 2006. As part of this project, Center staff and graduate assistants led four public participation exercises in the four corners of the state. At these exercises, more than 850 Maryland citizens literally came to the table and via the placement of LEGOs® representing jobs and

housing on regional maps, expressed their vision for the future development pattern of the state. These regional exercises and the press conference at which the combined results were presented received favorable press coverage across the state, generating about four dozen stories from more than two dozen newspaper, radio, and television outlets.

Just as importantly, each of the above projects laid the foundation for continuing work in the future. Under a new contract with the Lincoln Institute, the Center's China program is situated to provide training to an ever-growing number of Chinese scholars and government officials. Kelly Clifton has a new contract with the Maryland Department of Transportation to extend her work on pedestrian safety and behavior. Antonio Bento has a new contract with the National Association of Home Builders to explore the efficacy of inclusionary zoning policies. And Glenn Moglen and Matthias Ruth received a grant from the U.S. EPA to analyze the Reality Check results to provide an assessment of water quality and energy consumption impacts.

In short, after six years, the Center has established a solid reputation for high quality work and is now poised to help the new administration in Annapolis and the new Congressional leadership to expand knowledge and best practice in the field of smart growth.

Gerrit-Jan Knaap
2006

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I. HISTORY

The National Center for Smart Growth Research and Education (hereafter, the Center) was established in 2000 as a direct result of the rapidly expanding national and international interest in improving land use management through efforts collectively known by the term “Smart Growth.” The Center is a cooperative venture of four schools on the University of Maryland’s College Park campus: Agriculture and Natural Resources; Architecture, Planning and Preservation; Engineering; and Public Policy. The Center was created in no small part due to the national reputation of the State of Maryland’s 1997 Smart Growth and Neighborhood Conservation program and a desire by the University to build on the national and even international visibility of that effort.

The concept of a Center for Smart Growth originated with university faculty, who saw both a need and an opportunity to develop an objective, interdisciplinary approach to better understand the complex Smart Growth strategies sweeping the nation at the advent of the 21st century. From the outset, the center was envisioned as an institution that would assess, and assist where possible, the implementation of the Maryland Smart Growth initiative, but which would also become a national resource for research and education on Smart Growth or related land use strategies.

Gerrit-Jan Knaap, a 25-year student of land use policy and author of more than 40 articles and five books on state and local land use planning, was recruited in 2002 from the University of Illinois at Champaign-Urbana to be the Center’s Executive Director. After seven years working for the governor of Maryland, John W. Frece joined the staff in 2003 and became Associate Director in 2004. Knaap and Frece have led the Center’s involvement in a series of growth visioning exercises in Maryland known as Reality Check *Plus*, and Frece has represented the Center on a separate project around the nation known as the Governors’ Institute on Community Design.

Faculty researchers include Dr. Chengri Ding; who heads the Center’s China Land Use Program, which is funded by the Lincoln Institute of Land Policy; Dr. Reid Ewing, a nationally recognized expert on the link between public health and the built environment; Dr. Kelly Clifton, who researches issues linking the built environment and travel choices; Dr. Antonio Bento, whose research topics include the impacts of urban growth boundaries on housing prices; and Dr. Glenn Moglen, whose research focuses on the relationship between the built environment and watersheds and water quality. Knaap, Ding, Ewing and Clifton are all affiliated with the Urban Studies and Planning Program within the School of Architecture, Planning and Preservation; Bento with the School of Public Policy; and Moglen with the Department of Civil and Environmental Engineering.

The Center’s goals are two-fold:

- 1- To fill critical gaps in the research and available data on the underlying assumptions and effects of “Smart Growth,” including the effectiveness of state and local growth management initiatives; and,
- 2- To fill an equally critical gap in available education and training for decision makers who need new ideas and tools for adopting cross-disciplinary and

integrated approaches to managing growth, planning their land use, problem solving and implementation.

II. MISSION STATEMENT

The mission of the Center is to help the University of Maryland become nationally and internationally recognized as a leader in Smart Growth research and education.

The Center does this by bringing the diverse resources of the University of Maryland, and a network of national experts, to bear on issues of land development, resource preservation and urban growth through interdisciplinary research, outreach and education. This approach recognizes that work on these interwoven issues directly affects the nature of our communities, our landscape and environment and, ultimately, our quality of life.

III. HIGHLIGHTS OF 2005-2006

Adequate Public Facilities Ordinances in Maryland

In April 2006, Antonio Bento, an assistant professor in the School of Public Policy and research faculty member at the National Center for Smart Growth Research and Education and Jim Cohen, lecturer in the Department of Urban Studies and Planning and National Center for Smart Growth affiliate faculty member released findings of a study regarding Adequate Public Facilities Ordinances (APFOs) in Maryland. The study was commissioned by the Baltimore-area Home Builders Association of Maryland and the Maryland National Capital Building Industry Association.

The study, which examined the implementation and effects of APFOs in 12 Maryland counties and the relationship between APFOs and Maryland's Smart Growth policy, concluded that APFOs sometimes have been inappropriately used, contain school capacity standards and regulations that vary greatly across jurisdictions, and often result in unintended consequences. Specifically, APFOs are being applied in ways that often deflect development away from the very areas designated for growth, contrary to both the state's Smart Growth land use policy and the underlying intent of the ordinances.

In addition to its findings, the study offered several recommendations to improve APFO implementation in Maryland, many of which were modeled after recommendations originally made in 1999 by the Maryland Economic Growth, Resource Protection and Planning Commission.

Since its release, the study has drawn considerable interest in both the press and from local government officials.

China Land Policy Program

In its third year, the China Program at the National Center for Smart Growth Research and Education enjoyed its most active year since it was created in 2003 through an agreement with the Lincoln Institute of Land Policy in Cambridge, Massachusetts.

Recent highlights of the China Program have included:

- Extensive work assisting the Chinese to understand issues related to property taxation. An International Conference on Property Taxation was held in Feb. 25-26, 2005, with the Development Research Center. The executive summary was sent to the State Council. In addition, the China Program – with the financial backing of the Lincoln Institute -- has held workshops, established pilot studies, conducted training sessions and developed assistance publications.
- China's first International Conference on Urban Development and Land Policy was held in Hangzhou on Oct. 16-18, 2005, and was well-received. More than 100 scholars attended the conference, which received extensive media coverage about both research results as well as the Lincoln Institute's support for this project. The conference was used as a vehicle to help young scholars in their research.

- Mr. Chen Xiwen, vice-minister and top advisor to the Chinese Central Government, led a delegation to visit the Lincoln Institute on March 9-10, 2006. Lincoln, in turn, organized a series of lectures on legal and institutional framework for governing land use and land development, the role of governments in land management and development, efficient (urban) form for urban development and land policy, smart growth, principles of property tax, and international property taxation. The end of the lecture series was capped by a field trip to a local assessor's office in the greater Boston area.
- Assistance provided through the China Program for a major revision of the Beijing Urban Master Plan may have significant long-term impact on the way Chinese manage urban growth. A book on "Urban Planning and Spatial Structure" that was developed as a result of this project is one of the best selling books of its kind in China.

As a result of this work, Professor Ding was interviewed by *The Economist*, a prestigious international journal, in March 2006. In addition, his article on property taxation drew the personal attention of the vice-minister of the Ministry of Finance and a member of Politburo.

Estimating Residential Development Capacity

In October 2003, Maryland's Governor Ehrlich established the Development Capacity Task Force as a part of his Priority Places Executive Order. The members of the Task Force, including Dr. Gerrit-Jan Knaap, executive director of the National Center for Smart Growth Research and Education, were charged with reviewing methods to estimate development capacity in the state. As a result of the Task Force's work, the state of Maryland and its local jurisdictions have entered into a Memorandum of Understanding that stipulates that local governments will voluntarily measure their future development capacity and use standard methods to do so. The agreement also requires the state to provide technical assistance necessary to conduct the assessment.

In August 2005, the Maryland Department of Planning, in conjunction with the Lincoln Institute of Land Policy and the National Center for Smart Growth Research and Education, released a Guidebook to Estimating Residential Development Capacity. The Guidebook is based upon the findings and recommendations of the Development Task Force. The Guidebook serves primarily as a tool to help local governments in Maryland conduct a development capacity analyses by providing guidance for data, methodology and analysis reporting.

Governors' Institute on Community Design

Since 2005, the National Center for Smart Growth Research and Education has been partners with the Smart Growth Leadership Institute in Washington, D.C., to develop and put on workshops for governors who are interested in issues of growth, development and community design.

The project, called the Governors' Institute on Community Design, is modeled after the successful Mayor's Institute on City Design. It is funded by the National Endowment for the Arts and the U.S. Environmental Protection Agency.

The first two workshops were held in 2006, first with Governor Donald L. Carcieri of Rhode Island and his cabinet and staff, and several months later with Governor Tim Kaine of Virginia and his cabinet and staff. In both workshops, the governors and their staffs were interested in exploring issues related to the connection between land use and transportation. A third workshop was scheduled for year's end in Arizona.

The goal of the Governors' Institute on Community Design is to provide direct technical assistance to governors around the nation interested in improving performance in the area of land use and community design.

Incentives, Regulations and Plans

In January 2007, the National Center for Smart Growth Research and Education and the Habiforum Foundation will jointly release a book entitled *Incentives, Regulations and Plans: The Role of States and Nation-States in Smart Growth Planning*, published by Edward Elgar Publishing.

The book is a collection of papers prepared for the Center and Habiforum's Fall 2004 conference of the same name. The book contains chapters from a dozen European and North American researchers paired on six topics: containing sprawl, mixed use development, transit-oriented development, affordable housing, healthy urban designs, and Smart Growth implementation. The book represents the work of an international field of research, representing seven countries and five states.

Incentives, Regulations and Plans was edited by Center faculty and staff Gerrit-Jan Knaap, John Frece, and Kelly Clifton as well as Huibert Haccoû, an associate professor at the Saxion University for Professional Education IJselland in the Netherlands.

National Association of Realtors Smart Growth Course

The National Center for Smart Growth Research and Education was retained by the National Association of Realtors® to assist in the preparation of a series of lessons about the issue of Smart Growth that could be used by Realtor association nationwide.

James R. Cohen, a professor an the Urban Studies and Planning Department within the School of Architecture, Planning and Preservation, developed the full-day and half-day courses in a series of PowerPoint presentations on behalf of the Center.

Reality Check Plus

In May and June of 2006, Reality Check Plus events were held across Maryland, drawing 850 participants to participate in this innovative exercise to envision the state's

future growth. Four events were held across the state in Cambridge, Hagerstown, Baltimore, and St. Mary's City.

The results of the workshops, released in September 2006, showed that participants placed most new jobs and housing within existing towns and cities, protected open land and green spaces, and asked for better public transit to help their daily commutes. This vision for Maryland, expressed through Reality Check Plus, is very different from the current development pattern, from forecasts of how future development will occur, and from what current zoning would allow.

The Reality Check Plus events were sponsored by the National Center for Smart Growth Research and Education, in conjunction with the Urban Land Institute's Baltimore District Council and 1000 Friends of Maryland. In total, approximately 100 other organizations statewide supported the effort.

Smart Growth @ 10 Conference

In 1997, Maryland burst into the national spotlight with the passage of its Smart Growth and Neighborhood Conservation initiative. At that time, the initiative gained broad national recognition and praise. Next year, 2007, marks the 10-year anniversary of Maryland's experiment with Smart Growth.

To address questions regarding the long-term impact of the Smart Growth legislation in Maryland, the National Center for Smart Growth Research and Education at the University of Maryland will host a three-day conference, tentatively scheduled October 3-7, 2007, to commemorate the 10th anniversary of Maryland's landmark Smart Growth legislation. The conference will be organized around the topics of: urban growth management, agriculture and natural resources, housing and community development, transportation and infrastructure, intergovernmental relations, and the Maryland Program from a national perspective.

The conference is being co-hosted by Resources for the Future, a non-profit, non-partisan organization that conducts research on environmental, energy and natural resource issues.

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Lichtenberg, R. and C. Ding. 2005. Food Security: Land Policy vs. Agricultural Policy. Working Paper for the Lincoln Institute of Land Policy: Cambridge, MA.

Moglen, Glenn. (in press). Review of Spatial Patterns in Catchment Hydrology: Observations and Modelling, by Rodger Grayson and Gunter Blöschl (ed.s), in *Journal of Geoscience Education*.

National Center for Smart Growth and Lincoln Institute of Land Policy. 2005. Beijing 2030: An Evaluation of Alternative Growth Scenarios for the Capital of China. Working Paper for the Lincoln Institute of Land Policy: Cambridge, MA.

Song, Y., V. Zenour, and C. Ding. 2006. Let's Not Throw the Baby Out with the Bath Water: Suggestions to Redevelopment Policies of Urban Villages in China. Working Paper for the Lincoln Institute of Land Policy: Cambridge, MA.

V. EDUCATION AND TRAINING

China Program

Under the continuous direction of Dr. Chengri Ding, an Associate Professor of Urban Studies and Planning at the University of Maryland, the China Program has focused primarily on three significant areas:

1. Property Taxation: Introduction and development of a system of property taxation in China would be new to the Chinese and is likely have profound impacts socially, economically, and politically.
2. Urbanization, planning and policy. It is anticipated that as many as 10 million to 15 million Chinese will migrate each year to cities. Finding ways to accommodate such an influx of residents in terms of both jobs and shelter will be one of the nation's most daunting challenges in the years to come.
3. Land policy reform. Land policy reforms in general, and farmland preservation, land acquisition, land market development, land taxes and related issues have risen in prominence as the population has expanded and migrated to urban areas.

The China Program has operated in each of these areas, offering a variety of activities and assistance, including research, training, workshops and conferences and the hosting of visiting scholars.

Since its inception, the China Program has conducted approximately two dozen training sessions, about half of which were conducted during the 2005-2006 academic year. These training sessions have been held in Beijing, Huangshan, Changsha and in a number of other locations throughout China, at the Lincoln Institute offices in Cambridge, Mass., and at the National Center for Smart Growth at the University of Maryland in College Park, Md.

The training sections have focused on an array of issues, including:

- The Legal and Institutional Framework for Land Use and Development in the United States;
- Fundamentals in Local Public Finance;
- Training the Trainers Program: Public Finance and Property Taxation (twice);
- Training the Trainers Program: Urban Economics, Planning and Policy (twice);
- Training for Property Taxation for State Administration of Taxation officials from Ningxia Province;
- Planning in the Context of Market Forces;
- Land Use-Transportation Integration;
- Smart Growth and Land Policy;
- Ministry of Land and Resources Joint Training Program: Land Taxation and Land Use; and,
- State Administration of Taxation, the Second Joint Training Program: Theories and Practices of Real Estate Appraisal for Property Taxation.

National Association of Realtors Smart Growth Course

James R. Cohen, a professor in the Urban Studies and Planning Department within the School of Architecture, Planning and Preservation, developed the full-day and half-day courses in a series of PowerPoint presentations on behalf of the National Center for Smart Growth Research and Education. These presentations will also be accompanied by supplemental educational materials.

The National Association of Realtors intends these presentations and related materials for training sessions for Realtors, focusing on smart growth related issues and the relevance of smart growth to real estate professionals. Specific lessons focus on the forces that created sprawl development patterns; the costs of sprawl; an explanation of “smart growth;” several smart growth case studies; issues related to how growth is paid for; housing and smart growth; and what smart growth means to Realtors.

VI. CONFERENCES AND SYMPOSIA

Reality Check Plus

Four separate Reality Check Plus events were held across Maryland to determine how residents envision the state's future growth. The events were held in Cambridge on May 25, 2006; in Hagerstown on June 2; in Baltimore on June 9 and in St. Mary's City on June 15. Participants included state and local elected officials, planners, farmers, business executives, civic and environmental leaders, homebuilders, and developers.

At each Reality Check Plus event, participants gathered in small, diverse groups around large table-top maps of their regions. They were given plastic blocks that represented the increment of households and jobs forecast to come to that region by 2030. The exercises assumed Maryland's 2000 population of 5.3 million will expand to 7 million by 2030, a number based on data compiled from the U.S. Census Bureau and the Maryland Department of Planning.

The plans that resulted from the sessions were compared to conditions in 2000; to forecasts for 2030 by the Metropolitan Washington Council of Governments and the Baltimore Metropolitan Council (available only for Baltimore City and the 11 counties in the state's urban core); and, with a statewide "build-out" scenario that projects the ultimate development pattern permissible under current zoning.

The 850 participants in the Reality Check Plus events, agreed they wanted to protect environmental and water quality, preserve open space, connect growth with transit, create more affordable housing for lower and middle income families, and direct growth to Baltimore City and to other areas designated in local plans for growth. Their plans directed growth into compact designs within or next to existing communities.

Participants in all four regions of the state also supported greatly expanded transit opportunities, and an increase in the supply of housing for middle and lower income workers. They wanted renewed efforts to locate homes closer to where people work to cut commuting and its time, expense and environmental damage.

The National Center for Smart Growth Research and Education will continue to research growth scenarios and policy recommendations based upon the results of Reality Check Plus.

VII. MEDIA COVERAGE AND OUTREACH

Once again in 2005 and 2006, newspaper, radio and television reporters frequently contacted the National Center for Smart Growth to comment on a broad array of land use issues, locally, nationally and even internationally.

Researcher Reid Ewing was quoted by the *New York Times* in a story entitled, “Hey, I’m Walking Here,” about the linkages between sprawl, physical activity and obesity. Researcher Kelly J. Clifton appeared on television news shows in both Baltimore and Washington concerning her related work on pedestrians, physical activity and public health. Chengri Ding, head of the Center’s China Program, was interviewed by *The Economist*. Dr. Ding’s repeated trips and training sessions for Chinese officials, both in the United States and in the People’s Republic of China, generated nearly a dozen news reports in China.

Stories about other Center activities, such as research on Maryland adequate public facilities ordinances, generated numerous stories in the *Baltimore Sun*, *Washington Post*, *Washington Times*, *Washington Examiner*, *Hartford Courant*, *Orlando Sentinel*, *Planning Magazine*, and a variety of small newspapers throughout Maryland.

Two articles written by Center faculty and staff, one on the APFO study and the other on a Buildable Lot Inventory project, were featured in *Land Development Magazine*, an publication of the National Association of Home Builders.

Clearly, the most visible project at the Center was the series of growth visioning exercises known as Reality Check *Plus*. During 2005 and 2006, these events generated newspaper and broadcast coverage throughout Maryland and the District of Columbia, producing nearly four dozen stories about the Reality Check project and the National Center for Smart Growth’s involvement with it. More remarkable, this coverage came from two dozen different media outlets, from large newspapers like the *Washington Post* to small ones like the *Kent Island Bay Times*. These media outlets also represented virtually every corner of Maryland – from Cambridge, Easton and Somerset County on the Eastern Shore, to Frederick, Hagerstown and Cumberland in Western Maryland, to Calvert County and other small papers in Southern Maryland.

The *Baltimore Sun*, the state’s largest newspaper, wrote about Reality Check and/or the National Center for Smart Growth’s work on the project 13 times, including three supportive editorials.

Nor was the coverage limited to the print media. Reality Check stories also were aired on radio stations, including both the Baltimore and Washington public radio stations (WYPR and WAMU, respectively) as well as on a number of television stations. Organizations such as the Chesapeake Bay Foundation and the University of Maryland also wrote about the Reality Check effort in the newsletters they produce.

VIII. POLICY ADVISING, CONSULTATION, PRESENTATIONS

Antonio Bento

Bento, Antonio. *The Importance of Computable General Equilibrium Modeling to Environmental Economics*. Guest lecturer at the 8th Occasional California Workshop on Environmental and Resource Economics, organized by Charles D. Kolstad, Fall 2005 Santa Barbara, CA.

Bento, Antonio. *Invoking Moratoria in Priority Funding Areas in Maryland*. Presented at the 8th Annual Maryland's Homebuilders Association Conference on Growth. Fall 2005.

Kelly Clifton

Burnier, Carolina and Kelly J. Clifton. *Pedestrian-Vehicular Crashes: The Influence of Environmental Factors*. Presented at the Annual Conference of the Transportation Research Board, January, 25, 2006, Washington, DC.

Burnier, Carolina and Kelly J. Clifton. *Pedestrian-Vehicular Crashes: The Influence of Personal and Environmental Factors*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Clifton, Kelly J. *Travel Model Education Roundtable*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Clifton, Kelly J. *Walking and the Pedestrian Environment in Minority Communities: A Case Study in Maryland Communities*. Presented at the Harvard Civil Rights Project, Brookings Institution, January 2005, Washington, DC.

Clifton, Kelly J. and Kandice Kreamer-Fulfs. *The Role of Environmental Attributes in Explaining Pedestrian-vehicular Crashes near Public Schools*. Presented at the Annual Conference of the Transportation Research Board, January, 25, 2006, Washington, DC.

Livi, Andrea and Kelly J. Clifton. *The Development and Testing of An Audit for the Pedestrian Environment*. Presented at the Annual Conference of the Transportation Research Board, January, 25, 2006, Washington, DC.

Livi, Andrea and Kelly J. Clifton. *Walking Activity and the Role of Subjective and Objective Measure of the Built Environment*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Livi, Andrea, Kelly J. Clifton, and Daniel Rodriguez. *Improving Environmental Audit Reliability: The Importance of Training Materials*. Presented at Walking for Health,

Measurement and Research Issues and Challenges, American College of Sports Medicine, October 13-15, 2005, Urbana-Champaign, IL.

Targa, Felipe, Kelly J. Clifton and Hani S. Mahmassani. *Economic Activity and Transportation Access: An Econometric Analysis of Business Spatial Patterns*. Presented at the Annual Meeting of the Transportation Research Board, January 10-12, 2005, Washington, DC.

Targa, Felipe, Kelly J. Clifton and Hani S. Mahmassani. *Influence of Transportation Access on Individual Firm Location Decisions*. Presented at the Annual Conference of the Transportation Research Board, January, 25, 2006, Washington, DC.

Zhang, Feng, Kelly J. Clifton and Qing Shen. *Reexamining ICT Impact on Travel Patterns: A Case Study of the Baltimore Metropolitan Area*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Zhang, Feng, Kelly J. Clifton and Qing Shen. *Reexamining ICT Impact on Travel Patterns: A Case Study of the Baltimore Metropolitan Area*. Presented at the Symposium on Societies and Cities in the Age of Instant Access, University of Utah, November 10-12, 2005, Salt Lake City, UT.

Chengri Ding

Ding, C. *China Land Policy Reforms and its Impacts on Urbanization*. Presented at the Annual conference on Real Estate and Urban-Rural Development, November 12-13 2005, Taipei National University, Taiwan.

Ding, C. *City Dynamics: USA Experiences from 1950-2000*. Presented at Shanghai Pudong Official Management College, September 16, 2005, China.

Ding, C. *Land Policy Reform in China*. Presented at the 8th International Conference of the Institute of Revenues, Rating and Valuation, 2005, Alicante, Spain.

Ding, C. *Land Policy Reforms in China: Challenges and Prospect*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Ding, C. *Property Right Laws and Its Impacts on Land Use and Urban Development*. Presented June 26-28, France.

Ding, C. *Rapid Urbanization and Challenges for Planning in China*. Presented to the Taipei Municipal Government, November 14, 2005, Taipei, Taiwan.

Ding, C. *Urbanization and Property Taxation Reform in China*. Presented at the International Property Taxation Institute's 9th International Conference, August 22-23, 2006, Kuala Lumpur, Malaysia.

Ding, C., Y. Song, and Y. Huang. *Beijing Comprehensive Plan Revision 2004*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Reid Ewing

Ewing, Reid. *Balancing User Needs with New Street Guidelines*. Presented at the Annual Meeting of the Transportation Research Board, January 10-12, 2005, Washington, DC.

Ewing, Reid. *Best Development Practices: Exemplary Communities*. Presented at the Truckee Meadows Regional Planning Agency Guest Speaker Series, February 9, 2006, Reno, NV.

Ewing, Reid. *Comparing Forecasting Methods: Expert Land Use Panel vs. Simple Land Use Allocation Model*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Ewing, Reid. *Comparing Forecasting Methods: Expert Land Use Panel vs. Simple Land Use Allocation Model*. Presented at the Annual Meeting of the Transportation Research Board, January 10-12, 2005, Washington, DC.

Ewing, Reid. *Coordinating Land Use and Transportation: Best-in-Class Examples*. Presented at the North Carolina Metropolitan Planning Organizations, October, 26, 2005, Greenville, NC.

Ewing, Reid. *Design Flexibility on Urban "Main Streets."* Presented at the Midwest Region Context Sensitive Design & Solutions Workshop, August 26, 2005, Minneapolis, MN.

Ewing, Reid. *Developing Measures of the Built Environment Using Aerial Photographs*. Institute for Health Research and Policy, University of Illinois at Chicago. 2005-present.

Ewing, Reid. *Gateway-1 Highway Planning Study*. Maine Department of Transportation: Sub-consultant to HNTB. 2004-present.

Ewing, Reid. *Generalizing from Sacramento: What is Really Possible?* Presented at the Asilomar Conference on Transportation Energy and Environmental Policy, August 25, 2005, Monterey, CA.

Ewing, Reid. *Identifying and Measuring Urban Design Qualities Related to Walkability*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

- Ewing, Reid. *Identifying and Measuring Urban Design Qualities Related to Walkability*. Presented at the Annual Conference of the Transportation Research Board, January, 25, 2006, Washington, DC.
- Ewing, Reid. *Identifying and Measuring Urban Design Qualities Related to Walkability*. Presented at the National Institute of Environmental Health Sciences' Environmental Solutions to Obesity in America's Youth Conference, June 2, 2005, Washington, DC.
- Ewing, Reid. *Impacts of Urban Sprawl*. Presented at the Regional Leadership Series, March 31, 2005, Tampa, FL.
- Ewing, Reid. *Implications of Large Lot Zoning in the Countryside*. Presented at the Committee for A Sustainable Treasure Coast, March 7, 2005, Ft. Pierce, FL.
- Ewing, Reid. *Improving the Model Community: New Concepts for Columbia*. Presented at the Rail-Volution Conference, September 10, 2005, Salt Lake City, UT.
- Ewing, Reid. *Measuring the Health Effects of Sprawl*. Presented at the Kane County Board Transportation and Land Use Connection Series, February 22, 2006, Kane County, IL.
- Ewing, Reid. *Measuring Perceptual Qualities of Urban Environments*. Presented at the Robert Wood Johnson Foundation Active Living Research Conference, February 25-26, 2005, San Diego, CA.
- Ewing, Reid. *New Morgan Town Plan*. Arcadia Land Company: Wayne, PA. 2004-Present.
- Ewing, Reid. *Obesity Epidemic among American Youth—Is Urban Sprawl a Factor?* Presented at the Virginia Tech Lecture Series, December 7, 2005, Alexandria, VA.
- Ewing, Reid. *The Physical Environment and Healthy Communities*. Presented at the Maryland Citizen Planners Association, October 14, 2005, Hagerstown, MD.
- Ewing, Reid. *Re-Analysis of CALTRANS Median Tree Safety Study*. Joint Venture: Silicon Valley Network. 2005-present.
- Ewing, Reid. *Redesign of Downtown Columbia, MD*. General Growth Properties. 2005-present.
- Ewing, Reid. *Smart Growth and Transportation*. Presented at the Palm Beach County 2005 Economic Summit, November 9, 2005, West Palm Beach, FL.
- Ewing, Reid. *Traffic Analysis for Frederic County, MD*. Friends of Frederic County. 2005-present.

Ewing, Reid. *Traffic Calming Revisited*. Presented at the Annual Meeting of the Transportation Research Board, January 10-12, 2005, Washington, DC.

Ewing, Reid. *Traffic Calming Revisited*. Presented at the Streets Design Forum, February 12, 2005, Longmont, CO.

Ewing, Reid. *Transportation and Land Use Initiatives*. Presented at the Kane County Board Transportation and Land Use Connection Series, February 22, 2006, Kane County, IL.

Ewing, Reid. *Urban Redevelopment in the Absence of High Quality Transit*. Presented at the American Institute of Architects Transit and Design of 21st-Century Communities, October 8, 2005, Washington, DC.

John W. Frece

Frece, John W. *Multi-functional Intensive Land Use Conference, Cow Pasture or Downtown: The University of Maryland Campus in Hagerstown, Maryland*. Presented in October 2005, Munich, Germany.

Frece, John W. *Reducing Obesity and Chronic Disease Through the Built Environment*. Presented at the National Association of County and City Health Officials and Association of State and Territorial Health Officials Joint 2005 Conference, July 2005, Boston, MA.

Frece, John W. *Smart Growth 101*. Presented at the New Partners for Smart Growth Conference, January 2006, Denver, CO.

Frece, John W. *Smart Growth Presentation*. Presented to the Delegation from Guangzhou Province (People's Republic of China) at the Institute for Global Chinese Affairs, February 2006, College Park, MD.

Frece, John W. *The University of Maryland Campus at Hagerstown, University of Maryland*. Presented at the Smart and Sustainable Campuses Conference, sponsored by the U.S. Environmental Protection Agency, November 2005, College Park, MD.

Gerrit-Jan Knaap

Knaap, Gerrit-Jan and Chengri Ding. *The China Land Program at the National Center for Smart Growth*. Presented to at the US Department of Housing and Urban Development, 2005.

Knaap, Gerrit-Jan. *Housing Elements in Comprehensive Plans*. Presented to the Environment Committee, Maryland State House of Representatives, 2005.

Knaap, Gerrit-Jan. *Internally Connected, No Commercial, with a Touch of Open Space: the Neighborhoods of New Homes in the Portland Metropolitan Area*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Knaap, Gerrit-Jan. *Is Maryland a Model Growth Management State?* Presented at the University of Washington Department of Urban Planning and Design, 2005, Seattle, Washington.

Knaap, Gerrit-Jan. *Land Market Monitoring*. Presented at the Annual Conference of the American Planning Association, 2005.

Knaap, Gerrit-Jan. *Land Market Monitoring*. Presented at the National Smart Growth Conference, 2005.

Knaap, Gerrit-Jan. *Reality Checik, the Final Results*. Presented to the Fredericksburg Chamber of Commerce, 2005.

Knaap, Gerrit-Jan. *Reality Checik, the Final Results*. Presented at the Urban Land Institute, 2005.

Knaap, Gerrit-Jan. *Scenario Planning in the United States*. Presented at the Brookings Institution, 2005.

Knaap, Gerrit-Jan. *Seeing the Elephant*. Presented at the Annual Conference of the Association of Collegiate Schools of Planning, October 28-29, 2005, Kansas City, MO.

Knaap, Gerrit-Jan. *Smart Growth in Maryland: Gift to the Earth or Blip in History*. Presented at the New York University School of Law and Public Policy, 2005, New York.

Glenn Moglen

Moglen, G.E. *GISHydro2000: A Tool for Automated Hydrologic Analysis in Maryland*. Presented at the American Society of Civil Engineers' Watershed 2005 Management Conference, July 19-22, 2005, Williamsburg, VA.

Moglen, G.E. *Limiting Imperviousness to Maintain Ecological Quality: Are Threshold-based Policies a Good Idea?* Presented at the American Planning Association 2006 National Planning Conference, April 23, 2006, San Antonio, TX.

Moglen, G.E. *Urbanization, Imperviousness, and Hydrologic Change in Maryland and Beyond*. Presented at the Maryland Water Resources Research Center Annual Conference—Urbanization: Stresses on Maryland's Water Resources, November 18, 2005, College Park, MD.

Woodward, D. and G.E. Moglen. *The State of Maryland Hydrology Panel Report*. Presented at the American Society of Civil Engineers' Watershed 2005 Management Conference, July 19-22, 2005, Williamsburg, VA.

IX. FACULTY AND STAFF BIOGRAPHIES

Rachelle Beasley joined the Center as Coordinator in August 2005. She has been with the University of Maryland College Park for 13 years, working with departments such as Engineering, Health & Human Performance and the Graduate School. She is a current member of the National Council of University Research Administrators. She is in the process of completing her Bachelors Degree in Business Management with the University of Maryland – University College.

Antonio Bento is an assistant research professor at the Center and holds an assistant professorship in the School of Public Policy. His fields of interest include environmental economics and policy, urban economics and public economics. Since joining the Center in 2004, Bento has had three papers accepted for publication in prestigious journals, including, “The Efficiency and Distributional Impacts of Anti-Sprawl Policies” (with Sofia Franco), forthcoming in the *Journal of Urban Economics*. He also is conducting research on the impacts of urban growth boundaries on housing prices in California and the impacts of urban sprawl on community participation and civic engagement. Bento is an environmental economist who earned his Ph.D. at the University of Maryland in Agricultural and Resource Economics. He also holds a degree of Licenciatura in Economics from the Universidade Nova de Lisboa in Portugal.

Kelly J. Clifton is a research faculty with the Center and is assistant professor in the Urban Studies and Planning Program. She is also affiliated with the Civil and Environmental Engineering Department and the Master Program in Engineering and Public Policy. Her research and teaching activities focus on the influence of the built environment on transportation choices.

Recently, Dr. Clifton is involved with a number of projects that focus on non-motorized transportation. She is currently researching the connections between the built environment, walking and health as part of two multi-year studies funded by the Active Living Research Program of the Robert Wood Johnson Foundation. She is funded by the Maryland State Highway Administration to develop and test a model of pedestrian demand. Dr. Clifton has also completed several studies of pedestrian safety, which examines the physical environment at crash locations.

She holds a B.S. degree in mechanical engineering from West Virginia University, a M.S. degree in planning from the University of Arizona, and a Ph.D. in community and regional planning from the University of Texas at Austin.

Chengri Ding is associate professor of Urban Studies and Planning and director of the Chinese Land Policy Program, co-sponsored by the University of Maryland and the Lincoln Institute of Land Policy. His research interests include urban economics, growth management, housing and land studies, and the application of quantitative methods and GIS to issues in planning and public policy. He holds a B.S. degree from Beijing Normal University, an M.S. degree from the Chinese Academy of Sciences, and a Ph.D. from the University of Illinois at Urbana-Champaign in regional planning.

Reid Ewing is Associate and Research Professor at the National Center for Smart Growth, University of Maryland. Ewing has written books for the major planning and development organizations: *Developing Successful New Communities* for the Urban Land Institute; *Best Development Practices* and *Transportation and Land Use Innovations* for the American Planning Association; and *Traffic Calming State-of-the-Practice* for the Institute of Transportation Engineers. The two books for the American Planning Association made him APA's top selling author for many years. His 1997 *Journal of the American Planning Association* article on sprawl is listed by APA as a "classic" in urban planning. His 2003 study of sprawl and obesity may have received more national media coverage than any planning study ever. It was the most widely cited academic paper in the Social Sciences as of late 2005, according to *Essential Science Indicators*.

Ewing holds master degrees in Engineering and City Planning from Harvard University and a Ph.D. in Transportation Systems and Urban Planning from the Massachusetts Institute of Technology. Formerly, he was the Director of the Voorhees Transportation Center at Rutgers University, and earlier in his career, he served two terms in the Arizona legislature and worked on urban policy issues at the Congressional Budget Office. In 2004, he was appointed Associate Editor of the *Journal of the American Planning Association* and Fellow of the Urban Land Institute. In May 2006, he was profiled in *Planning* magazine. In summer 2006, he guest-edited the special issue on transportation of the *Journal of the American Planning Association*. In November 2006, Ewing begins a bi-monthly column in *Planning* magazine on "Planning Research You Can Use."

John W. Frece is the Center's associate director and an adjunct professor in Urban Studies and Planning. His responsibilities include public outreach and response to media inquiries related to smart growth generally and Maryland's Smart Growth initiative specifically. He coordinates publications, web page content, writes and edits articles, assists and teaches in the Center's Smart Growth Leadership Program, and serves as a deputy to the Executive Director. A longtime newspaper and wire service reporter, Frece previously worked for seven years on the staff of the governor of Maryland, where he was the chief spokesman for Maryland's Smart Growth initiative. He holds a B.A. in philosophy from the College of William and Mary in Virginia.

Gerrit-Jan Knaap, the Center's executive director, is an economist and professor of Urban Studies and Planning. He is the author of more than 50 articles and five books on state and local land use planning and economics. His research interests include the economics and politics of land use planning, the efficacy of economic development instruments, and impacts of environmental policy. He is co-author, editor, or co-editor of six books: *Land Market Monitoring for Smart Urban Growth*; *Environmental Program Evaluation*; *Spatial Development in Indonesia*; *The Regulated Landscape: Lessons on State Land Use Planning from Oregon*; *Partnerships for Smart Growth: University-Community Collaboration for Better Public Places*; and, *Incentives, Regulations, and Plans: The Role of States and Nation-States in Smart Growth Planning*. He earned a B.S. from Willamette University, his M.S. and Ph.D. from the

University of Oregon, and received post-doctoral training at the University of Wisconsin-Madison, all in economics.

Glenn Moglen is an associate research scientist at the Center and an associate professor in the Department of Civil and Environmental Engineering. His research focuses on issues of urbanization and the impacts of land use change on the hydrologic environment. His work frequently employs the use of Geographic Information Systems (GIS) and its use in modeling applications. Recent efforts of Moglen have sought to apply quantitative measures to land development decisions in efforts to minimize impacts to the hydrologic and ecological environments. His work has been published in many journals including Water Resources Research, the Journal of Hydrologic Engineering (ASCE), the Journal of Hydrology, the Journal of the American Water Resources Association, Geomorphology, and Ecosystems. He is also an author in the recently published Encyclopedia of Hydrology on the topic of digital elevation model analysis in GIS. Moglen has recently completed a sabbatical at the U.S. Geological Survey, Office of Surface Water, where he focused on developing new methods for estimating flood frequency in urbanizing landscapes. He holds a B.S. from the University of Maryland, an M.S. from Colorado State University, and a Ph.D. from the Massachusetts Institute of Technology.

X. AFFILIATE FACULTY

More than two dozen University of Maryland faculty and faculty from other academic institutions are affiliates of the Center. Home departments include Public Policy, Agricultural Economics, American Studies, Geography, Landscape Architecture, The Academy of Leadership, Historic Preservation, Engineering, Architecture, and Urban Studies. The affiliate faculty members often work with faculty and staff at the Center or are engaged in research consistent with the mission of the Center.

2005-2006 Faculty Affiliates

Anna Alberini

Associate Professor
Agricultural and Resource Economics

Jim Cohen

Director and Lecturer
Urban Studies and Planning Program

Uri Avin, FAICP

Practice Leader, PB PlaceMaking
Parsons Brinckerhoff (Baltimore)

Malise Dick

Adjunct Professor
School of Business

Howell S. Baum

Professor
Urban Studies and Planning Program

Charles G. Field

Senior Research Fellow
School of Public Policy

Matthew J. Bell

Associate Professor
School of Architecture

Christopher H. Foreman

Director of Social Policy Program
School of Public Policy

Ralph Bennett

Professor
School of Architecture

Steven A. Gabriel

Assistant Professor
Civil and Environmental Engineering

Sidney N. Brower

Professor
Urban Studies and Planning Program

William Hanna

Professor
Urban Studies and Planning Program

Judy Brown

Visiting Professor
School of Public Policy

Marie Howland

Director and Professor
Urban Studies and Planning Program

Marita B. Brown

Senior Resident Scholar
School of Public Policy

Steven Hurtt

Professor
School of Architecture

Shenglin Chang

Assistant Professor
Natural Resource Science
Landscape Architecture

Mary Konsoulis

Lecturer
Historic Preservation Program

Erik Lichtenberg
Professor
Agriculture and Resource Economics

Donald W. Linebaugh
Associate Professor and Director
Historic Preservation Program

Loretta M. Lynch
Associate Professor
Agricultural and Resource Economics

David N. Myers
Assistant Professor
Natural Resource Sciences
Landscape Architecture

Robert H. Nelson
Professor
School of Public Policy

Matthias Ruth
Professor
School of Public Policy

Peter Shapiro
Senior Fellow
Academy of Leadership
School of Public Policy

Qing Shen
Professor
Urban Studies and Planning Program

Mary Corbin Sies
Associate Professor
American Studies

Jungyul Sohn
Assistant Professor of Geography
Department of Earth Sciences
University of Memphis

Yan Song
Assistant Professor
City and Regional Planning
University of North Carolina - Chapel Hill

Carolyn C. Voorhees
Research Assistant Professor
Public and Community Health

Wim Wiewel
Provost and Senior Vice President for
Academic Affairs
University of Baltimore

APPENDIX 1 – GRANTS AND CONTRACTS

Project Title: Demonstration Project on Baltimore/DC Metro Growth

Leadership: PI Gerrit Knaap

Funding Source: Lincoln Institute of Land Policy

Award Amount: \$ 50,000

Project Title: Development of Smart Growth Training Materials for the National Association of Realtors

Leadership: PI James Cohen

Funding Source: National Association of Realtors

Award Amount: \$ 150,00

Project Title: Educational Programs & Traveling for Lincoln Institute

Leadership: PI Chengri Ding

Funding Source: Lincoln Institute of Land Policy

Award Amount: \$ 30,000

Project Title: Eisenhower Graduate Fellowship - 2005

Leadership: PI Carolina Burnier

Funding Source: DOT - FHA

Award Amount: \$ 11,500

Project Title: Eisenhower Graduate Fellowship - 2005

Leadership: PI Andrea Livi

Funding Source: DOT - FHA

Award Amount: \$ 1,500

Project Title: FHWA/NHI Transportation and Land Use Training Course

Leadership: PI Reid Ewing

Funding Source: Cambridge Systematics, Inc. Sub

Award Amount: \$ 8,750

Project Title: Improving Pedestrian Safety through Pedestrian Modeling in Maryland

Leadership: PI Kelly Clifton

Funding Source: STMD - MDOT / SHA

Award Amount: \$ 98,306

Project Title: Increasing Walking and Bicycling with Federal Funding

Leadership: PI Reid Ewing

Funding Source: UC - Davis

Award Amount: \$ 20,722

Project Title: Initiatives toward Developing a Transatlantic Land Policy Research Program

Leadership: PI Gerrit Knaap

Funding Source: Lincoln Institute of Land Policy

Award Amount: \$ 15,000

Project Title: Institute for Museum, Preservation, and Archaeology Research and Training (IMPART)

Leadership: PI Don Linebaugh

Funding Source: IMPART

Award Amount: \$ 6,000

Project Title: Lively Streets: Exploring the Relationship between the Physical Environment and Social Behavior

Leadership: PI Vikas Mehta, CoPI Sidney Brower

Funding Source: Robert Wood Johnson Foundation

Award Amount: \$ 24,077

Project Title: Reality Check on Growth

Leadership: PI Gerrit Knaap

Funding Source: Fredericksburg Chamber of Commere

Award Amount: \$ 25,000

Project Title: Research and Administrative Assistance for Lincoln Instititue on Land Policy

Leadership: PI Chengri Ding

Funding Source: Lincoln Institute of Land Policy

Award Amount: \$ 50,032

Project Title: Smart Growth Indicators' Project

Leadership: PI Gerrit Knaap

Funding Source: UMF The Abell Foundation

Award Amount: \$ 52,000

Project Title: Solar Decathlon 2007

Leadership: PI Amy Gardner, CoPI Kaye Brubaker

Funding Source: Govt. Labs NREL (National Reveal Energy)

Award Amount: \$ 50,000

Project Title: Testing Associations between Physical Activities and the Built Environment

Leadership: PI Kelly Clifton

Funding Source: UNC-Chapel Hill

Award Amount: \$ 61,470

Project Title: Traffic Calming Case Studies
Leadership: PI Reid Ewing
Funding Source: Active Living Research IV Sub
Award Amount: \$ 30,000

Project Title: Transportation Planning/Engineering/Urban Design Services
Leadership: PI Reid Ewing
Funding Source: Delaware Regional Planning
Award Amount: \$ 14,995