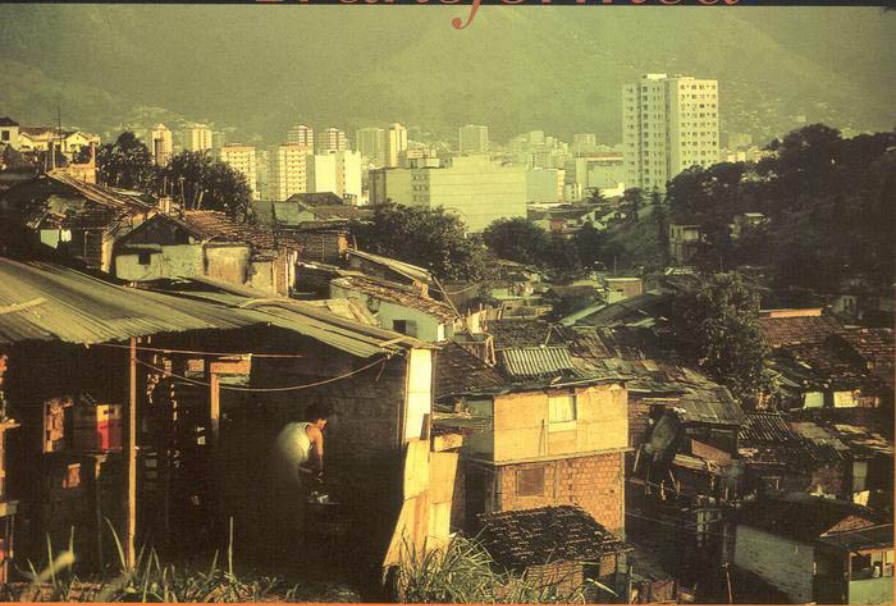


Cities Transformed



**Demographic Change and Its Implications
in the Developing World**

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Cities Transformed

**Demographic Change and Its Implications
in the Developing World**

Panel on Urban Population Dynamics
Mark R. Montgomery, Richard Stren, Barney Cohen,
and Holly E. Reed, Editors

Committee on Population
Division of Behavioral and Social Sciences and Education

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

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Pravin Visaria (1937–2001)



This volume is dedicated to our colleague Pravin Visaria, who passed away during the completion of this project.

Pravin was director of the Institute of Economic Growth in Delhi and worked closely with the Indian government's Planning Commission, Department of Statistics, Office of the Registrar General, and Ministry of Health and Family Welfare. A distinguished scholar who held positions with the University of Bombay, the World Bank, and the Gujarat Institute of Development Research, Pravin was always involved in important policy-relevant economic and demographic research. He published numerous articles and books on mortality, fertility, migration, urbanization, labor force and employment, population projections, censuses and surveys, poverty, and population policy, especially in the Indian context. Pravin also held leadership positions with many important academic and policy organizations, including the Indian Association for the Study of Population, the National Sample Survey Organization of India, and the Gujarat Economic Association.

Pravin was an especially constructive and committed member of the Panel on Urban Population Dynamics. He not only provided much information about the rapid urbanization of one of the world's largest countries—India—but he also pushed the panel to evaluate its own thinking, insisting that we always consider our arguments from the viewpoint of policy makers in poor countries, who need to deal with very large rural, as well as urban populations. Pravin was a member of so many research networks and institutions over the years, and friends around the world mourned his sad and early death. We remember him as our friend who continually reminded us of the purpose of our research: to guide us towards better policy decisions.

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Acknowledgments

As co-chairs of the Panel on Urban Population Dynamics, we would like to say on behalf of the panel that we have been privileged and challenged by our task of examining the rapid urbanization of the developing world and its causes and consequences. *Cities Transformed: Demographic Change and Its Implications in the Developing World* is the product of a three-and-a-half-year effort in which we both reviewed the existing literature and conducted new analyses in the hope of encouraging demographers (and, by extension, other urban scholars) to take a fresh look at this topic. If others are moved to follow up, or to criticize some of the work we have presented in this volume, our time will not have been wasted.

This report would not have been possible without the help of numerous people and organizations. First, we wish to thank the reports' sponsors: the Andrew W. Mellon Foundation (whose program officer, Carolyn Makinson, was a fount of enthusiasm and intellectual energy), the Canadian International Development Agency, the United States Agency for International Development, and the William and Flora Hewlett Foundation. Their generous support for this project allowed us to draw creatively on a variety of resources that ultimately made for a stronger report.

This report is the collective product of panel members and staff. Its content reflects the deliberations of the full panel. The panel reviewed all contributions, and these have been revised and edited in light of panel reactions and the comments of outside reviewers. The purpose of the following list, therefore, is to give credit to individuals on the panel but not to assign final responsibility for the published text.

Executive Summary: This is the collective product of the deliberations of the entire panel.

Chapter 1: B. Cohen and M. Montgomery

Chapter 2: M. Montgomery, H. Reed, D. Satterthwaite, M. White, M. Cohen, T. McGee, and Y. Yeung

Chapter 3: B. Cohen, M. White, M. Montgomery, T. McGee, and Y. Yeung

Chapter 4: M. White, M. Montgomery, E. Brennan-Galvin, and P. Visaria

Chapter 5: D. Satterthwaite, M. Montgomery, and H. Reed

Chapter 6: M. Montgomery, H. Reed, and M. White

Chapter 7: T. Harpham, H. Reed, M. Montgomery, D. Satterthwaite,
C. Moser, and B. Cohen

Chapter 8: C. Becker, A. Dubresson, G. Garza, S. Sassen, M. Cohen,
M. Montgomery, and B. Cohen

Chapter 9: R. Stren, T. McGee, C. Moser, and Y. Yeung

Chapter 10: R. Stren, B. Cohen, M. Montgomery, and H. Reed

Appendix A: E. Brennan-Galvin and M. Montgomery

Appendices B–F: M. Montgomery

It should be noted that although this list covers major sections of this volume, these sections frequently contain additional paragraphs or pages from other hands. Primary responsibility for the revision and editing of the volume was shared by Mark Montgomery, Richard Stren, Barney Cohen, and Holly Reed.

Anthony Champion, University of Newcastle upon Tyne, served as official liaison between the panel and the International Union for the Scientific Study of Population's Working Group on Urbanisation. Tony helped review the panel's report informally and offered important suggestions and advice. We are very grateful for his many contributions.

Numerous other individuals also made key contributions to the panel's efforts. We are especially indebted to Martin Bockerhoff, who was with the panel in its first year. His intellectual legacy to this volume is evident in Chapter 6, which evolved along the lines that Martin had anticipated in the panel's early deliberations. Paul C. Hewett of The Population Council devoted countless hours to the analysis of data from the Demographic and Health Surveys. Brian Pence, also of The Population Council, made a number of key contributions to analyses of mortality. Doreen Totaram of The Population Council skillfully prepared the massive reference list for the report.

Anne Kubisch of the Aspen Institute provided many leads to the neighborhood effects literature for the United States that is discussed in Chapter 2. Alice Clague of the United Nations generously made available a prepublication version of data from the *1998 Demographic Yearbook*, without which we could not have derived results for city size classes. Using these data, Edward Hui (at the time an undergraduate at Brown University) took on the difficult task of matching city-specific population data to the region and city size identifiers from the Demographic and Health Surveys datasets. Roberta Scheinman linked data on HIV-AIDS from the U.S. Census Bureau's database to the United Nations city population file. Ann Ilacque, librarian at the PSTC at Brown University, and Sara Colangelo, a Brown University undergraduate, contributed to the literature reviews for Chapter 4.

Sassy Molyneux (working from the Kenya Medical Research Institute, Wellcome Trust Centre for Geographic Medicine Research, Kilifi, Kenya) and Emma Grant (South Bank University, London) both contributed unequalled expertise to the early versions of Chapter 7. We also thank Gordon McGranahan, International Institute for Environment and Development, London, and John Seager, Medical Research Council, Cape Town, South Africa, for their comments on this chapter.

Several people participated in a planning meeting in December 1998 to help formulate a plan for the panel's contributions. We have been mindful of the advice we received from the following people at that meeting: Richard Bilsborrow, University of North Carolina at Chapel Hill; Sidney Goldstein, Brown University; Josef Gugler, University of Connecticut; and David Lam, University of Michigan at Ann Arbor.

The panel was fortunate to be able to hold several workshops on topics related to our undertaking. In this way, we were able to gain insights from a number of people outside of the panel. The first workshop we held, in October 1999, which addressed the topic of "world cities in poor countries," was organized with the help of Josef Gugler, University of Connecticut. We are grateful to Dr. Gugler for identifying an array of scholars from around the world who presented case studies: Janet Abu-Lughod, New School University; Maria Helena Moreira Alves, Instituto de Ciencias Aplicadas, Santiago, Chile; James H. Bater, University of Waterloo; Owen Crankshaw, University of Cape Town; Dean Forbes, University of South Australia; Susan Parnell, University of Cape Town; Sujata Patel, University of Pune; Janet W. Salaff, University of Toronto; Alvin Y. So, The Hong Kong University of Science and Technology; Peter M. Ward, University of Texas at Austin; Douglas Webster, National Economic and Social Development Board of Thailand; Weiping Wu, Virginia Commonwealth University; and Shahid Yusuf, The World Bank. The papers from this workshop will be published in the edited volume *World Cities in Poor Countries* by Cambridge University Press in 2003.

In February 2000, the panel was hosted by panel member Gustavo Garza and his colleagues for a meeting at El Colegio de México, where we had the opportunity to learn firsthand about urbanization processes in Mexico City. Gustavo organized a wonderful tour of the city for us, focusing on public services and housing. We thank him for his assistance and are grateful to our other hosts: Andrés Lira, President, El Colegio de México; Manuel Ordorica Mellado, Director, Center for Demographic and Urban Development Studies at El Colegio de México; and Gabriela Grajales, El Colegio de México. We benefited from the presentations of several guest speakers for this meeting as well: David Arellano, Center for Economic Research and Education; Andrés Lira, El Colegio de México; Orlandina de Oliveira, El Colegio de México; Rosa Maria Rubalcava, Mexican National Council on Population; Carlos Santos-Burgoa, Institute of Health, Environment, and Employment; and Willem VanVliet, University of Colorado, Boulder.

The panel's work on urban health was furthered and materially assisted by the participants in a workshop on social capital and urban health held in May 2000. Trudy Harpham and Mark Montgomery from the panel co-chaired this meeting. The participants shared their knowledge of the linkages between health and social capital in both richer and poorer countries. We thank the following people for their participation: Karen Hansen, Northwestern University; Ichiro Kawachi, Harvard University; Nan Lin, Duke University; Alberto Palloni, University of Wisconsin at Madison; Edith Parker, University of Michigan at Ann Arbor; Joseph Potter,

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In September 2000, our panel was privileged to hold a meeting in Woods Hole, Massachusetts, where Seymour S. Cohen, a member of the National Academy of Sciences and father of panel member Michael A. Cohen, served as host. A workshop on urban governance held in conjunction with this meeting included the following participants: Koffi Attahi, Bureau National d'Etudes Techniques et de Développement, Abidjan, Côte d'Ivoire; Jordi Borja, Urban Technology Consulting, Barcelona, Spain; Gu Chaolin, Nanjing University; Patricia McCarney, University of Toronto; AbdouMaliq Simone, New School University; and K. C. Sivaramakrishnan, Centre for Policy Research, New Delhi, India. The papers written by Dr. Attahi, Dr. Borja, Dr. Gu, Dr. Sivaramakrishnan, and Dr. Edgar Pieterse, Islanda Institute, South Africa, proved very helpful to the panel in our work on governance.

Many other colleagues supplied the panel with research in the form of background papers. These papers, which served as valuable resources for the report, were written by Kathryn H. Anderson, Vanderbilt University; Cris Beauchemin, Université de Paris VIII; Philippe Bocquier, Institut de Recherche Pour le Développement, Nairobi, Kenya; Pablo Ciccolella, Universidad Nacional de Buenos Aires; Simone Buechler, Columbia University; Christopher Dunn, University of Michigan; Valerie Durrant, National Research Council; Martha Galvez, Citizens Housing and Planning Council, New York; Emma Grant, South Bank University, London; Christopher D. Grewe, University of Colorado; Paul C. Hewett, Population Council; Åsa Jonsson, International Institute for Environment and Development, London; David Lam, University of Michigan; Sang-Hyop Lee, University of Hawaii; Zai Liang, City University of New York; Andrew Mason, University of Hawaii; Iliana Mignaqui, Universidad Nacional de Buenos Aires; Sassy Molyneux, Kenya Medical Research Institute, Wellcome Trust Centre for Geographic Medicine Research, Kilifi, Kenya; Erbolat Musabekov, Kazakhstan National Statistical Agency; Yiu Por Chen, Columbia University; Sueli Schiffer, Universidade de São Paulo; Ai-Gul Seitenova, Pragma Corporation, Kazakhstan; Sunil Kumar Sinha, Institute for Economic Growth, Mumbai, India; Cecilia Tacoli, International Institute for Environment and Development, London; and Dina Urzhumova, Pragma Corporation, Kazakhstan.

This report has been reviewed in draft form by individuals chosen for their diverse perspectives and technical expertise, in accordance with procedures approved by the National Research Council's Report Review Committee. The purpose of this independent review is to provide candid and critical comments that

will assist the institution in making its published report as sound as possible and to ensure that the report meets institutional standards for objectivity, evidence, and responsiveness to the study charge. The review comments and draft manuscript remain confidential to protect the integrity of the deliberative process. We wish to thank the following individuals for their review of this report:

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Although the reviewers listed above have provided many constructive comments and suggestions, they were not asked to endorse the panel's conclusions or recommendations, nor did they see the final draft of the report before its release. The review of this report was overseen by Ronald Lee, Department of Demography, University of California, Berkeley, CA, and Brian J.L. Berry, School of Social Science, University of Texas, Richardson, TX. Appointed by the National Research Council, they were responsible for making certain that an independent examination of this report was carried out in accordance with institutional procedures and that all review comments were carefully considered. Responsibility for the final content of this report rests entirely with the authoring panel and the institution.

We especially wish to recognize the efforts of several staff of The National Academies, who provided critical support for the panel and our work. Jianjun Ji and Ito Toshima, interns with the Committee on Population, lent their energy and skills to background research for the report. Michelle McGuire assisted with proofreading and editing of the final manuscript. In the Reports Office of the Division of Behavioral and Social Sciences and Education, Kirsten Sampson Snyder helped guide the manuscript through review, editing, and finally publication. And Rona Briere applied her considerable editorial talent to this daunting text; we are deeply indebted to her.

Elizabeth Wallace organized our earliest panel meetings and skillfully assisted with other administrative tasks. We are also grateful for the help of Brian Tobachnick, who guided the panel through logistical arrangements for subsequent meetings and helped keep the finances and paperwork for the project under control. Christine Chen made arrangements for our crucial final meeting in Boulder,

Colorado, and helped transition the panel smoothly into the hands of Ana-Maria Ignat. Ana-Maria has been a steadfast help to the panel, not only by organizing logistical matters with ease and grace, but also by providing a great deal of research support and editorial expertise. Her assistance has made dealing with the final stages of editing and managing the manuscript a fluid and virtually worry-free process.

We are grateful to all the individuals who contributed to this immense undertaking. It would not have been possible without their continual, generous, and imaginative support.

Mark R. Montgomery and Richard Stren, *Co-Chairs*
Panel on Urban Population Dynamics

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