# REENGINEERING THE 2010 CENSUS

Risks and Challenges

NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES

# **Reengineering The 2010 Census Risks And Challenges**

Gary Rassel, Suzanne Leland, Zachary Mohr, Elizabethann O'Sullivan

#### Reengineering The 2010 Census Risks And Challenges:

Reengineering the 2010 Census National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Research on Future Census Methods, 2004-03-25 At the request of the U S Census Bureau the National Research Council's Committee on National Statistics established the Panel on Research on Future Census Methods to review the early planning process for the 2010 census This new report documents the panel s strong support for the major aims of the Census Bureau s emerging plan for 2010 At the same time it notes the considerable challenges that must be overcome if the bureau s innovations are to be successful The panel agrees with the Census Bureau that implementation of the American Community Survey and with it the separation of the long form from the census process are excellent concepts Moreover it concurs that the critically important Master Address File and TIGER geographic systems are in dire need of comprehensive updating and that new technologies have the potential to improve the accuracy of the count The report identifies the risks and rewards of these and other components of the Census Bureau s plan The report emphasizes the need for the bureau to link its research and evaluation efforts much more closely to operational planning and the importance of funding for a comprehensive and rigorous testing program before 2010 Reengineering the 2010 Census National Research Council, Division of Behavioral and Social Sciences and Education, PANEL ON RESEARCH ON FUTURE CENSUS METHODS., Committee on National Statistics, 2004-03-25 At the request of the U S Census Bureau the National Research Council TM's Committee on National Statistics established the Panel on Research on Future Census Methods to review the early planning process for the 2010 census This new report documents the panel TM s strong support for the major aims of the Census Bureau TM s emerging plan for 2010 At the same time it notes the considerable challenges that must be overcome if the bureau TM s innovations are to be successful The panel agrees with the Census Bureau that implementation of the American Community Survey and with it the separation of the long form from the census process are excellent concepts Moreover it concurs that the critically important Master Address File and TIGER geographic systems are in dire need of comprehensive updating and that new technologies have the potential to improve the accuracy of the count The report identifies the risks and rewards of these and other components of the Census Bureau TM s plan The report emphasizes the need for the bureau to link its research and evaluation efforts much more closely to operational planning and the importance of funding for a comprehensive and rigorous testing program before 2010 Reengineering the 2010 Census National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Research on Future Census Methods, 2004-04-25 At the request of the U.S. Census Bureau the National Research Council's Committee on National Statistics established the Panel on Research on Future Census Methods to review the early planning process for the 2010 census This new report documents the panel's strong support for the major aims of the Census Bureau s emerging plan for 2010 At the same time it notes the considerable challenges that must be overcome if

the bureau s innovations are to be successful The panel agrees with the Census Bureau that implementation of the American Community Survey and with it the separation of the long form from the census process are excellent concepts Moreover it concurs that the critically important Master Address File and TIGER geographic systems are in dire need of comprehensive updating and that new technologies have the potential to improve the accuracy of the count The report identifies the risks and rewards of these and other components of the Census Bureau s plan The report emphasizes the need for the bureau to link its research and evaluation efforts much more closely to operational planning and the importance of funding for a comprehensive and rigorous testing program before 2010 **Progress of Reengineered 2010 Census** United States. Congress. House. Committee on Oversight and Government Reform. Subcommittee on Information Policy, Census, and National Archives, 2007 2010 Census Mathew J. Scirè, 2007-09 **Experimentation and Evaluation Plans for the** 2010 Census Lawrence D. Brown, Michael L. Cohen, Daniel L. Cork, Panel on the Design of the 2010 Census Program of Evaluations and Experiments, National Research Council, 2008-01-24 For the past 50 years the Census Bureau has conducted experiments and evaluations with every decennial census involving field data collection during which alternatives to current census processes are assessed for a subset of the population An evaluation is usually a post hoc analysis of data collected as part of the decennial census processing to determine whether individual steps in the census operated as expected The 2010 Program for Evaluations and Experiments known as CPEX has enormous potential to reduce costs and increase effectiveness of the 2020 census by reducing the initial list of potential research topics from 52 to 6 The panel identified three priority experiments for inclusion in the 2010 census to assist 2020 census planning 1 an experiment on the use of the Internet for data collection 2 an experiment on the use of administrative records for various census purposes and 3 an experiment or set of experiments on features of the census questionnaire They also came up with 11 recommendations to improve efficiency and quality of data collection including allowing use of the Internet for data submission and including one or more alternate questionnaire experiments to examine things such as the representation of race and ethnicity Reengineering the Survey of Income and Program Participation National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on the Census Bureau's Reengineered Survey of Income and Program Participation, 2009-11-26 Beginning in 2006 the Census Bureau embarked on a program to reengineer the Survey of Income and Program Participation SIPP to reduce its costs and improve data quality and timeliness The Bureau also requested the National Academies to consider the advantages and disadvantages of strategies for linking administrative records and survey data taking account of the accessibility of relevant administrative records the operational feasibility of linking the quality and usefulness of the linked data and the ability to provide access to the linked data while protecting the confidentiality of individual respondents In response this volume first examines the history of SIPP and reviews the survey s purpose value strengths and weaknesses The book examines alternative uses of administrative records in a reengineered SIPP and finally

considers innovations in SIPP design and data collection including the proposed use of annual interviews with an event history calendar Coverage Measurement in the 2010 Census National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Correlation Bias and Coverage Measurement in the 2010 Decennial Census, 2009-02-08 The census coverage measurement programs have historically addressed three primary objectives 1 to inform users about the quality of the census counts 2 to help identify sources of error to improve census taking and 3 to provide alternative counts based on information from the coverage measurement program In planning the 1990 and 2000 censuses the main objective was to produce alternative counts based on the measurement of net coverage error For the 2010 census coverage measurement program the Census Bureau will deemphasize that goal and is instead planning to focus on the second goal of improving census processes This book which details the findings of the National Research Council's Panel on Coverage Evaluation and Correlation Bias strongly supports the Census Bureau's change in goal However the panel finds that the current plans for data collection data analysis and data products are still too oriented towards measurement of net coverage error to fully exploit this new focus Although the Census Bureau has taken several important steps to revise data collection and analysis procedures and data products this book recommends further steps to enhance the value of coverage measurement for the improvement of future census processes A Guidebook for Using American Community Survey Data for Transportation Planning National Cooperative Highway Research Program, 2007 Explores incorporating the U S Census Bureau s American Community Survey ACS data into the transportation planning processes at national state metropolitan and local levels The report examines ACS data and products and demonstrates their uses within a wide range of transportation planning applications **CEMAF as a Census Method** David A. Swanson.Paula J. Walashek, 2011-03-28 In provocative terms that push the envelope of technical administrative and legal capabilities Swanson and Walashek propose a re vamped US census based neither on the current system self enumeration nor its predecessor door to door canvassing Instead they propose that it be built on a combination of four elements 1 administrative records 2 the continuously updated Master Address File 3 survey data and 4 modeling and imputation techniques They use Census Enhanced Master Address File CEMAF as a descriptive term for their proposal which is based on four principles and includes a proposal for an independent Census Bureau They argue that evidence suggests that the methods used to conduct traditional census counts may be at the end of their useful working lives as evidenced by increasing costs and declining response rates Some of their ideas will seem farfetched However Swanson and Walashek believe this is the time to discuss radical proposals as governments re examine the utility of traditional census counts and consider reductions as is the case in Canada and England This SpringerBriefs should be on the reading list of staff in statistical agencies grappling with rising costs and declining response rates as well as census stakeholders concerned about costs accuracy and census utility

**2010 Decennial Census: Background and Issues**, <u>Envisioning the 2020 Census</u> National Research

Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on the Design of the 2010 Census Program of Evaluations and Experiments, 2010-07-29 Planning for the 2020 census is already beginning This book from the National Research Council examines several aspects of census planning including questionnaire design address updating non response follow up coverage follow up de duplication of housing units and residents editing and imputation procedures and several other census operations This book recommends that the Census Bureau overhaul its approach to research and development The report urges the Bureau to set cost and quality goals for the 2020 and future censuses improving efficiency by taking advantage of new technologies 2010 Census: Census at Critical Juncture for Implementing Risk Reduction Strategies Matthew Scire, 2008-10 In 2007 the U S Census Bureau estimated the 2010 Census would cost 11 5 billion including 3 billion on automation and tech At a March 2008 hearing it was stated that the Field Data Collection Automation program was likely to incur significant cost overruns and announced a redesign effort This testimony is based on past work incl observation of the address canvassing dress rehearsal For IT acquisitions the author analyzed system documentation including deliverables cost estimates other acquisitions related documents and interviewed Census Bureau officials and contractors This testimony describes the implications of redesign for dress rehearsal and decennial operations IT acquisitions mgmt and Decennial Census costs The 2000 Census National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel to Review the 2000 Census, 2004-03-30 The decennial census was the federal government s largest and most complex peacetime operation This report of a panel of the National Research Council's Committee on National Statistics comprehensively reviews the conduct of the 2000 census and the quality of the resulting data The panel's findings cover the planning process for 2000 which was marked by an atmosphere of intense controversy about the proposed role of statistical techniques in the census enumeration and possible adjustment for errors in counting the population The report addresses the success and problems of major innovations in census operations the completeness of population coverage in 2000 and the quality of both the basic demographic data collected from all census respondents and the detailed socioeconomic data collected from the census long form sample about one sixth of the population The panel draws comparisons with the 1990 experience and recommends improvements in the planning process and design for 2010 The 2000 Census Counting Under Adversity will be an invaluable resource for users of the 2000 data and for policymakers and census planners It provides a trove of information about the issues that have fueled debate about the census process and about the operations and quality of the nation s twenty second decennial enumeration

**Differential Undercounts in the U.S. Census** William P. O'Hare,2019-02-13 This open access book describes the differences in US census coverage also referred to as differential undercount by showing which groups have the highest net undercounts and which groups have the greatest undercount differentials and discusses why such undercounts occur In addition to focusing on measuring census coverage for several demographic characteristics including age gender race

Hispanic origin status and tenure it also considers several of the main hard to count populations such as immigrants the homeless the LBGT community children in foster care and the disabled However given the dearth of accurate undercount data for these groups they are covered less comprehensively than those demographic groups for which there is reliable undercount data from the Census Bureau This book is of interest to demographers statisticians survey methodologists and all The American Census Margo J. Anderson, 2015-01-01 Revised edition of the author those interested in census coverage s The American census c1988 Research Methods for Public Administrators Gary Rassel, Suzanne Leland, Zachary Mohr, Elizabethann O'Sullivan, 2020-12-29 Research Methods for Public Administrators contains a thorough overview of research methods and statistical applications for advanced undergraduate and graduate students and practitioners The material is based on established social science methods Concepts and applications are discussed and illustrated with examples from actual research The book covers research design methods of data collection instructions on formulating research plans measurement sampling procedures and statistical applications from basic statistics to more advance techniques The basics of conducting experiments survey research case studies and focus groups are discussed Data organization management and analysis are also covered as are data analysis and hypothesis testing Descriptive and inferential statistics are discussed and illustrated with examples The book also includes a chapter on obtaining and analyzing secondary data data already collected for other purposes and a chapter on reporting and presenting research results to a variety of audiences This is a general textbook written primarily for students of public administration and practitioners in public and not for profit organizations It includes materials shown to be useful in gathering and assessing information for making decisions and implementing policies The material is discussed at a level to be accessible and with enough detail to be useful New to the seventh edition Additional and expanded material on qualitative research big data metadata literature reviews and causal inference New material on experiments and experimental research New examples and case studies including those dealing with public policy Expanded material on using computers for data management Information on new NSF and NIH ethics and protection of human subjects requirements for researchers New data sets and Power Point slides for The SAGE Handbook of Social Science Methodology William Outhwaite, Stephen Turner, 2007-10-18 An each chapter excellent guidebook through different approaches to social science measurement including the all important route maps that show us how to get there Roger Jowell City University In this wide ranging collection of chapters written by acknowledged experts in their fields Outhwaite and Turner have brought together material in one volume which will provide an extremely important platform for consideration of the full range of contemporary analytical and methodological issues Charles Crothers Auckland University of Technology This is a jewel among methods Handbooks bringing together a formidable collection of international contributors to comment on every aspect of the various central issues complications and controversies in the core methodological traditions It is designed to meet the needs of those disciplinary and nondisciplinary problem oriented

social inquirers for a comprehensive overview of the methodological literature. The text is divided into 7 sections Overviews of methodological approaches in the social sciences Cases comparisons and theory Quantification and experiment Rationality complexity and collectivity Interpretation critique and postmodernity Discourse construction Engagement Edited by two leading figures in the field the Handbook is a landmark work in the field of research methods More than just a cookbook that teaches readers how to master techniques it will give social scientists in all disciplines an appreciation for the full range of methodological debates today from the quantitative to the qualitative giving them deeper and sharpen insights into their own research questions It will generate debate solutions and a series of questions for researchers to exploit and develop in their research and teaching **Counting Like a State** Philip Rocco, 2025-06-17 The census plays a foundational if all too easily ignored role in the operation of the American state shaping everything from congressional representation to the allocation of trillions of federal dollars While census taking aspires to the high modernist goal of seeing like a state centralizing standardizing and homogenizing knowledge about a polity it is subject to far more conflict and negotiation than final tabulations maps or technical documentation make apparent This is especially true in a large decentralized polity like the United States where the Constitution entrusts the ultimate authority for the census in the legislative branch In Counting Like a State Philip Rocco shows how the production of the US Census now crucially hinges not only on what happens in Washington but also on a series of intergovernmental partnerships State and local officials though not formally responsible for census taking figure importantly in the implementation of the decennial count These officials are essential partners in the construction and maintenance of address lists as well as in outreach and promotion campaigns in hard to count communities The 2020 Census compounded these challenges with new crises Intergovernmental partnerships played a key role in preventing President Trump from adding a citizenship question as state and local officials mounted a coordinated legal counteroffensive Many local officials also simply refused to cooperate with the Trump administration s efforts to exclude undocumented immigrants from the apportionment count The census also took place in the context of a global pandemic that stretched administrative resources to the breaking point While these partnerships allowed the Census Bureau to adapt to ever changing conditions on the ground state and local governments also sounded the alarm when the Trump administration sought to rush the census These efforts helped preserve the quality of the data collected in the 2020 count Rocco s illuminating study of the 2020 Census pulls back the curtain on the administrative state to reveal how something as complex and centralizing as a census takes place within a decentralized federalist system Drawing on analyses of interviews with hundreds of public officials and quantitative analyses of state and local census activities Counting Like a State allows scholars and practitioners to better understand what facilitates as well as what impedes effective intergovernmental partnerships for census taking Statistical Demography and Forecasting Juha Alho, Bruce Spencer, 2006-05-27 Sustainability of pension systems intergeneration fiscal equity under population aging and accounting for health care

benefits for future retirees are examples of problems that cannot be solved without understanding the nature of population forecasts and their uncertainty Similarly the accuracy of population estimates directly affects both the distributions of formula based government allocations to sub national units and the apportionment of political representation The book develops the statistical foundation for addressing such issues Areas covered include classical mathematical demography event history methods multi state methods stochastic population forecasting sampling and census coverage and decision theory The methods are illustrated with empirical applications from Europe and the U S For statisticians the book provides a unique introduction to demographic problems in a familiar language For demographers actuaries epidemiologists and professionals in related fields the book presents a unified statistical outlook on both classical methods of demography and recent developments To facilitate its classroom use exercises are included Over half of the book is readily accessible to undergraduates but more maturity may be required to benefit fully from the complete text Knowledge of differential and integral calculus matrix algebra basic probability theory and regression analysis is assumed Juha M Alho is Professor of Statistics University of Joensuu Finland and Bruce D Spencer is Professor of Statistics and Faculty Fellow at the Institute for Policy Research Northwestern University Both have contributed extensively to statistical demography and served in advisory roles and as statistical consultants in the field

The Enigmatic Realm of Reengineering The 2010 Census Risks And Challenges: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Reengineering The 2010 Census Risks And Challenges** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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#### Reengineering The 2010 Census Risks And Challenges Introduction

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web you cannot use the multiplication operator of verilog the lab file submission deadline is on 9 28 by 6 00pm write simulation for a multiplier the input output ports of the 8 bit multiplier is as follows module seqmultiplier input wire clk input wire enable input wire 7 0 a input wire 7 0 b output wire 15 0 c

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