

NISS

The Statistics Community Serving the Nation

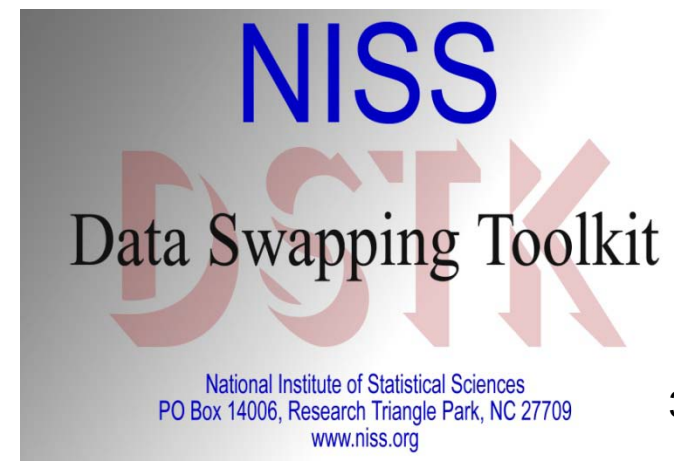
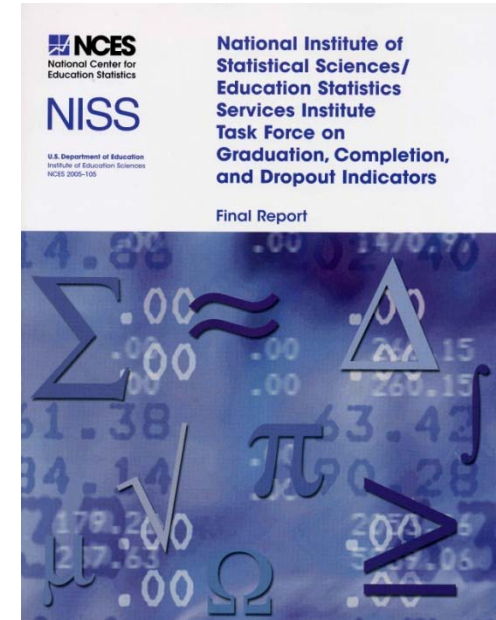
NISS Is ...

NISS Is ... Exciting Research

- Bridges between industry/government and academia
 - Data confidentiality, data quality, data integration
 - Models for surveys, survey costs and survey disruptions
 - Secure analysis of distributed data
- Bridges from statistics to other disciplines
 - Clinical proteomic technology assessment for cancer
 - Full population estimates and trend for NAEP
 - Improved crop forecasts for USDA
 - Travel time reliability
 - Assessment of online reading comprehension
- Applications to major societal problems
 - Public health
 - Transportation
 - Education

NISS Is ... High Impact Research

- Policy
 - Methodology for computing high school graduation rates, whose use is mandated by US Department of Education
 - Scientific workforce
- Science
 - Improved durability of concrete
 - New models for development of complex software
- Software tools
 - Live Documents: US patent 5,937,064
 - Data Swapping Toolkit
 - PharmID



NISS Is ... Collaborations

- Current clients and funding sources
 - Government: Census, DTRA, EIA, IES, NCES, NCI, NSF, TRB
 - Industry: AIR
- Current collaborators
 - Academia: Clemson, Duke, Georgia, ITRE/NCSU, Missouri, North Carolina, North Carolina State
 - Industry: AIR, BTS, Kittelson & Associates, RTI International
- Statistical and Applied Mathematical Sciences Institute (SAMSI)
 - Shared building
 - Shared science

NISS Is ... Career Development

- Project participation at all career stages
 - Undergraduate and graduate interns
 - Graduate students
 - Postdoctorals
 - Established researchers (co-PIs, ...)
- Affiliates workshops and technology days
- SAMSI programs

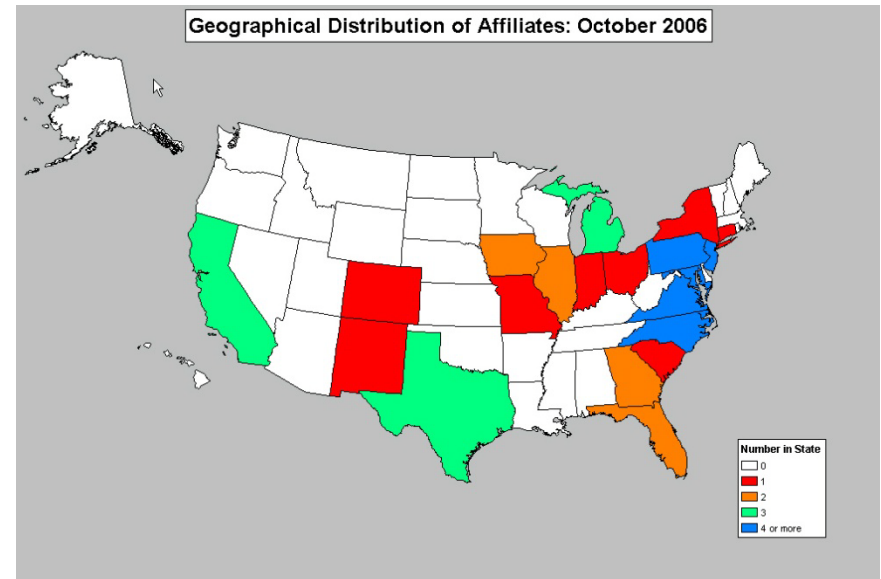
NISS Is ...

Service to the Statistics Community

- Building cross-disciplinary and cross-sector bridges (examples: transportation, materials science, software engineering, education statistics, environmental statistics, global climate change)
- Focusing attention on problems of national importance (recent examples: Making Research Data Public: Intelligible or just Available?; Experimental Analysis of Algorithms; Data Confidentiality; ITSEW; Financial Risk: Credit and Operational; Financial Risk: Market and Systemic; Computational Advertising; Survey Microsimulation)
- Recognizing outstanding cross-disciplinary research
 - *Sacks Award Recipients*: Elizabeth Thompson, Max Morris, Raymond Carroll, Douglas Nychka, Adrian Raftery, John Rice, Jeff Wu, Clifford Spiegelman, Ram Gnanadesikan, Sallie Keller, Emery Brown

NISS Is ... National Reach

- Cross-sector *Affiliates Program* with more than 60 members spanning government, industry and academia, and spanning the country, honored with 2005 SPAIG Award from ASA
- Events across the country
 - Recent examples: Athens, GA; Boston; Chicago; College Station, TX; Portorož, Slovenia; Quebec, Canada; Raleigh, NC; Research Triangle Park, NC; Storrs, CT; Stowe, VT; Washington, DC
- Project participants from more than 100 organizations



NISS Is ... A Rich History

- 85+ projects, funded by government, industry, foundations, research institutes
- 200+ publications
- 70+ postdocs, some now in leadership positions
- 200+ project participants
- 70+ workshops



NISS Is ... A Bright Future

- Research initiatives
 - Online reading comprehension
 - Travel time reliability
 - Survey modeling in multiple settings
 - Triangle Census Research Network
 - Energy: Evaluation of Information Quality in Energy Reporting ; Evaluation and Comparison of Macro-economic Models
- Affiliates initiatives
 - Clusters: Networks, Pharma, Surveys
 - Exploration Workshops
 - Student-centric programs
- Community initiatives
 - Total Survey Error
 - Survey Microsimulator
- Expanded building, for both NISS and SAMSI, completed in 2008



NISS Is ... YOUR Place To

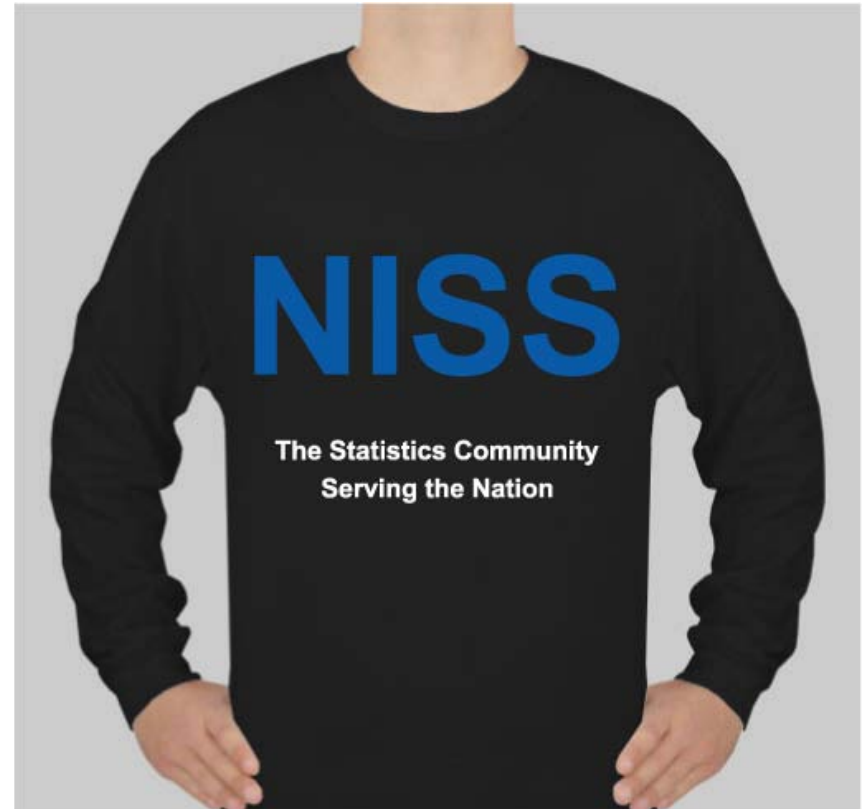
- Participate
 - Project creation and execution
 - SAMSI activities
 - Postdoctoral appointments
- Send (especially, early career) colleagues
- Bring ideas, leading to
 - Workshops
 - Proposals
 - Projects
 - Collaborations
- Work together to create an enlarged future for statistics



NISS Is ...

The Statistics Community's Institute

NISS is dedicated to strengthening and serving the national statistics community, most notably by catalyzing community members' participation in applied research driven by challenges facing government and industry.



NISS is ... Easy to Contact

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