

NISS

NISS Affiliates Technology Day
Data Confidentiality

May 29, 2002

Agenda

9:00 AM	Welcome & Introductions
9:15	New Methods for Bounds on Tabular Data Stephen Fienberg
10:45	Optimal Tabular Releases Adrian Dobra
1:30 PM	Risk-Utility Formulations George Duncan
3:00	Geographical Aggregation Ashish Sanil
4:00	Data Swapping Ashish Sanil and Shanti Gomatam
\leq 5:30	Adjourn

Background: The NISS DG Project

- People
- Research
 - Drivers
 - Themes
 - Foci
- Future Directions

Participants

- **Project Director:** Alan Karr (NISS)
- **Senior Investigators:** George Duncan (CMU), Stephen Fienberg (CMU), Sallie Keller-McNulty (LANL), Stephen Roehrig (CMU), Lynne Stokes (SMU)
- **NISS Postdocs:** Adrian Dobra, Shanti Gommatam, James Hilden-Minton, Jaeyong Lee, Ashish Sanil
- **Graduate Students:** Karen Brady (GWU), Adrian Dobra (CMU), Christopher Holloman (Duke), Charlie Liu (NCSU), Mario Trottini (CMU/Valencia), ...
- **Other Collaborators:** Joel Hernandez (MCNC), Sousan Karimi, Karen Litwin (MCNC), Alan Saalfeld (OSU),
- **Agency Partners:** BLS, Census, NCES, NCHS

The Research: Overview

- Drivers
 - Interacting queries with cumulative risk
 - Web dissemination
- Themes
 - Abstractions
 - Algorithms
 - Scalability
 - Utility of releases

The Research: Foci

- Tabular data
 - Bounds methodologies
 - Table servers
 - Optimal tabular releases
- Aggregation
 - Geographical data
- Data swapping

Future Plans

- Near Term
 - Aggregation in more general settings
 - Regression servers
- Longer Term: DG II Project
 - Add data quality
 - Add data integration
 - Add new analyses, especially data mining