TEXAS TECH UNIVERSITY AND TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER PARTICIPATION IN THE DALLAS-FORT WORTH FEDERAL STATISTICAL DATA CENTER

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Consortium Members

- UT Dallas
- Dallas Fed
- UT Arlington
- UT Southwestern Medical Center
- Southern Methodist University
- Texas Christian University

- Texas Tech University/Texas
 Tech University Health
 Sciences Center
- University of North Texas
- Dallas-Fort Worth Hospital Council Foundation

CHRONOLOGY

- NSF award received by UTD April 2017
- Agreements involving UTD, US Census and Dallas Fed in process
- Census staff to engage with researchers Fall 2017
- Payments from Consortium Members due Jan 2018
- Census administrator to be hired Jan 2018
- Center opening planned for June 2018

What is a Federal Statistical Research Data Center (FSRDC)?

- A secure environment where *qualified* researchers conduct *approved* statistical research using non-public data collected by Census and other partner agencies
- Established through an agreement between Census and a local research community to facilitate research, improve utility and quality of federal statistics, and address policy questions
- Provided for through relevant sections in U.S. Code Title 13 (Census), Title 15 (NCHS), Title 26 (IRS) and Title 44 (CIPSEA)

Data Through FSRDC

- Not publicly available at the micro level
- Can link together or to external data
- Have more detailed geographic identifiers
- Have little top- or bottom-coding
- Data stripped of personal information: Names, Address, DOB and SSNs and replaced with a Protected Identification Key (PIK)

Advantages of Access to Non-public Data

■ Exclusivity and expanded research questions

Expanded funding opportunities

■ The consortium funds a Census administrator who provides research assistance for FSRDC use

Available Data Sets https://txrdc.tamu.edu/datasets/

- NCHS (National Center for Health Statistics) Page Listing Available Datasets https://www.cdc.gov/rdc/b1datatype/Dt122.htm
- <u>CES (Center for Economic Studies) Page Listing Available Datasets</u> <u>https://www.census.gov/ces/dataproducts/restricted_data.html</u>
- AHRQ (Agency for Healthcare Research and Quality) Page Listing Available Datasets
 https://meps.ahrq.gov/mepsweb/data_stats/onsite_datacenter.jsp
- Business and Economic Data Sets in the Research Data Centers
 https://txrdc.tamu.edu/busandecon/

Examples of Research Areas

- Industry studies and structure
- Labor, demography and job structure
- Urban and regional
- Health
- Statistical methods, measurements, general equilibrium models, and theory

Examples of Working Papers Using CES Data

- What Drives Differences in Management?
- The Impact of College Education on Old-Age Mortality: A Study of Marginal Treatment Effects
- School Accountability and Residential Location Patterns: Evaluating the Unintended Consequences of No Child Left Behind
- Has Falling Crime Invited Gentrification?
- Consequences of the Clean Water Act and the Demand for Water Quality
- Food and Agricultural Industries: Opportunities for Improving Measurement and Reporting
- Measuring Plant Level Energy Efficiency and Technical Change in the U.S. Metal-Based
 Durable Manufacturing Sector Using Stochastic Frontier Analysis
- The Timing of Teenage Births: Estimating the Effect on High School Graduation and Later Life Outcomes

Conduct Research Inside the FSRDC Lab

- Restricted area with client terminals connected to data stored in Maryland; Linux operating system with Windows interface; no internet access
 - SAS, Stata, R, Matlab, word processing, TAXSIM, GIS, Sudaan
- No personal computers allowed in lab
- No paper or output allowed outside of lab
- Census public use review required to present results
 - substantial penalties for violation: \$250,000 and/or 5 years prison (inadvertent or otherwise)
 - discussion of specific results allowed only inside FSRDC (even among co-authors on a project)

NSF Funding Opportunities for RDC Data

- Science of Organizations (SoO) February & September
 - http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504696&org=NSF&sel_org=NSF&from=fund
 - SoO funds research that advances our fundamental understanding of how organizations develop, form and operate.
- Decision, Risk and Management Sciences (DRMS) January & August
 - http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5423&org=NSF&sel_org=NSF&from=fund
 - Disciplinary and interdisciplinary research, doctoral dissertation research, and workshops are funded in the
 areas of judgment and decision making; decision analysis and decision aids; risk analysis, perception, and
 communication; societal and public policy decision making; management science and organizational design.
- Smart and Connected Health (SCH) no current deadline announced
 - http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504739&org=NSF&sel_org=NSF&from=fund
 - The goal of the Smart and Connected Health (SCH) Program is to accelerate the development and use of innovative approaches that would support the much needed transformation of healthcare from reactive and hospital-centered to preventive, proactive, evidence-based, person-centered and focused on well-being rather than disease.

NSF Funding Opportunities for RDC Data, cont.

- Research on the Science and Technology of Enterprise: Statistics and Surveys January 16, 2018; January 15, Annually Thereafter
 - http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5265&org=NSF&sel_org=NSF&from=fund
 - Welcomes efforts by the research community to use NCSES data for research on the science and technology enterprise, to develop improved survey methodologies for NCSES surveys, to create and improve indicators of S&T activities and resources, and strengthen methodologies to analyze and disseminate S&T statistical data.
- Science of Science and Innovation Policy (SciSIP) February & September
 - http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501084
 - Supports research designed to advance the scientific basis of science and innovation policy.
 Research funded by the program thus develops, improves and expands models, analytical tools, data and metrics that can be applied in the science policy decision-making process.

QUESTIONS?