

# Recent Innovations at RTI International

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# RTI's 50<sup>th</sup> Anniversary

- ❖ Research Triangle Park established in 1958
- ❖ RTI was initial research institute and research focal point in RTP
- ❖ Some highlights
  - Compounds to fight cancer - camptothecin and taxol
  - Education studies
  - International Governance
  - Environmental studies and innovations in energy
  - Global HIV/AIDS research
  - Health Information Technology research
  - Technological advances in survey research
- ❖ See <http://www.rti.org/50years/> for more

# CAI Instrumentation

## ❖ Hatteras

- Combines field, web and telephone survey in one authoring system and single data source
- Supports multiple hosting environments
- Works within FIPS-moderate compliant environment
- Integrates with our field and telephone case management systems

# Mobile Computing/Handheld CAI

- ❖ RTI EveryWear – individualized data acquisition system
  - Integrated mobile technologies for survey, physiological, and physical data collection
  - Forms-based diaries and questionnaires
  - Handheld voice questionnaires and photo diaries
  - Monitors physical and physiological data via Bluetooth wireless
  
- ❖ Handheld GSS system update
  - Unlimited languages and fonts
  - Completely data driven
  - Used internationally on Global Adult Tobacco Study (CDC)
    - Mexico (Spanish)
    - Ukraine (Ukrainian and Russian)
    - Russia (Russian)
    - Turkey (Turkish)
    - Egypt (Arabic)
    - Bangladesh (Bangla)
    - Philippines (5 different languages)
    - India (20 different languages)
    - Poland (Polish)

# New Tools and Applications

## ❖ SUDAAN 10

- new pre-analysis procedures
- Improved memory manager for large data sets

## ❖ CARI for Call Center Monitoring

- Audio recording for QC
- Application to Call Center operations

# More New Tools

## ❖ iLearning system

- Self-administered field interviewer training
- electronic test was administered and the results were transmitted to RTI
- automatically graded and entered into an online database

## ❖ Miilos

- Statistical Machine Translation system
- Plug-in to email
- API also available
- Investigation options to make commercially available

# Enhanced Security Network

- ❖ Computing Infrastructure with Authority to Operate (ATO) – compliant with FIPS-moderate requirements
- ❖ Controls access – 2-factor authentication
- ❖ Encryption in transit
- ❖ Audit trails
- ❖ Survey systems are compliant
  - Instruments
  - Case management
  - Tracing
  - Web surveys

# Second Life®

- ❖ Virtual world – over 15 million online “residents”, digitally represented as avatars
- ❖ Prototype virtual research facility
- ❖ Studying possibilities of data collection with virtual world
  - Demographics of respondents
  - Effects of ‘appearance’ on responses
  - Access to cell phone only respondents





# New Building on RTI's NC Campus

LEED  
Certified  
At GOLD  
level

New,  
state of  
the art  
computer  
center



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David moves  
Into his new office

