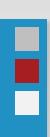
Harrisburg CrimeViz Geovisual Analytics for Crime Analysis



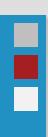


GeoVISTA CrimeViz: http://www.geovista.psu.edu/CrimeViz

an extensible web-based geovisualization application that supports exploration of & sensemaking about criminal activity in space & time







VACCINE Center of Excellence

Visual Analytics for Command, Control, and Interoperability Environments: A United States Department of Homeland Security (DHS) Center of Excellence

Mission Statement:



"To help this nation's 2.3 million extended homeland security personnel, including first-responders, perform their jobs more effectively by turning mass amounts of data into manageable information"

Supported Missions Areas (among others):

- border patrol/protection
- counter-terrorism & intelligence analysis
- emergency response & crisis management

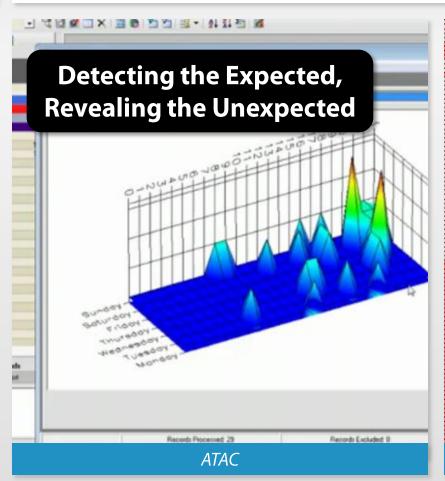
- epidemiology and disease control
- risk assessment and predictive analysis
- law enforcement & policing

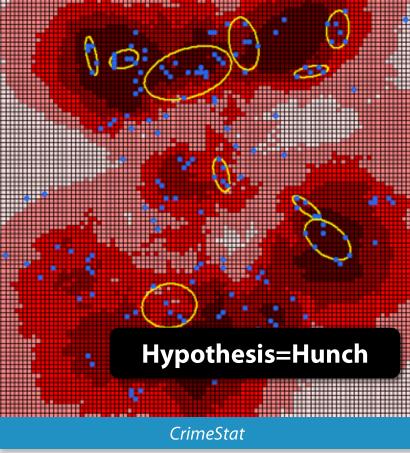




Visual Analytics defined

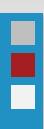
provision of visual interfaces to computation methods to support sophisticated human reasoning and decision-making that is informed by information











VACCINE Center of Excellence

Visual Analytics for Command, Control, and Interoperability Environments: A United States Department of Homeland Security (DHS) Center of Excellence

Member Institutions

- Florida International University
- Georgia Institute of Technology
- Indiana University
- Jackson State University
- Justice Institute of British Colombia
- Navajo Technical College
- Pennsylvania State University
- Purdue University
- Simon Fraser University (Canada)
- Stanford University



- Swansea University (UK)
- University of British Colombia (Canada)
- University of Houston
- University of North Carolina at Charlotte
- University of Stuttgart (Germany)
- University of Texas at Austin
- University of Washington
- Virginia Tech

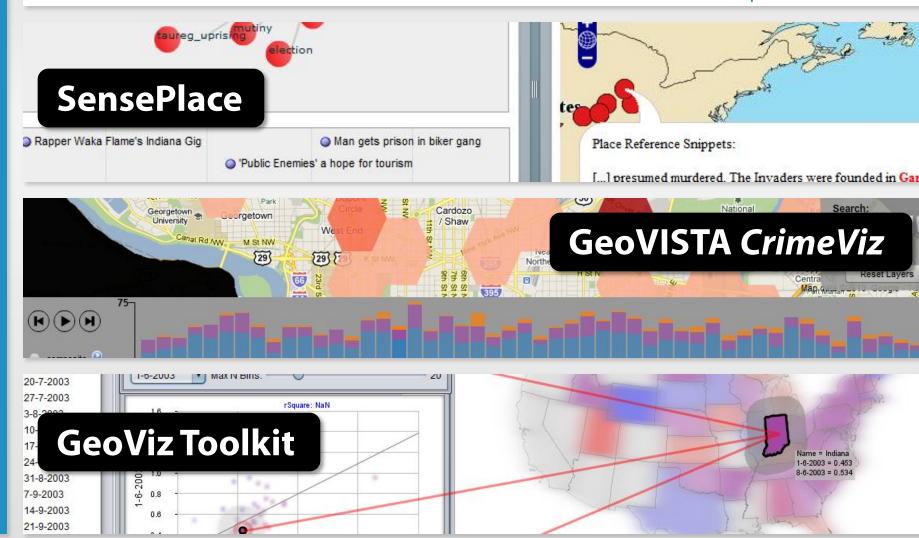


Penn State GeoVISTA Center

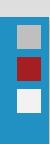
http://www.geovista.psu.edu/

Contact:

Dr. Alan MacEachren, Director maceachren@psu.edu







VACCINE Center of Excellence

Visual Analytics for Command, Control, and Interoperability Environments: A United States Department of Homeland Security (DHS) Center of Excellence

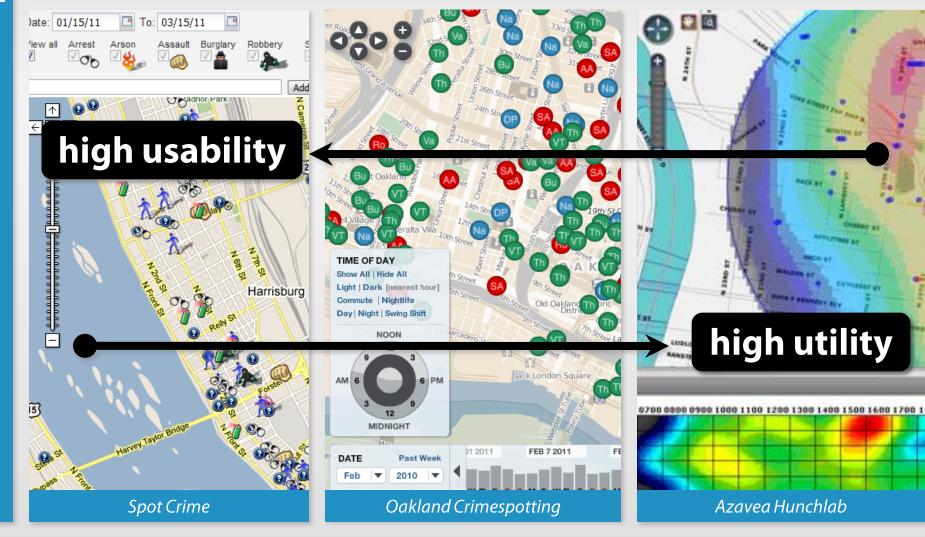
VACCINE focus areas:



- 1. Innovation and Science Leadership: research, evaluate, and transition new methods and techniques visual analytics
- 2. Education Innovation, Leadership, & Outreach: educate the next generation of homeland security professionals to harness the power of visual analytics for effective decision making
- **3. Transition and Engagement:** engage with homeland security partners to provide real-world grounding, impetus, validation, evaluation, and transition of visual analytic tools and techniques



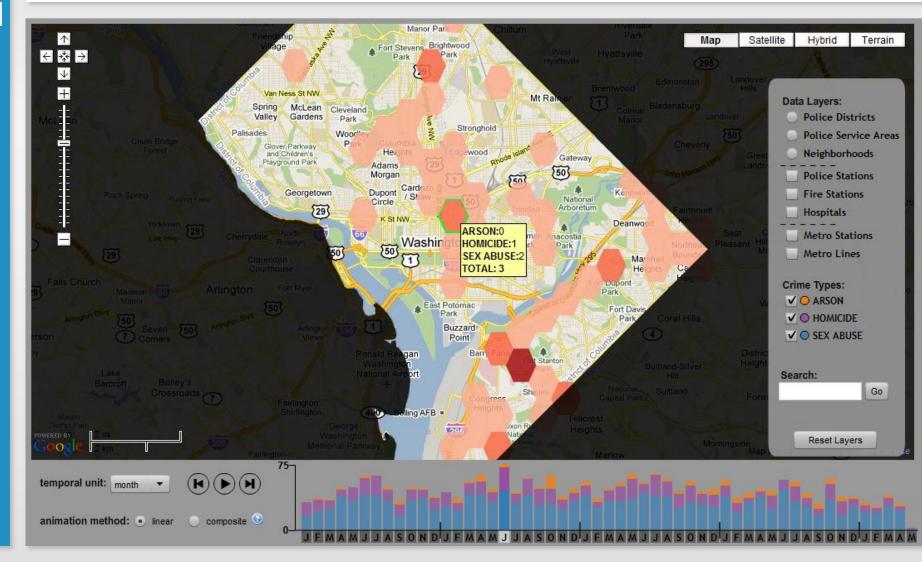
Usability vs. Utility spatiotemporal crime mapping tools





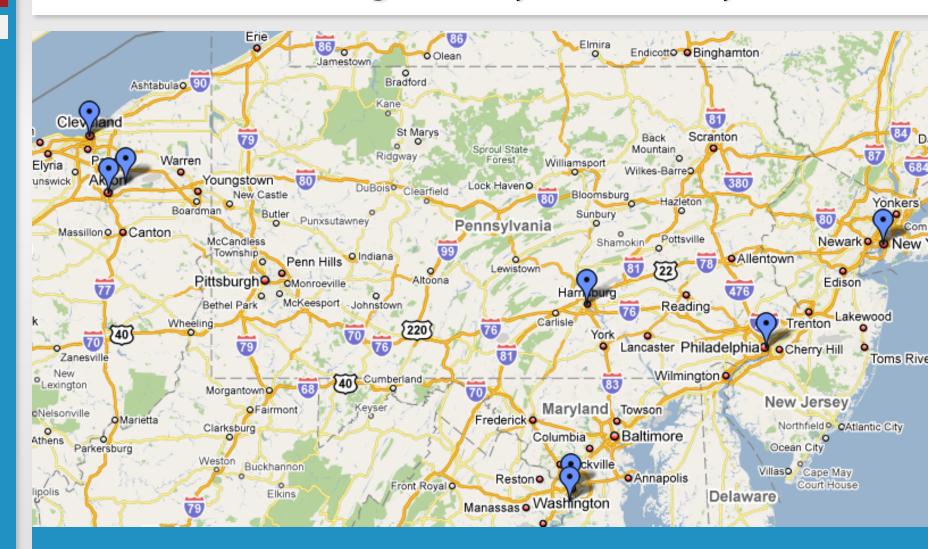


GeoVISTA CrimeViz: DC Prototype

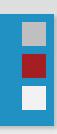




User-Centered Design: Utility vs. Usability







Harrisburg CrimeViz: Personnel

http://www.geovista.psu.edu/CrimeViz/HPD

Harrisburg Bureau of Police

Cpt. Cindy Baldwin Larry Eikenberry

Cpl. Deric Moody Roger Swinehart

Cpl. Gabe Olivera Steve Zimmerman

Camilla Robinson

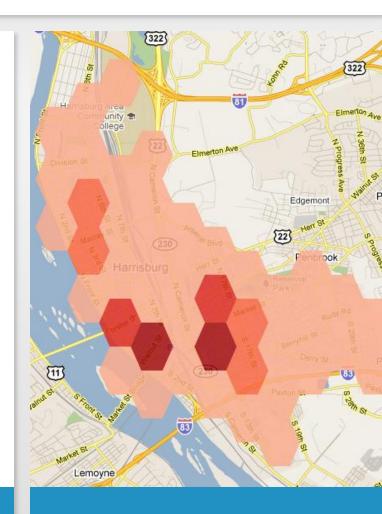
GeoVISTA Center

Robert E. Roth

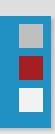
Kevin S. Ross

Scott Pezanowski

Alan M. MacEachren



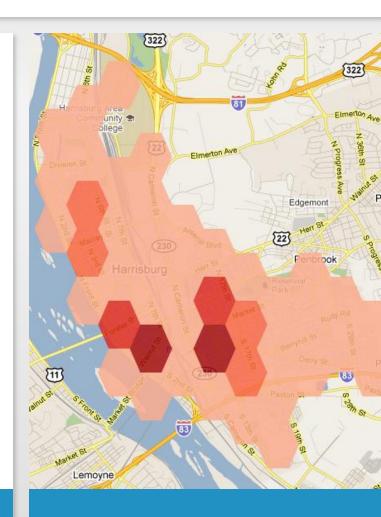




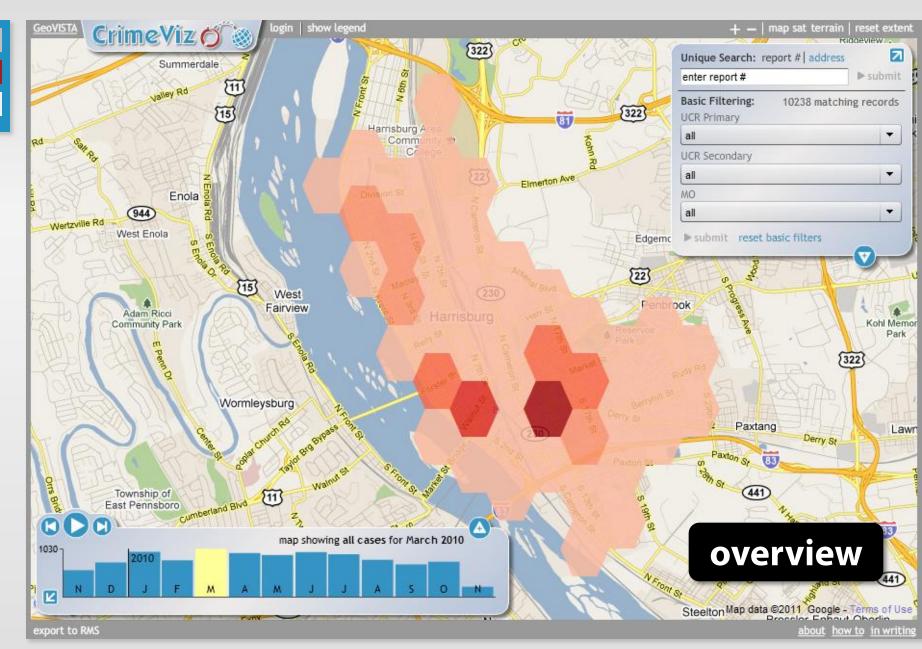
Harrisburg CrimeViz: Project Goals

http://www.geovista.psu.edu/CrimeViz/HPD

- Provide situational awareness for officers and supervisors
- Enhance tactical and strategic crime analysis with spatial and temporal visualizations
- 3. Provide quality control of records management system
- 4. Enhance administrative decision making, grant writing, and reporting







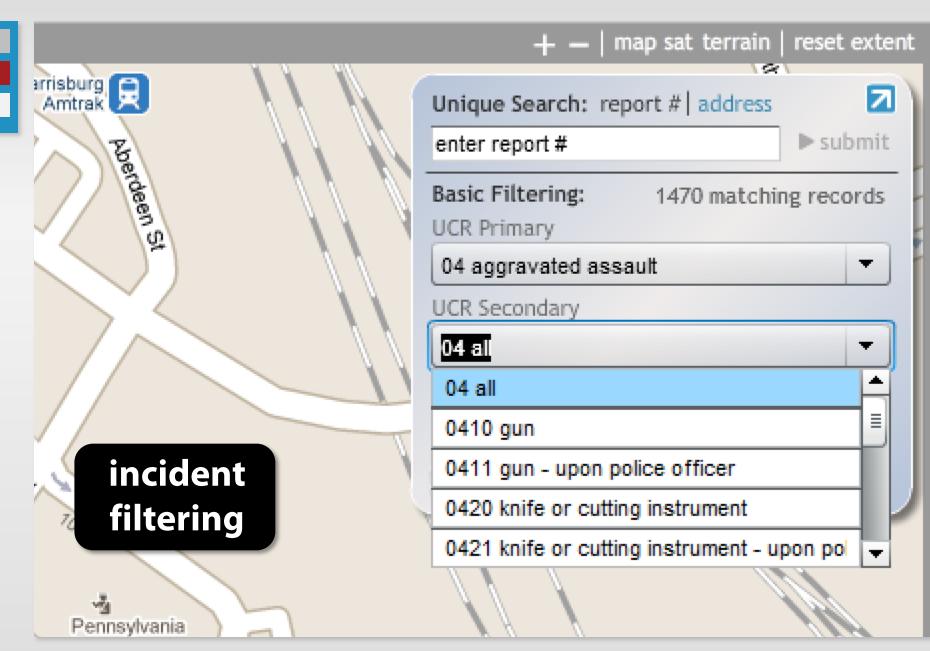




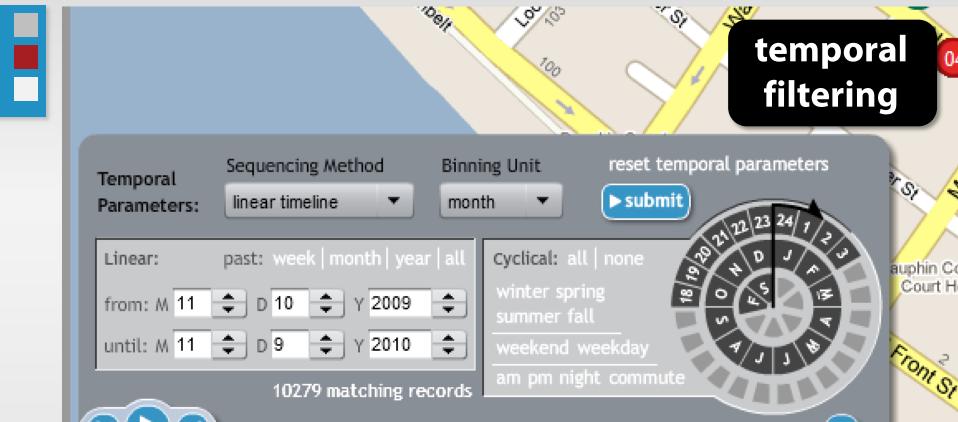


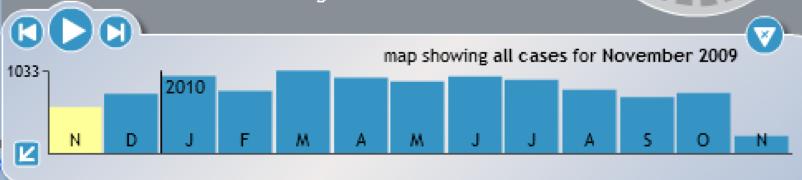












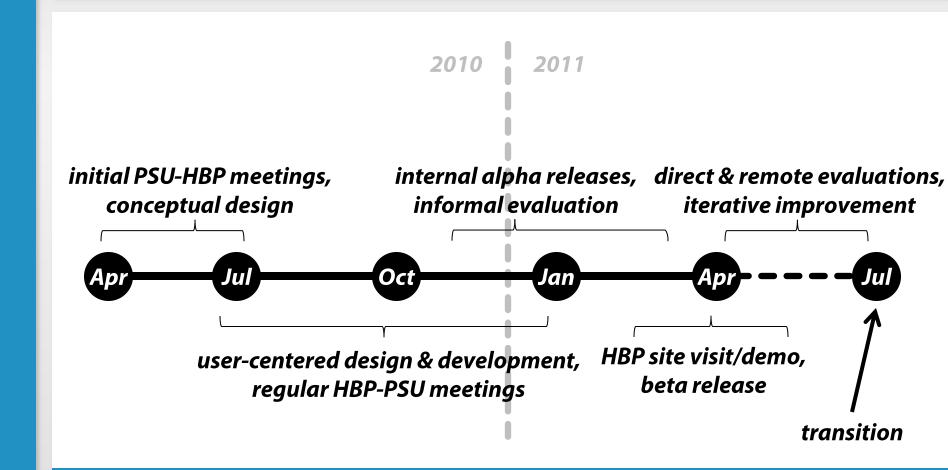


GeoVISTA Senter

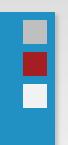
export to RMS

Harrisburg CrimeViz: Development Schedule

http://www.geovista.psu.edu/CrimeViz/HPD







learn more about the project & try out the application at:

http://www.geovista.psu.edu/CrimeViz/HPD

Robert E. Roth reroth@psu.edu



This material is based upon work supported by the U.S. Department of Homeland Security under Award #2009-ST-061-Cl0001. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Department of Homeland Security



GeoVISTA Senter