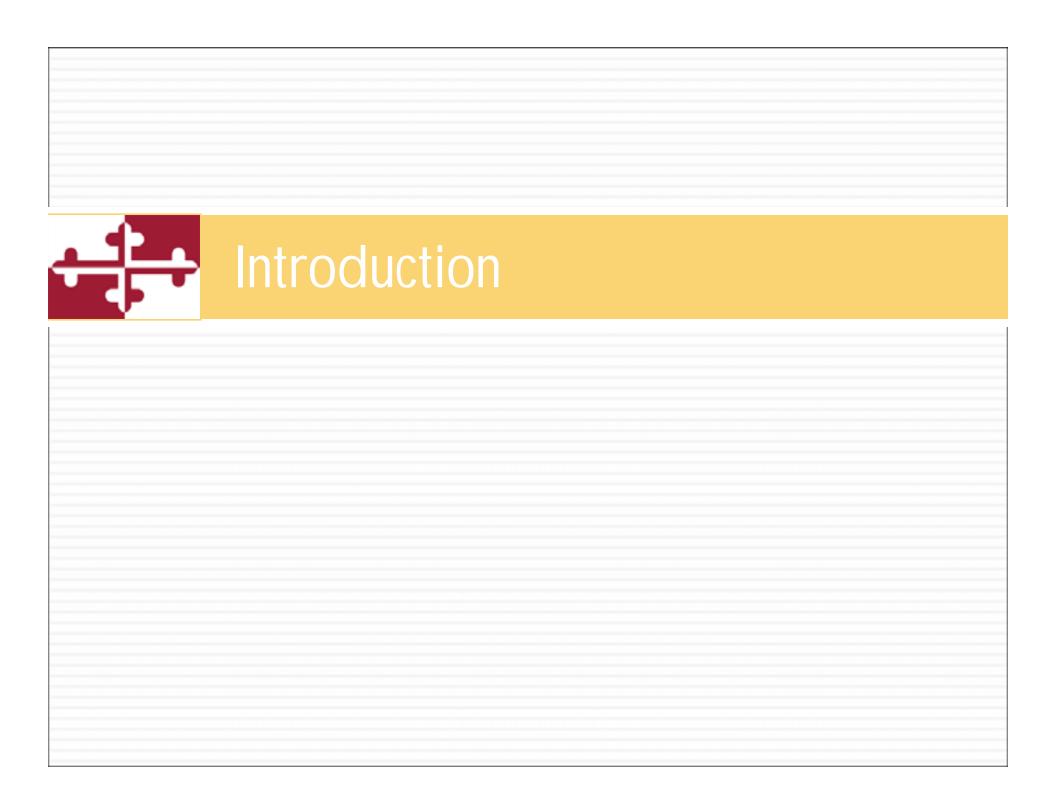


# MARYLAND STIMULUS REPORTING APPLICATION

Brad Davis, Erin Lesh and Erin Ross



#### Discussion Points



- Application Overview
- Application Functionality
- Technological Implementation
- Procedure for State Agencies
- Policy and Coordination

#### Overview



- Purpose of Application
  - Stimulus Reporting
  - Accountability
  - Transparency
- History of Application
  - Initiated in Winter 2009
  - ESRI heavily involved
  - Quick implementation
  - Resided on 3<sup>rd</sup> party server with no backup
  - Used ESRI's Sample Flex Viewer

# Original StateStat Application





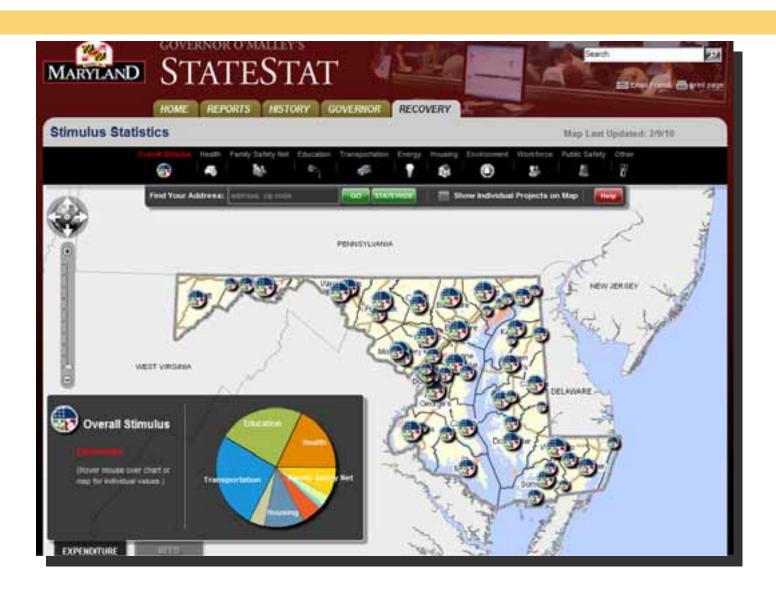
#### Overview



- Current Application
  - Implemented in Spring 2009
  - Uses ESRI's State Stat Application (modified version)
  - Driven by spreadsheets
  - Hosted at Towson University on Maryland MDiMap Infrastructure
  - Update process is a multi-agency joint effort
  - Accessible on Gov. O'Malley's StateStat website
    - http://www.statestat.maryland.gov/

### **Current StateStat Application**

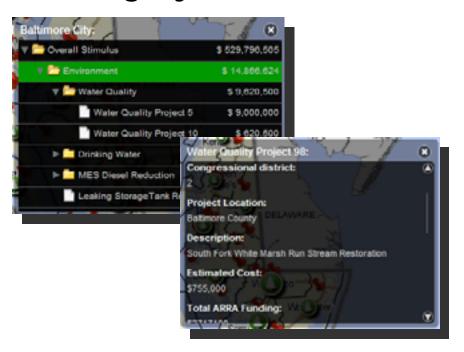




# Functionality



- Icons sized by stimulus fund distribution
- Shows individual projects by category





- Displays overall project information
- Displays individual project information

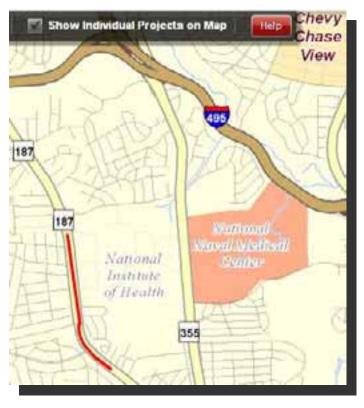


# Technical Discussion

Implementation and Maintenance

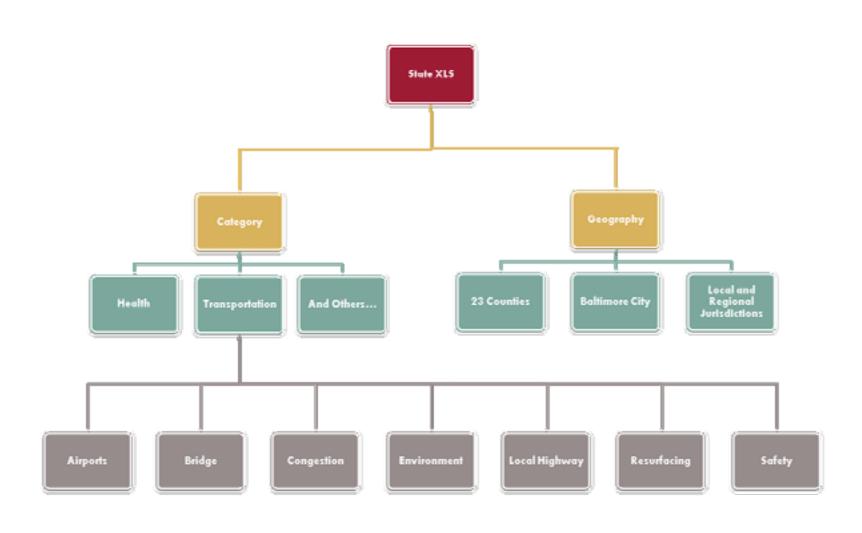
## Technological Implementation





- Create features for stimulus projects
  - Geocode when possible
- Publish map services
- Create spreadsheet hierarchy

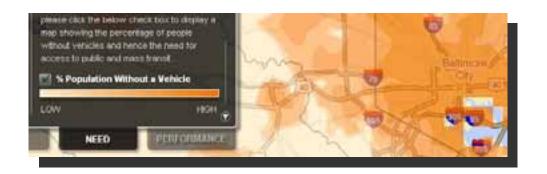
# Spreadsheet Hierarchy

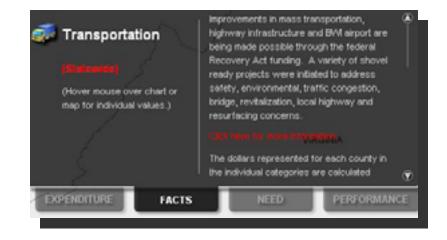


# Supplementary Information



- Choropleth Maps
  - Additional emphasis
- Images
  - Performance charts
  - Additional tables
- Configuration XML
  - Explanatory text
  - Hyperlinks





#### Data Updates



- Data Convertor Tool
  - Convert XLS to AMF
- Configuration XML
  - Text changes
  - Provide links
- Replace Existing Images
  - Performance Charts
  - Supplemental Tables







# Procedure for State Agencies

The Example of State Highway Administration





#### Difficulties



- Coordinate Multiple Offices and Departments
  - Offices of Administration, Finance, Construction, Communication, etc.
- Multiple Spreadsheets
  - Different information
  - Different update schedule
  - Different location
  - Different format

### SHA's Initial Approach

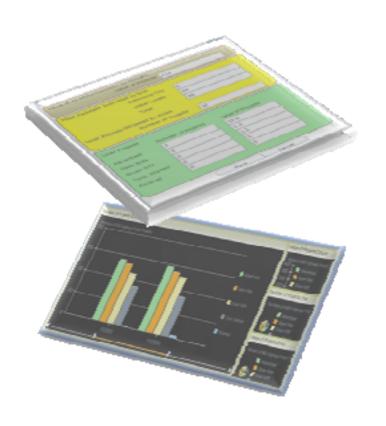


- Central Database
- Hindrances to Design and Deployment
- Long term solution to a short term program
- Continual changes in reporting requirements and techniques

#### Solution



Custom Application using Silverlight and SharePoint





#### Solution



- Consumes and summarizes multiple spreadsheets
- Accessible to those responsible for reporting
- Dashboard display of performance measures
- Easily identify inconsistencies amongst spreadsheets
- Export to spreadsheets and charts



# Policy and Coordination

The Role of the StateStat Office

### **State Agency Coordination**



#### Agency Submission

- Excel Spreadsheets of various types
- Some categories on map composed of data from more than one Agency

#### StateStat Analysis

- Analyst manually confirms data, checking for consistency
- Resolves
   discrepancies with
   reporting Agency

#### Processing by GIS Analyst

- Finalized spreadsheet made for consumption by application
- Geocoding and other spatial research sometimes undertaken

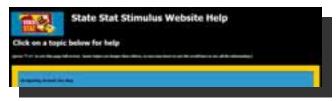
#### Inter-State Consultation



- Help Implement
- Help Enhance
- Examples
  - Minnesota
  - Arkansas
  - New Mexico

### Public Response

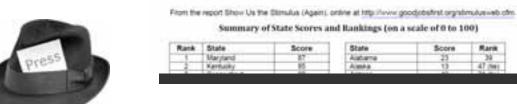






- Private Citizens
  - Help Document
  - Links to Submit Comments

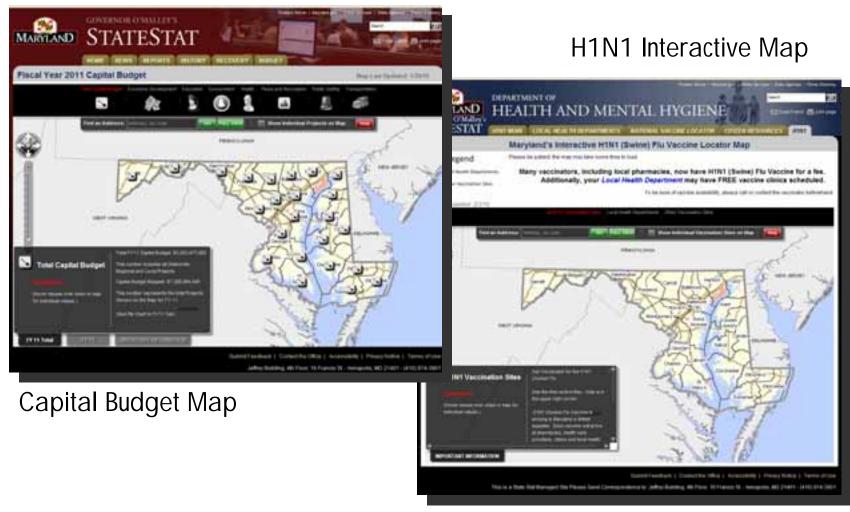
- Press
  - Clarifications
  - Rankings in publications





# Expansion

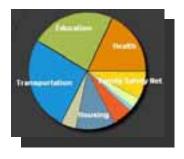




# Programmatic Updates

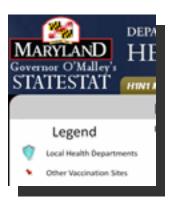


- Customized Configuration in XML
  - Inclusion of Graphs



Check back here regularly for updated information

Images and Links



- Website Formatting (Coding, XML, html)
- New Geographical Analytics

#### **Need for Automation**



- Manual Process, slow and prone to error
- Automation needed but difficult
- Each agency prepares their data in a different way and on a different schedule
- Possible Solutions
  - Centralized Database
  - Parsing Tool for bypassing Data Converter
  - Web Service
  - XML

