



El Paso Healthcare Atlas

A Modern Analytic Ecosystem

THE UNIVERSITY OF TEXAS
AT EL PASO

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11/17/16

The Health Atlas

- **ATLAS Phase I (2010-2013)**
compilation of integrative health analytics of El Paso region through data integration of socioeconomic, environmental, and health GIS databases in El Paso Region
- **ATLAS Phase II (2014-2017)**
generation of population-based studies of disease factors and healthcare data...comparing ATLAS Phase I retrospective database with prospective health and disease factors data (three fiscal years).

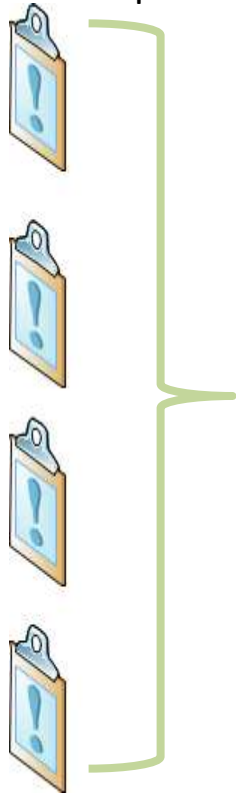


TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER™

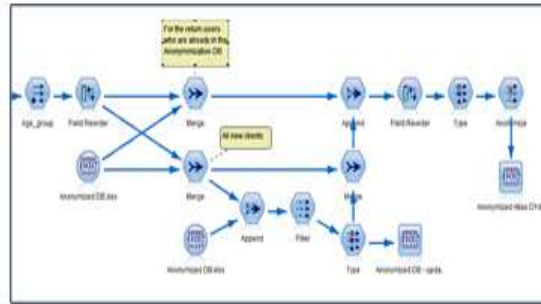


High-level Information Flow

On-line In-take & Surveys
From Providers and
Participants

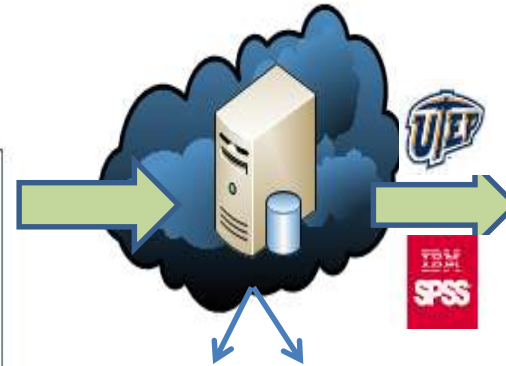


SPSS
Modeler



- Anonymization
- Participant MD
- Voucher Tracking

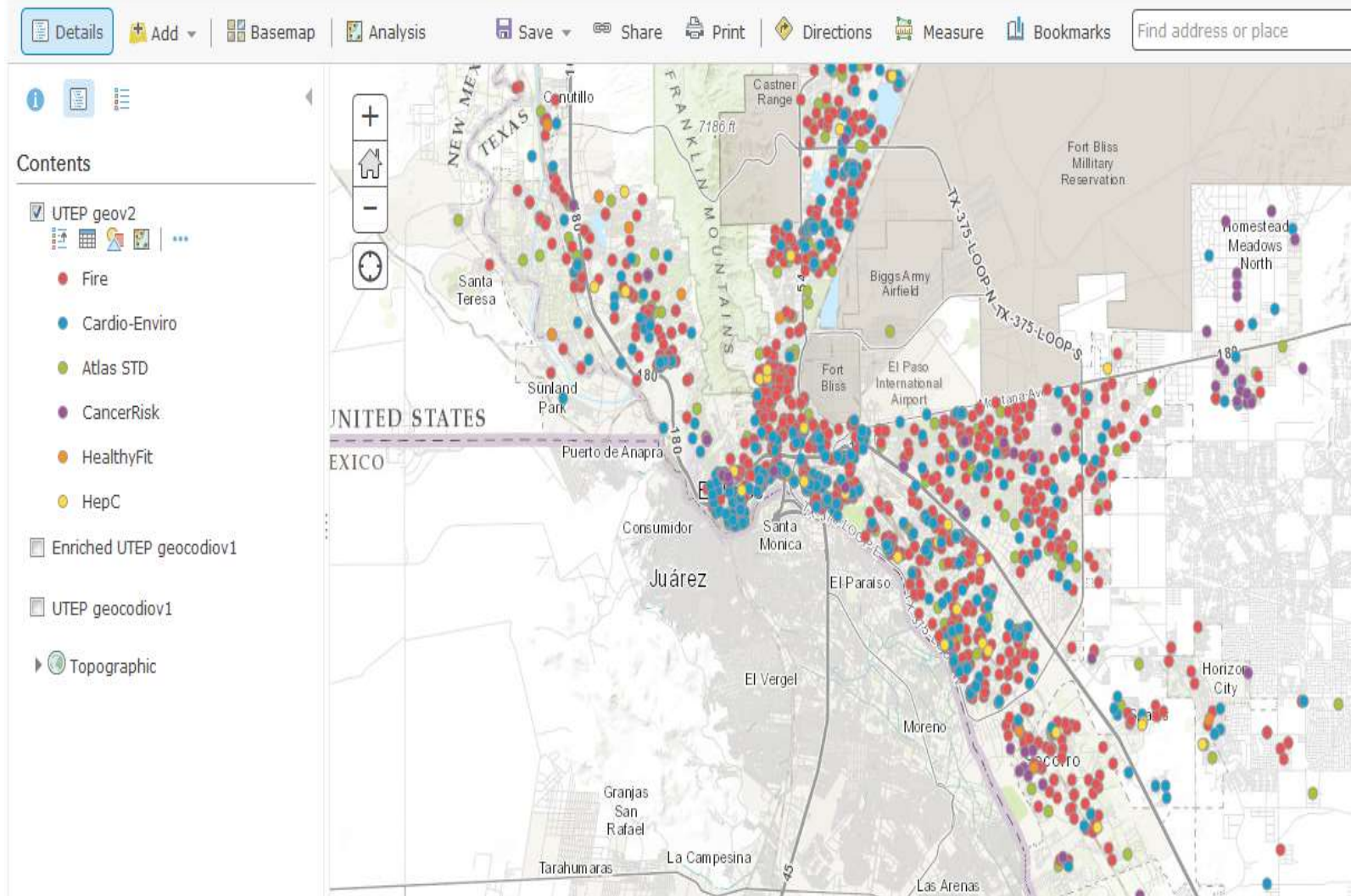
- Unstructured Data Integration
- Demographic & Psychographic Enrichment
- Spatial Analysis
- Predictive & Exploratory Analysis



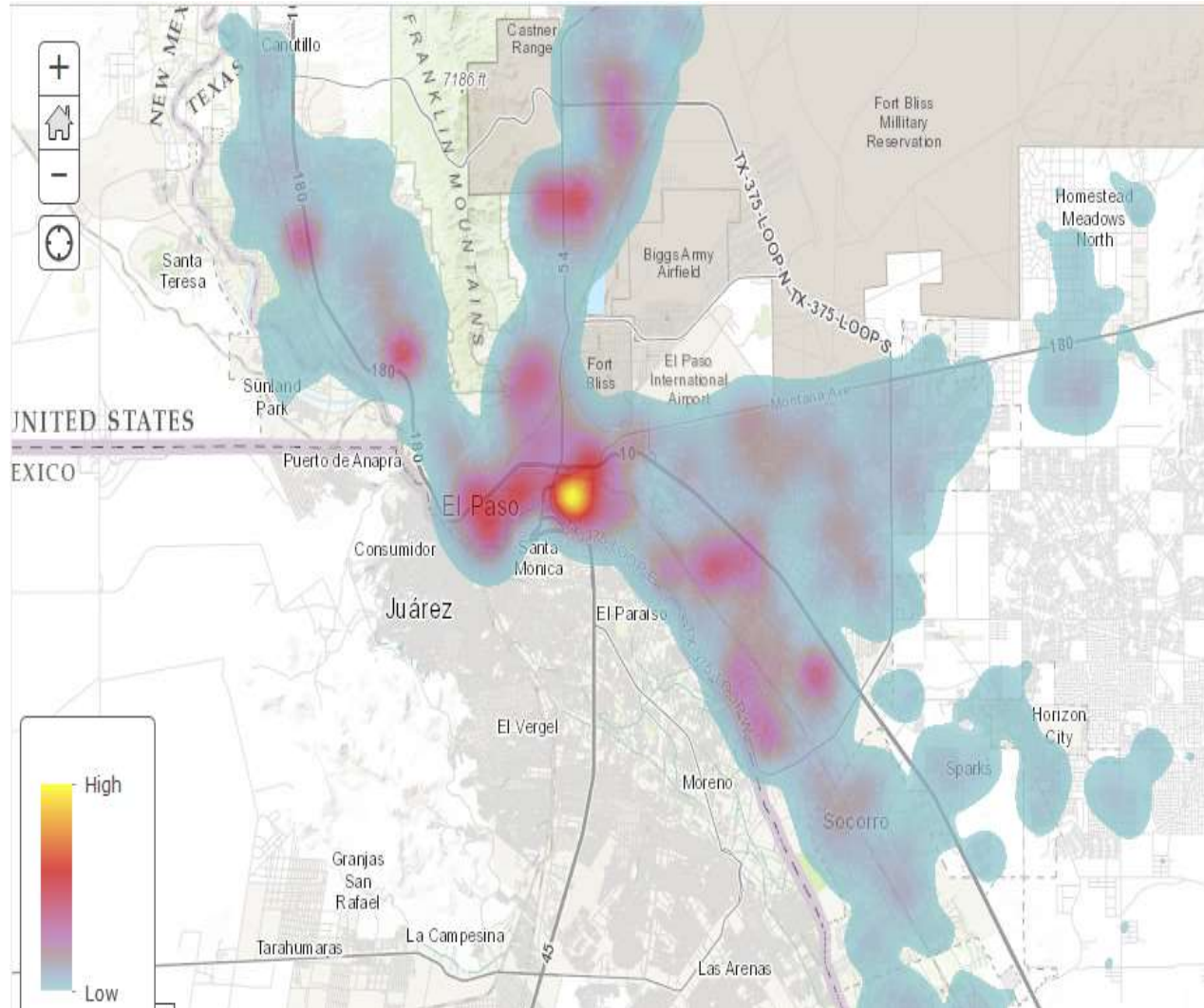
- Community Outreach
- City Planning & Budgeting
- Research



Cross Domain Spatial Analysis



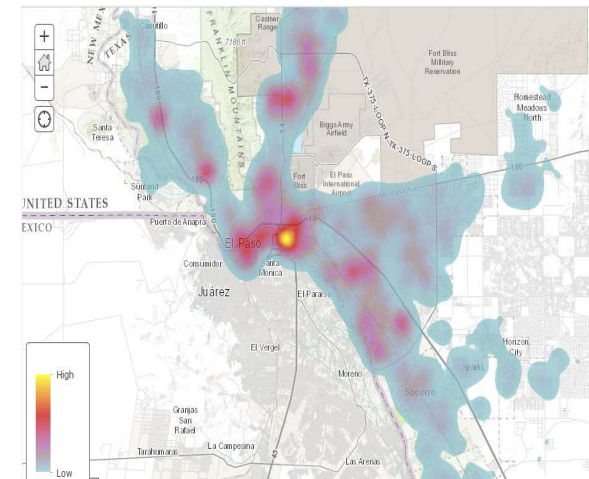
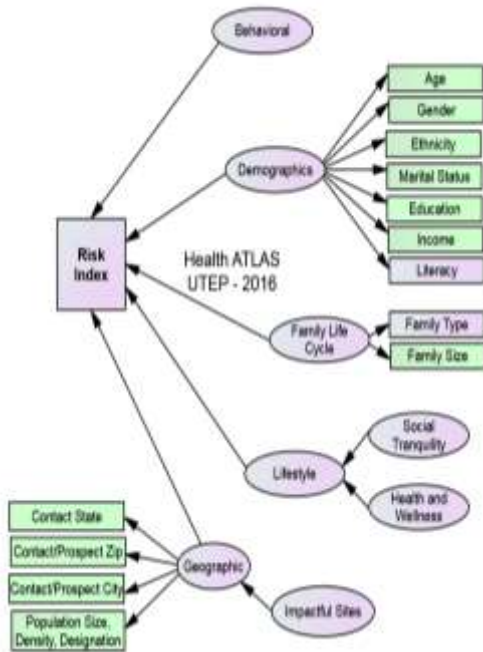
Density and Impact Analysis



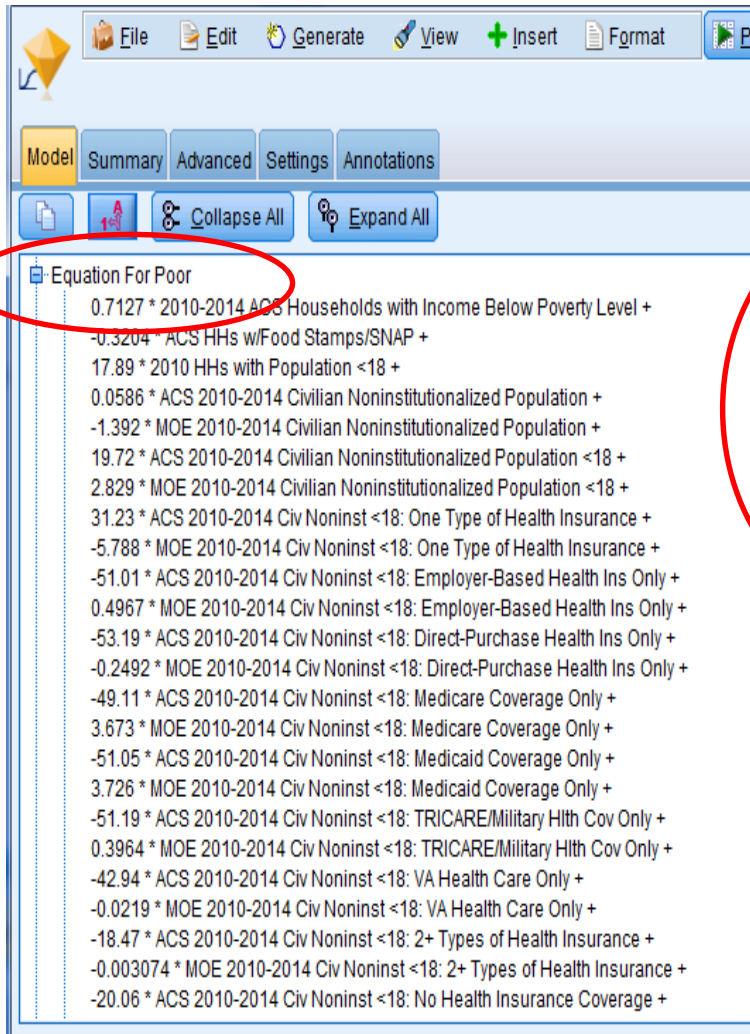
Iterative Process of Refinement

Enrich Research Data

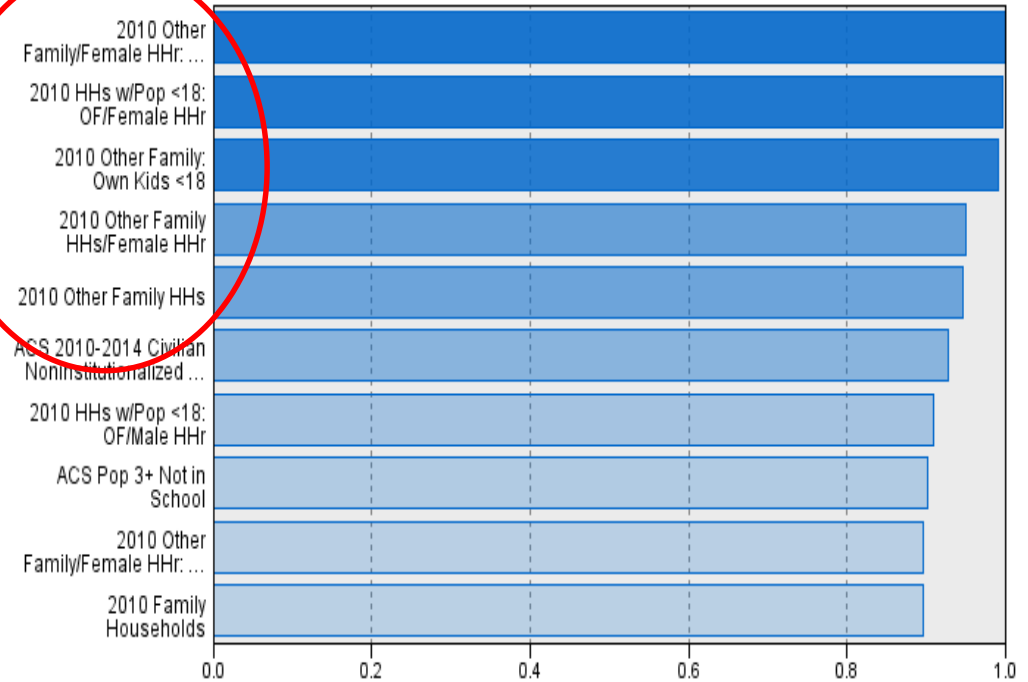
- Public Data
- American Communities Survey
- Tapestry Codes
 - Southwestern Families
 - Barrios Urbanos
 - Young and Restless
 - Military Proximity



Broad Exploratory & Predictive Landscape



Predictor Importance



Demonstration and Q&A



Question??

