GIS and Tobacco Control

Kurt M. Ribisl, PhD Lisa F. Isgett, MPH

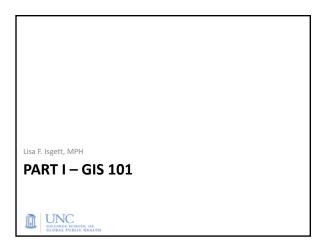
CDC Surveillance and Evaluation Net-Conference November 16, 2011

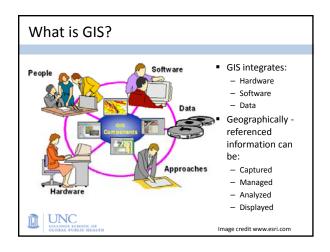


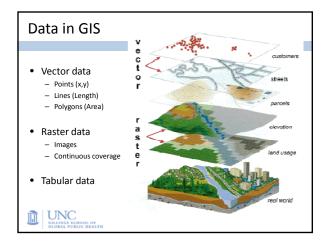
Overview

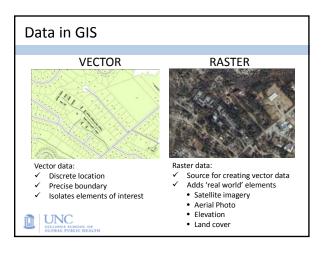
- Part I -- GIS 101
- Part II -- Tobacco Control and GIS Case Studies
 - ✓ Sales to Minors
 - √ Tobacco Retailer Density
 - ✓ Retailers Near Schools
 - ✓ Mobile data collection

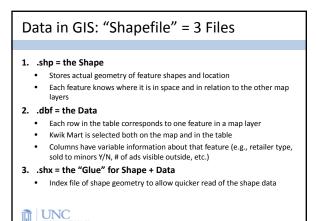


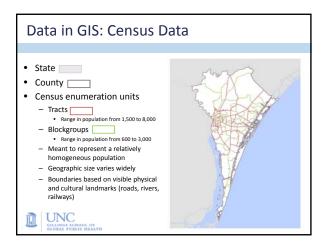


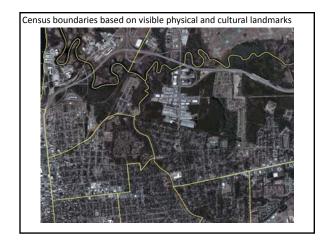


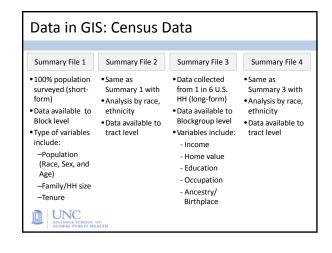




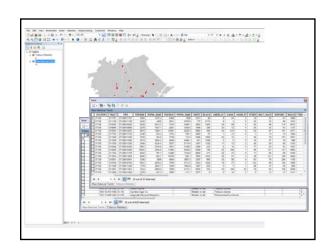


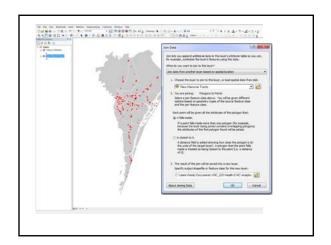


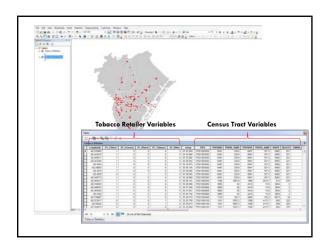


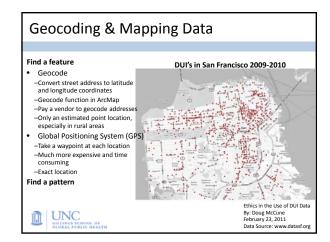


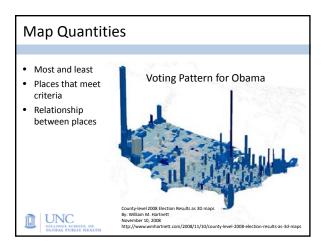


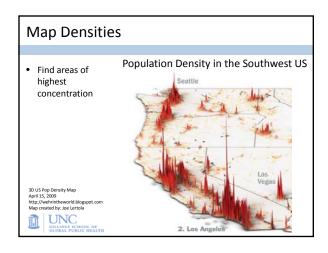




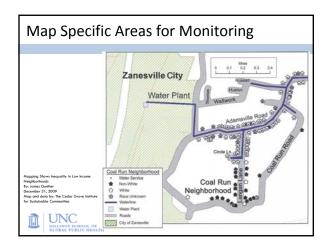


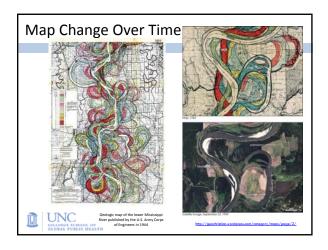


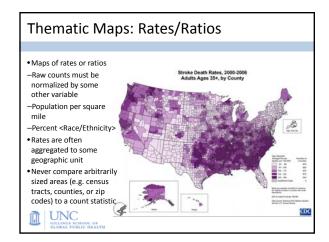


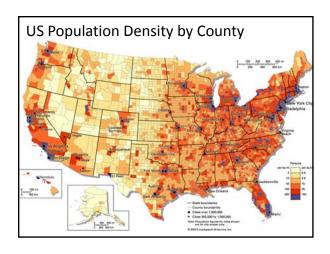




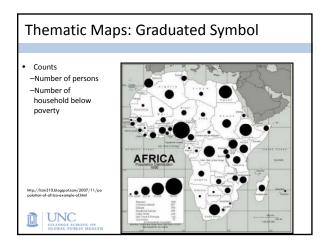


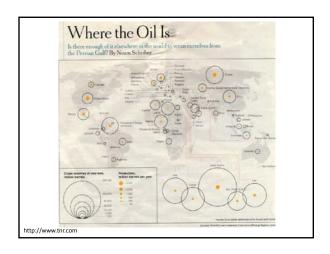


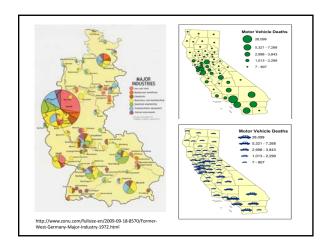


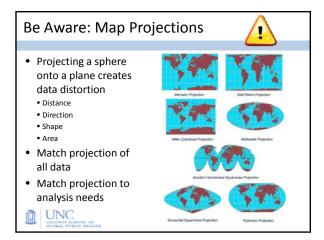


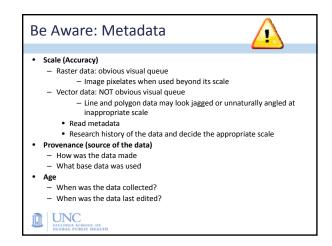


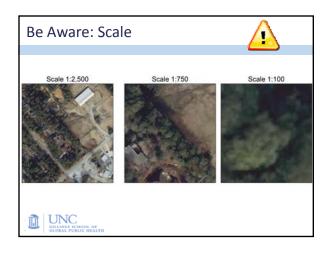


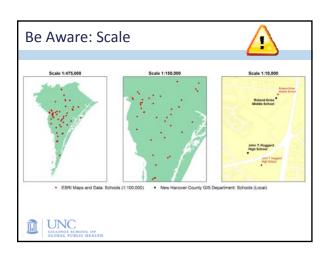












Kurt M. Ribisl, PhD

PART II — CASE STUDIES

LINE KURDOL OF GLOBAL PUBLIC REALTH

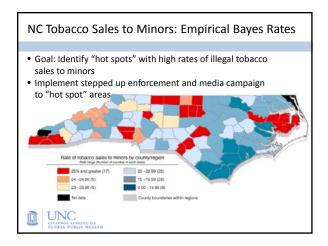
Case Study 1: Sales to Minors

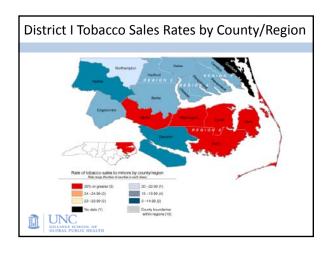
Objective: Using Synar compliance checks, deliver a targeted intervention to high-risk areas (i.e., high rates of sales to minors).

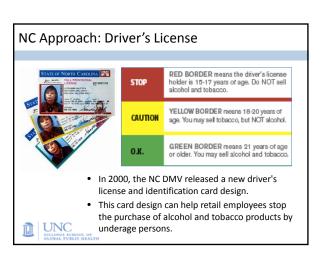
- Step 1: Geocode tobacco retailers (>7,000) & link sale/no sale data
- Step 2: Map areas with high sales
- Step 3: Deliver intervention to these areas





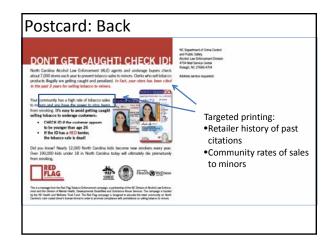




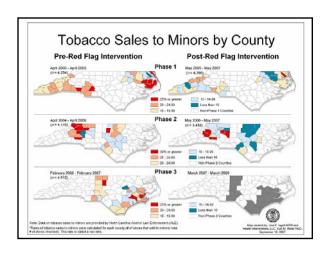












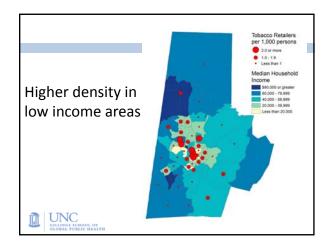
CASE STUDY 2: TOBACCO RETAILER DENSITY

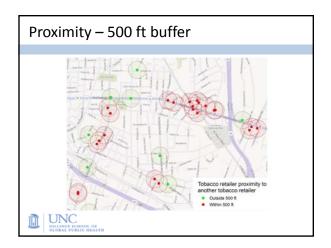
LINC
CHAPACL PUBLIC REALTH

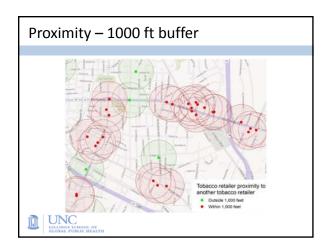
Case Study 2: Tobacco Retailer Density

- Objective: Compute the density of tobacco retailers in your community.
- Are there clusters? Could a licensing policy limiting retailer proximity reduce density?
- Step 1: Geocode all licensed retailers
- Step 2: Map retailers, link with census data
- Step 3: Compute retailer proximity





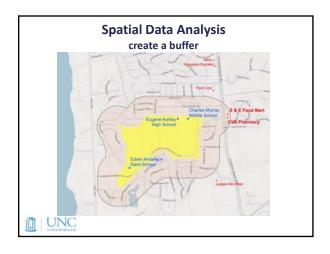


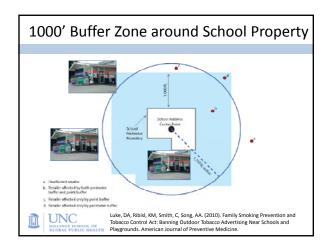


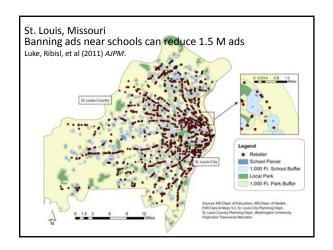
Case Study 3: Retailers Near Schools

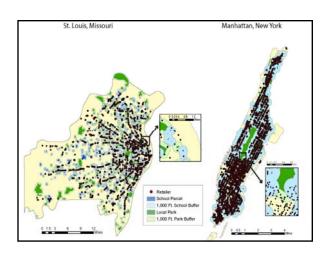
- Objective: Examine impact of Family Smoking Prevention and Tobacco Control Act (FSPTCA) rules banning outdoor tobacco advertising near schools and playgrounds would affect tobacco retailers in two states
 - New York (17,672)
 - Missouri (4,730)
- FDA is considering advertising ban distances ranging from 350 to 1000 feet, and the differential impact of these is estimated.

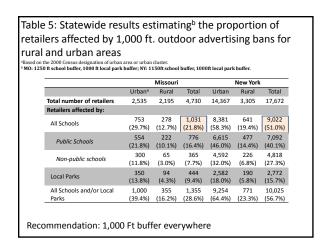


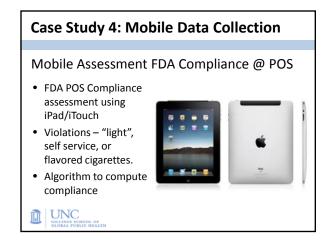




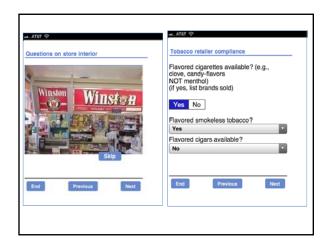




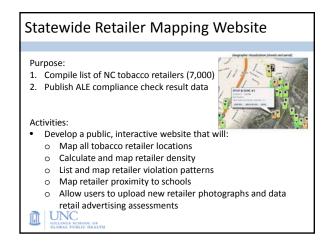


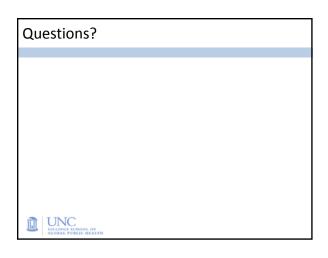












GIS and Tobacco Control

Kurt M. Ribisl, PhD
Lisa F. Isgett, MPH
CDC Surveillance and Evaluation Net-Conference
November 16, 2011

LINE
GILINGS SCHOOL OF
GLOBAL PUBLIC BEALTH