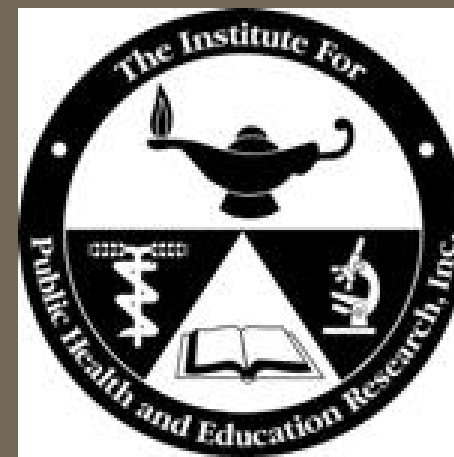


WALK

Wellness and Lifetime Knowledge



Sidewalk Inventory

City of Seguin, Texas

L. Guilliams,
C. Pennington,
G. Shreve



WALK

- Catie Pennington
 - Project Manager/GIS Analyst
- Geoff Shreve
 - GIS Analyst
- Leslie Guilliams
 - GIS Analyst





Introduction

- TIPHER's mission is to improve the quality of life by:
 - Reducing obesity and managing diabetes
 - Making Seguin more walkable
- Texas Department of State Health Services Transforming Texas grant:
 - Implement changes aligning with Healthy People 2020 focus areas
 - Supporting implementation of interventions to prevent heart attacks, strokes, cancer, and other leading causes of death or disability
- WALK will be working for TIPHER, to create a map, with detailed information on all sidewalks in Seguin





Summary

- Over the next five years, TIPHER is seeking to reduce the rate of obesity through nutrition and physical activity interventions by 5%
- TIPHER's goal is to create a walking program to encourage people to walk more





Purpose

- WALK has been tasked by TIPHER to create a sidewalk inventory and walking maps that display routes in Seguin
- The sidewalk inventory will show obstructions and specific attributes
- TIPHER would like to reinforce the Safe Routes to School program
- WALK will accomplish this by analyzing sidewalk connectivity





Purpose

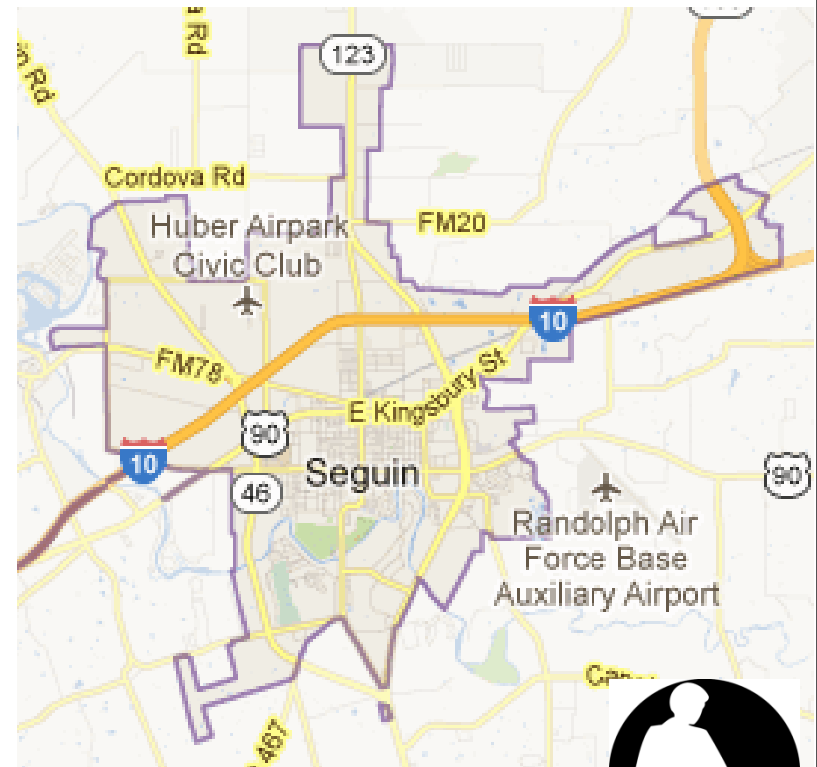
- WALK will determine sidewalk accessibility to pedestrian attractors
- This will encourage people to walk more
- WALK will also locate pedestrian attractors such as:
 - Schools
 - Banks
 - Grocery stores
 - Retail centers
- We also need to distinguish the different types of walking surfaces





Scope

- The geographic extent of our study area is Seguin, TX
 - Population (2010)per US Census website
 - Total 25,175
 - Geography
 - 35 miles northeast of San Antonio
 - 22 miles south of San Marcos
 - 15 miles southeast of New Braunfels
 - Sidewalks to roads 4:100 miles (sidewalk on both sides of road)(TIPHER data layer, 2013)





Literature Review

- Many other cities have developed pedestrian master plans :
 - College Station, TX
 - Austin, TX
 - Oakland, CA
 - San Francisco, CA
- How other cities of done it:
 - Community involvement
 - Identify Pedestrian attractors/sources
 - Develop a Pedestrian friendliness index
 - A current study by the CDC has found that areas with high pedestrian workability index have a lower rate of childhood obesity than the national average
(Slater et al / American Journal of Preventive Medicine 2013)
 - Develop a Walkability index
 - Identify Auto to Pedestrian issues





Data

- The sidewalk inventory will cover the existing sidewalk network
- The characteristics to be recorded for existing sidewalks include:
 - Width
 - Length
 - Material of the sidewalk/path
 - ADA compliance
 - Distance from curb
 - Obstructions
- Pedestrian attractors will be located





Data

- Data collection: WALK will gather the information needed
 - A survey will be attempted to bring in community opinions
 - Data will come from
 - TIPHER
 - Chamber of Commerce
 - Census data
 - Field work
- Pre-processing data: converting collected data into a compatible format and preparing it for analysis
- Data interpretation/analysis: WALK will study the area and make recommendations of where to build/repair sidewalks





Methodology

- We will do the following:
 - Import the Chamber of Commerce (CoC) data set
 - The CoC data will be used to create routes to and from pedestrian attractors/sources
 - Verify/Expand the current data set provided by TIPHER
 - Create a current sidewalk inventory with attributes (as stated in Data section)
 - The Census data will be used to identify population densities to help rank neighborhoods
 - TIPHER will be assisting us in collecting pedestrian survey info to be used for identifying areas of high pedestrian traffic
 - Field work will help to accomplish these goals by looking into the various areas within Seguin





Implications

- We will develop a strong foundation for a pedestrian master plan
- This will encourage people to get out and walk more
- Develop a stronger sense of community
- Maintain a well-developed pedestrian network





Budget

| | | | | |
|-----------------|----------------|--|------------|-------------|
| Data Analysis | Total Hours | (10 hours/week * 5 weeks * 3 consultants) | 150 hrs | \$11,250.00 |
| Equipment Costs | Depreciation | (((\$50,400 [Total value of equipment] / 36 [equipment life in months]) * 2.5 [months equipment will be in exclusive use for project]) | \$3,500.00 | \$4,550.00 |
| Data | Purchased Data | | \$0.00 | \$0.00 |
| Travel Expenses | 200 miles | (@ \$0.50 cents/mile) | | \$100.00 |
| | Total Costs | | | \$15,900.00 |





Timetable

- February 24th- March 23th
- March 10th- March 30th
- March 31st- April 13th
- April 14th- April 20th

Data Collection
Pre-processing Data
Data Analysis
Data Interpretation





Final Deliverables

- On Friday, May 3rd the following will be delivered:
 - A website
 - A final report of our processes and findings
 - A thumb drive containing
 - All data
 - All metadata
 - All reports (proposal, progress, and final)
 - All PowerPoint presentations





Conclusions

- TIPHER and WALK are dedicated to improving Seguin's health and well-being
- WALK is assisting TIPHER by creating a sidewalk inventory
- This will help improve the walkability of Seguin and encourage people to walk more in an effort to reduce diabetes and obesity

