Developing a "Risk-Index" to Target Interventions in Communities of Need

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Morgan State University as an Anchor Institution

- Morgan State University is a Historically Black University (HBCU) located in northeastern Baltimore City, Maryland, offering a comprehensive range of academic programs through the doctorate.

Morgan State University as an Anchor Institution

- Important anchor institutions such as Morgan State University are becoming powerful forces in economic development and community revitalization throughout Baltimore.

- In addition to teaching and research, one of the University's strategic goals is to help improve the surrounding community and the City of Baltimore.

What is the Morgan Community Mile?

- This ten-year initiative engages community stakeholders, university students, faculty and staff in inclusive, democratic and participatory processes that result in mutually defined community plans and projects, positive community impact, and **measurable outcomes**.

What is the Morgan Community Mile?

- There are five "pillars" upon which the Morgan Community Mile is trying to effect change and measure indicator data:

  - **Education and Youth Development**

  - **Environment**

  - **Health and Public Safety**

  - **Live, Work, and Spend**

  - **University and Community Relations**

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What is the Morgan Community Mile?

- The Morgan Community Mile Initiative is a university-community partnership that encompasses a 12-square-mile area around the University's campus, including nearly 115,000 residents.

Neighborhoods (N = 260+)
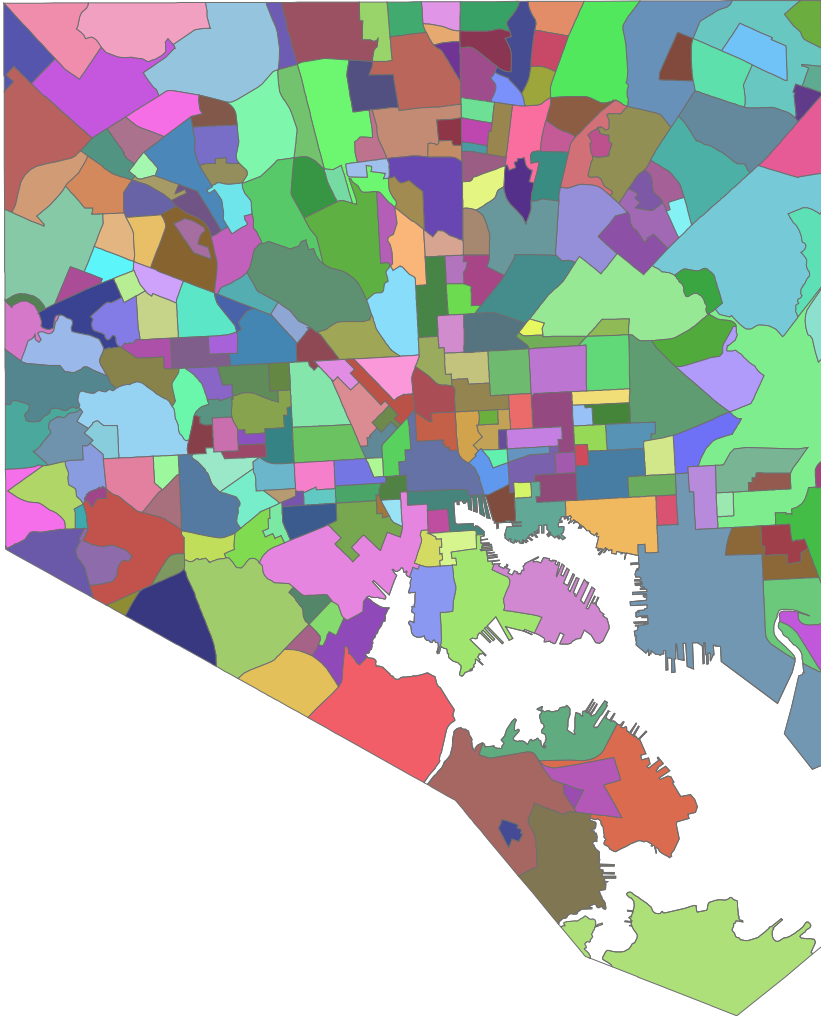
- Official definitions by the Baltimore City Planning Department

- May or may not include "perceived" neighborhoods

- LIMITATION: Typically, no statistical data are associated with these areas

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Census Tracts (N=199)
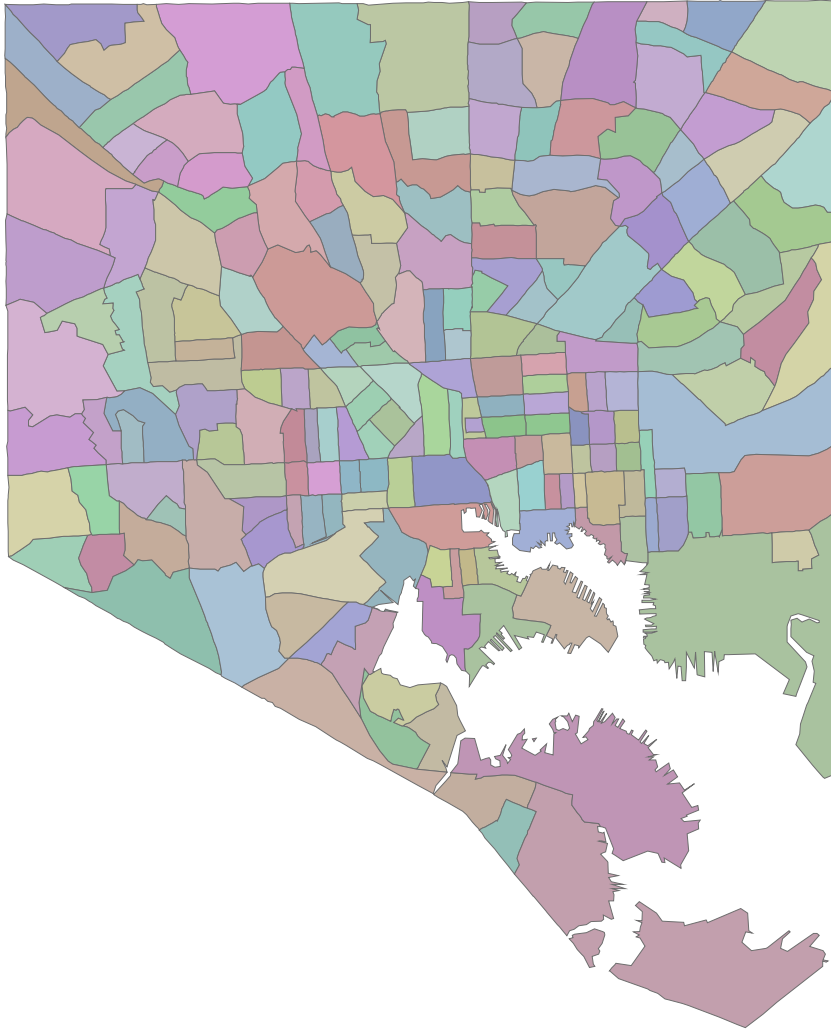
- Official definitions by the U.S Census Bureau

- Provides statistics on demographics, income, housing, education

- LIMITATIONS:

  - Areas not commonly understood as a local neighborhood

  - Risk of disclosure for some indicators (e.g. infant mortality)

55 Community Statistical Areas

- Created by the Baltimore City Planning Dept., the Family League, and the Baltimore Neighborhood Indicators Alliance

- Used to approximate neighborhoods for the publication of stable statistics across time

55 Community Statistical Areas

- **CHALLENGE**: While these CSAs allow for statistical profiles to be created on a local level, there often may exist wide variations *within* a given area.

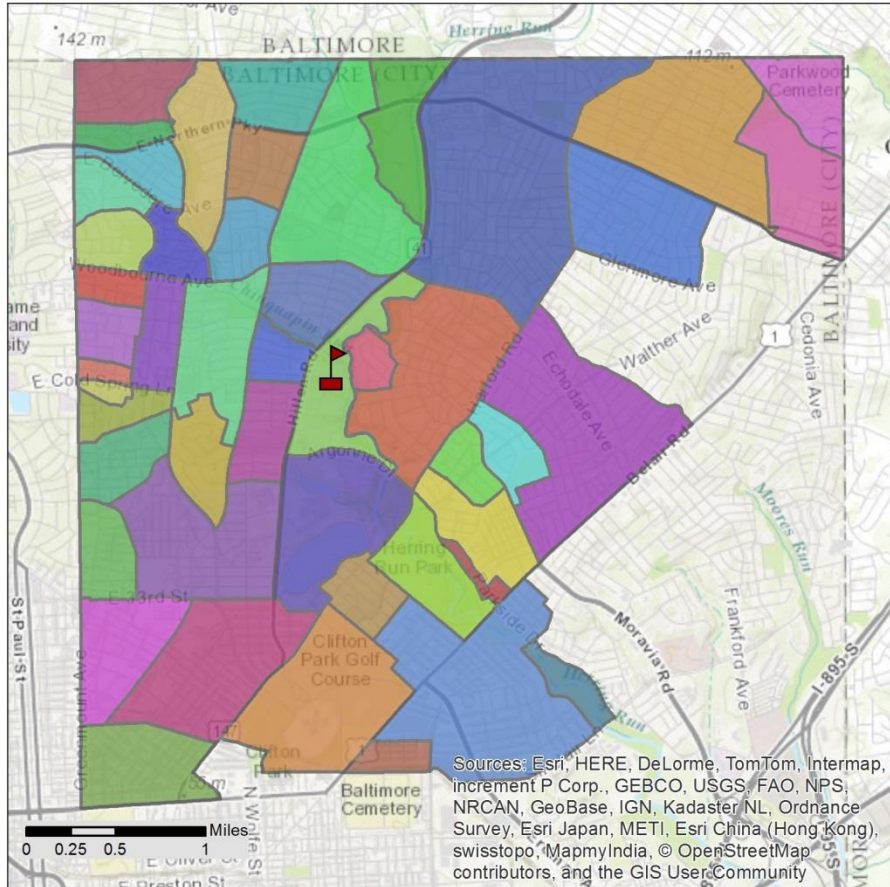# Morgan Community Mile by Community Statistical Area
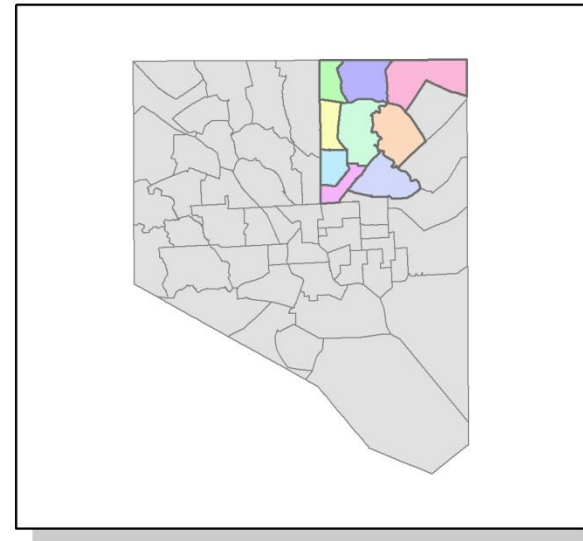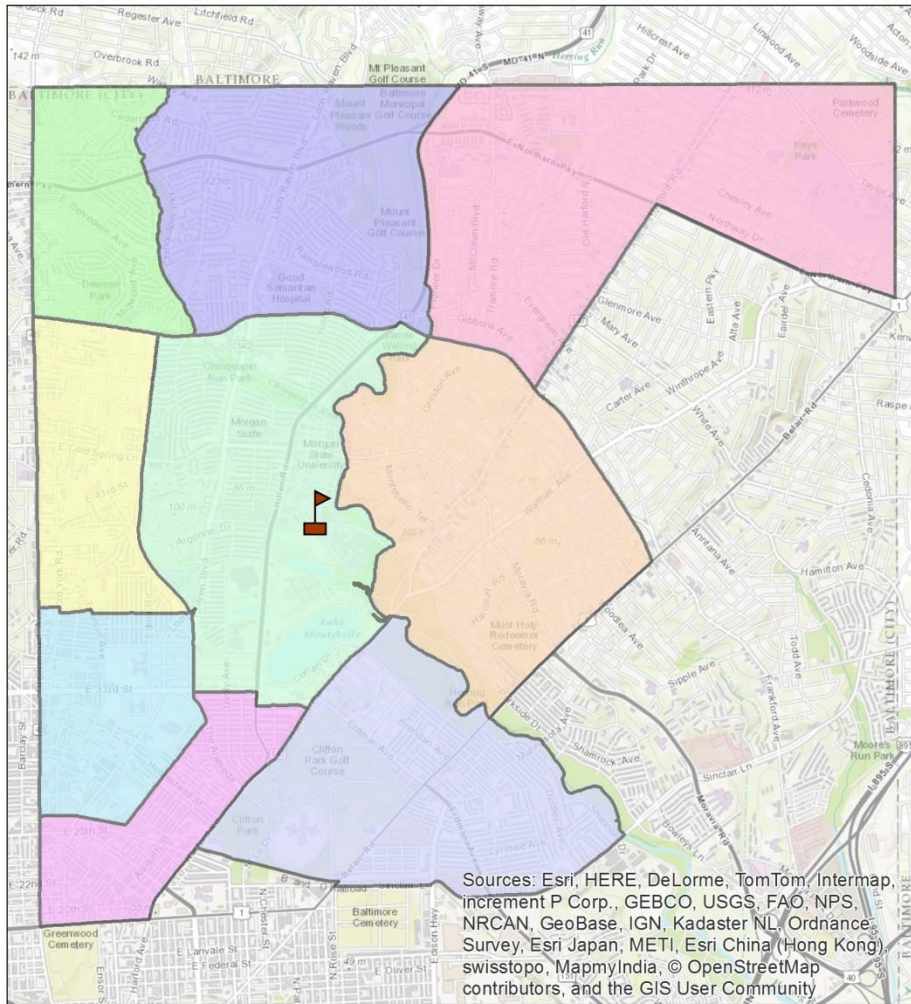
Legend

Community

⬜	Belair-Edison	⬜	Lauraville
🟩	Chinquapin Park/Belvedere	⬜	Loch Raven
🟨	Greater Govans	🟪	Midway/Coldstream
🟥	Harford/Echodale	🟩	Northwood
		🟦	The Waverlies

🚩 Morgan State University

SOURCE: 2010 U.S. Decennial Census.

Miles
0   0.375   0.75   1.5

N

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Morgan Community Mile by Neighborhood Statistical Area

Legend

Neighborhood

- Arcadia
- Belair-Edison
- Belair-Parkside
- Belvedere
- Better Waverly
- Beverly Hills
- Cameron Village
- Chinquapin Park
- Clifton Park
- Coldstream Homestead Montebello
- East Baltimore Midway
- Ednor Gardens-Lakeside
- Evesham Park
- Four By Four
- Glen Oaks
- Hamilton Hills
- Herring Run Park
- Hillen
- Idlewood
- Kenilworth Park
- Lake Walker
- Lauraville
- Loch Raven
- Lower Herring Run Park
- Mayfield
- Mid-Govans
- Montebello
- Moravia-Walther
- Morgan Park
- Morgan State University
- Mt Pleasant Park
- New Northwood
- North Harford Road
- Original Northwood
- Overlea
- Pen Lucy
- Perring Loch
- Ramblewood
- Richnor Springs
- Stonewood-Pentwood-Winston
- Taylor Heights
- Waltherson
- Waverly
- Westfield
- Wilson Park
- Winston-Govans
- Woodbourne Heights
- Woodbourne-McCabe
- Wrenlane

Morgan State University
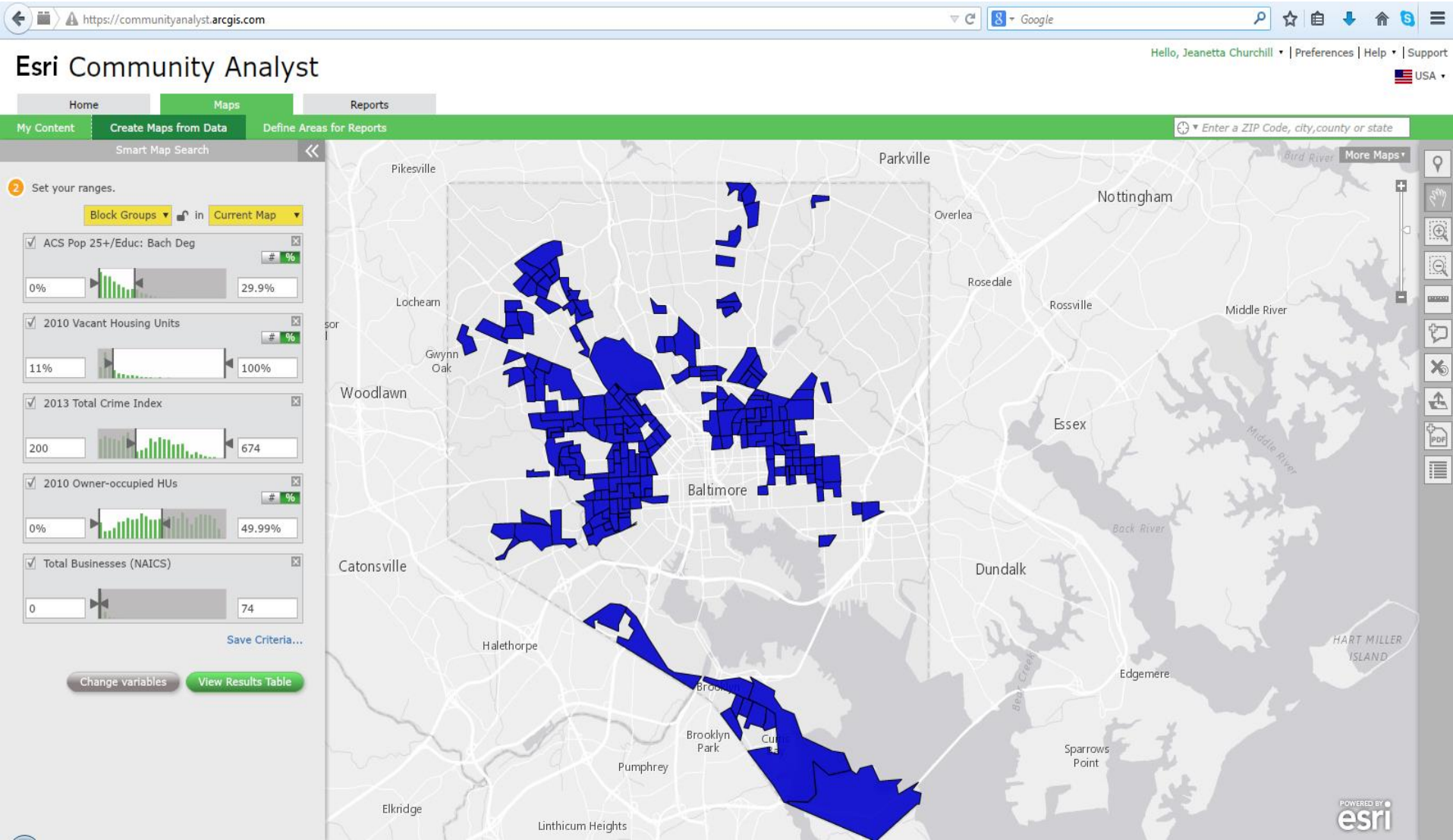
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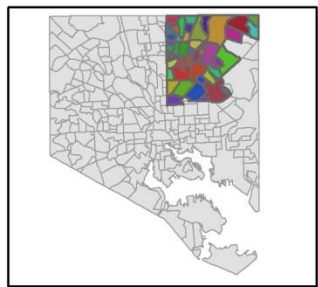
ESRI Community Analyst

ESRI Community Analyst: Risk-Index Mapping

- All neighborhoods in the Mile may not have the same level of need… need to take a targeted approach for intervention

- Rather than mapping one factor at a time, the "Smart Map" function allows me to map up to five indicators at once to identify which jurisdictions meet specified criteria

- I can specify cutpoints for each indicator in order to target "high-risk" areas which meet all criteria

ESRI Community Analyst: Risk-Index Mapping

- Education and Youth Development

  < 30% of population aged 25+ earned a Bachelor's degree

- Environment

  > 10% vacant homes

- Health and Public Safety

  Increased Crime Index (> 200, e.g. at least twice the natl. avg.)

- Live, Work, and Spend

  < 50% Owner-occupied housing units

- University and Community Relations

  < 75 commercial businesses in block group

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ESRI Community Analyst: Risk-Index Mapping

ESRI Community Analyst:
Risk-Index Mapping

ESRI Community Analyst: Risk-Index Mapping

Results-based Accountability® : Results Scorecard

- This third-party software package monitors population results and the indicator data that are part of improvement strategies and allows users to explain reasons for successes or challenges in a community.

- The software has charting functionality to examine data trends across time.

- The scorecard serves as a "data dashboard" to assess whether the outcomes are moving in the right direction.

Results
SCORECARD
Software By Results Leadership Group

Results-Based Accountability®

POPULATION ACCOUNTABILITY

RESULT
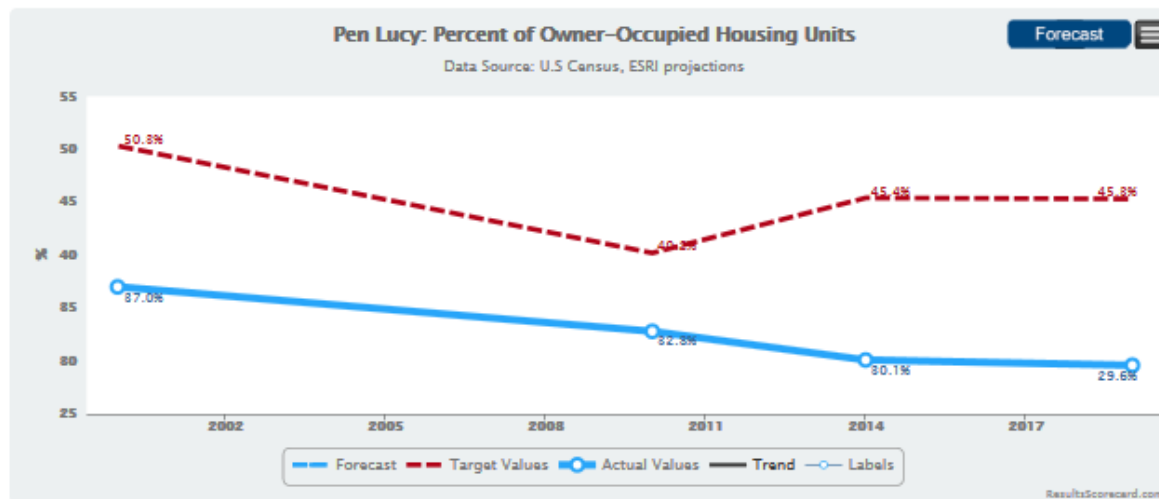A condition of well-being for children, adults, families or communities.
Healthy children; Youth graduate on time; Families are economically stable.

INDICATOR
A measure which helps quantify the achievement of a result.
Obesity rates; Graduation rates; Median family income.

I Pen Lucy: Percent of Owner-Occupied Housing Units

Pen Lucy: Percent of Owner–Occupied Housing Units
Data Source: U.S Census, ESRI projections

Forecast

Legend: Forecast — Target Values — Actual Values — Trend — Labels

50.8%   40.2%   45.4%   45.8%
37.0%   32.8%   30.1%   29.6%

2002   2005   2008   2011   2014   2017

Show Data Values

Story Behind the Curve

Pen Lucy has its own master plan because it's in such bad shape. Pen Lucy and Wilson Park are near to great neighborhoods and land marks that relatively little has to be done on the public sector for these neighborhoods to make a turn around. As property in Govans, Waverly, and Northwood becomes more scarce and costly buyers, renters, and investors alike will seek a more affordable alternative in Pen Lucy and Wilson Park. In order to ensure that Pen Lucy turns around an old and blighted commercial strip would have to be redeveloped and that's about it. Other than infrastructure improvements like road paving, increased police presence, alley cleanups, and upkeep of housing stock both occupied and vacant.

Partners

York Road Partnership:

http://yorkroadpartnership.org/

Strategy

Pen Lucy Master Plan:

http://archive.baltimorecity.gov/Portals/0/agencies/planning/public%20downloads/PenLucyAreaMasterPlan.pdf

Specific Actions

	Assigned To	Status	Due Date

New Action   Existing Action

Results-based Accountability® : Dashboard

These are the data for Pen Lucy

R Improved Education and Youth Development	Time Period	Actual Value	Current Trend	Baseline %Change
I Pen Lucy: Percent of 9th-12th Graders Chronically Absent (missing 20+ days)	2011	38.9%	↗ 1	15% ↑

R Healthy Environment	Time Period	Actual Value	Current Trend	Baseline %Change
I Pen Lucy: Percent of Vacant Housing Units	2019	19.5%	↗ 3	52% ↑

R Increased Health and Public Safety	Time Period	Actual Value	Current Trend	Baseline %Change
I Pen Lucy: Teen Birth Rate per 1,000 females (aged 15-19)	2011	68.3#	↗ 1	27% ↑

R Live, Work, and Spend More in the Community	Time Period	Actual Value	Current Trend	Baseline %Change
I Pen Lucy: Percent of Owner-Occupied Housing Units	2019	29.6%	↘ 3	-20% ↓

Next Steps

- Work with the Morgan Community Mile team to define which data indicators best measure the results that we want to impact across time.

- Compare the data from ESRI Community Analyst to the data from the U.S. Census Neighborhood Statistical Areas as a measurement validation.

- Identify potential interventions which can be made by Morgan State University in targeted neighborhoods.