

# DEVELOPING LEAD ABATEMENT AND WEATHERIZATION INDICATORS IN BALTIMORE

## Baltimore Neighborhood Indicators Alliance

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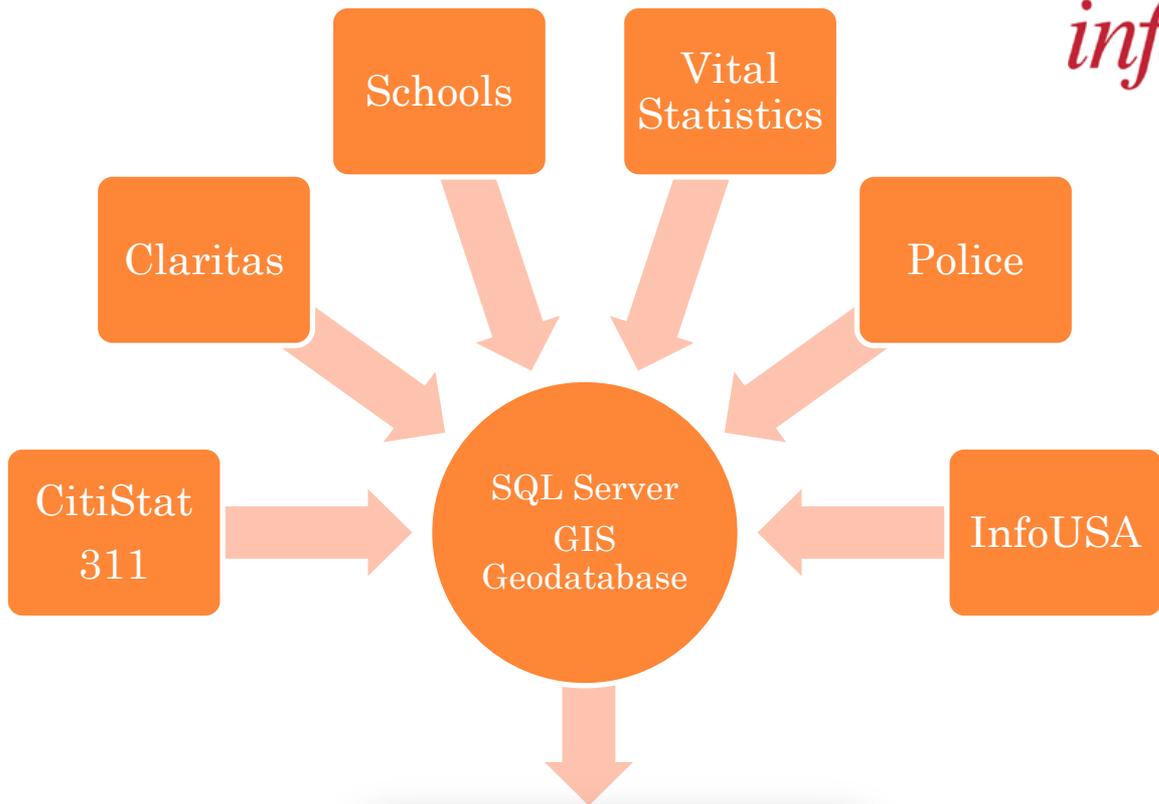


# NATIONAL NEIGHBORHOOD INDICATORS PARTNERSHIP-URBAN INSTITUTE

- Began 20 years ago
- Advanced information systems with integrated and recurrently updated information on neighborhood conditions in their cities
- Overcome the resistance of local public agencies to sharing data
- Indicators of quality of life
  - Ex: births, deaths, crime
- “Democratization of Data”



# BALTIMORE NEIGHBORHOOD INDICATORS ALLIANCE



Baltimore Neighborhood Indicators Alliance  
Jacob France Institute

# BNIA-JFI: VITAL SIGNS, 2000-2010



- Project funded by the Annie E. Casey Foundation
- Longitudinal database of 110 indicators
  - US Census & American Community Survey
  - Housing & Community Development
  - Children and Family Health & Wellbeing
  - Crime and Safety
  - Workforce & Economic Development
  - Sanitation
  - Urban Environment & Transit
  - Education & Youth
  - Neighborhood Action & Sense of Community
- Available at the CSA data FREE on BNIA-JFI website

# 2010 BALTIMORE CITY CSAs

2010 - - -

NUMBER - 55

BASED ON 2010 CENSUS BOUNDARIES

AGGREGATIONS OF CENSUS TRACTS (RESPECTFUL OF NEIGHBORHOODS)



# COLLECTIVE IMPACT

- THE FIVE CONDITIONS OF COLLECTIVE SUCCESS
  - Common Agenda
  - Shared Measurement Systems
  - Mutually Reinforcing Activities
  - Continuous Communication
  - Backbone Support Organizations

# BALTIMORE DATA DAY

- Diverse participants
- Learning atmosphere
- Focus on information
- [http://www.bniajfi.org/baltimore\\_data\\_day](http://www.bniajfi.org/baltimore_data_day)



Storify by ajzaleski

3 days ago



## At 3rd annual Data Day, proof is in the points

Over 10 years, the Baltimore Neighborhood Indicators Alliance-Jacob France Institute has collected 55,000 pieces of data about Charm City's neighborhoods. At the University of Baltimore on July 13, community leaders, concerned citizens, and government officials learned how to make the points add up.



First piece of data from Data Day: we need a bigger venue.  
[pic.twitter.com/kw9Cdab1](http://pic.twitter.com/kw9Cdab1)

# HOUSING & COMMUNITY DEVELOPMENT TRENDS

- Asset-based approach
  - Rehabilitation Permits, code violations
- Mortgage-based sales vs. cash sales is an indicator of stability/occupancy.
- Ability to obtain home mortgage approval has become more of an indicator for changing social and physical disadvantages of a neighborhood.
- May be more applicable than “days on the market”
- Median home prices serves as a proxy for housing income

# WHAT DID WE LEARN FROM VITAL SIGNS 10: UPS AND DOWNS

## ○ **Housing Market**

- City hit highs in median sales price in 2006, rehab permits in 2007 and foreclosure fillings in 2009
- Overall for the decade, median sales price is up from \$65,000 in 2000 to \$115,000 in 2010
  - Downtown, Patterson Park, South Baltimore
- Residential rehab permits are up 1.3% over decade
  - Dramatic swings in Canton, South Baltimore

# MAJOR IMPROVEMENTS

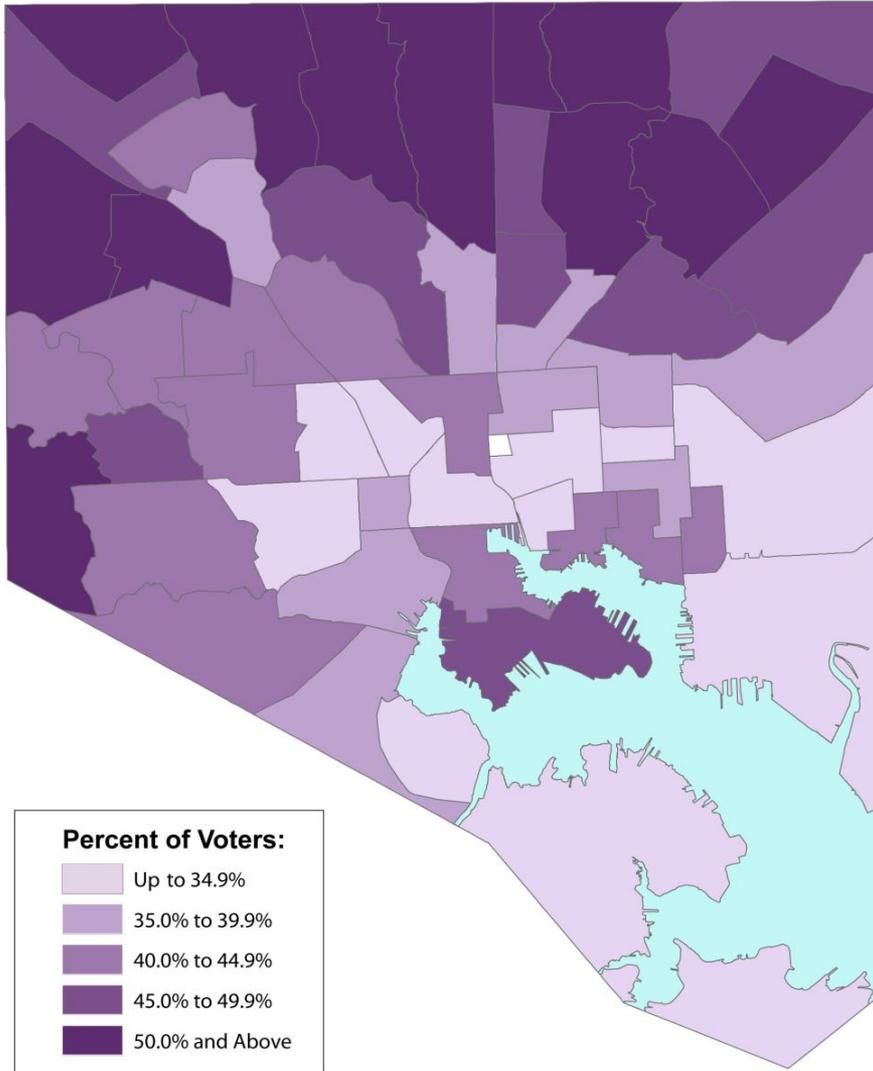
## ○ Health and Safety

- Part I Crime rate down from 106.0 per 1,000 in 2000 to 61.4 per 1,000 in 2010
  - Downtown, Midtown, Fells Point
- Teenage Birth rate down from 83.3 per 1,000 in 2000 to 51.1
  - Seton Hill/Downtown, Cherry Hill, Brooklyn/Curtis Bay
- Children with elevated blood lead levels down from 12.1% in 2000 to 1.6% in 2010
  - In 2010 only 9 neighborhoods with any children diagnosed

## ○ Diversity

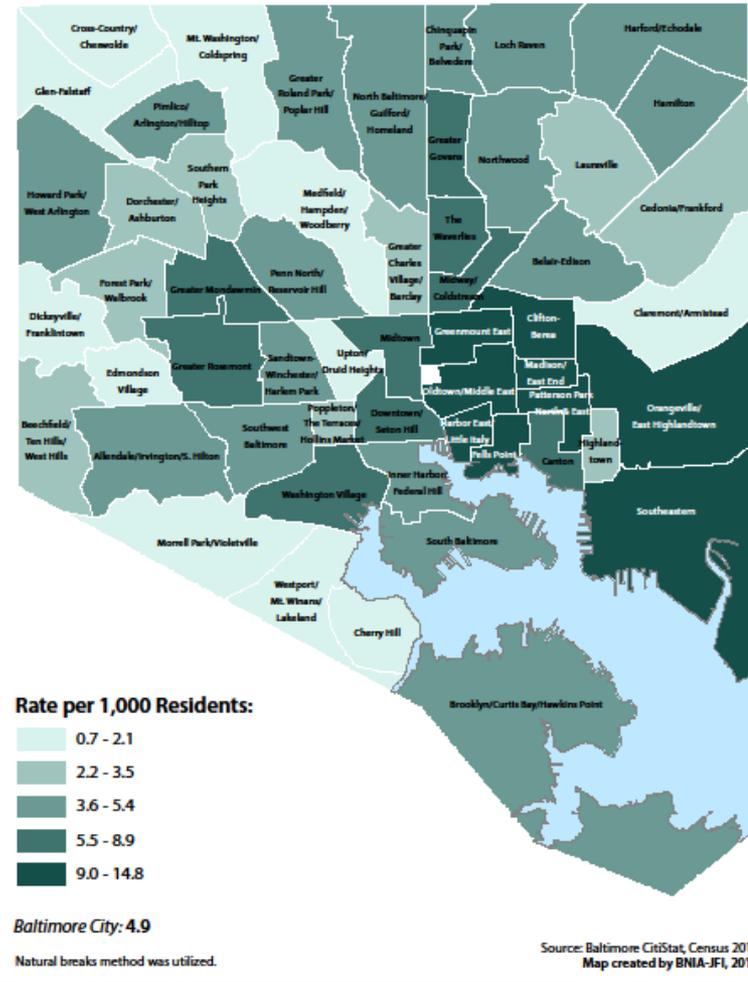
- Diversity index for Baltimore up from 38.2% in 2000 to 54.5% in 2010
  - Patterson Park, Orangeville/East Highlandtown

# Percent of Registered Voters that Voted in Last Election, 2010



Source: Baltimore City Board of Elections  
Map created by BNIA-JFI, 2011

# Rate of Clogged Storm Drains, 2010



# LOOKING AHEAD

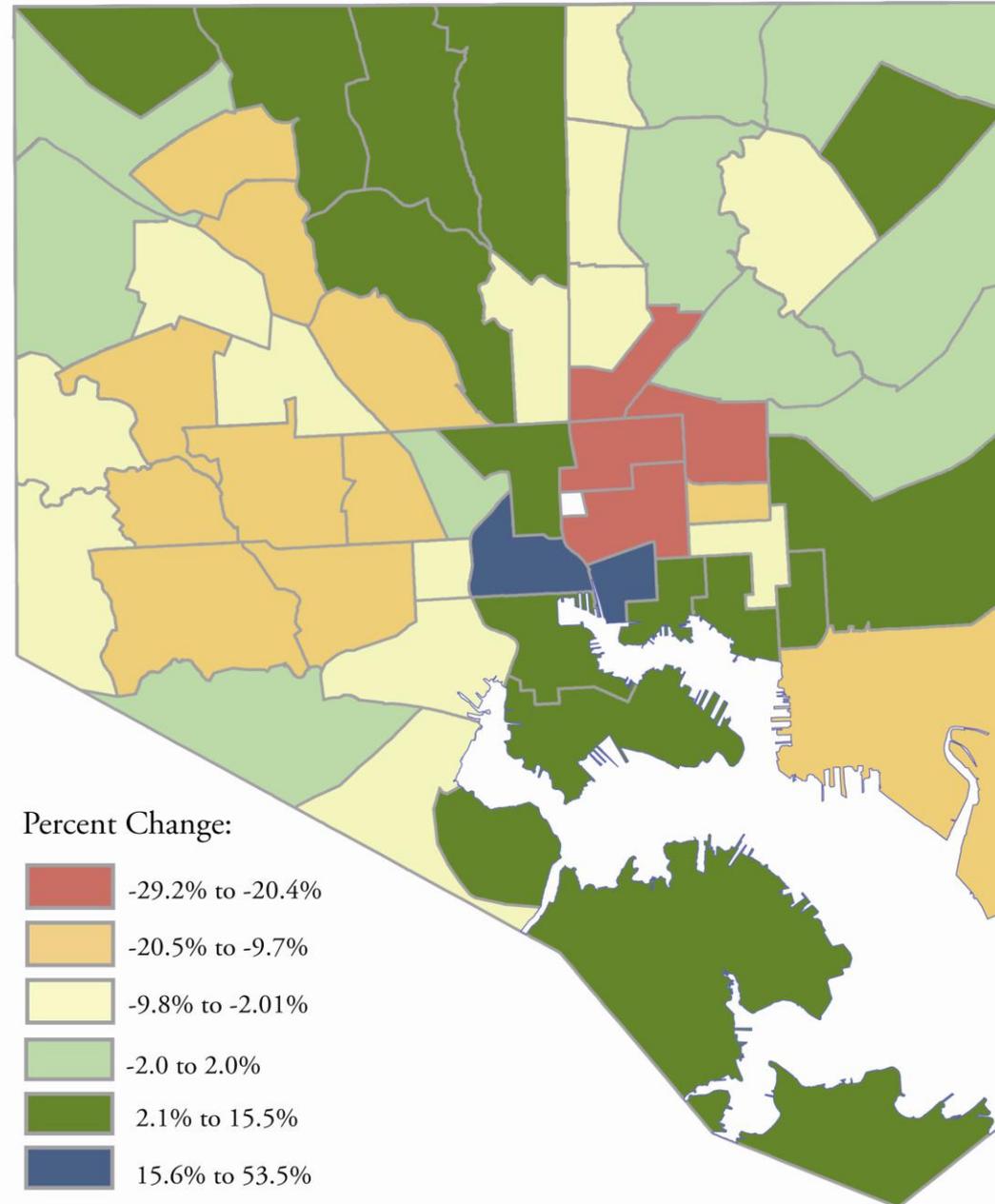
## ○ Population

- Access to regional opportunities (I-83 and I-95)

## ○ Occupancy

- Owner-occupancy down from 64.9% in 2000 to 60.2% in 2010
- Orangeville/East Highlandtown, Madison/East End, Greater Rosemont

## Total Population Change, 2000-2010



Source: U.S. Census Bureau

# LOOKING AHEAD

## ○ **Housing Affordability**

- % of population spending more than 30% of income on housing costs
  - Renters: Up from 40% in 2000 to 52.7% from 2006-2010
    - Clifton-Berea, Greater Rosemont, The Waverlies
  - Mortgage: Up from 31.6% in 2000 to 40.0% from 2006-2010
    - Edmonson Village, Howard Park/West Arlington

## ○ **Vacant and Abandoned Housing**

- Vacancy rates increased from 5.3% in 2000 to 7.9% in 2010
  - Upton/Druid Heights, Greenmount East

# DATA SOURCES

## ○ Existing

- Department of Housing (Permits, Code Violations)
- RBIntel (Sales – number and value)
- Census/American Community Survey
- MD Department of Planning (owner-occupancy)
- Metropolitan Regional Information Systems (DOM)
- Baltimore City Circuit Court (foreclosures)

## ○ New

- Department of Finance (historic tax credits)
- HUD (occupancy, subsidized housing)
- USPS
- FFIEC (HMDA)

# INTEGRATED ADMINISTRATIVE SYSTEMS

## ○ Administrative Data

- Secondary source of data, cost of public agency, regularly updated
- Legacy systems generally for billing/taxation/administration, not research/analysis
- Highly biased
  - More complete than self-reported data
- Methodologies using relative changes
  - (time series, event history, spatial analysis)



## ○ Technical Issues

- Data acquisition
- Data cleaning, auditing
- Record Linkages
  - Georeferencing, Personal Identification

# INTEGRATED ADMINISTRATIVE SYSTEMS

## ○ Legal/Ethical Issues

- Privacy Act 1974
- Federal laws protecting health and education information
  - Ex: HIPAA, FERPA



- State laws protecting children and families connected to public service agencies
- Institutional Review Boards
  - Administrative data is often exempt

## ○ Basic Functions

- Program eligibility/verification
- Reporting performance measures
- Program effectiveness/policy evaluation/impacts

# HOUSING & COMMUNITY DEVELOPMENT

## Existing Indicators

- Median Price of Homes Sold
- Median Number of Days on the Market\*
- Number of Homes Sold
- % of Housing Units that are Owner-Occupied
- Rate of properties under mortgage foreclosure
- Affordability Index
- % of Residential Properties that are Vacant and Abandoned at Year's End
- % of Residential Properties with Housing Violations (Excluding Vacants) at Year's End
- % of Properties with Rehabilitation Permits Exceeding \$5,000
- Total Number of Residential Properties

## New Indicators

- % Cash Sales
- % Foreclosure Sales
- % Tax Lien Sales
- USPS "No Stat" (occupied housing)
- % of Vacant properties owned by Baltimore City
- % Subsidized Rental (Section 8 vouchers)
- % Properties with Historic Tax Credit, Homestead Tax Credit, Homeowner's Tax Credit
- Number of Demolition Permits per 1,000 Residential Units
- Accessibility Index
- % of Homes Insured
- % of Homes Weatherized
- % of Homes with Lead Violations

# HEALTHY HOMES INITIATIVE

- Healthy Homes Initiative was launched in 1995 during the Clinton Administration to eliminate lead-based paint hazards in privately-owned and low-income housing
- Lead exposure had become one of the most common pediatric health problems in the United States
- U.S. Department of Health and Human Services to establish a goal of eliminating elevated blood lead levels (EBLL) in children by 2010.
- Center for Disease Control cited the main source of exposure was in the very homes that children were living.
- Office of Healthy Homes and Lead Hazard Control was then established in the Department of Housing and Urban Development to develop effective ways to reduce lead-based hazards.
- Coordination between public health and housing departments to prevent housing-related health and safety hazards

# PARTNERSHIP FOR SUSTAINABLE COMMUNITIES

- Launched under the Obama administration in 2009
- Calls for even greater coordination with environmental programs
- Integrating weatherization and other energy-savings programs with health and safety interventions
- Goals of the project are:
  1. Gather data to create 2 new indicators for communities
    - % homes weatherized
    - % homes abated for lead violations

# PROGRESS TO DATE

- Lead Violation data
- Established an MOU with the Health Department

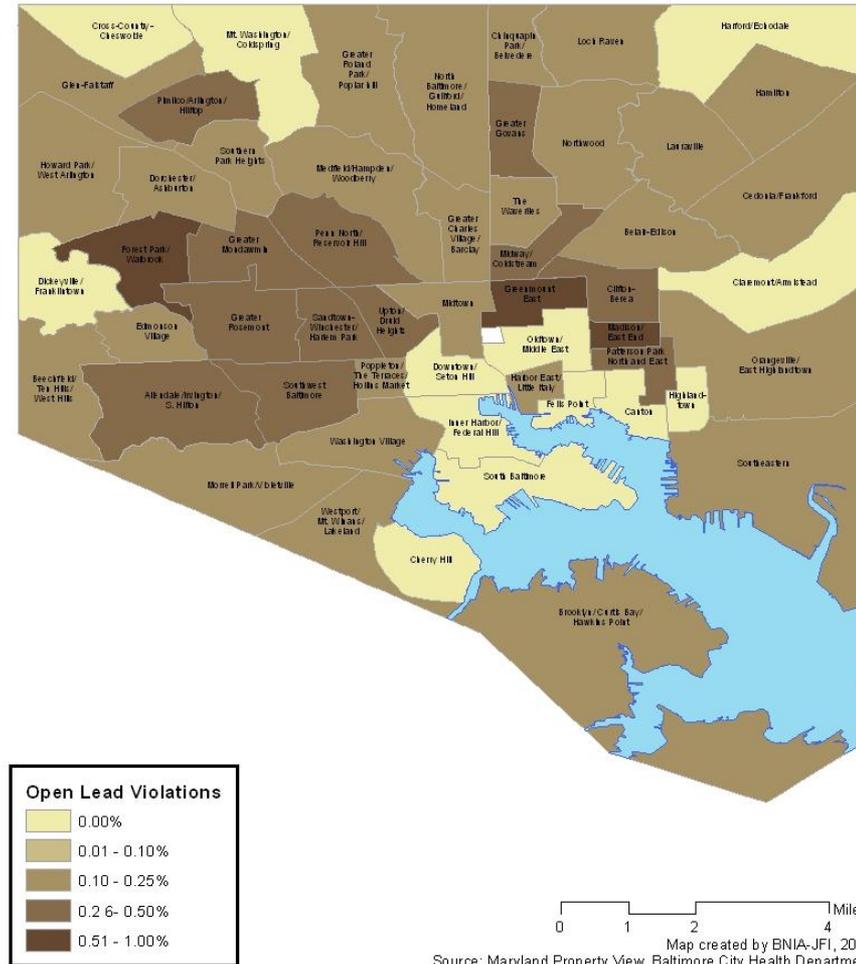
## Residential Properties with Open Lead Violations

Percentage of residential properties that did not fulfill Baltimore City's lead abatement requirements in 2010.

Sources: Maryland Property View, Baltimore City Health Department

Community Statistical Area (CSA)	Residential Properties	Percent with Open Lead Violations
Allendale/Irvington/South Hilton	5,568	0.29
Beechfield/Ten Hills/West Hills	3,557	0.25
Belair-Edison	6,295	0.30
Brooklyn/Curtis Bay/Hawkins Point	4,283	0.14
Canton	4,013	0.02
Cedonia/Frankford	6,294	0.22
Cherry Hill	988	0.40
Chinquapin Park/Belvedere	2,694	0.07
Claremont/Armistead	725	0.14
Clifton-Berea	4,783	0.38
Cross-Country/Cheswolde	2,914	0.07
Dickeyville/Franklinton	333	0.90
Dorchester/Ashburton	3,421	0.47
Downtown/Seton Hill	670	0.45
Edmondson Village	2,843	0.28
Fells Point	4,058	0.07
Forest Park/Walbrook	2,883	0.49
Glen-Falstaff	3,691	0.08

## Percentage of Residential Properties with Open Lead Violations in 2010



# PROGRESS TO DATE

- Weatherization data (3000 Homes in the state)
- Ineligible households/homes
  - Uninsured
  - Other violations
  - Renter-occupied
- Energy Assistance data (32,000 homes in Baltimore City)
- Other reported indicators relevant to community development
  - Sales transactions
  - Rates of foreclosure
  - Vacancy
  - Other code violations

# FUTURE PROJECTS

## ○ Integrated Data Systems

- Record linking occurring in human services & education fields
- Baltimore University Data Alliance (BUDA)

## ○ Housing as Platform

- Housing as an intervening variable for other outcomes
- Inadequate stable housing in Baltimore

# NEW INDICATORS

- Roundtable conversations

- July 17: Housing & Community Development

- July 19: Public Health & Safety

- July 24: Education

- July 26: Sustainability

- July 31: Economic Development/Arts & Culture

# WHAT'S IN YOUR PROFILE?

## ○ Take Action:

- **Download Your Profile:** BNIA-JFI produces [55 Community Profiles](#)
- **Put it on Your Agenda:** Encourage your community association (formal or informal!) to discuss the indicators in the community profile at their next meeting agenda
- **What's in Your Profile?** Join the conversation across the City to reflect on what you see. Any interesting trends? Any surprises? Let BNIA-JFI know on [Facebook](#) or [Twitter](#)

# QUESTIONS?

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