MAPPING INEQUITY
VISIONING CHANGE
A FORUM ON FAIR HOUSING AND FAIR LENDING
12.11.09
Mapping Communities of Opportunity in New Orleans

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Mapping Opportunity: Why and How

Inequality has a geographic footprint

Maps can visually track the history and presence of discriminatory and exclusionary policies that spatially segregate people

Identifying places with gaps in opportunity can help direct future investment and identify structures which impede access to opportunity
Opportunity Matters: Space, Place, and Life Outcomes

• “Opportunity” is a situation or condition that places individuals in a position to be more likely to succeed or excel.

• Opportunity structures are critical to opening pathways to success:
  – High-quality education
  – Healthy and safe environment
  – Stable housing
  – Sustainable employment
  – Political empowerment
  – Outlets for wealth-building
  – Positive social networks
Which community would you choose?
Some people ride the “Up” escalator to reach opportunity. Others have to run up the “Down” escalator to get there.
Opportunity Mapping framework

- A research tool used to understand the dynamics of “opportunity” within a region
- To illustrate where opportunity rich communities exist (and assess who has access to these communities)
  - Also, to understand what needs to be remedied in opportunity poor communities
Opportunity Mapping Model

- A refined model to depict spatial pattern of opportunity
  - Identifying indicators as proxy for opportunity
  - Supported by social science literature
  - Data easily available
  - Index based approach compresses multi-factors to an index

- Model is a good communications tool to work with communities
Mapping Communities of Opportunity (Post-Katrina): Indicators

- Indicators as proxy for opportunity were identified in consultation with GNOFHAC and GNOCDC
- Indicators selected represented five areas of opportunity:
  - Education quality and opportunity
  - Economic Opportunity and mobility
  - Housing and Neighborhood
  - Public Health access
  - Environmental quality
### Indicators and data sources

#### Educational Quality and Opportunity

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>School Access</td>
<td>Distance to nearest Acceptably Performing School with Open Enrollment</td>
<td>New Orleans Parents' Guide to Public Schools</td>
<td>2009</td>
</tr>
</tbody>
</table>

#### Economic Health and Mobility

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Availability</td>
<td>Number of jobs per household within a 3-mile buffer of the tract centroid</td>
<td>ESRI Business Analyst</td>
<td>2008</td>
</tr>
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</table>

#### Housing and Neighborhood Stability

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreclosure Rate</td>
<td>Percentage population Increase from June 2006 to June 2009</td>
<td>HUD User (huduser.org)</td>
<td>June 2008</td>
</tr>
<tr>
<td>Population Increase</td>
<td>Percentage population Increase from June 2006 to June 2009</td>
<td>GNOCDC (gnocdc.org)</td>
<td>June 2006 &amp; June 2009</td>
</tr>
<tr>
<td>Crime Rate</td>
<td>Crimes per Household</td>
<td>Citizen Crime Watch (citizencrimewatch.org)</td>
<td>Aug 2008 to Sept 2009</td>
</tr>
<tr>
<td>Median Home Sale Price</td>
<td></td>
<td>Trulia (trulia.com/)</td>
<td>July 2009 to Sept 2009</td>
</tr>
<tr>
<td>Vacancy Rate</td>
<td></td>
<td>HUD/USPS (huduser.org)</td>
<td>Quarter ending Sept 2009</td>
</tr>
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</table>

#### Public Health Access

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Access</td>
<td>Number of health care facilities and hospitals per household within a 3-mile buffer of the tract centroid</td>
<td>GNO Community (gnocommunity.org); ESRI Business Analyst</td>
<td>Sept 2009; 2008</td>
</tr>
<tr>
<td>Grocery Access</td>
<td>Distance to nearest grocery store from Census tract centroid</td>
<td>New Orleans Food Policy Advisory Committee</td>
<td>Aug 2009</td>
</tr>
<tr>
<td>Medically Underserved Areas</td>
<td>Index of Medical Underservice</td>
<td>HRSA (muafind.hrsa.gov)</td>
<td>2009</td>
</tr>
</tbody>
</table>

#### Environmental Quality

<table>
<thead>
<tr>
<th>INDICATOR</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parks &amp; Open Space</td>
<td>Amount of park and open space per household within a 1-mile buffer surrounding Census tract centroid</td>
<td>ESRI</td>
<td>2008</td>
</tr>
<tr>
<td>Flood Risk</td>
<td>Percentage of Census tract that was flooded in Hurricane Katrina</td>
<td>FEMA</td>
<td>2005</td>
</tr>
</tbody>
</table>
Indicators dropped

- Student poverty rate
- Test scores for neighborhood schools
- Teacher qualifications
- Incarceration Rate
- Public Transit Access
- Unemployment Rates
- Population on Public Assistance
- Vehicle Ownership
- Home Ownership Rate
- Blighted Properties
- Poverty Rate
Data representing community conditions was gathered for the city of New Orleans—aggregated to the neighborhood (Census Tract) level and analyzed to create a comprehensive opportunity index.

The opportunity index is then mapped and census tracts are broken into quintiles based on their opportunity score:

- Very Low, Low, Moderate, High, Very High
Post-Katrina Opportunity Mapping, New Orleans, LA
Opportunity Distribution based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators

Source: CitizenCrimeWatch.org, ESRI Business Analyst, FEMA, GNOCDG/Vachelis, GNO/Community.org, HANO, HPSA, HUD, User, New Orleans Food Policy Advisory Committee, New Orleans Parents’ Guide to Public Schools, Trulia | Date: 12.07.09

LEGEND
- Limited Access
- Highway
- Water Feature
- Parks & Open Spaces
- Counties
- Opportunity Category
  - Very Low
  - Low
  - Moderate
  - High
  - Very High

The Ohio State University
KIRWAN INSTITUTE for the Study of Race and Ethnicity
Opportunity and 2-Bedroom Section 8 Housing Units, Post-Katrina New Orleans, LA

Opportunity Distribution based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators, overlaid with 2-Bedroom Section 8 Housing Units listed by HANO 10-19-09

Source: CitizenCrimeWatch.org, ESRI Business Analyst, FEMA, GNOCDC/dcasists, GNOCommunity.org, HANO, HRESA, HUD User, New Orleans Food Policy Advisory Committee, New Orleans Parents' Guide to Public Schools, Trulia | Date: 12.07.09

LEGEND
- 2-Bedroom Unit
- Limited Access
- Highway
- Water Feature
- Parks & Open Spaces
- Counties
- Opportunity Category
  - Unweighted
  - Very Low
  - Low
  - Moderates
  - High
  - Very High

KIRWAN INSTITUTE
For the Study of Race and Ethnicity

MAPPING INEQUITY VISIONING CHANGE
Opportunity and 3+ Bedroom Section 8 Housing Units, Post-Katrina New Orleans, LA

Opportunity Distribution based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators, overlaid with 3+ Bedroom Section 8 Housing Units listed by HANO 10-19-09

Source: CitizenCrimeWatch.org, ESRI Business Analyst, FEMA, SNOCDC/Vatassie, GNOCommunity.org, HANO, HRSA, HUD User, New Orleans Food Policy Advisory Committee, New Orleans Parents’ Guide to Public Schools, Trulia | Date: 12.07.09

LEGEND
- 3+ Bedroom Unit
- Limited Access
- Highway
- Water Feature
- Parks & Open Spaces
- Counties
- Opportunity Category
  Unweighted: Very Low, Low, Moderate, High, Very High

St. Bernard
Section 8 housing analysis

New Orleans Section 8 Housing Unit Distribution by Neighborhood Type (Number of Units)

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Efficiency</th>
<th>1-Bdrm</th>
<th>2-Bdrm</th>
<th>3-Bdrm</th>
<th>4-Bdrm</th>
<th>5-Bdrm</th>
<th>6-Bdrm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low and Very Low</td>
<td>1</td>
<td>84</td>
<td>309</td>
<td>405</td>
<td>55</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>24</td>
<td>111</td>
<td>95</td>
<td>12</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>High and Very High</td>
<td>2</td>
<td>26</td>
<td>78</td>
<td>55</td>
<td>9</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Number of Units
New Orleans Section 8 Housing Unit Distribution by Neighborhood Type (Percentage)

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<thead>
<tr>
<th>Unit Type</th>
<th>Efficiency</th>
<th>1-Bdrm</th>
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<th>5-Bdrm</th>
<th>6-Bdrm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low and Very Low</td>
<td>20.00%</td>
<td>62.69%</td>
<td>62.05%</td>
<td>72.97%</td>
<td>72.37%</td>
<td>62.50%</td>
<td>50.00%</td>
</tr>
<tr>
<td>Moderate</td>
<td>40.00%</td>
<td>17.91%</td>
<td>22.29%</td>
<td>17.12%</td>
<td>15.79%</td>
<td>31.25%</td>
<td>0.00%</td>
</tr>
<tr>
<td>High and Very High</td>
<td>40.00%</td>
<td>19.40%</td>
<td>15.66%</td>
<td>9.91%</td>
<td>11.84%</td>
<td>6.25%</td>
<td>50.00%</td>
</tr>
</tbody>
</table>
Reflections

• Opportunity mapping
  – Metropolitan wide analysis
  – Using public (e.g. census, state and local) and private (e.g. ESRI) data
  – Mapped opportunity distribution
<table>
<thead>
<tr>
<th>EDUCATION</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational attainment for population 25 years and over</td>
<td>Census 2000, SF 3</td>
</tr>
<tr>
<td>School poverty for neighborhood schools</td>
<td>National Center for Education Statistics, 2003-2004</td>
</tr>
<tr>
<td>Performance scores for neighborhood schools</td>
<td>Louisiana Department of Education, 2003-2004</td>
</tr>
<tr>
<td>Teachers with Masters Degree or Higher</td>
<td>Louisiana Department of Education, 2003-2004</td>
</tr>
<tr>
<td>Education quality - Core classes taught by qualified teachers</td>
<td>Louisiana Department of Education, 2003-2004</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL HEALTH &amp; FLOOD RISK</th>
<th>SOURCE</th>
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</thead>
<tbody>
<tr>
<td>Measures for post storm toxicity/Mold</td>
<td>Natural Resources Defense Council Toxicity survey data</td>
</tr>
<tr>
<td>Proximity to parks/Open spaces</td>
<td>ESRI data</td>
</tr>
<tr>
<td>Flood Risk (Elevation depth, extent and duration of flooding)</td>
<td>USGS; FEMA</td>
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<th>PUBLIC HEALTH</th>
<th>SOURCE</th>
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<tbody>
<tr>
<td>Proximity to Hospitals</td>
<td>ESRI data</td>
</tr>
<tr>
<td>Per capita number of health professionals working in neighborhood</td>
<td>Community Business Pattern 2003</td>
</tr>
<tr>
<td>Medically Underserved Areas</td>
<td>Bureau of Primary Health Care</td>
</tr>
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<th>ECONOMIC OPPORTUNITY AND MOBILITY</th>
<th>SOURCE</th>
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<tbody>
<tr>
<td>Unemployment Rates</td>
<td>Census 2000, SF 3</td>
</tr>
<tr>
<td>Population on Public Assistance</td>
<td>Census 2000, SF 3</td>
</tr>
<tr>
<td>Proximity to employment (job opportunities within 5 miles)</td>
<td>Community Business Pattern 2003</td>
</tr>
<tr>
<td>Employment competition (ratio of jobs to labor force within 5 miles)</td>
<td>Census 2000 SF3; Community Business Pattern 2003</td>
</tr>
<tr>
<td>Economic Climate (change in number of jobs from 1999 to 2004 within 5 miles)</td>
<td>Community Business Pattern</td>
</tr>
<tr>
<td>Economic Climate (business creation from 1999 to 2004 within 5 miles)</td>
<td>Community Business Pattern</td>
</tr>
<tr>
<td>Mean Commute Time</td>
<td>Census 2000, SF3</td>
</tr>
<tr>
<td>Employment Diversity (# of well paying opportunities by skill level)</td>
<td>Louisiana Department of Labor; Census 2000 SF3</td>
</tr>
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<th>HOUSING AND NEIGHBORHOODS</th>
<th>SOURCE</th>
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<tbody>
<tr>
<td>Property Values</td>
<td>Census 2000 SF3</td>
</tr>
<tr>
<td>Housing Vacancy Rates</td>
<td>Census 2000 SF3</td>
</tr>
<tr>
<td>Housing Cost Burden</td>
<td>Census 2000 SF3</td>
</tr>
<tr>
<td>Crime Rates</td>
<td>ESRI data</td>
</tr>
<tr>
<td>Poverty Rates</td>
<td>Census 2000 SF3</td>
</tr>
<tr>
<td>Population Change 1990-2000</td>
<td>GeoLYtics Neighborhood Change Database</td>
</tr>
<tr>
<td>Home Ownership</td>
<td>Census 2000 SF3</td>
</tr>
</tbody>
</table>
Opportunity mapping, New Orleans City and Surrounding Areas, LA
Opportunity Distribution (by census tracts) based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators

Source: Census 2000; SchooMatters.com; NCES/LDOE; NRDC/ESRI; CBP; HRSA; USGS; FEMA; Neighborhood Change Database | Date: 01/17/06

LEGEND
- Black population
- 1 In 5 to 200
- Census Tracts
- Neighborhoods
- Counties
- Water Feature
- Regional opportunity
- Quantile based categories
- Very Low Opportunity
- Low Opportunity
- Moderate Opportunity
- High Opportunity
- Very High Opportunity

KIRWAN INSTITUTE FOR THE STUDY OF RACE AND ETHNICITY
Opportunity and 2-Bedroom Section 8 Housing Units, Pre-Katrina New Orleans, LA

Opportunity Distribution based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators, overlaid with 2-Bedroom Section 8 Housing Units listed by HANO 3-9-04

Source: CBR, Census 2000, ESRI, FEMA, Housing Authority of New Orleans, HRSA, LDCE, NCES, Neighborhood Change Database, NRDC, SchoolMatters.com. US03 | Date: 12.08.09

LEGEND
- 2-Bedroom Unit
- Limited Access
- Highway
- Water Feature
- Parks & Open Spaces
- Counties
- Opportunity Category
  - Very Low
  - Low
  - Moderate
  - High
  - Very High

Lake Pontchartrain

St. Bernard

Jefferson

Plaquemines

Mississippi River
Opportunity and 3+ Bedroom Section 8 Housing Units, Pre-Katrina New Orleans, LA

Opportunity Distribution based on Education, Environmental Health and Flood Risk, Public Health, Economic Opportunity and Mobility, Housing and Neighborhood Indicators, overlaid with 3+ Bedroom Section 8 Housing Units listed by HANO 3-9-04

Source: CBP, Census 2000, ESRI, FEMA, Housing Authority of New Orleans, HRCA, LDOE, NCES, Neighborhood Change Database, NRDC, SchoolMatters.com, USGS | Date: 12/08/09

LEGEND

- 3+ Bedroom Unit
- Limited Access
- Highway
- Water Feature
- Parks & Open Spaces
- Counties
- Opportunity Category
  - Very Low
  - Low
  - Average
  - High
  - Very High
Observations

• Section 8 housing primarily concentrated in low and very low opportunity areas
  – Voucher recipients might have fewer choices outside low opportunity areas
  – A system of disadvantage that affects life outcomes
  – Re-concentrating poverty

• Audit by GNOFHAC
  – Prevalent discrimination
  – Reduced housing choice
Next Steps

• Update opportunity distribution
  – Based on Census 2010 data
  – Identify additional indicators

• Overlay
  – Provide additional overlays
  – Get detailed information on voucher movers
  – Neighborhood analysis for voucher movers
Thank you!
For questions, comments or for more information: www.kirwaninstitute.org or e-mail us at Gambhir.2@osu.edu