LEVERAGING CENSUS DATA FOR MPO EQUITY ANALYSES



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LEVERAGING CENSUS DATA FOR MPO EQUITY ANALYSES

Overview

- About DVRPC
- DVRPC's Approach to Equity Analysis: Indicators of Potential Disadvantage (IPD)
- Understanding Equity Regulations for IPD 2.0
- Updating DVRPC's Methodology for IPD 2.0
- Lessons Learned: Beyond the Legislation
- IPD 2.1 Experiments:
 - Workplace and Journey to Work
 - Statistical Significance



DELAWARE VALLEY REGIONAL PLANNING COMMISSION

Federally designated MPO for nine-county Philadelphia region

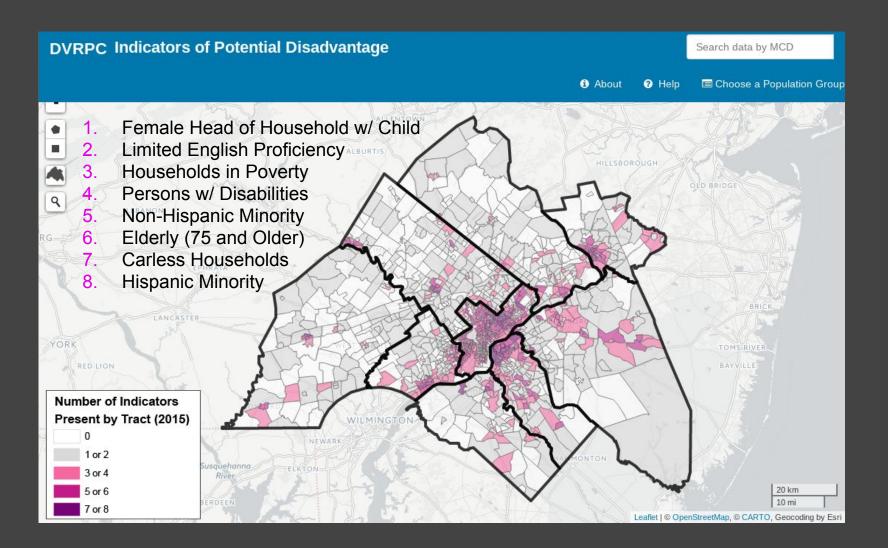
Must comply with Title VI requirements and Environmental Justice (EJ) recommendations

IPD 1.0: OVERVIEW

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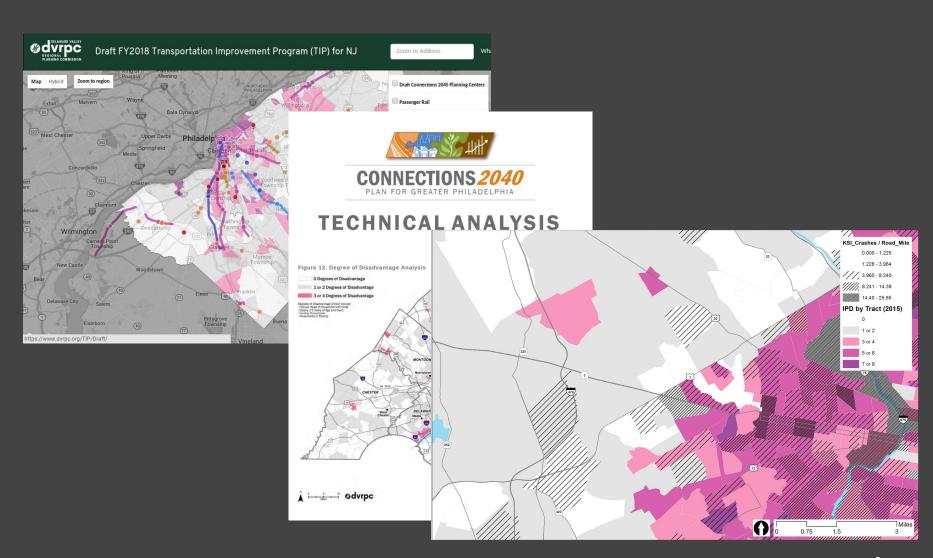


INDICATORS OF POTENTIAL DISADVANTAGE 1.0



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USING INDICATORS OF POTENTIAL DISADVANTAGE 1.0

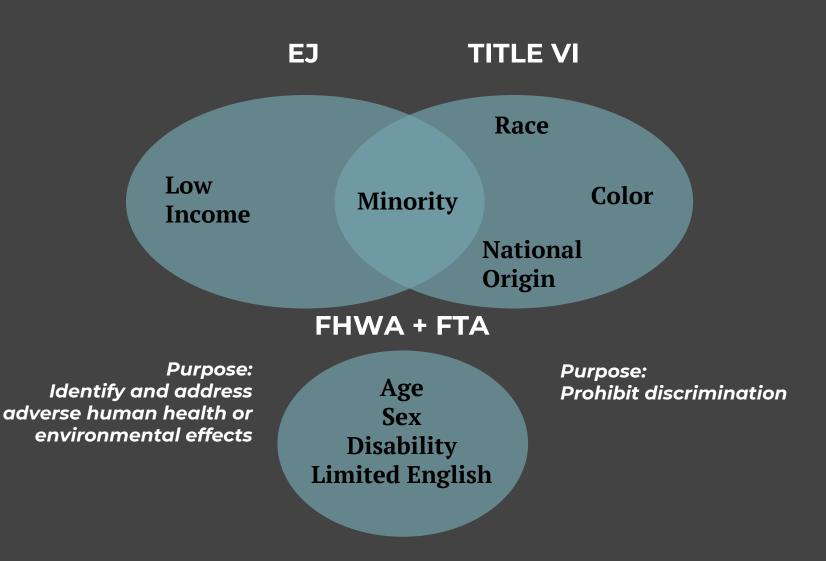


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IPD 2.0: UNDERSTANDING EQUITY REGULATIONS

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UNDERSTANDING EQUITY REGULATIONS



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Current indicators	Title VI and EJ populations
Elderly (75 and Older)	• Age
Female Head of Household	• Sex
with Child	• Minority
Non-Hispanic Minority	• Race
Hispanic Minority	Ethnicity
Limited English Proficiency	National origin
Persons with Disabilities	Limited English Proficiency
Households in Poverty	• Disability
Carless Households	 Low-Income

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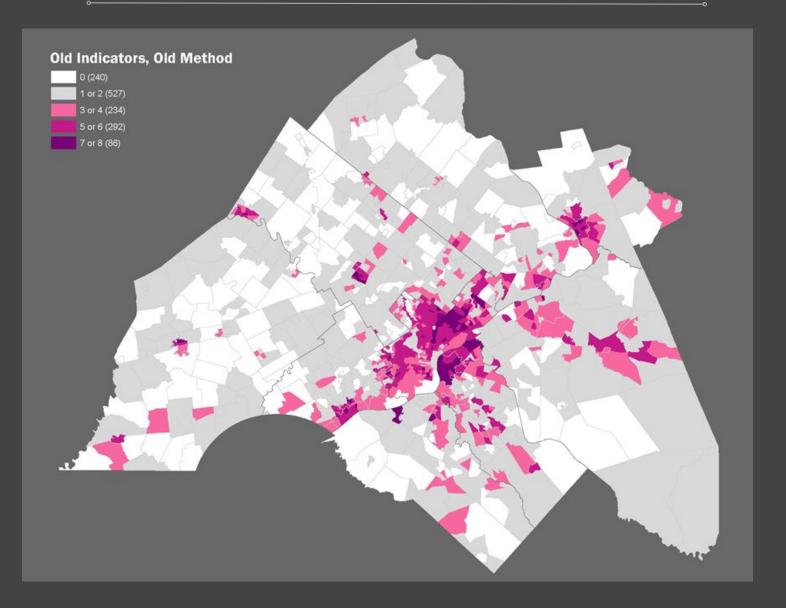
Indicator (ACS 5-year estimates)	Executive Order 12898	Title VI of the Civil Rights Act of 1964	FHWA's Title VI and EJ documents	FTA's Title VI and EJ documents
Youth			 ✓ 	
Older Adults			 ✓ 	
Female			 ✓ 	
Racial Minority	~	~	 ✓ 	~
Ethnic Minority	~	~	 ✓ 	~
Foreign Born		~	 ✓ 	~
Limited English Proficiency		~	~	~
Disabled			~	
Low-income	~		ن	~

Indicator (ACS 5-year estimates)	Executive Order 12898	Title VI of the Civil Rights Act of 1964	FHWA's Title VI and EJ documents	FTA's Title VI and EJ documents
Youth			v	
Older			v	
Female			v	
Racial Minority	<i>v</i>	~	v	
Ethnic Minority	<i>v</i>	~	 ✓ 	
Foreign-Born		~	v	
Limited English Proficiency		V	v	 ✓
Disabled			~	
Low-income	~		~	v
Carless Households	X	X	X	X
Female Head of Household	?	X	?	X

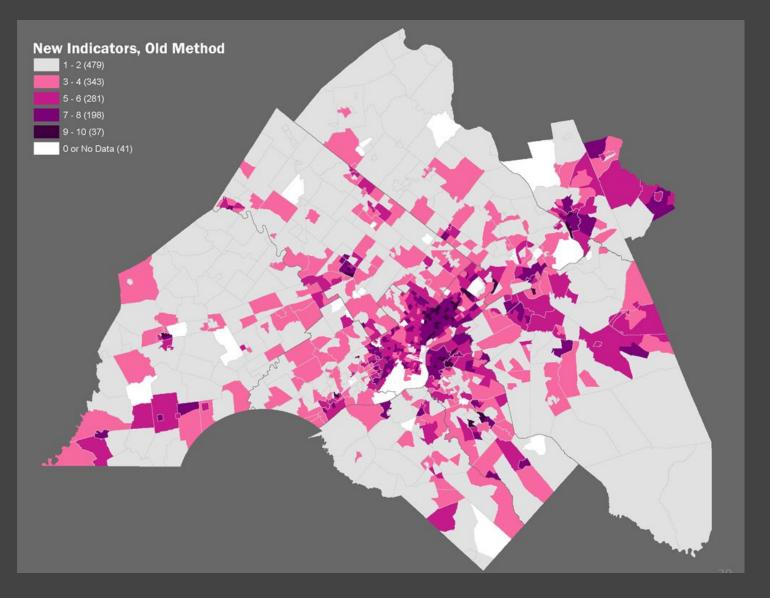
IPD 2.0: UPDATING METHODOLOGY

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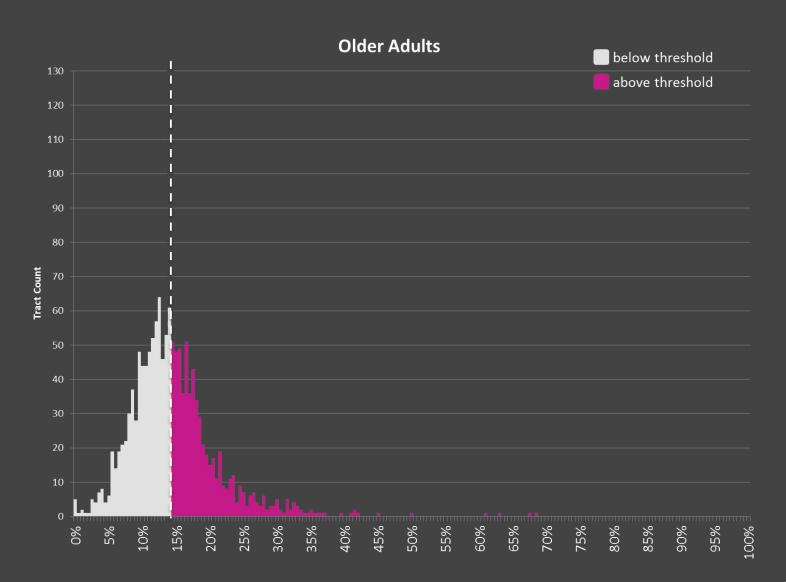
IPD 1.0 METHODOLOGY



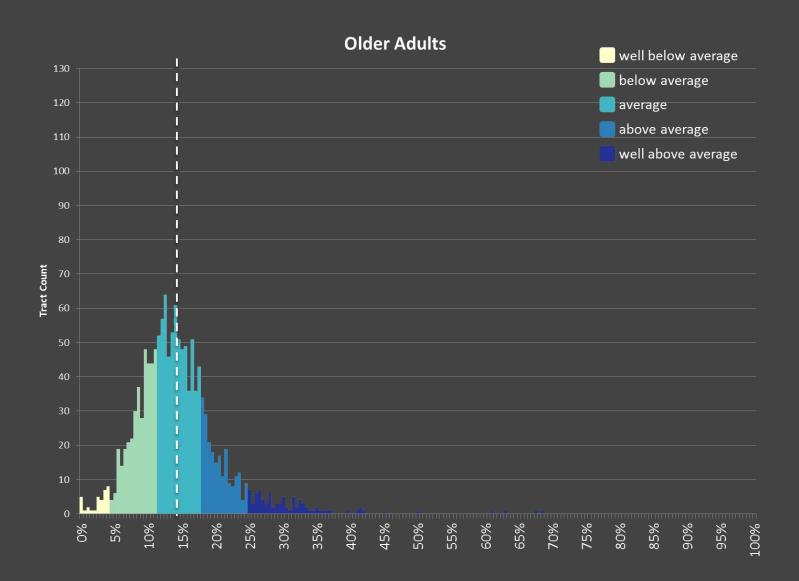
2.0 INDICATORS WITH 1.0 METHODOLOGY



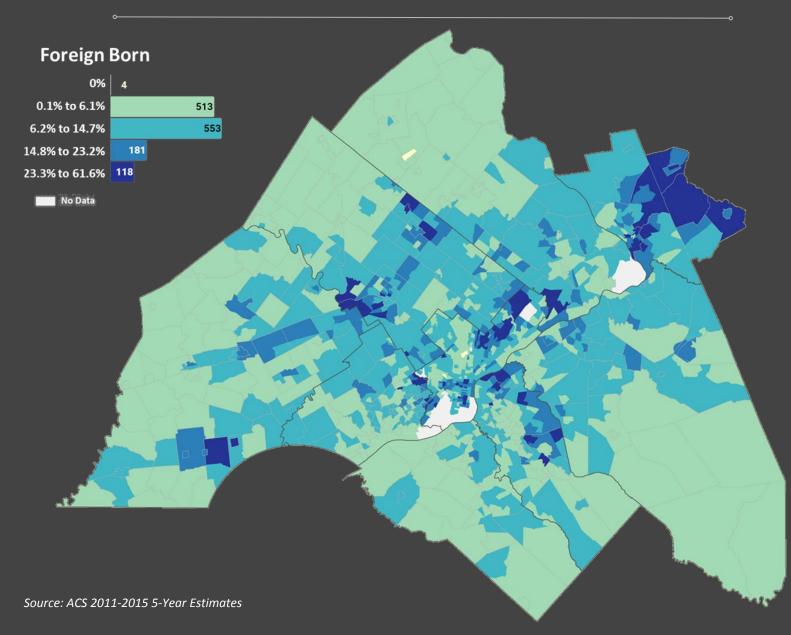
1.0 METHODOLOGY



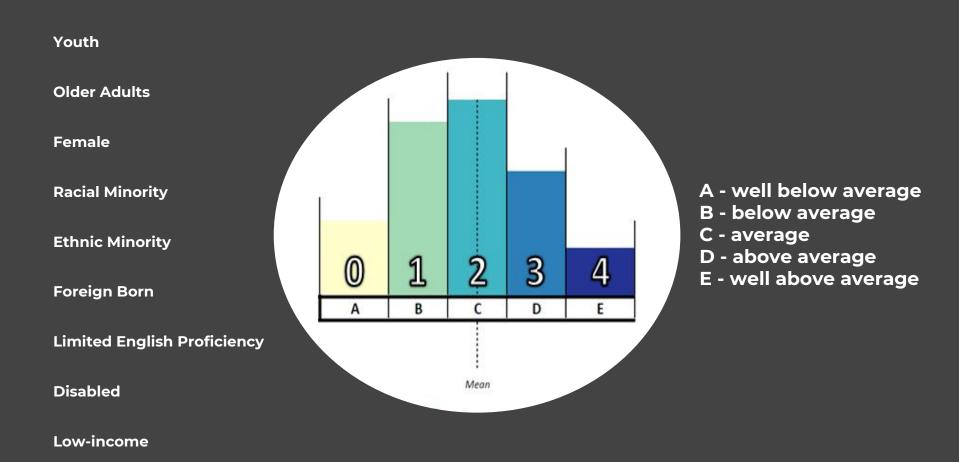
2.0 METHODOLOGY



IPD 2.0 INDICATORS + METHODOLOGY MAPPED

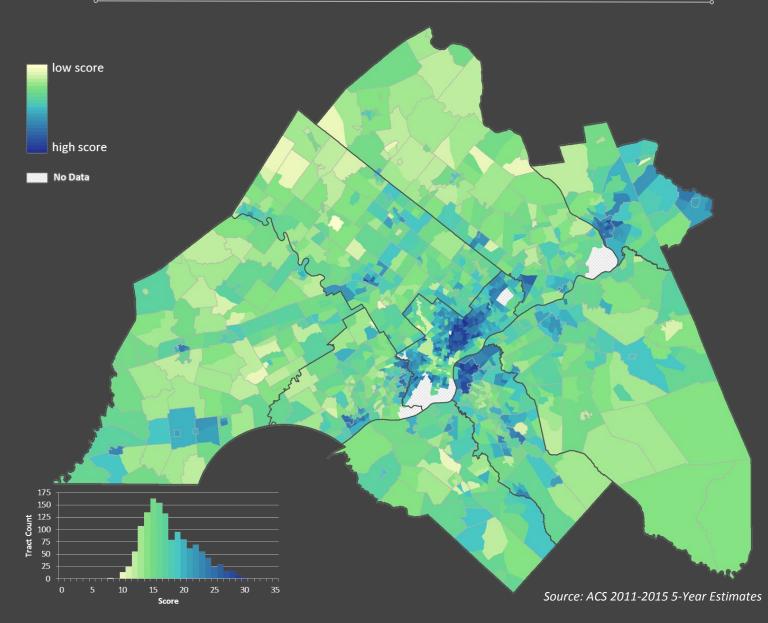


IPD 2.0 METHODOLOGY: BINNING THE DATA



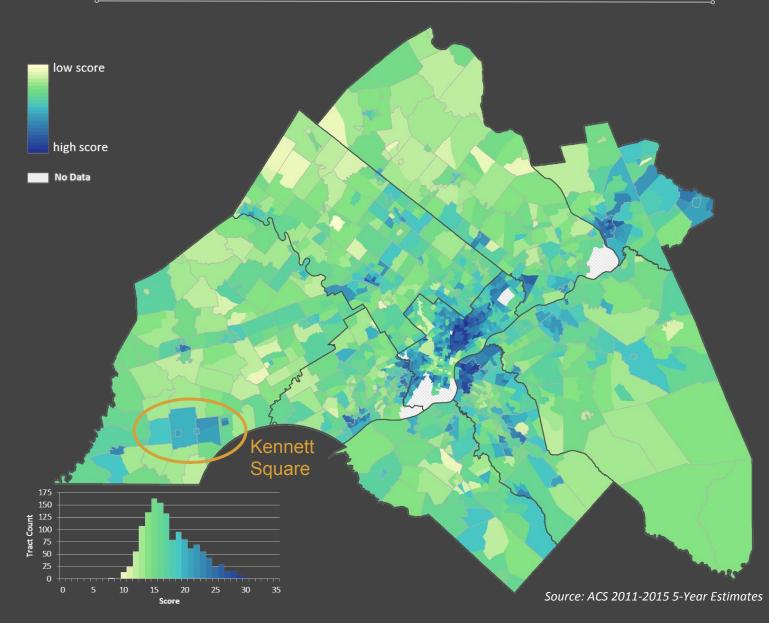
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IPD 2.0 METHODOLOGY: THE END RESULT OF BINNING THE DATA



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IPD 2.0 METHODOLOGY: THE END RESULT OF BINNING THE DATA



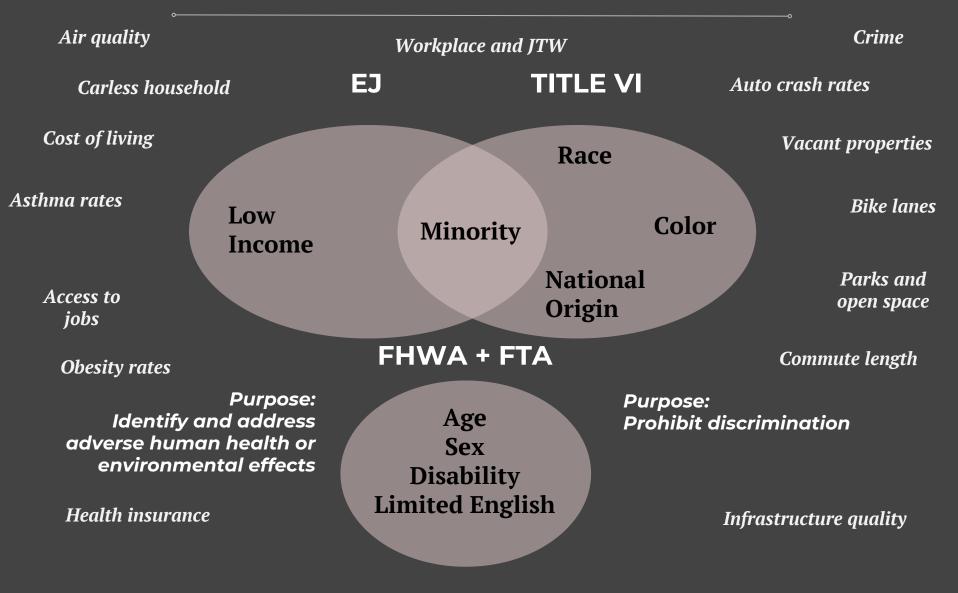


LESSONS LEARNED: BEYOND THE LEGISLATION

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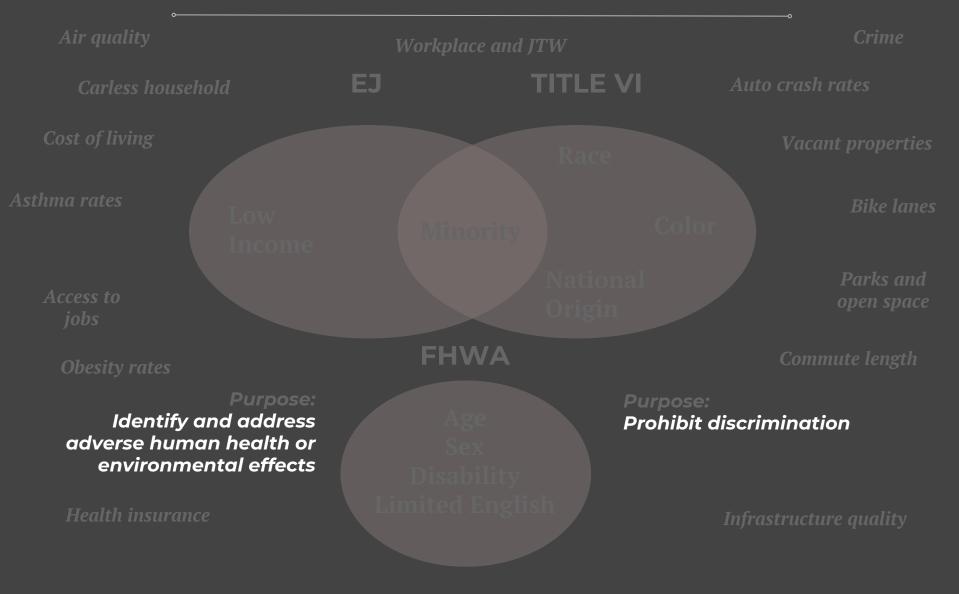
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BEYOND THE LEGISLATION

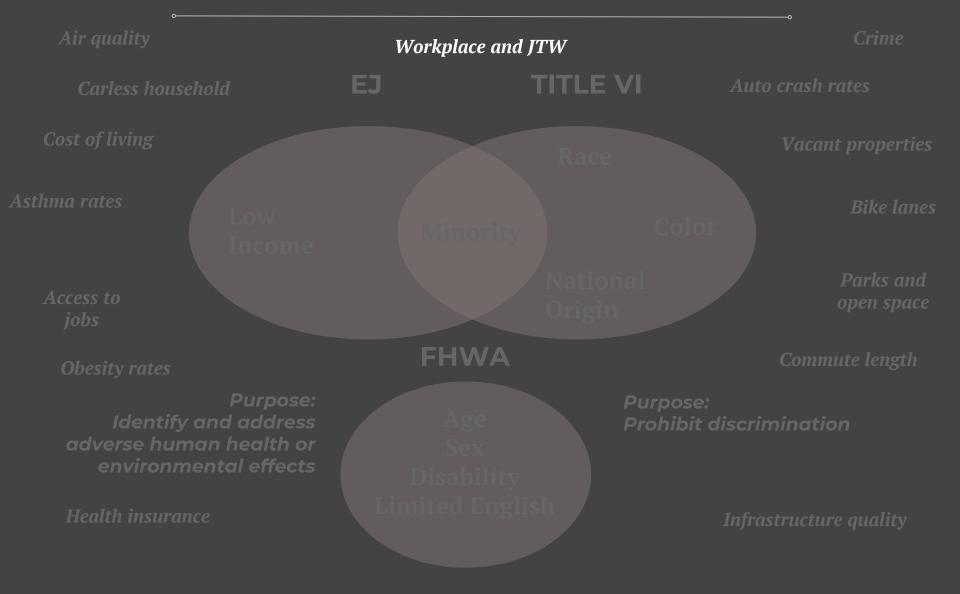


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BEYOND THE LEGISLATION



BEYOND THE LEGISLATION



IPD 2.1 EXPERIMENT #1 GO BEYOND RESIDENCE



CENSUS TRANSPORTATION PLANNING PRODUCTS (CTPP) EXPERIMENTATION

Workplace

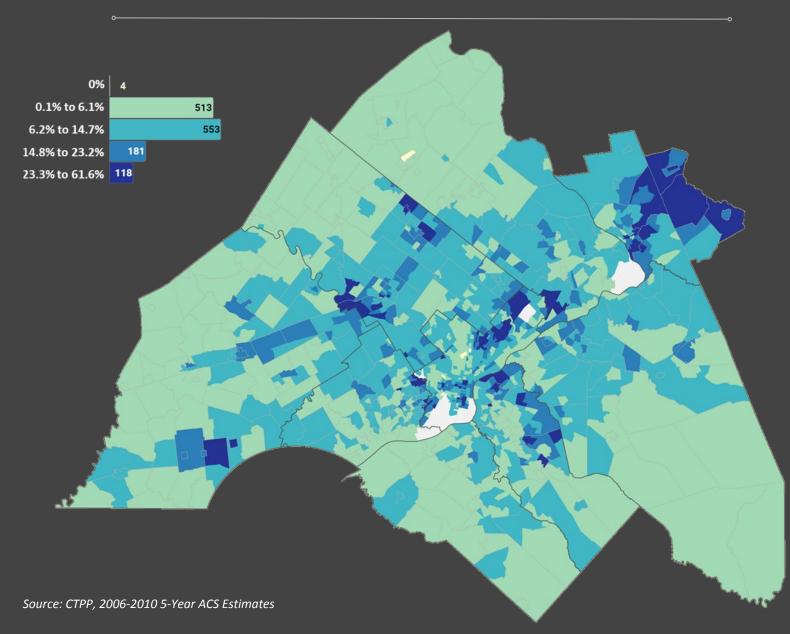
- Minority (Race & Ethnicity)
- Foreign Born
- Limited English Proficiency
- Low Income (150% Poverty Rate)
- Carless Households

Journey-to-Work Flows

- Minority (Race & Ethnicity)
- Low Income (150% Poverty Rate)

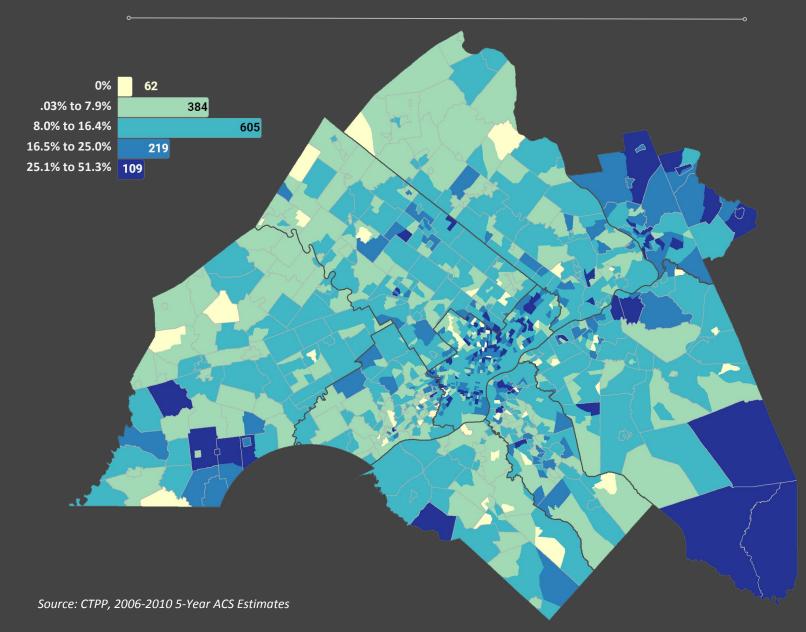
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FOREIGN BORN - RESIDENCE



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FOREIGN BORN - WORKPLACE



THANK YOU!

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BEN GRUSWITZ

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RESOURCES

DVRPC's IPD Interactive Map: www.dvrpc.org/webmaps/IPD/

FHWA Title VI guidance: https://www.fhwa.dot.gov/civilrights/programs/tvi.cfm

FTA EJ guidance:

https://www.transit.dot.gov/regulations-and-guidance/fta-circulars/environmental-justice-policy-guidance-federal-transit

CTPP Data: http://ctpp.transportation.org/Pages/5-Year-Data.aspx

List of CTPP EJ Tables: CTPP Status Report - April 2017 www.fhwa.dot.gov/planning/census_issues/ctpp/status_report/sr0417/index.cfm

EXTRA SLIDES

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INDICATORS AND CENSUS TABLES

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Indicator in IPD analysis update	ACS data table for indicator in IPD analysis	Protected class indicator represents
Youth	S0101: Age and Sex	Age
Older Adults	S0101: Age and Sex	Age
Female	S0101: Age and Sex	Sex
Racial Minority	B02001: Race	Race and Minority
Ethnic Minority	B03002: Hispanic or Latino Origin by Race	Minority and National Origin
Foreign Born	B05012: Nativity in the United States	National Origin
Limited English Proficiency	S1601: Language Spoken at Home	Limited English Proficiency, and National Origin
Disabled	S1810: Disability Characteristics	Disability
Low-Income	S1701: Poverty Status in the Past 12 Months	Low-Income

CTPP EXPERIMENTATION

Workplace

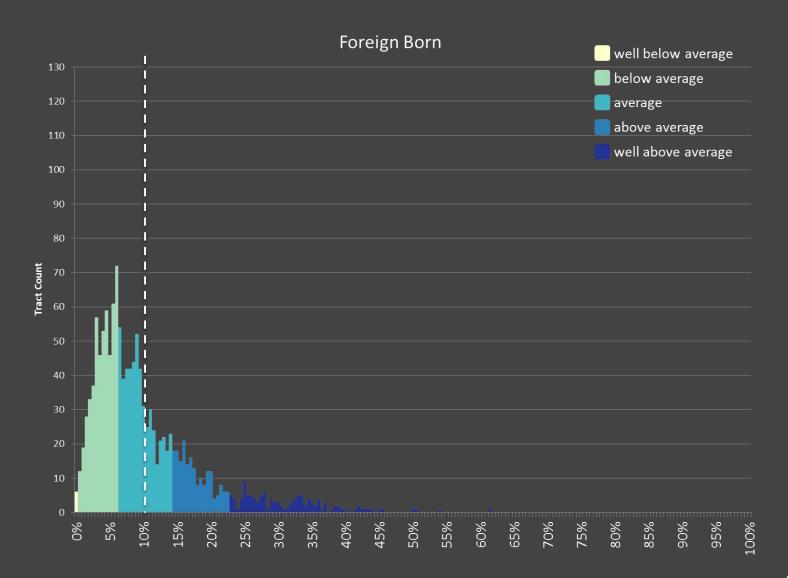
- Minority (Race & Ethnicity)
- Foreign Born
- Limited English Proficiency
- Low Income (150% Poverty Rate)
- Carless Households

Journey-to-Work Flows

- Minority (Race & Ethnicity)
- Low Income (150% Poverty Rate)

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FOREIGN BORN - RESIDENCE

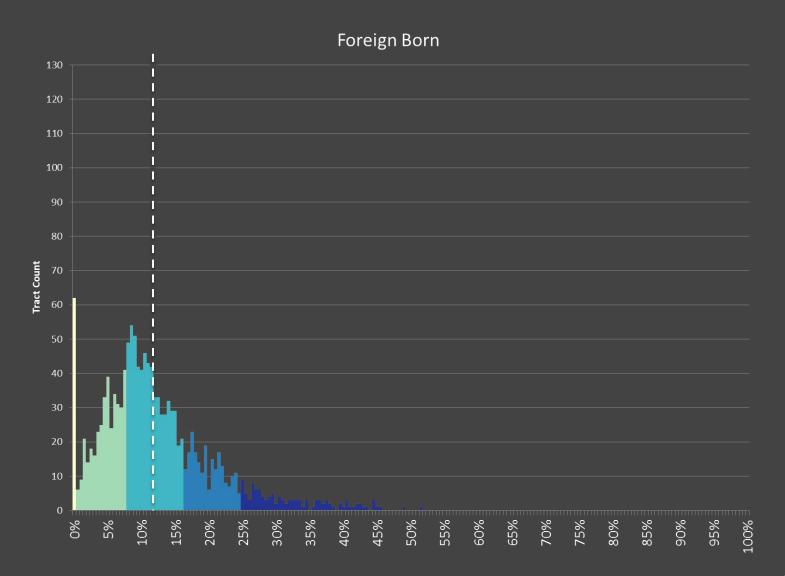


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IPD 2.1 EXPERIMENT #1 GO BEYOND RESIDENCE



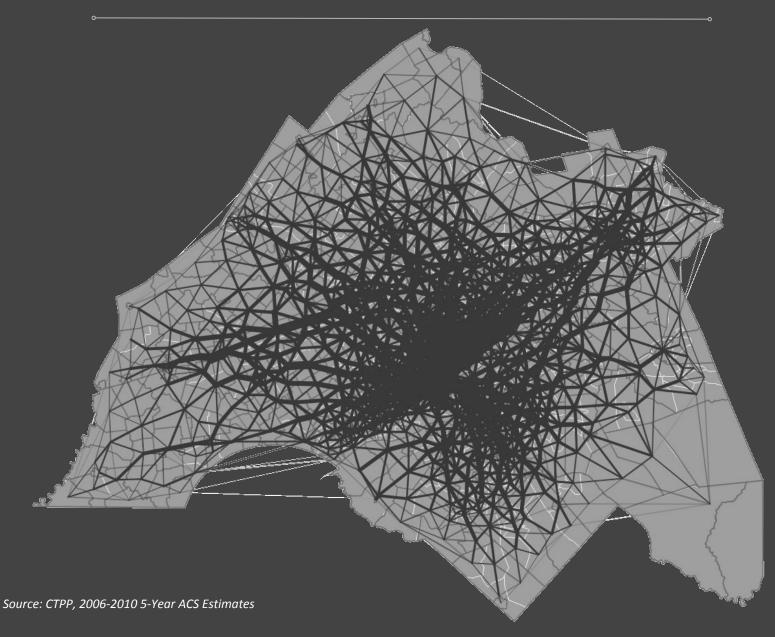
FOREIGN BORN - WORKPLACE



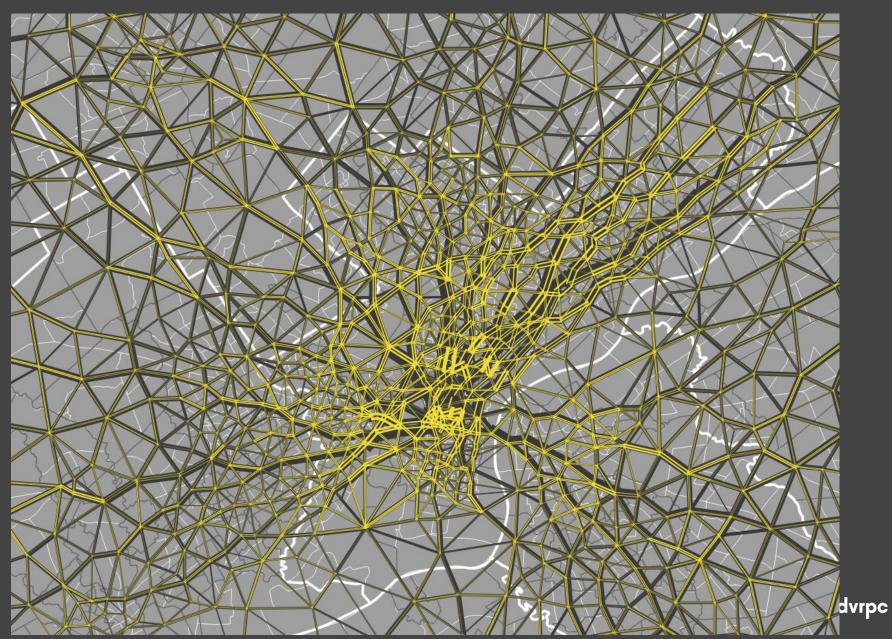
DESIRE LINES - TOTAL FLOW (20+ WORKERS)



DELAUNAY LINES - TOTAL FLOW

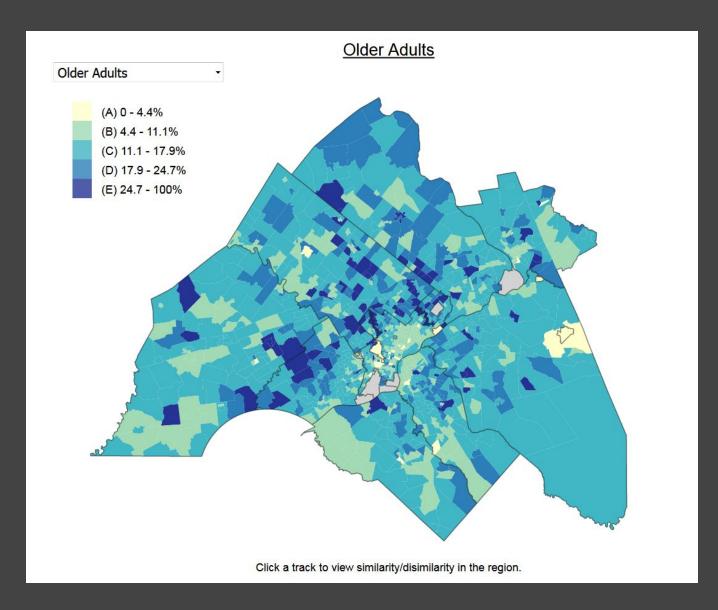


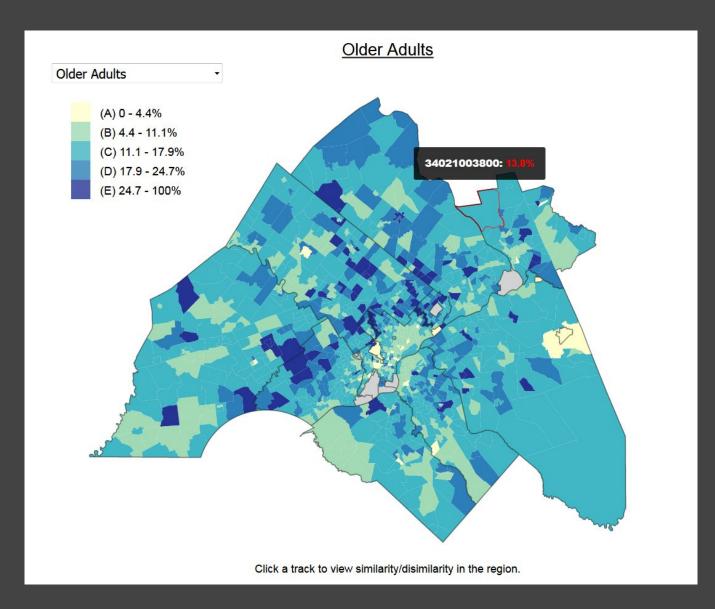
DELAUNAY LINES - LOW INCOME FLOW

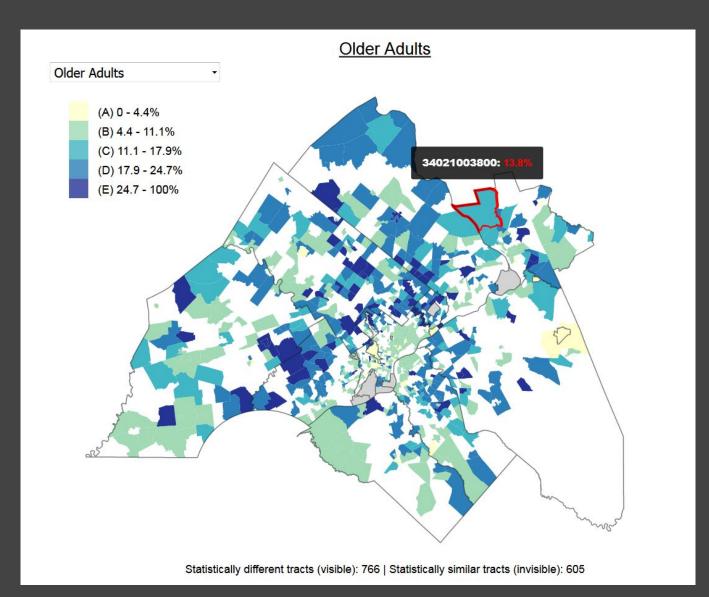


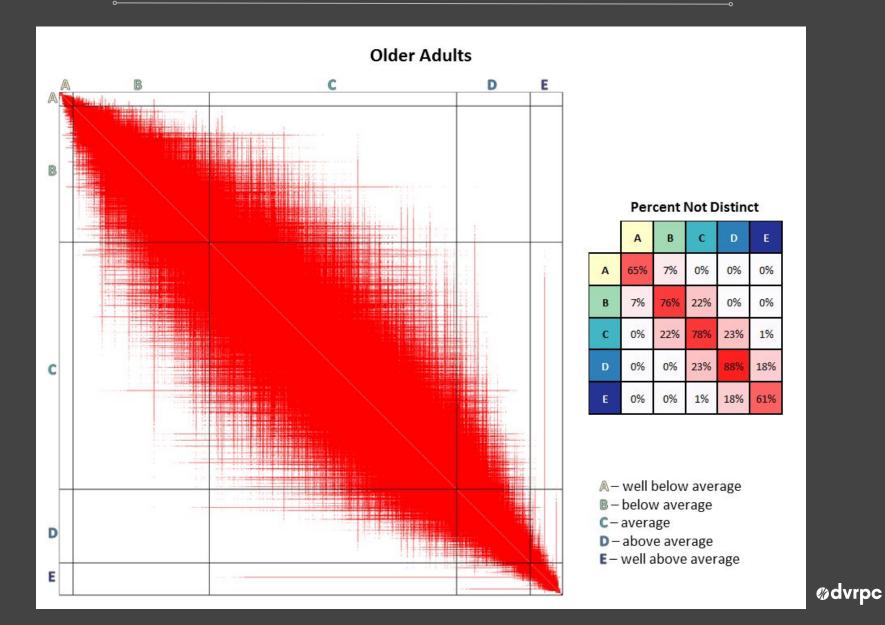
IPD 2.1 EXPERIMENT #2 COMMUNICATE STATISTICAL SIGNIFICANCE

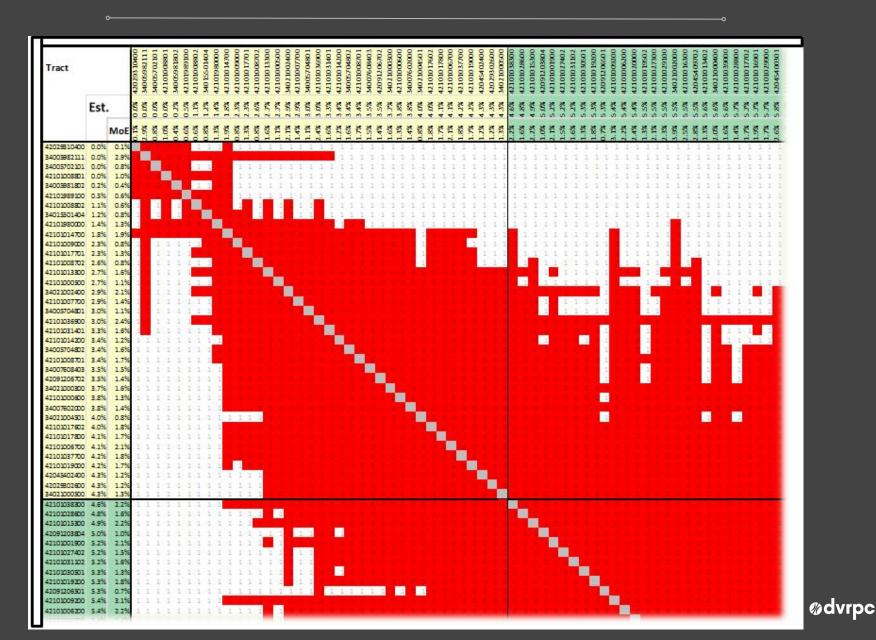














Newtown Pike Extension

Presentation to: AASHTO Environmental Justice Community of Practice Webinar January 30, 2018

David Whitworth, FHWA-KY





Columbus-Belmont State Par

Project Purpose & Need

Kentucky Division Office

- Reduce automobile congestion
- Improve traffic flow
- Vehicle routing to University of KY
- Improve bike/ped. access
- Improve safety
- Improve downtown area



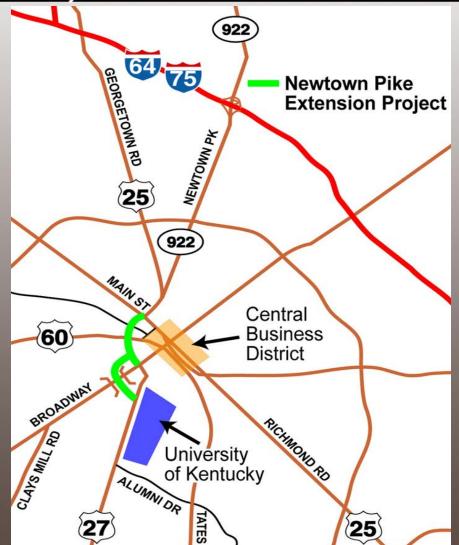
Columbus-Belmont State Par



Project Area

Columbus-Belmont State Park

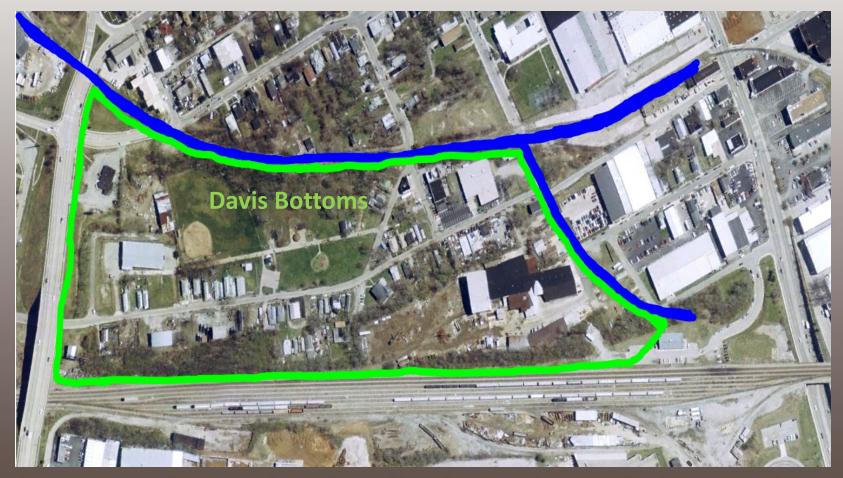
Kentucky Division Office



Davis Bottoms

Columbus-Belmont State Park

Kentucky Division Office



Davis Bottoms (SPUV)

Columbus-Belmont State Park

Kentucky Division Office



Federal Highway Administration

Davis Bottoms

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Kentucky Division Office





EJ Concerns

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- Disproportionate Impact
- Lowest income area of Lexington
- Consisted of Elderly, Handicapped, Minorities, & Low Income
- Community Cohesion
- Lack of Affordable Housing
- Public Involvement & Agency
 Coordination



Guiding Principles

Columbus-Belmont State Park

Kentucky Division Office

GUIDING PRINCIPLES NEWTOWN PIKE EXTENSION AUGUST 12, 2002

The below principles create the foundation for implementing the Newtown Extension Project through a partnership of the Lexington Fayette Urban County Government (LFUCG), University of Kentucky (UK), Federal Highway Administration (FHWA) and Kentucky Transportation Cabinet (KYTC). The Newtown Pike Extension Project is an important local and state transportation need that has the ability to improve the quality of life of all persons using or living within the transportation corridor by:

- Reducing traffic congestion both in the downtown and in neighborhoods within the project corridor by providing alternative routes and lessening traffic diverting through neighborhoods,
- Improving pedestrian safety downtown, along neighborhood streets, and on the north end of the University of Kentucky campus,
- Encouraging greater use of alternative modes of transportation by providing an increase in infrastructure that supports walking, cycling and public transit,
- Recognizing the potential impacts of the proposed Newtown Pike Extension on the surrounding communities through the use of extensive public involvement,
- Mitigating the proposed project impacts through implementation of LFUCG's Small Area Plans,
- Cooperating and committing to actions that address the transportation needs, environmental justice issues, and affordable housing within the low-income neighborhoods of Davistown, Irishtown, and Pralitown while providing compatible development and cultural / aesthetic enhancements,
- Providing an opportunity for redefining and improving the attractiveness of the downtown
- And, accomplishing the above without imposing an unfair burden on other areas.

We concur with these principles for the continuation of the extension of Newtown Pike as signed on August 12, 2002.

Kentucky Transportation Cabinet

ames C. Codell, III

Secretary

Pam Miller, Mayor Lexington-Fayette Urban County Government

Lee T. Todd, Jr., President University of Kentucky

Jose Sepulveda Kentucky Division Administrator Federal Highway Administration

Project Team Obstacles

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- Keeping community together & nearby
- Building trust with community members (Residents and Nathaniel Mission)
- Multiple agency coordination and regulations (HUD, LFUCG, FHWA, and KYTC)
- ROW issues with generations of unknown owners
- Inventing a process to redevelop area
- Extremely difficult phased construction



Major Unique Solutions

Columbus-Belmont State Park

- 1. Developed Community Land Trust (CLT)
- 2. Constructed temporary on-site housing
- 3. Hired neighborhood liaison
- 4. Significant public involvement
- 5. Documented history and stories
- 6. Hired social workers and funded classes



Community Land Trust

- Non-profit membership organization that owns and stewards land for the benefit of the community to preserve the affordability permanently.
- Separates ownership of buildings from ownership of the land.
- Provides land and housing to people who are otherwise denied access and increases long-term community control of neighborhood resources. Preserves permanent affordability of housing.



Built Temporary Housing

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Hired Neighborhood Liaison

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Rapid Assessment Completed

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Extensive Public Involvement

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Social Workers/Classes

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Where Are We Now

Columbus-Belmont State Park

Kentucky Division Office

- Built 14 new affordable units in late 2014 (2 single family, 2 quadplex, 4 duplexes)
- Built 5 single family homes in 2015
- More homes under construction
- Completed road construction

• Rebuild Park Area (4f resources) in 2018-19

Davis Park Envisioned

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Construction Progress

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Finished Homes

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And then there were more

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Federal Highway Administration

Current Area

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Road Construction Cost= \$49 Million

Mitigation Cost=\$49 Million



Awards

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		PUBLIC ROADS This magazine is an archived publication and may contain dated technical, contact, and link information.
	Public Road	s Home Current Issue Past Issues Subscriptions Article Reprints Author's Instructions and Article Submissions Search Public Roads
	Extendit	ahway Administration > Publications > Publicroads 12marapr Public Roads Publication Number: FHWA-HRT-12-003 Issue No: Vol. 75 No. 5 Date: March/April 2012
EHEI	, Environment, & Realty (HEP) nment Real Estate HEP Events Guidance Publications Glossary Award Kentucky. To acc the Newtown Pike agency finished it congestion and The teams work	Best of The Best: America'S Transportation Awards! by Maggie Perrigo Check out these extraordinary success stories: AASHTO announces its top 2011 honorees for design and delivery of highway innovations. The America's Transportation system, says AASHTO executive Director John Horsley. 'The America's Transportation Awards us to honor and recognize projects that save taxpayers money, offer new and innovative ideas to the industry, and make our commute extension in a very short period. An already tight construction timetable had to be amended to include unanticipated work. Even so, the expression in a very short period. An already tight construction timetable had to be amended to include unanticipated work. Even so, the more pedestrian- and bicycle-friendly area.
ward Categories	$FHWA \rightarrow Environment \rightarrow EHEI \rightarrow Awards \rightarrow 2008$	
ward Criteria		
nnual Award Recipients	EHEI Award: Enhancing Environment for Human Activities	
2012	Preserving Affordable Housing	
2011	Preserving Anordable Housing	
2010	Kentucky	
2009	The transportation planning process for the Newtown Pike Extension in Lexington,	
2008	Kentucky, incorporated a Community Land Trust (CLT) to preserve affordable housing and community cohesion in the Davistown neighborhood.	
2007	Since the 1960s, local and Federal transportation authorities discussed extending the Newtown Pike from L-64 into downtown Lexington. The original plans for the extension	

Articles & Press

Columbus-Belmont State Park

O U.S. Dep Federa	ortment of fransportation al Highway Administration About Programs Resources Briefing Room Conta	tt Search FHWA 👕 🔠 🗾 📭 ji		
	Planning, Environment, & Realty (HEP)			
Planning	Environment Real Estate HEP Events Guidance Publications	Search Research & Technology		
Env	vironmental Justice	PUBLIC ROADS This magazine is an archived publication and may contain dated technical, contact, and link information.		
History	$FHWA \rightarrow Environment \rightarrow Environmental Justice \rightarrow Resources \rightarrow Case Studies$	Public Roads Home Current Issue Past Issues Subscriptions Article Reprints Author's Instructions and Article Submissions Search Public Roads		
Legislation		Eederal Highway Administration > Publications > Publicroads 16marapr Public Roads Publication Number: FHWA-HRT-16-003		
EJ, Title VI	Preserving community Conesion Through Southend	I Pa Issue No: Vol. 79 No. 5 Date: March/April 2016		
EJ at DOT	Neighborhood Redevelopment			
EJ at FHWA	Newtown Pike extension Project, Lexington, Kentucky	Frances The New New Police The New New Police Transportation		
Case Studi	es	ARTICLES Environmental Justice: The New Normal for Transportation		
Training		Editor's Notes by Brenda C. Kragh, Carolyn Nelson, and Candace Groudine		
Resources	Lange Martin Contraction of the	Along the Road FHWA underscores the importance of EJ within the decisionmaking process.		
Key Refere	nces	Internet Watch		
Publication	s	Communication Product Updates		
Related Lin	iks	Training Update		
🕑 US. Deportment de Transportation About Programs Resources Briefing Room Contact Search FHWA 🕤 🖲 💆 💽				
Office of Planning, Environment, & Realty (HEP)				
Planning Environment Real Estate HEP Events Guidance Publications Glossary Awards Contact				
🔺 ivability	y Initiative			
		Kentucky Incorporates Environmental Justice		
Fact Sheets	FHWA → Livability → Resources	The Commonwealth of Kentucky, through the Kentucky Transportation Cabinet (KYTC), has developed an environmental policy that could serve as a benchmark for future projects and mitigation efforts nationwide. The Newtown Pike Extension project, tocated in Lexington, KY, in Fayette County, is an example of implementing that policy. The project is a new 2.4-kilometer (15-mile) boulevard concerning West Man Street at Newtown Pike and South Limestore Sheret al South Service (15-arc) heighborhood redevelopment to mitigate environmental justice		
Case Studies	The Road that Rebuilt a Neighborhood	impacts. The Newtown Pike Extension has been part of Lexington's planning as far back as the late 1930s. Previous attempts were opposed because they did not adequately address impacts to the		
Livability Newsletter		The revention in the control to c		
Human Environment	The Newtown Pike Extension Project			
Digest	Enhancing Quality of Life for the Davis Park Community in Lexington, Kentucky			
Livability Resources	Watch the 9 minute https://youtu.be/B4ke-i5P6yY or 30 minute https://youtu.be/zGAbX_rFR5Y video o	Paraterian Narra I Bana comp		
Livability Tools Livability Webinars	Newtown Pike Extension Project.			
Livability Videos	The videos show how effective transportation planning, project development, and design preserved and enhanced the quality of life in the Davis Park Community. The project illustrates the effective implement			
Community Impact	of the community impact assessment (CIA) process; collaboration among federal, state, and local agenc working with affected communities to understand their needs; the use of a Community Land Trust; and			
Assessment	creative integration of quality of life considerations in transportation projects.			
Sustainable Communities Partnership	Also available as Adobe PDF a (4 MB)			
Related Links	PDF files can be viewed with the Acrobat® Reader®	Virginia Goodway, Burdtack. Goostitants, LLC		
rederal Highway A	onninstration	Eugene Cleckley, director of FHWA's Resource Center- Atlanta, addresses the importance of the guiding principles		
		document for Kentucky's Newtown Pike Extension project.		

Links

Kentucky Division Office

http://www.fhwa.dot.gov/livability/resources/newtown_pike/index.cfm https://www.fhwa.dot.gov/environment/environmental_justice/resources/ej_and_nepa/cas e_studies/case08.cfm http://www.fhwa.dot.gov/publications/publicroads/16marapr/02.cfm http://www.fhwa.dot.gov/environment/environmental_justice/publications/reference_guid e_2015/section13.cfm https://www.youtube.com/watch?v=zGAbX_rFR5Y&feature=youtu.be http://www.fhwa.dot.gov/environment/ehei/awards/2008/kentucky.cfm http://www.fhwa.dot.gov/publications/publicroads/12marapr/03.cfm http://www.fhwa.dot.gov/livability/newsletter/october_2014/ http://www.fhwa.dot.gov/livability/cia/index.cfm http://www.fhwa.dot.gov/publications/publicroads/04mar/06.cfm



Contacts

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Kentucky Division Office -



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Columbus-Belmont State Park

