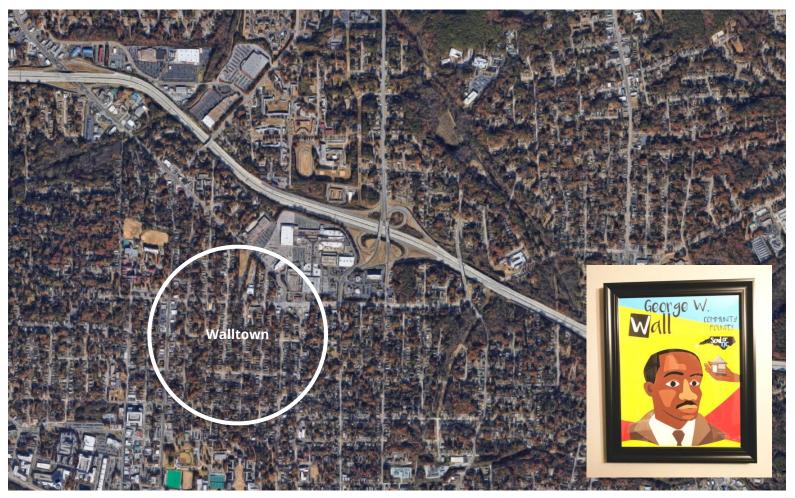
"To begin with words and end up with images was a gift."

Virtual advocate design at Durham, North Carolina

LED2 LEAP

Charleston "Dong-Jae" Yi & Yanhua Lu ydongja@ncsu.edu & ylu49@ncsu.edu







2018; Private developer bought the site. 2020; Redevelopment started.

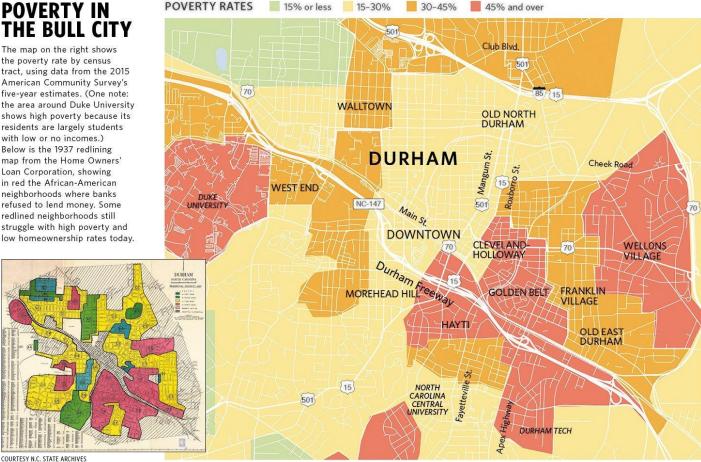
Good News? or Bad News?



Mr. Wall's house and its across-the street neighbor, 2021.

POVERTY IN THE BULL CITY

The map on the right shows the poverty rate by census tract, using data from the 2015 American Community Survey's five-year estimates. (One note: the area around Duke University shows high poverty because its residents are largely students with low or no incomes.) Below is the 1937 redlining map from the Home Owners' Loan Corporation, showing in red the African-American neighborhoods where banks refused to lend money. Some redlined neighborhoods still struggle with high poverty and low homeownership rates today.

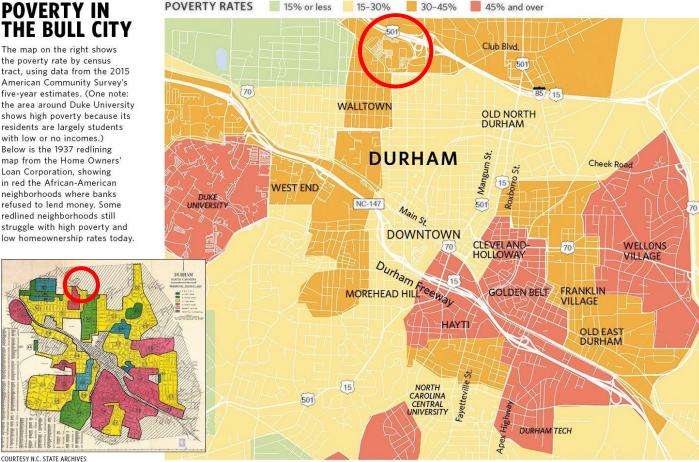


© 2017 MAPS FOR NEWS, HERE

SOURCE: U.S. CENSUS BUREAU, GRAPHIC BY SHAN STUMPF

POVERTY IN THE BULL CITY

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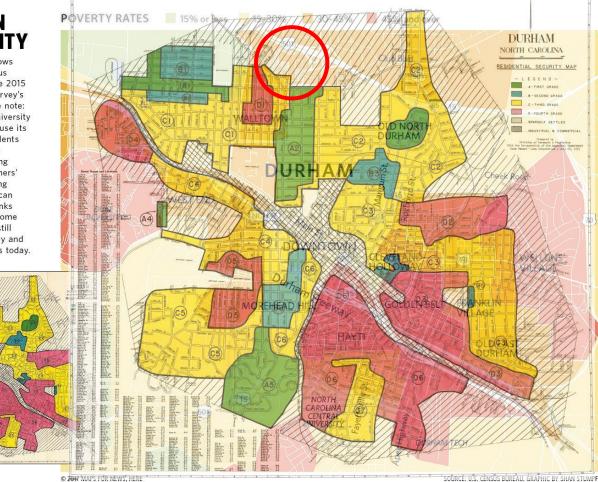
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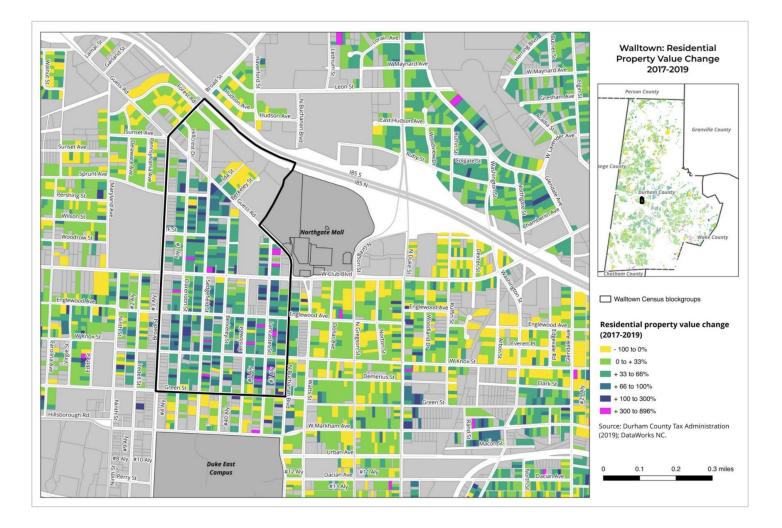
SOURCE: U.S. CENSUS BUREAU, GRAPHIC BY SHAN STUMPF

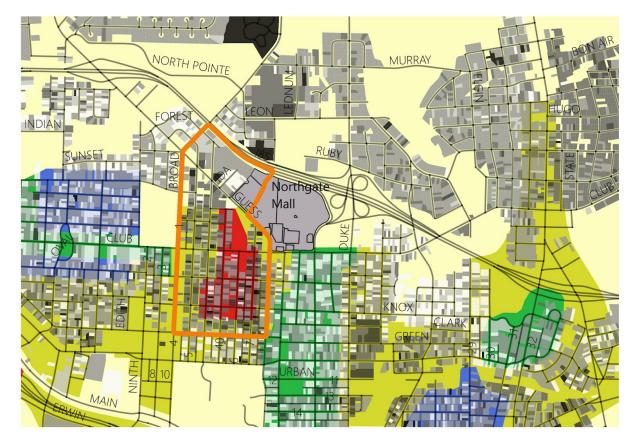
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COURTESY N.C. STATE ARCHIVES

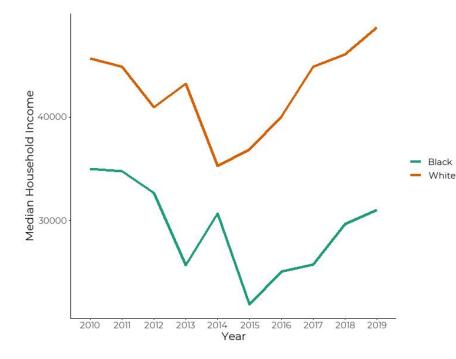






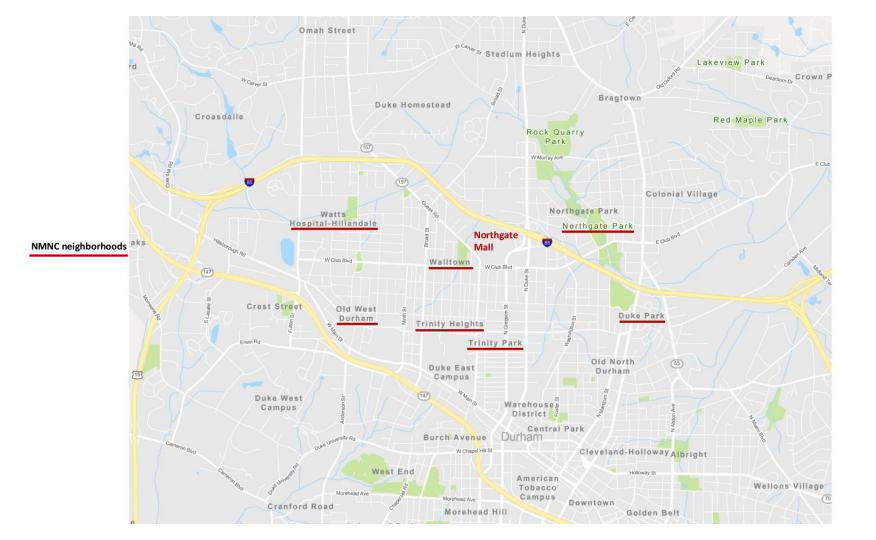


Residential Tax Change 2017-19 -100 - 0% 0 - 15% 15 - 50% 50 - 100% 100 - 300% 300% + HOLC Described Areas, 1937 A "Best" B "Still Desirable" C "Definitely Declining" D "Hazardous"



Median Sale Prices of Single-Family Homes in Walltown

2000: \$50,000 2010: \$114,000 **2019: \$261,500**







Magazine & Bulls of Durham

ENGAGEMENT PROCESS

From Jan-May 2020, Northwood and Engage + Create have led an outreach effort to: 1. Inform people about the Northgate redevelopment 2. Gather feedback that will be used to inform the development plan 3. Ensure that those impacted the most are able to give input based on Durham's Equitable Community Engagement Blueprint

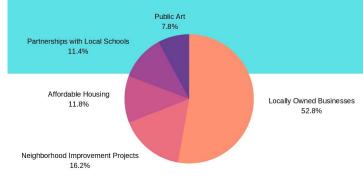
COMMUNITY IMPACT

COMMUNITY RECOMMENDATIONS

SURVEY RESULTS

96% NORTHGATE REDEVELOPMENT HAS A POSITIVE IMPACT

How would you like to see Northgate & Northwood continue to support the surrounding community?



612 ^g

COMPLETED SURVEYS



The most common recommendation captured from the survey that was not a pre-populated choice.

What is your First Choice for the redevelopment? Office Space Performance Spaces 2.3% 4.2% Entertainment 33.3%

15.2%

16.7%

Food & Beverage

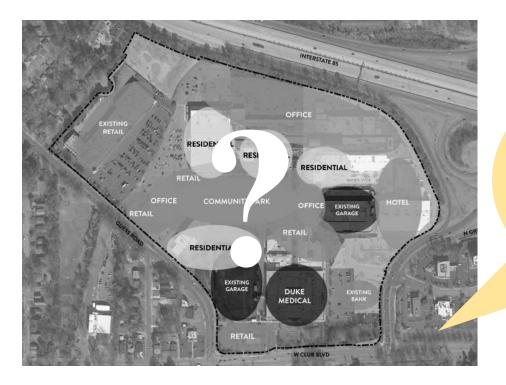
Grocery Store 22.7%

- 1. Establish a significant portion (at least 30%) of **AFFORDABLE HOUSING UNITS** in the property's housing plan providing first right of purchase and rental to low-income Walltown residents.
- 2. Create space for **AFFORDABLE RETAIL**, including a cooperative grocery store (opportunity for community ownership), so that residents can have nearby access to healthy food and other items needed for work, school, and home.
- Design and enhance the built environment with consideration for PEDESTRIAN SAFETY, ENVIRONMENTAL SUSTAINABILITY, and ACCESSIBILITY for seniors, families with children, people with disabilities, and people of diverse socioeconomic backgrounds.
- 4. Foster **COMMUNITY GATHERING** and **CULTURAL ENRICHMENT** spaces, such as, the Durham Arts Council clay studio, a satellite library branch, and an interactive Walltown history exhibit.
- 5. Develop a section of the property as a **TRANSPORTATION HUB** for uses and bike riders, including a Park-and-Ride serving nearby universities, hospitals, and downtown Durham.
- 6. Provide space for a **COMMUNITY ADVOCACY RESOURCE CENTER**, which can serve as a hub for neighborhood residents about city and county services, access to homeownership and renters' rights, and other information based on the interests and needs of the community.

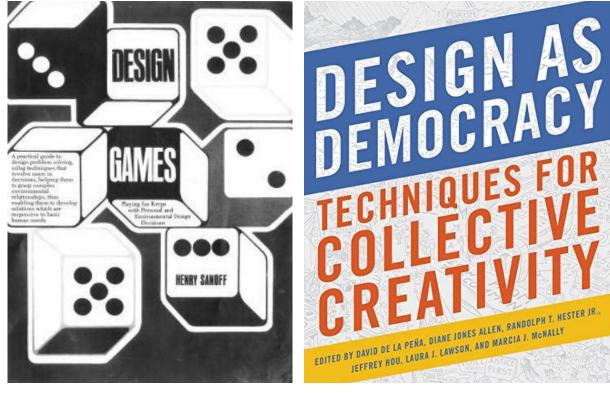




Private Developer's Bubble Map



Communities' Six Visions?



"[Design game] is an approach to problem solving that engages a real life situation compressed in time so that the essential characteristics of the problem are open to examination."

Henry Sanoff, 1978



Engagement Event Preparation

- 1. Identifying goals and formulation of focus group.
- 2. Meeting with a focus group including community representatives to affirm/revise goals.
- 3. Developing workshop process/protocol and interactive tools.
- 4. Training participants via mini-webinar.
- 5. Conducting walk through on the site including focus group members.
- Assigning *Design Games* to the participants. Game #1: What are your top priorities? Game #2: Where are your top priorities? Game #3: Where should "____" go?
- 7. Having live-sketch and discussion sessions
- 8. Analysis of data and interpretation of combined results of participants inputs.

Charrette Day 1

- 1. Introducing results of Game #1, 2.
- 2. Presentations by each participant introducing composite plan. Focus group discussions.
- 3. Introducing areas of commonality and differences in site plans.

Charrette Day 2

- 1. Presentations by resource members (representatives from the city etc.).
- 2. Identification of top 3 priorities by focus group members. Creation of spatial visuals by the design team.
- 3. Open discussions and reflections.





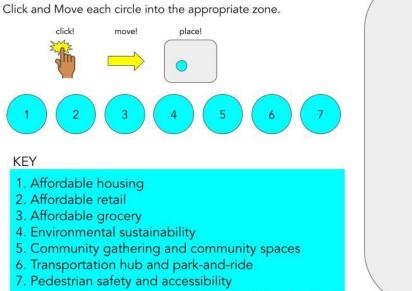


Game #1

WHAT ARE YOUR TOP PRIORITIES?

INSTRUCTIONS:

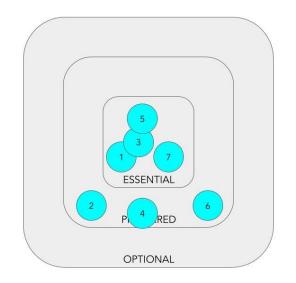




SOURCE: Neighborhood Council Goals



Game #1 Community Inputs



Top Priorities for Participants

Affordable Housing 10 Affordable Retail 6 Affordable Grocery Environmental Sustainability Community Gathering & Community Spaces 6 1 Transportation Hub & Park-and-Ride (5 Pedestrian Safety & Accessibility 6 Λ 12 0 2 8 10 4 6

Number of Participants: 10

■ Essential ■ Preferred ■ Optional

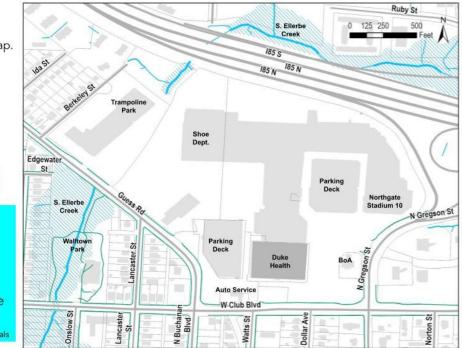
Game #2

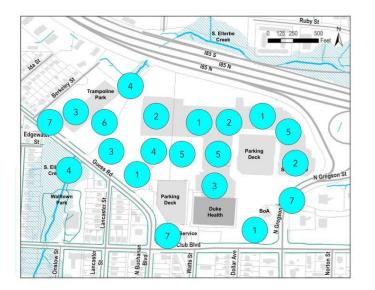
WHERE ARE YOUR TOP PRIORITIES? INSTRUCTIONS:

Click and Move each circle to a place on the map.







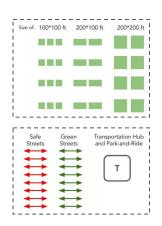


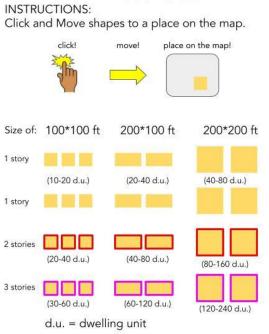


Game #2 Community Inputs

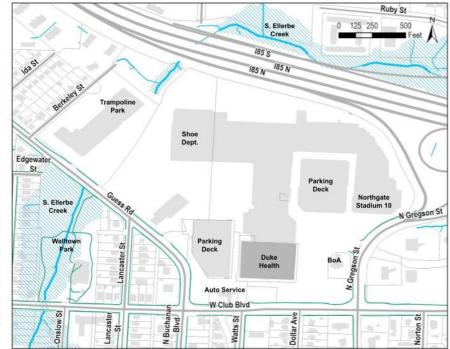
Game #3

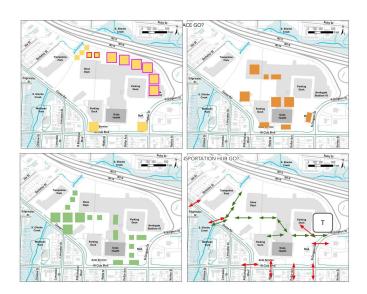
Google Slides

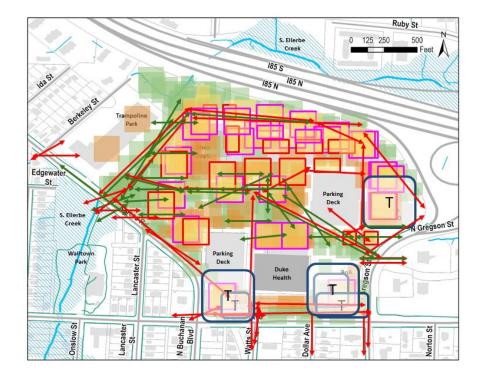




WHERE SHOULD HOUSING GO?



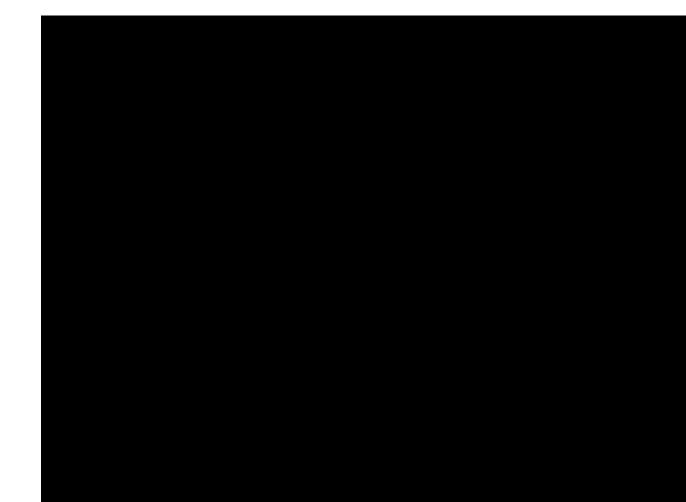




Game #3 Community Inputs

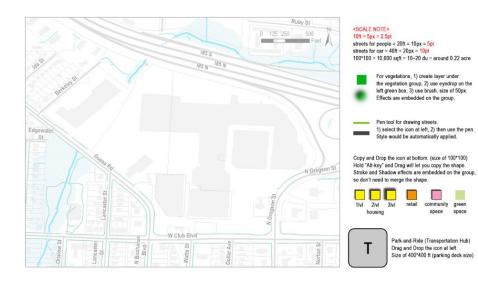


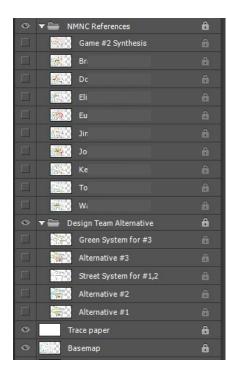


















NMNC Alternative #1



NMNC Alternative #3



Description

Creates a lot of housing but with no explicit spatial strategy for how to accomplish 30% affordable at Walltown AMI.

 Extends significant green space/corridor from the center of the site all the way to Guess Road to make a strong, gateway connection to Walkown, and to create a public amenity.

- Anchors the green with two large green spaces: one on Guess Road and one in the center of the site Provides each housing cluster with a nearby green amenity.
- Provides each notising cluster with a nearby green amenity.
 Reuses the Sears Building for artist space, Durham Tech satellite campus, and additional uses.

Calls for a community space on Guess Road.

Provides two transit stops: one off Gregson, one at the corner of Club and Guess. Creates a perimeter walking trail.

tey
Housing
Housing
Retail
Community space
Com

Description

 The parcel in the northwest corner (with "Randy's Pizza building") is sold to an affordable housing developer. Then it is redeveloped with affordable housing over ground-floor affordable retail and community space.

Recrients primary green space north-south to maximize the value as amenity for retail over housing.

 Creates street circulation in keeping with nearby neighborhood street grid, with green commons at street intersections, distributing

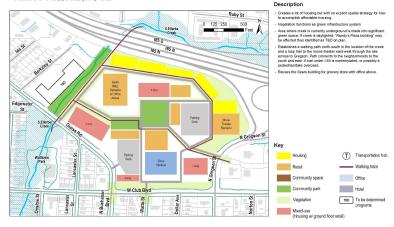
green space along a north-south east-west axes. Places mixed-use development (retail/housing mix) along interior

streets and around green spaces. Includes additional community space in location of existing Sears

Auto. Provides transit hubs: one inside the site off Gregson, one at the corner of Club and Guess.



NMNC Alternative #2



Northwood Raven Proposal (spatialized)



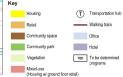
Description

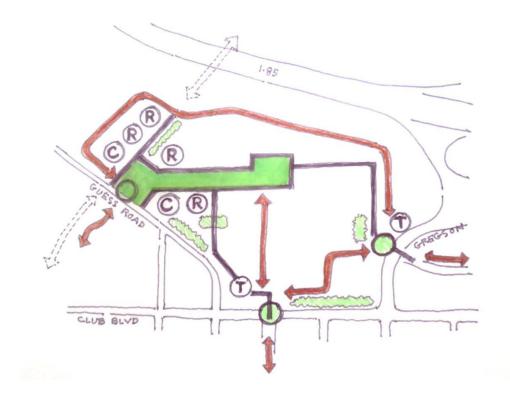
Positive things about the NR proposal

Torrer is a lot of retail, some of which could meet community needs
 Torrer is a significant amount of housing.
 There is a significant amount of housing.

Objections to NR proposal

Concerning to the physics and the second sec





1. Affordable housing is highest priority



- to/from neighborhoods across busy streets
- 4. Walking trail from neighborhoods around periphery of Northgate site
- Safe, direct interior street pattern with street parking for retail and community space
- 6. Affordable retail accessible to neighborhoods
- Dedicated community space for job training, history, arts, etc.



8. Small green buffers



R

C

 Safe and attractive transit stops with weather protection

10. Future green connection to Ellerbe Creek

"To begin with words and end up with images was a gift. It makes you start to think in a different way...to think about different outcomes and opportunities. To be able to understand what developer is thinking. We have new things to think about -- connecting to the park, and the environmental. It has renewed our energy which we need after going at this for almost 2 years."

Brandon Williams, Lead NMNC organizer



Community Outreach

WHAT RESIDENTS WANT TO SEE...

52% said "affordable housing"

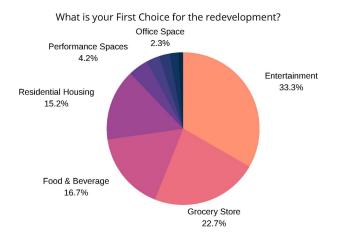
48% said "affordable retail"35% said "safe walking/transportation"34% said "access to healthcare"

WHAT RESIDENTS DON'T WANT TO SEE...
71% said "luxury/expensive housing"
59% said "luxury/expensive retail"
49% said "liquor retail"
45% said "tobacco retail"

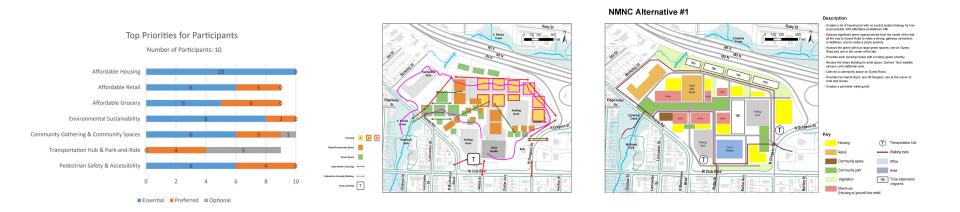




The most common recommendation captured from the survey that was not a pre-populated choice.



Charrette (n = 10)



Top Priorities

Example of a composite plan

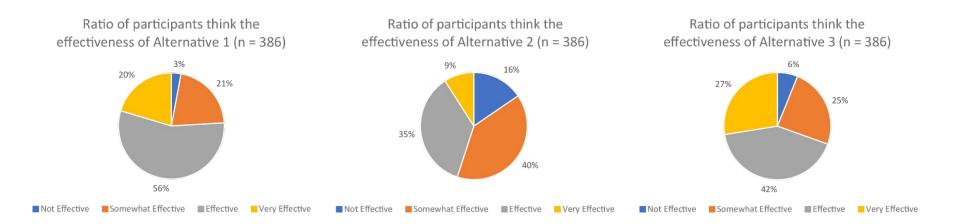
Example of a Design Alternative

Online Survey (n = 386)

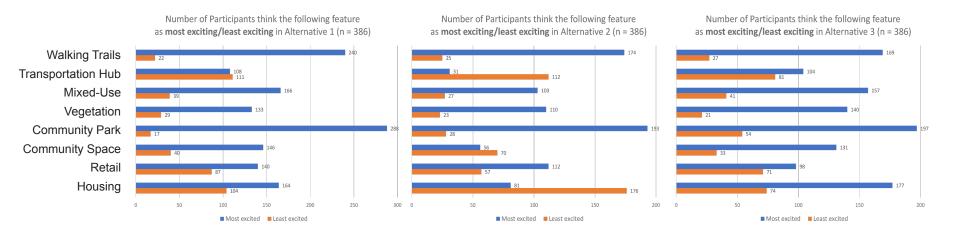
To understand participants' needs, concerns, and desires towards

- Walltown community
- Three design alternatives
- Redevelopment proposal from the developer

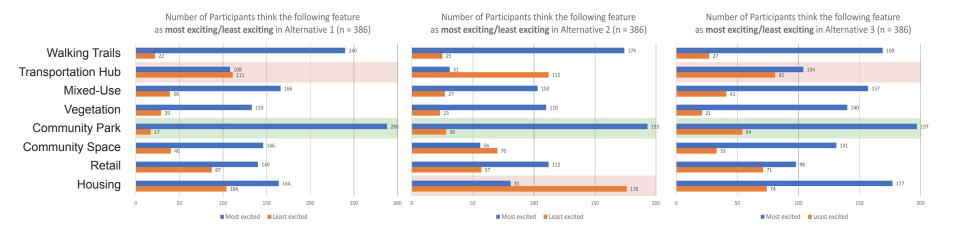
Design Alternatives - Effectiveness



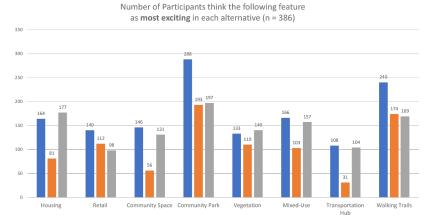
Design Alternatives - Most Exciting/Least Exciting



Design Alternatives - Most Exciting/Least Exciting

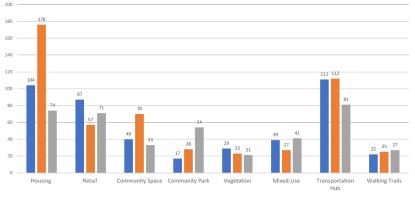


Design Alternatives - Most Exciting/Least Exciting



Alternative 1 Alternative 2 Alternative 3

Number of Participants think the following feature as **least exciting** in each alternative (n = 386)



■ Alternative 1 ■ Alternative 2 ■ Alternative 3

Design Alternatives - Takeaways



TRANSPORTATION Grocery davlighting dominant by retails need com space connection to north COMMUNITY SPACE connection with neighborhood



Alternative #1

1. Communities want open space connecting Neighborhoods.

2. Communities need specific strategy to develop affordable-housing.

3. Communities have two different perspectives on housing layout.

Alternative #2

- 1. Communities dislike housing along the highway.
- 2. Communities want transportation hub and community space.

3. Communities like over/under path along the creek.

Alternative #3

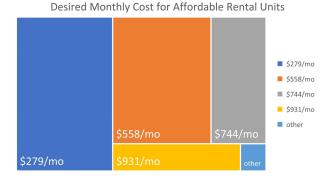
1. Communities mostly like the layout of the plan.

2. Communities appreciate specific

strategy of affordable housing.

3. Communities want some stand-alone retail and grocery.

Affordable Housing



Affordable Housing For Whom?

	DURHAM-CHAPEL HILL - \$90,900 (HUD Area Median Income)		WALLTOWN - \$37,222 (Neighborhood Median Income)	
% of Median Income	Monthly Income	Affordable Monthly Housing Costs	Monthly Income	Affordable Monthly Housing Costs
100%	\$7,575	\$2,273	\$3,102	\$931
80%	\$6,060	\$1,818	\$2,481	\$744
60%	\$4,545	\$1,364	\$1,861	\$558
30%	\$2,273	\$682	\$931	\$279

* HUD AMI cited here rely on ACS 2013-2017 estimates, as do the Durham and Walltown median incomes.

* Affordable here means all housing costs being no more than "30% of monthly income".

* HUD AMI is for a 4-person household.

https://www.huduser.gov/portal/datasets/il/il2020/select_Geography.odn

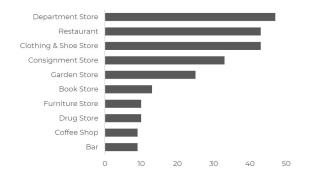
How Much Money Do You Need to Make for Northwood Ravin Apartments to Be Affordable?

Bedrooms	Average listed rent at Northwood properties in Durham*	Annual rent costs	Full-time hourly wage required
0 (studio)	\$1,372.80	\$16,473.60	\$26.40
1	\$1,572.16	\$18,865.89	\$30.23
2	\$1,998.95	\$23,987.35	\$38.44
3	\$2,931.53	\$35,178.40	\$56.38

* Rental listings from DataWorks NC rentscraper, 4/2017 - 11/2020, including Trinity Commons, Van Alen, and Palladian Place. Affordable = 30% of income. Full-time = 40 hrs/week 52 weeks/year.

Affordable Retails & Affordable Groceries

What kind of retail do respondents want?



Which grocery store do they want to see?

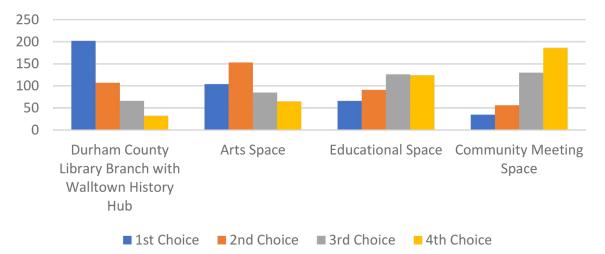


- 31% of respondents ask for locally-owned businesses
- Affordable
- be accessible to the Walltown community

- Affordable and equitably accessible to neighbors of all incomes
- Center "workers"
- Collaborate with the Walltown community

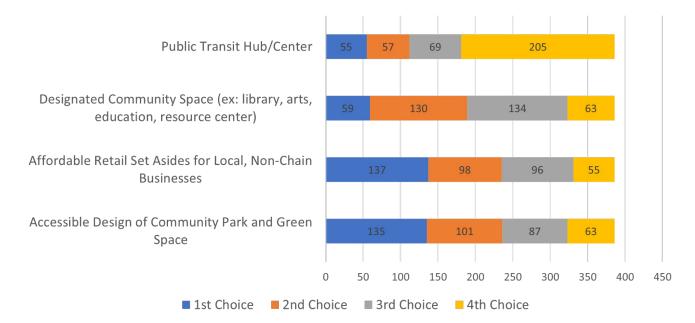
Community Space

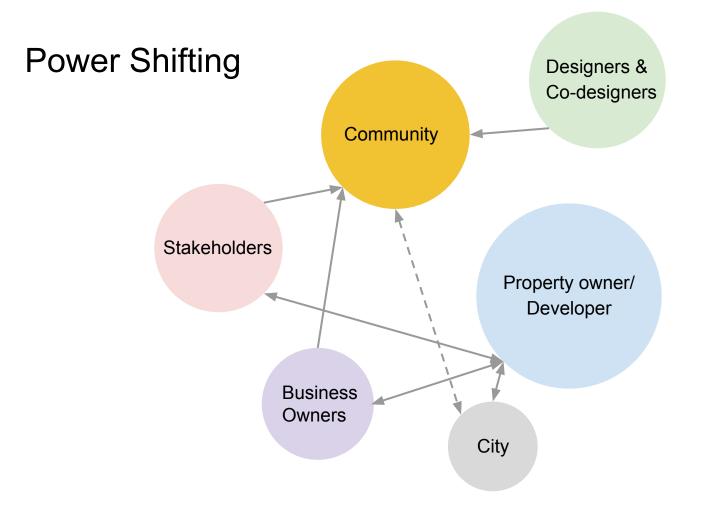
How respondents want to prioritize use of the community space in the Northgate Mall property

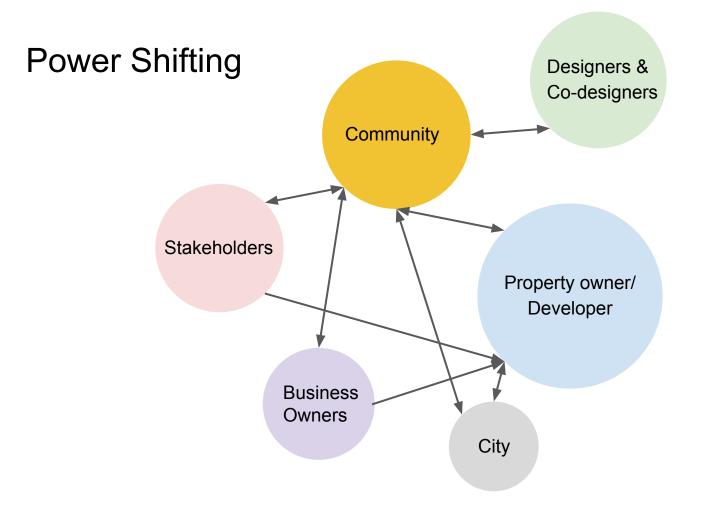


Expectation of Investors' Redevelopment Plan Phase II

The community benefit that participants prioritize in Phase II (n = 386)







"How do you advocate/empower people who are struggling with the dominant paradigm?"

Thank You