



08704114522

POLAROID®3

"THE Living CITY"

JOIN US 12.5.2017

KU Co-op

KU CO-OP 2017

A little bit about who we are

Maximiliano Cantu-Lima

Chicago

Los Angeles, CA

Patrick Griffin

Chicago

Chicago, IL

Emma Riordan

Los Angeles

Frigiliana, Spain

Jacob Albracht

Los Angeles

Omaha, NE

Tanner Hyland

Denver

St. Louis, MO

Simon Davies

Kansas City

Kansas City, MO

Dillon Park

Kansas City

Wichita, KS

Four cities, Three Time-zones, and deeply different cultures.

Los Angeles
13,131,431

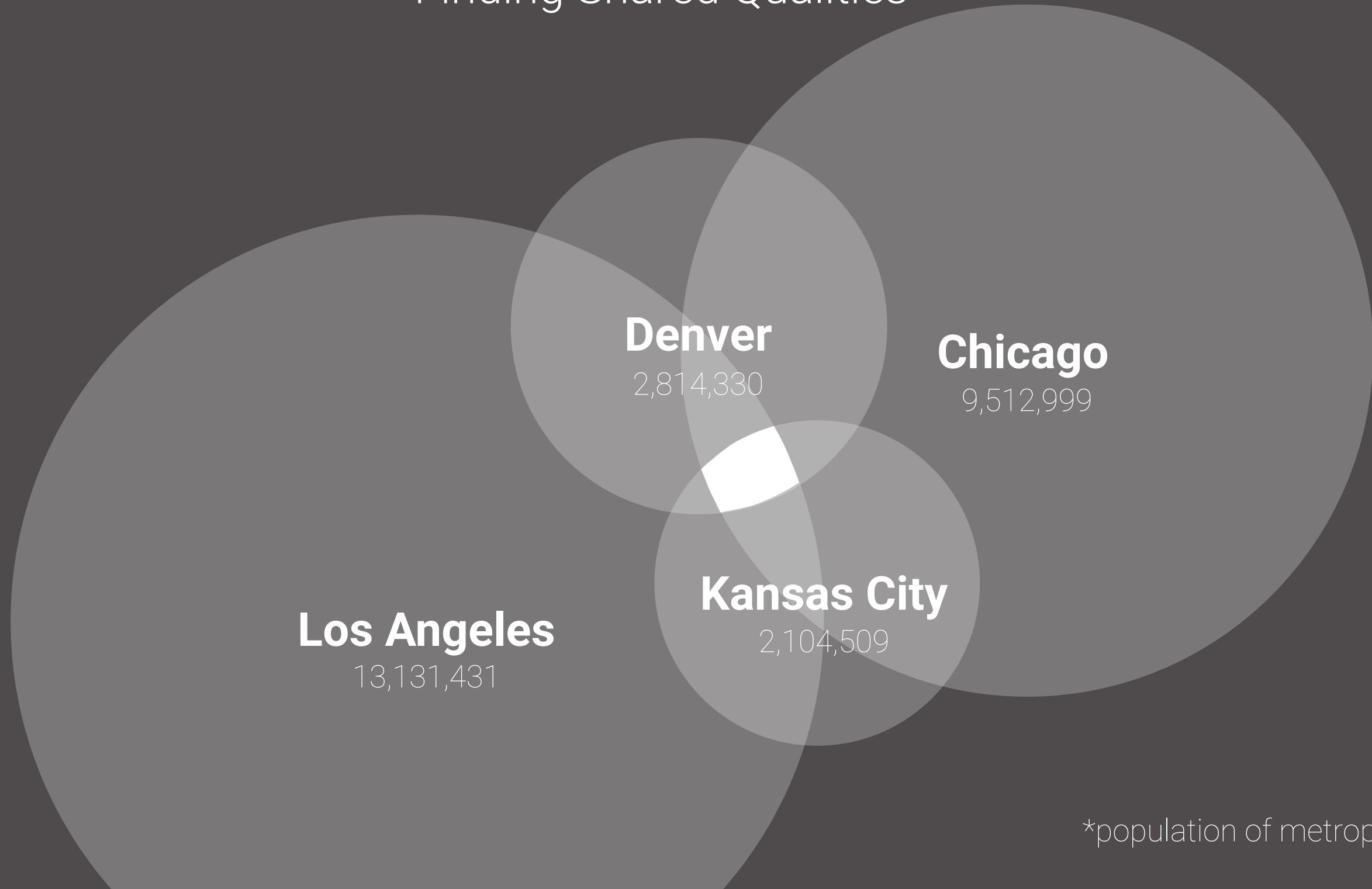
Denver
2,814,330

Kansas City
2,104,509

Chicago
9,512,999

*population of metropolitan area

Finding Shared Qualities



*population of metropolitan area



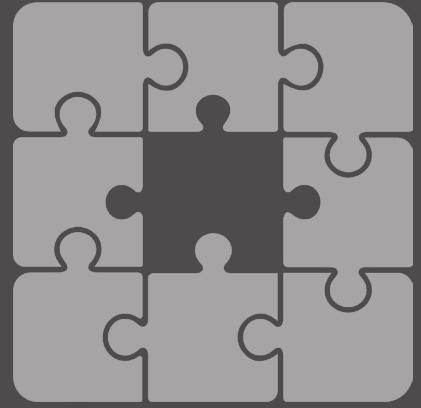
What is a City?

What is a City?

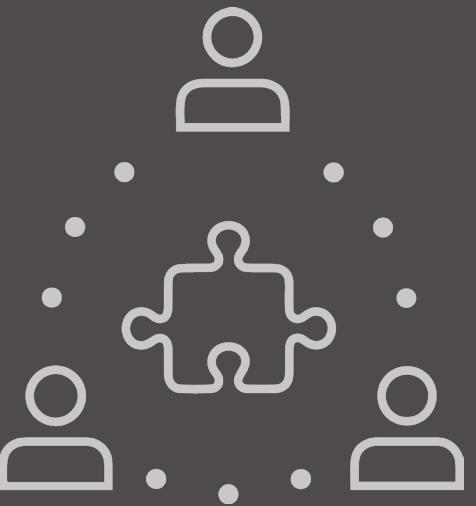
Cities are a physical manifestation of
human interaction and culture.

'Urban Intervention'

The physical act of developing a community or augmenting space to better suit specific needs.



Urban interventions are a contemporary example of organic place-making.



On the micro scale, they are the bleeding edge of a city's growth and change



They are the smallest physical change due to human presence that retains a city's essence.

Instance

Examples of urban interventions that we encountered during our stay



Food Truck

An intervention on wheels, this instance can sprout up around the city freely.



Bike Lanes

Cities are fighting to keep up with the demand for more bike lanes.



Renovated Train Stop

Updating old infrastructure to provide lighting and shelter to the platforms in a cool way.

Context Required

The world is changing, so are our interactions and cultures



Denver

While these can happen anywhere, the real heart of this intervention is created by the character of its location



Kansas City

Not all bike lanes are equal. Some streets require more protection like the cones above.



Chicago

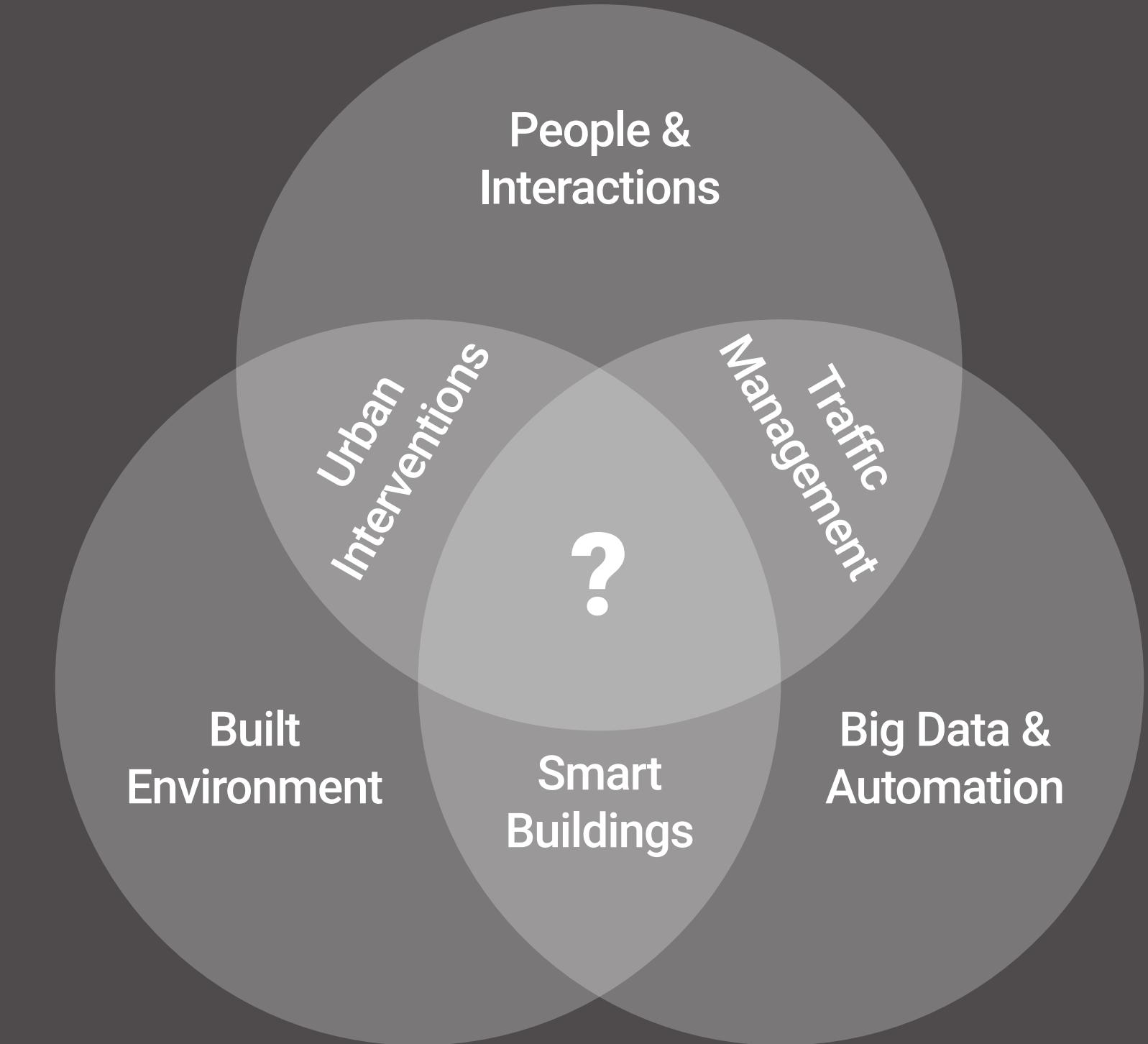
Sheltering platforms shield waiting passengers from the weather. The personality of those structures shifts with its surroundings.

If Urban Interventions are only
relevant given a context, then
context means everything.

A Changing Context

The world is changing, so are our interactions and cultures

- **People & Interactions**
The intangible social and emotional component of human experience
- **Big Data & Automation**
The continual improvement of processing and analytics technologies
- **Built Environment**
Our developed habitat and tools that we use on a daily basis



A vibrant night photograph of a city street, likely in Chicago, featuring a bridge with red and blue streaks of light from moving vehicles. Buildings are lit up with various signs, including "BEE" and "DO NOT ENTER".

The “Living City”

The “Living City”

The point at which a city is alive, adaptive, and responsive to changes in real-time.

How will the advent of a “living city**”
affect the collective process of
developing a community?**

*By studying the rate that several **archetypal urban***

experiences become **technologically integrated** in

cities, we can begin to form a specific picture of

what those cities will look like in the future, and how

the inhabitants will collaborate in the process of

*place-making and **developing a community.***

Archetypes of Urban Context

Commonalities between our cities

How does infrastructure change?



Transportation

How do people meet strangers or friends?



Events & Meeting People

How do people get things they want?



Pursuing Interests

How responsive is the built environment?



Density, Buildings, & Traffic

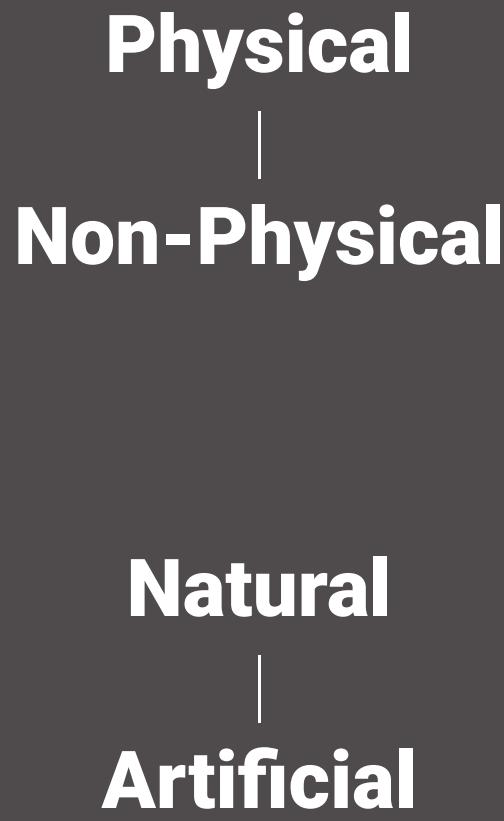
How do local groups organize themselves?



Community & Cultural Space

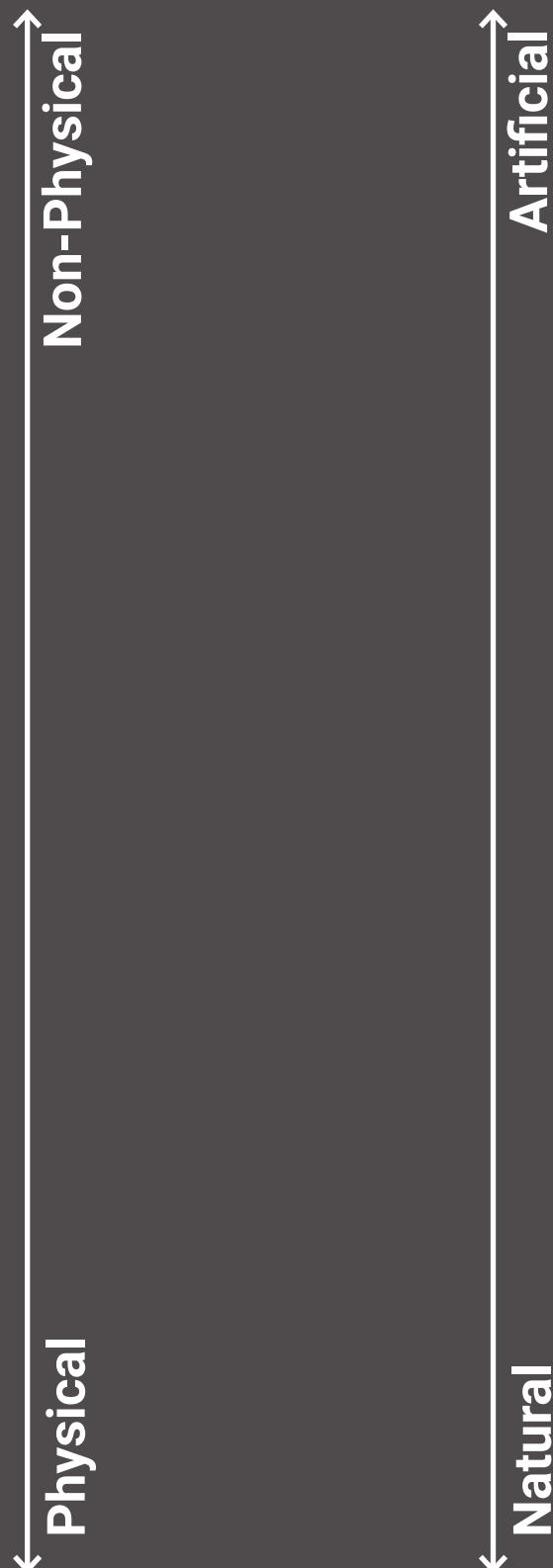
Technological Integration

Separating ‘Technology’ into two types of change



A measure of how “**Data Driven**” or how much the **Digital** era has influenced something. How integrated is something into the Internet-of-Things?

A measure of how **responsive** or **physically adaptive** something is, rather than naturally occurring; the speed with which something can respond.



Technological Integration

Separating ‘Technology’ into two types of change

Physical



Non-Physical

Natural



Artificial

Example Question:

when you needed to go somewhere but didn't have a car, did you call a friend, walk or bike, hail a taxi, take public transit or use an app?

Example Question:

how necessary was it to travel to a specific location to get what you wanted? (goods, information, meetings)

Non-Physical

Physical

Artificial

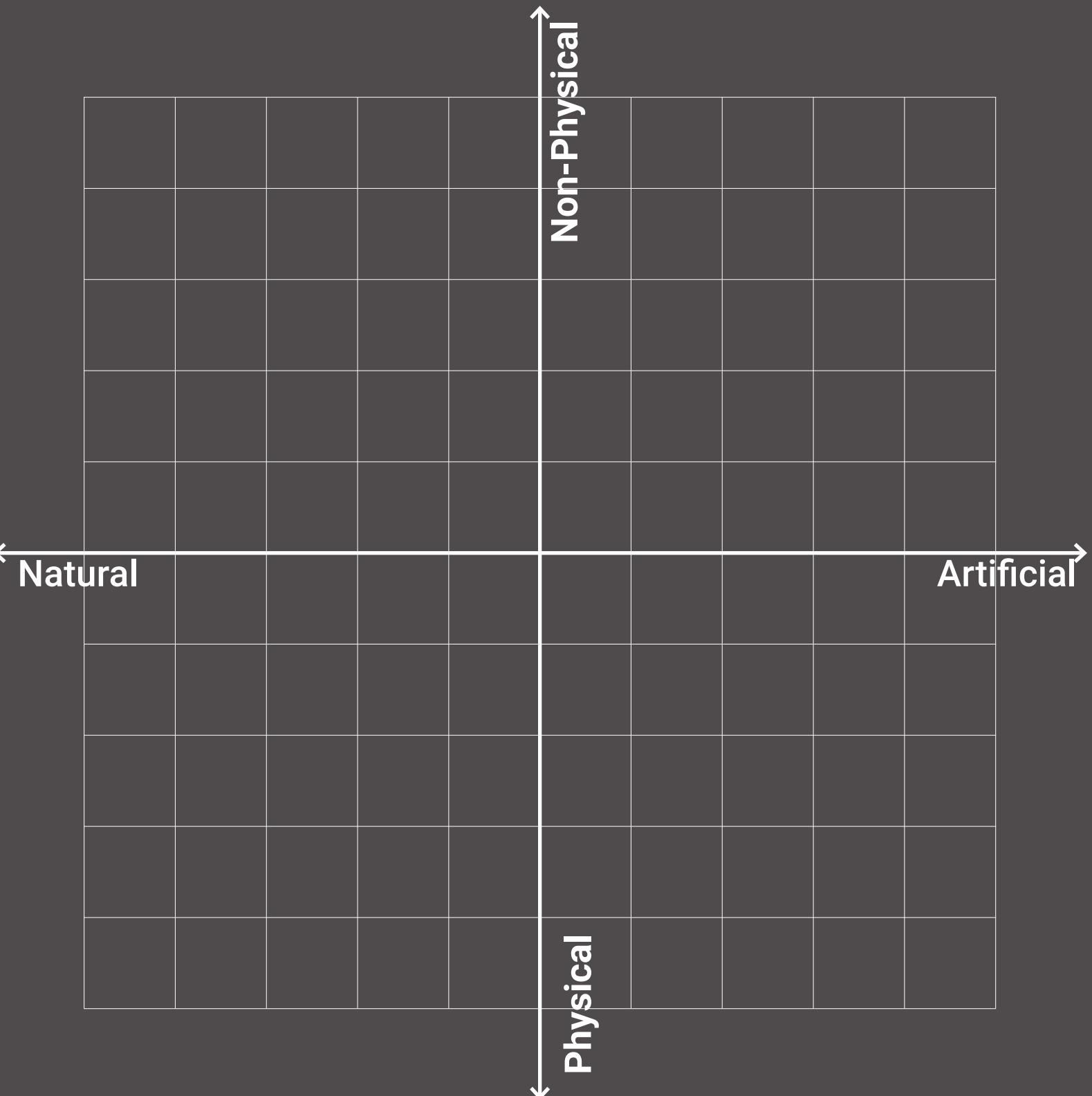
Natural

Mapping Change

Synthesizing Value Relationships

- **Two Axes Form Grid**

Denotes a vector system rather than separate scalar values

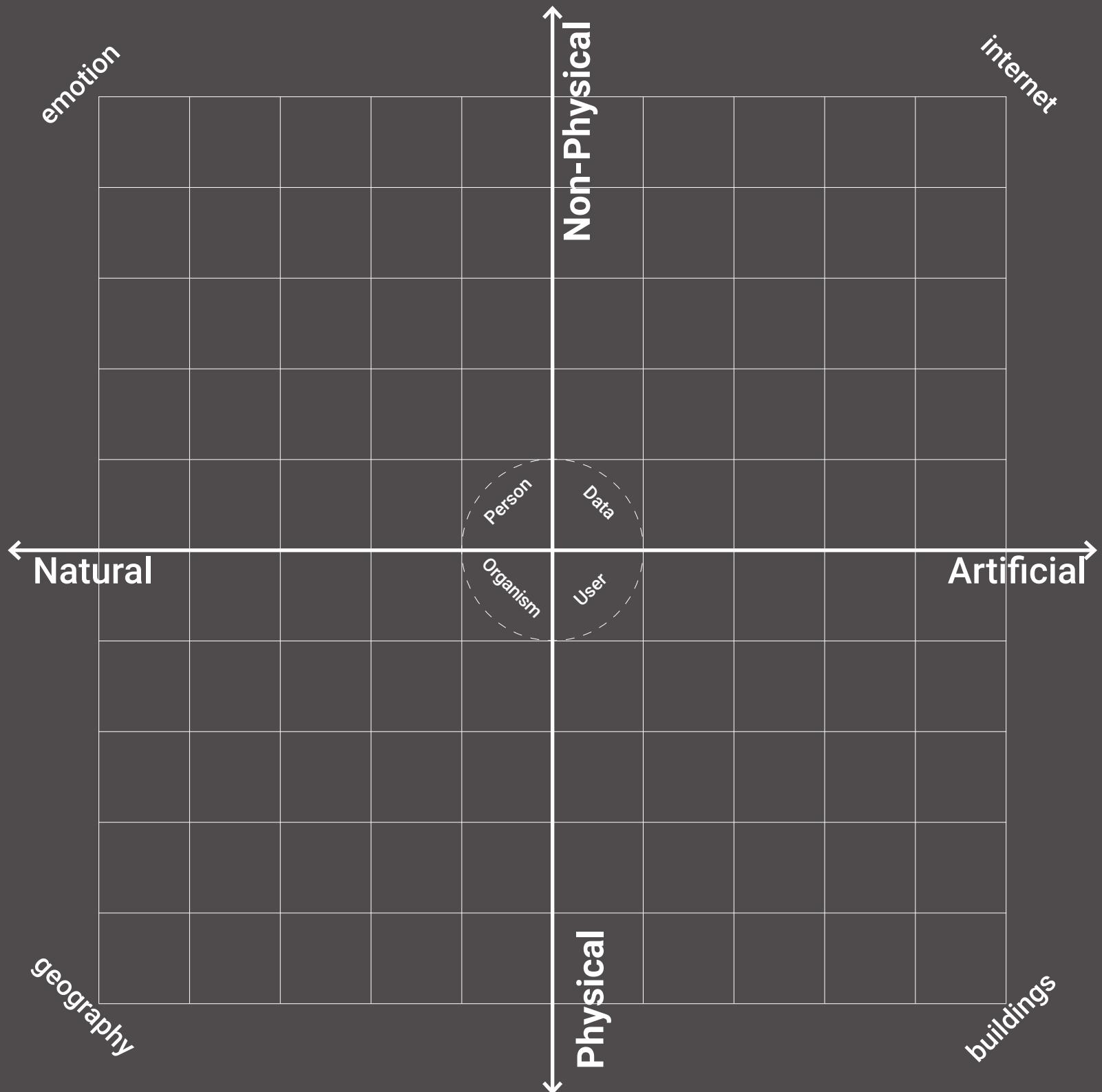


Mapping Change

Synthesizing Value Relationships

- Two Axes Form Grid
- Define Results

Quadrant system clarifies relationships between different clusters of values

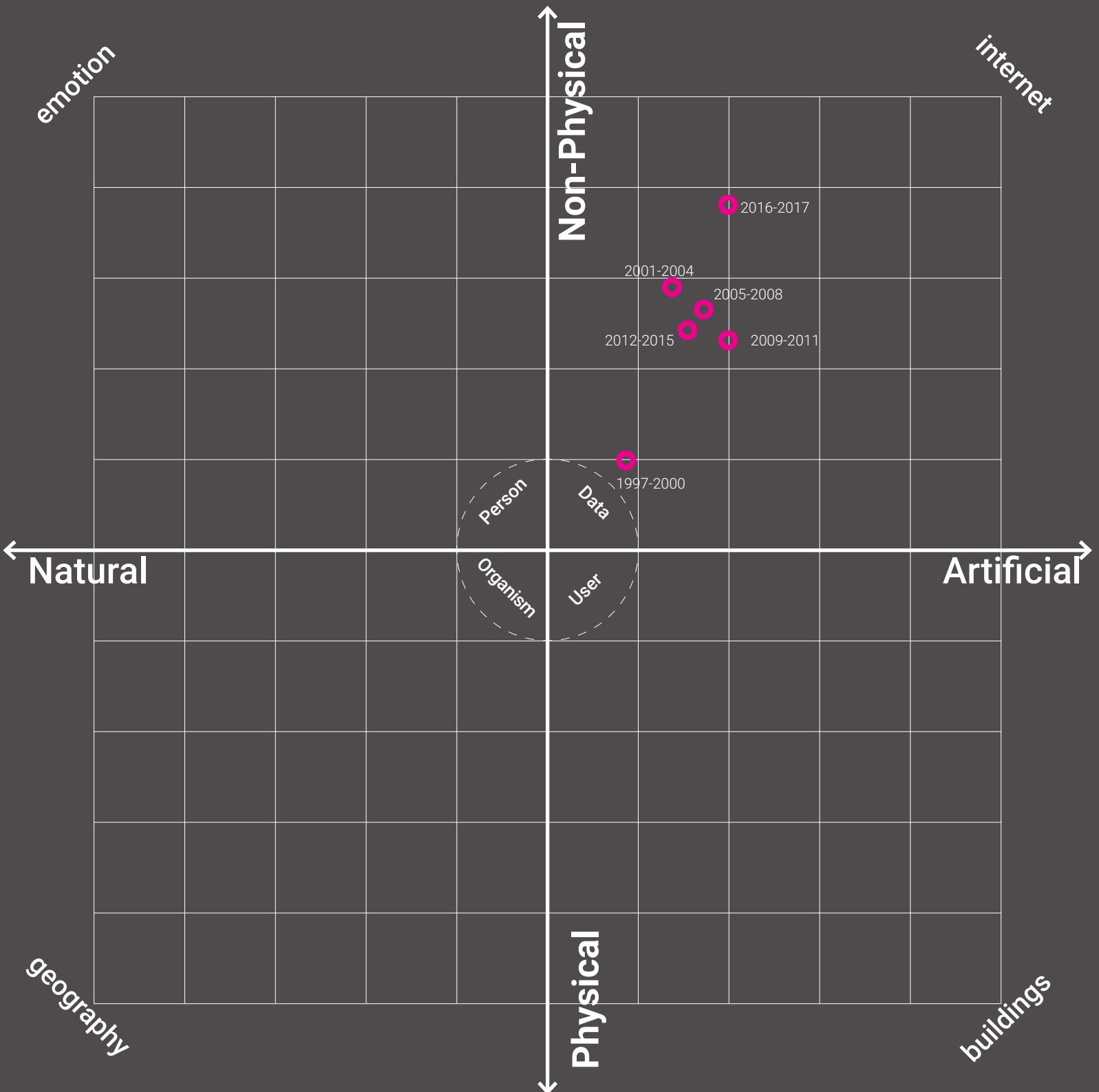


Mapping Change

Synthesizing Value Relationships

- Two Axes Form Grid
- Define Results
- Insert Points

Because neither of the axes are time-based, the points will not necessarily make a linear trend.

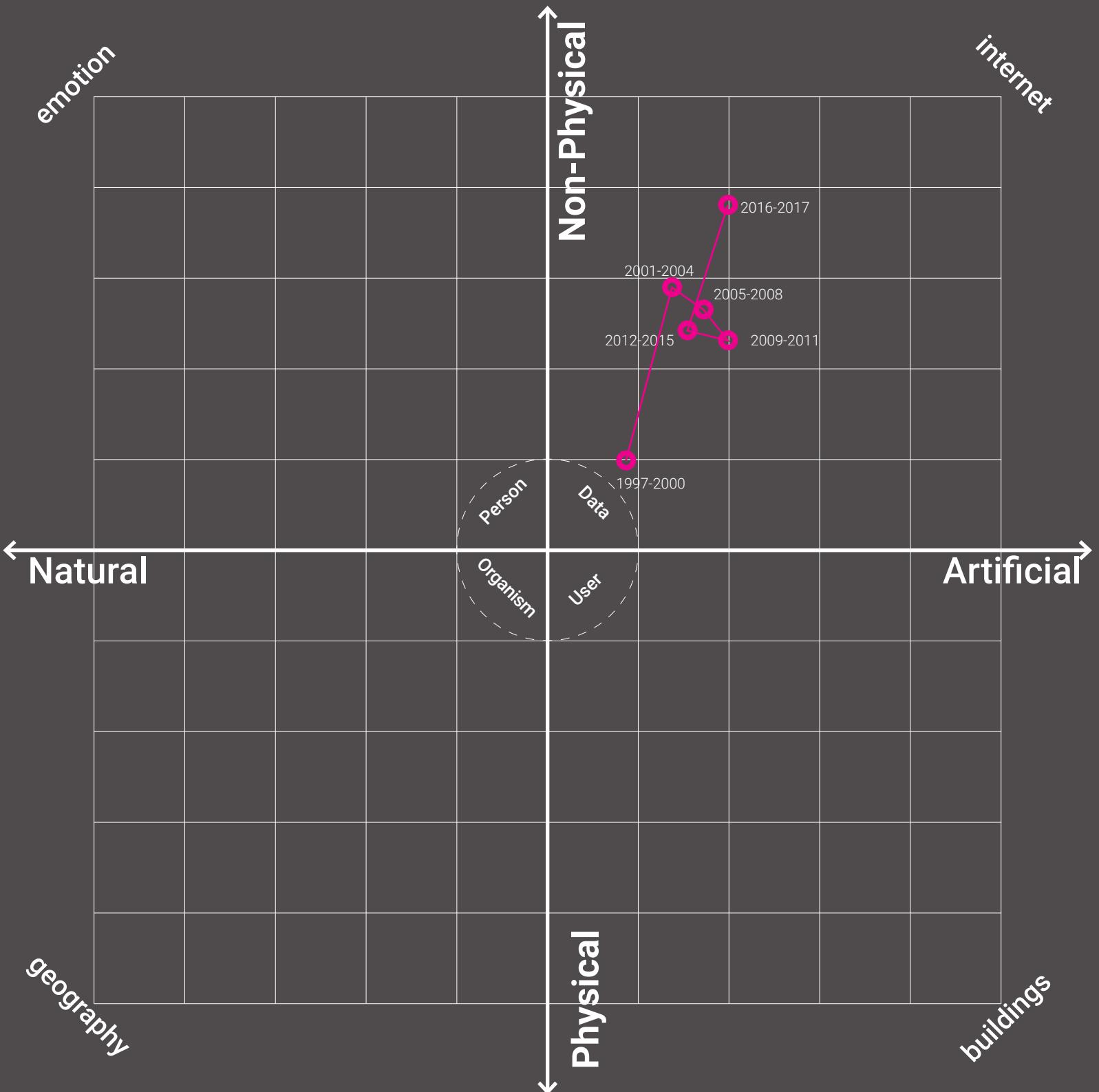


Mapping Change

Synthesizing Value Relationships

- Two Axes Form Grid
- Define Results
- Insert Points
- Track Change

Begin to synthesize how a point changes from year to year, and the distance traveled

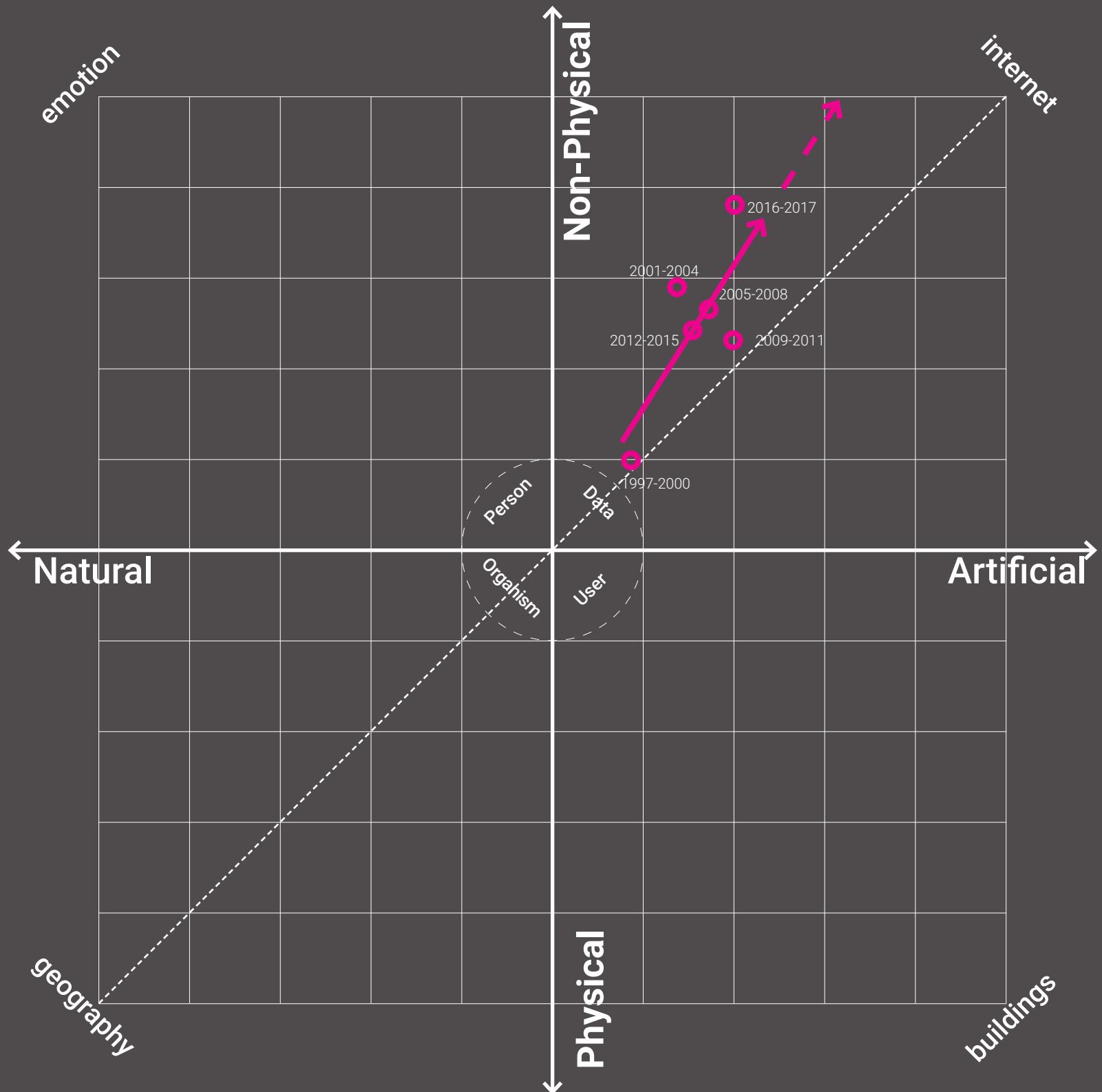


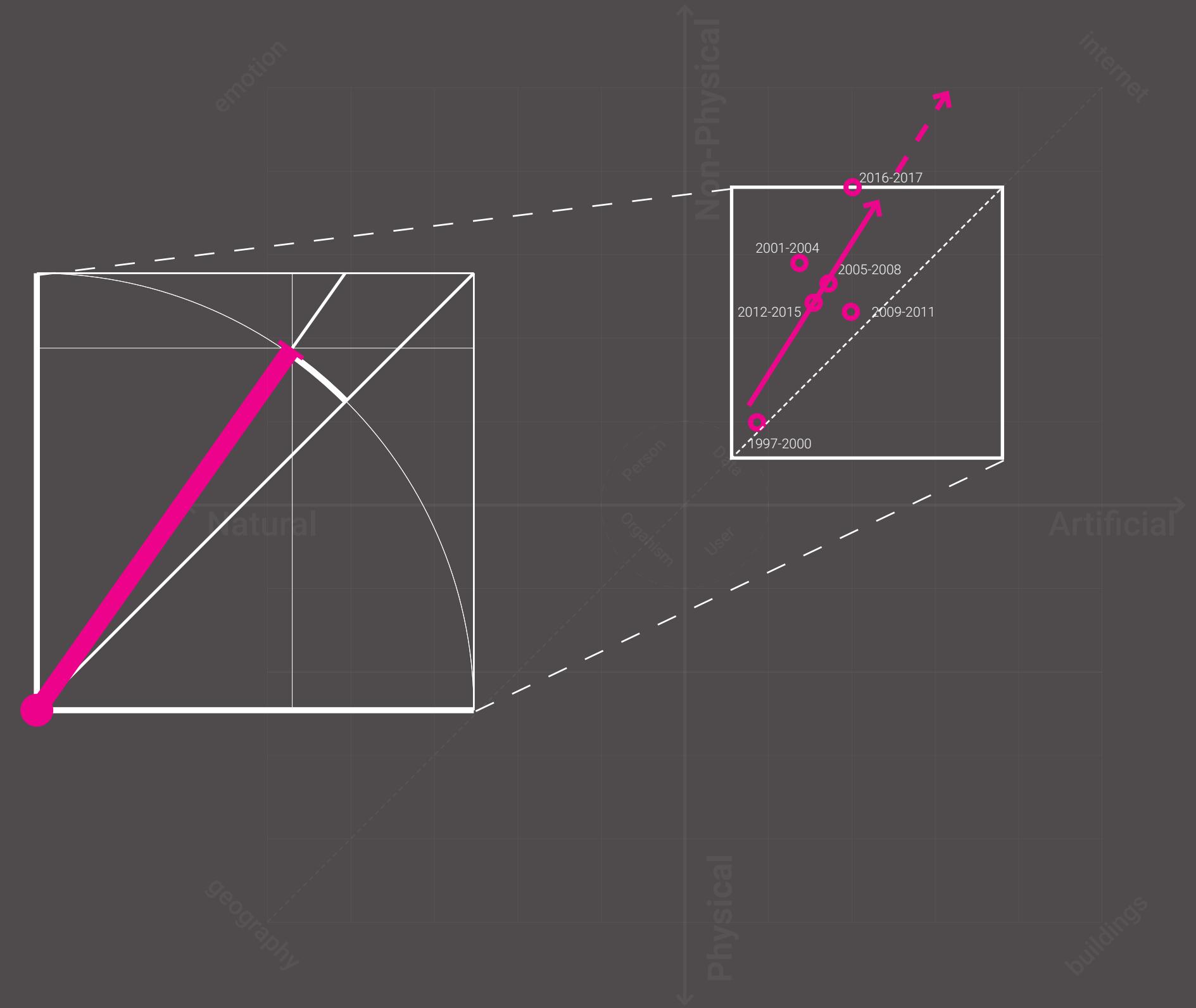
Mapping Change

Synthesizing Value Relationships

- Two Axes Form Grid
- Define Results
- Insert Points
- Track Change
- Identify Direction

Begin to synthesize how a point changes from year to year, and the distance traveled

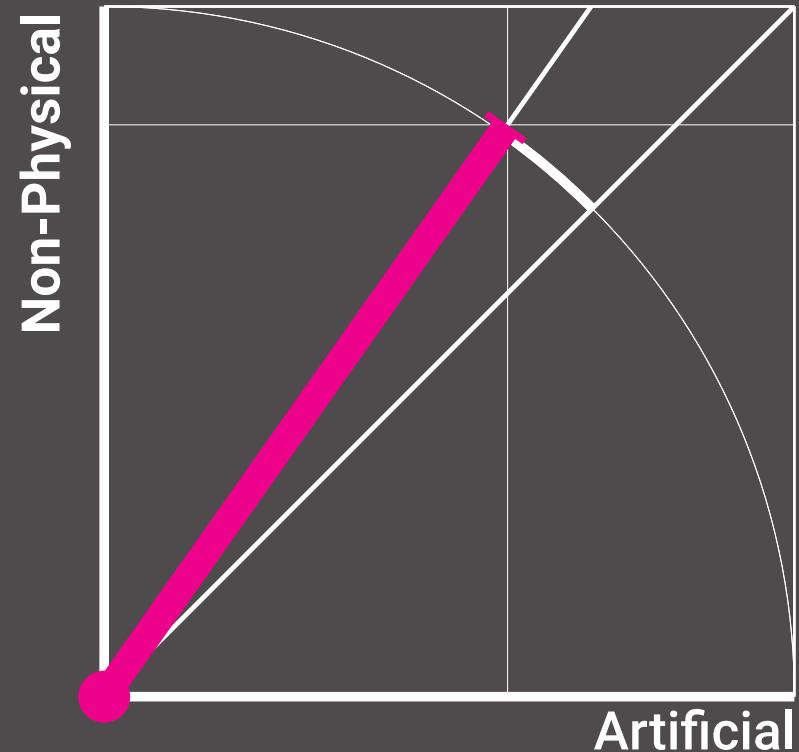




The Vector

A Magnitude with a Direction

Magnitude
1.45



Chicago



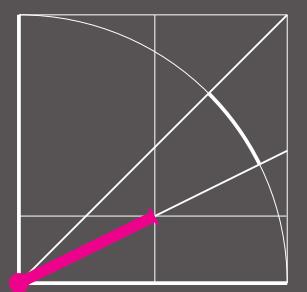
Transportation

(1997-2017)

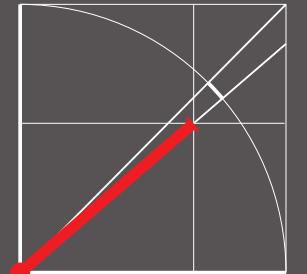
Standard



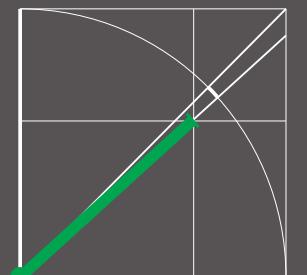
Transportation



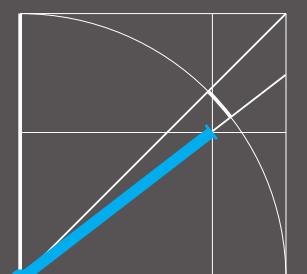
Events & Meeting People



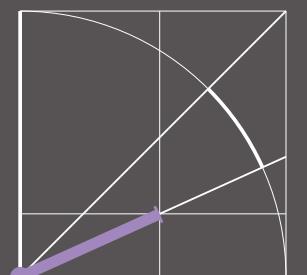
Pursuing Interests



Density, Buildings & Traffic



Community & Cultural Space





Transportation



Events & Meeting People



Pursuing Interests

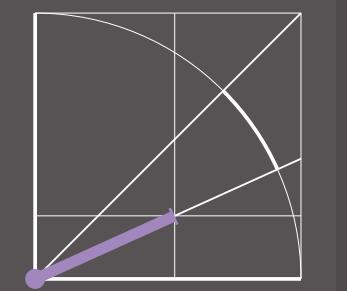
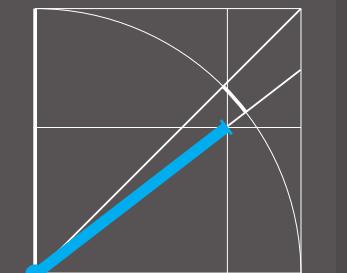
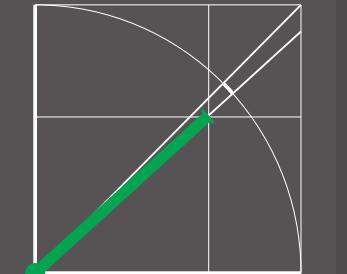
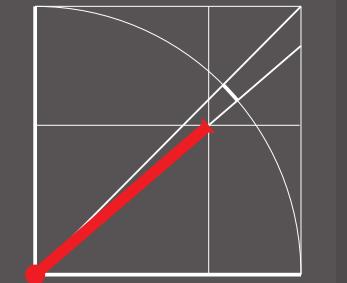
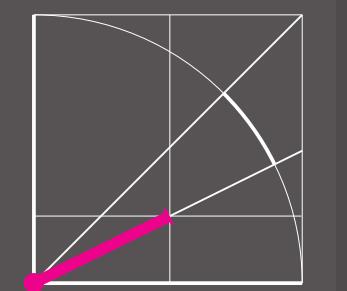


Density, Buildings & Traffic

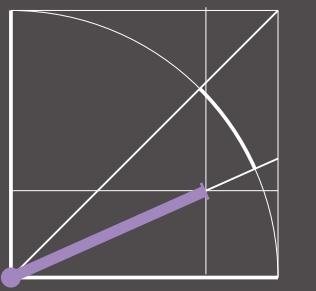
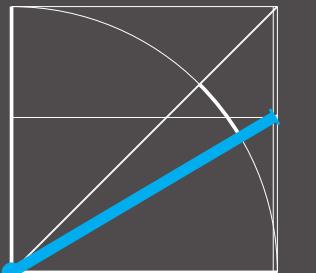
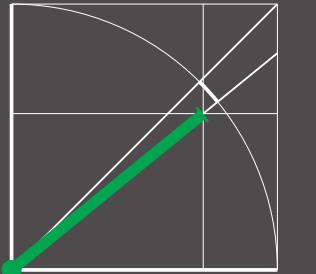
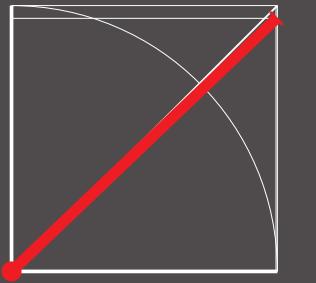
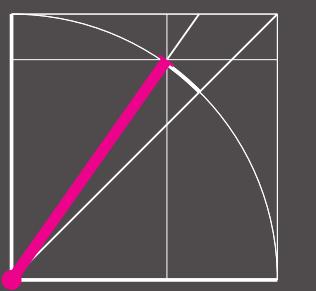


Community & Cultural Space

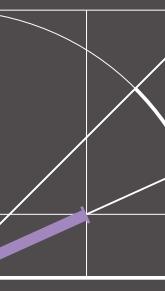
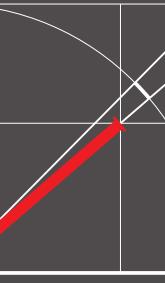
Standard



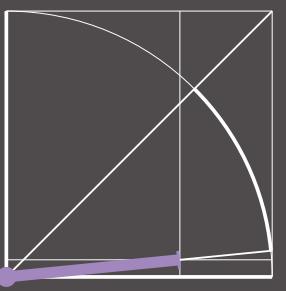
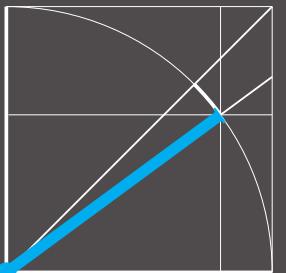
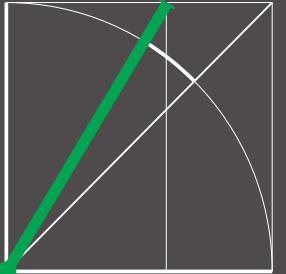
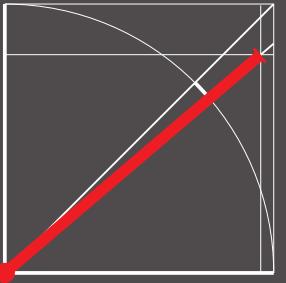
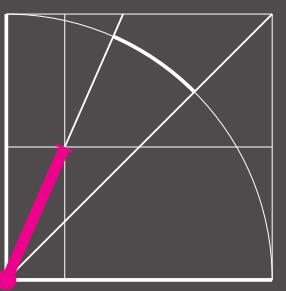
Chicago



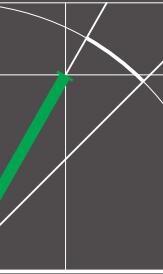
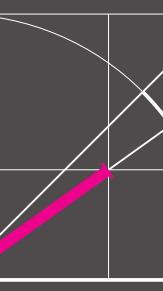
L.A.



Denver



K.C.





Transportation



Events & Meeting People



Pursuing Interests

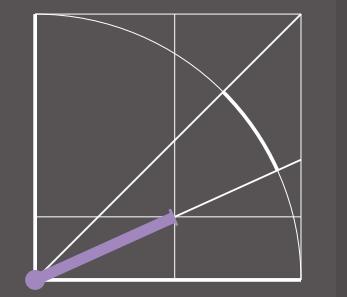
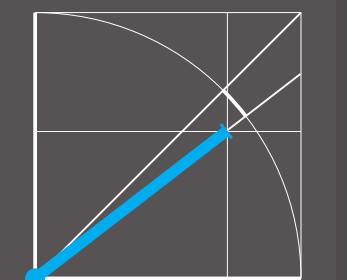
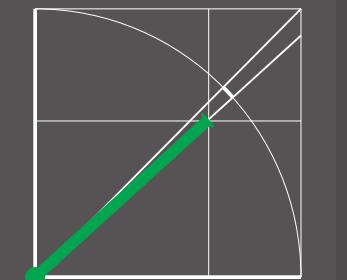
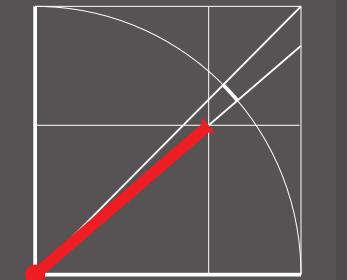
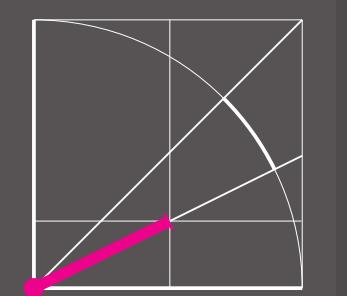


Density, Buildings & Traffic

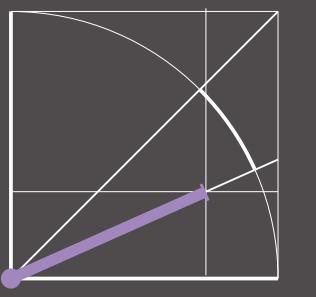
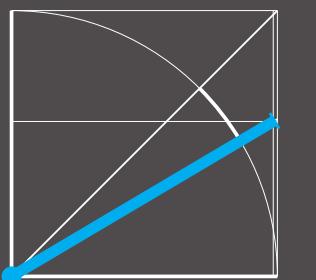
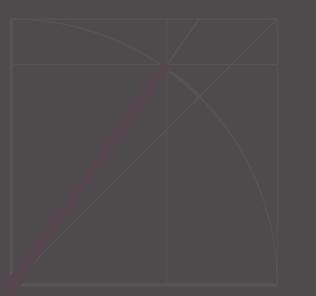


Community & Cultural Space

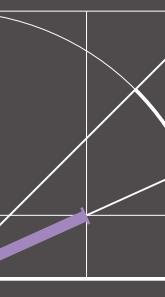
Standard



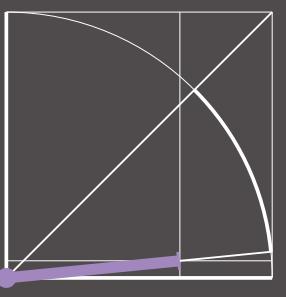
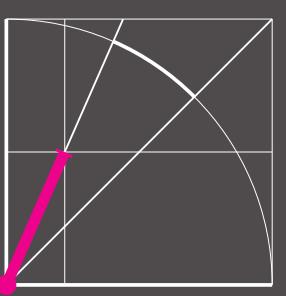
Chicago



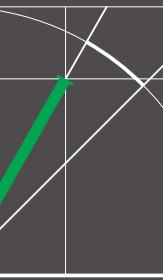
L.A.



Denver



K.C.



Applying the Data

What does all of this mean for our urban space?

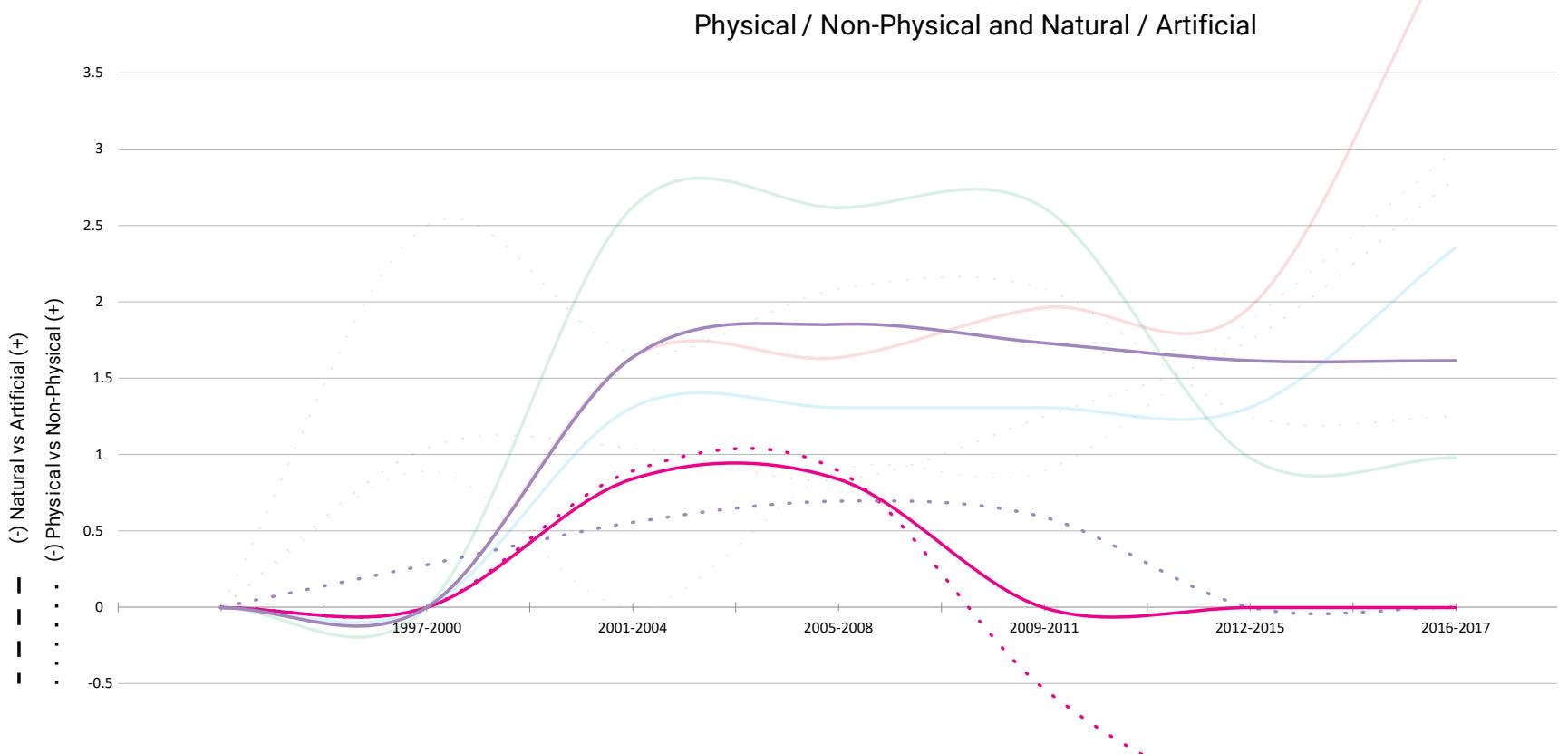
Denver, CO



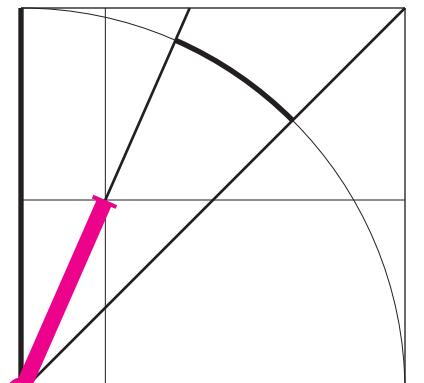
Tanner Hyland

Denver Data

The survey data reflects the city's willingness to experiment with digitally integrated transit networks as well as the continued development of community space to support a growing population.

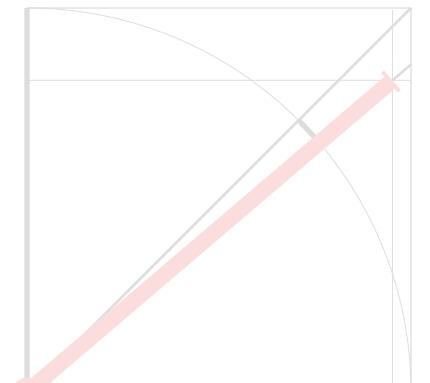


Transportation



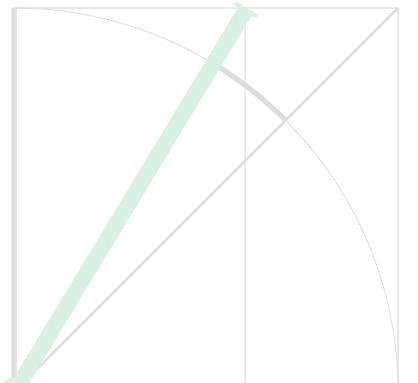
magnitude = **0.88**

Events & Meeting People



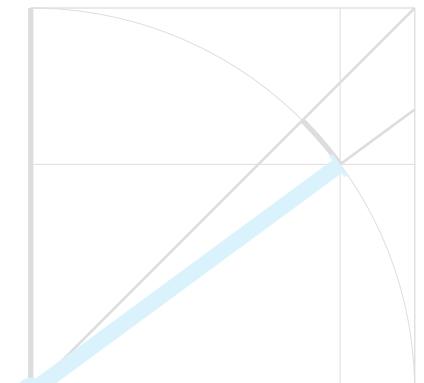
magnitude = **2.25**

Exploring & Pursuing Interests



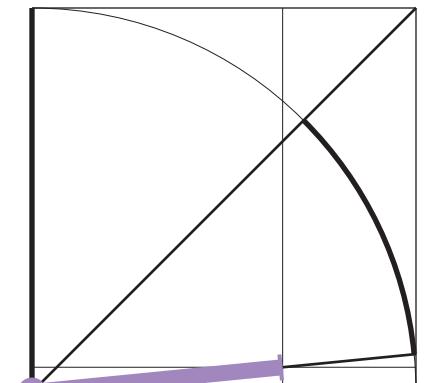
magnitude = **2.25**

Density, Buildings, & Traffic



magnitude = **1.66**

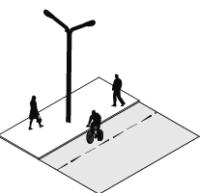
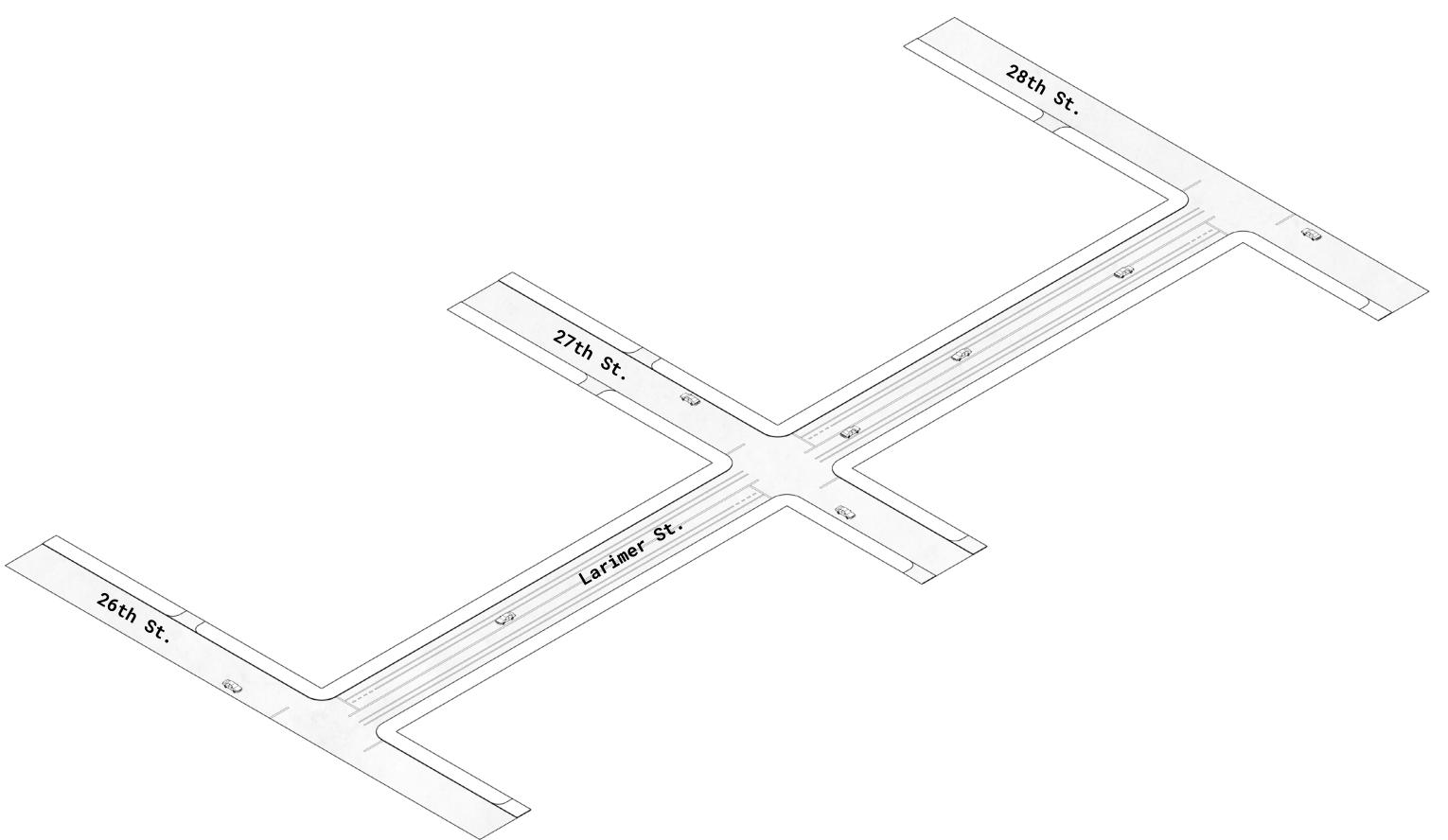
Community & Cultural Space



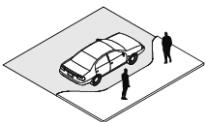
magnitude = **0.98**

RiNo Art District

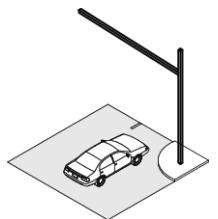
Larimer St. between the blocks
of 26th St. & 28th St.



SmartCity
Pedestrian Lights



Rideshare
Drop-Off Zones

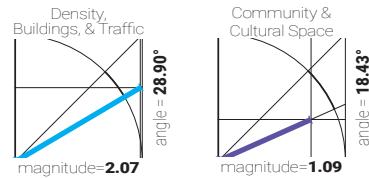


Intelligent Signals
& Traffic Cameras



How can we leverage technology to meet the needs for more communal space and improved access?

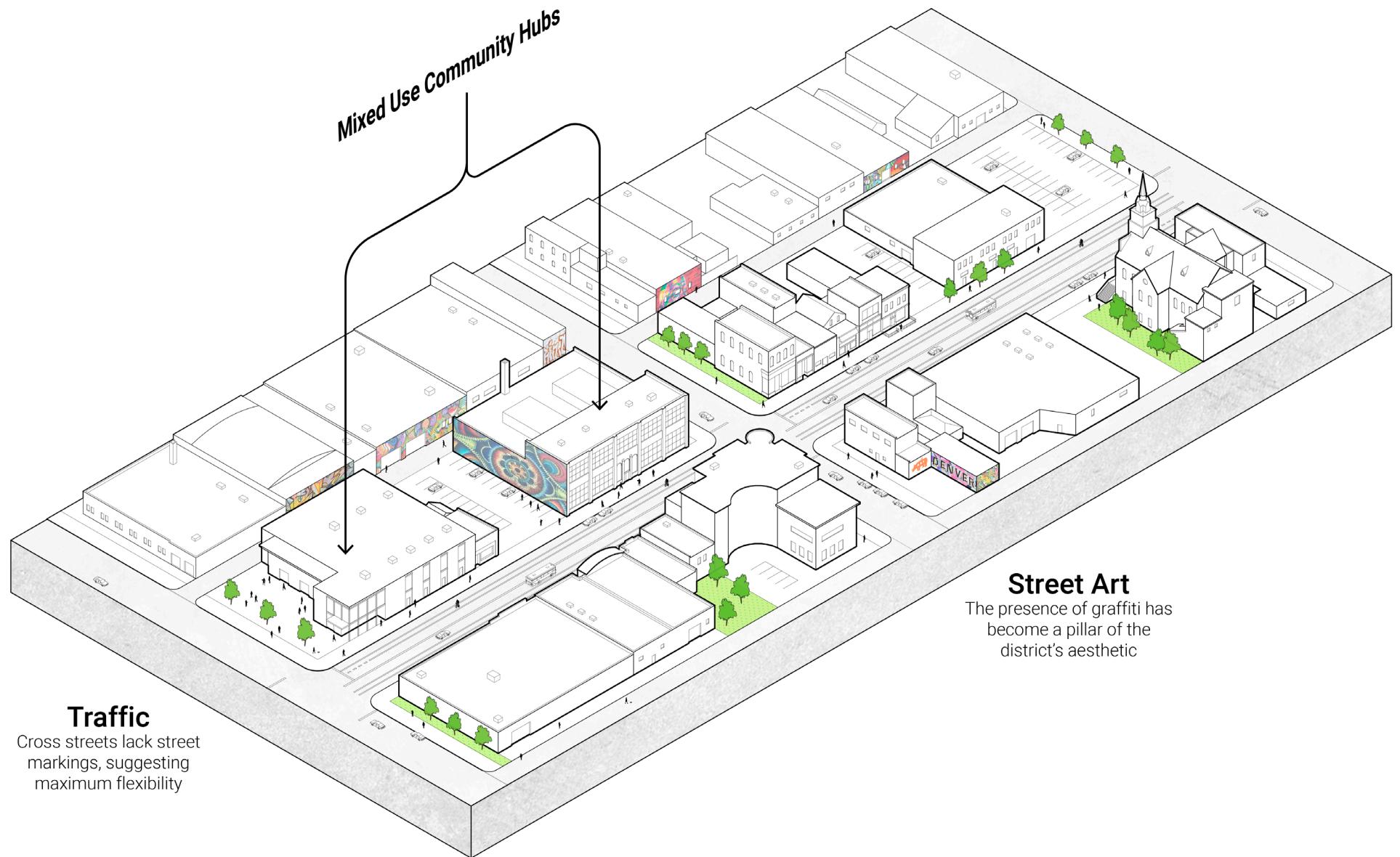
A network of 'smart streets' reclaims elements of the streetscape for the pedestrian while making RiNo more resilient.

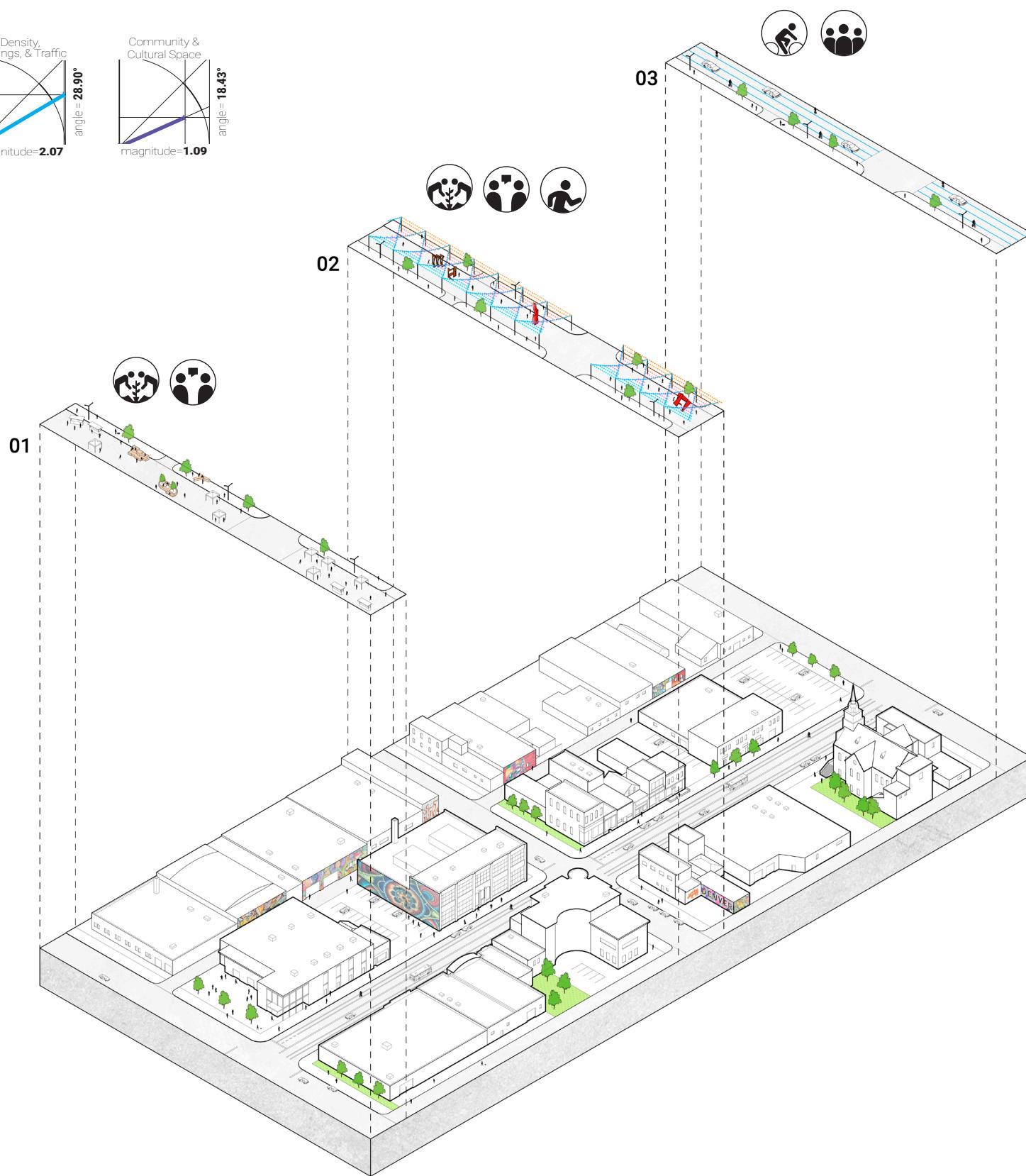
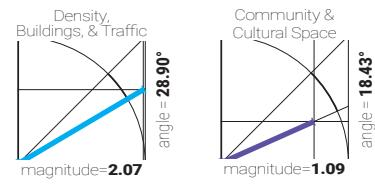


27th + Larimer

RiNo Art District

What role can technology play in preserving the character of a district that is rapidly changing?

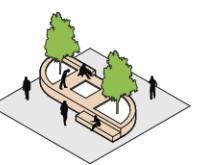




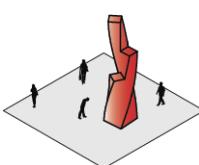
27th + Larimer

'Living Streets'

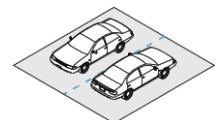
Cross streets become a hyper-flexible network for pedestrian and vehicular traffic, capable of fulfilling a variety of uses according to the needs of the neighborhood.



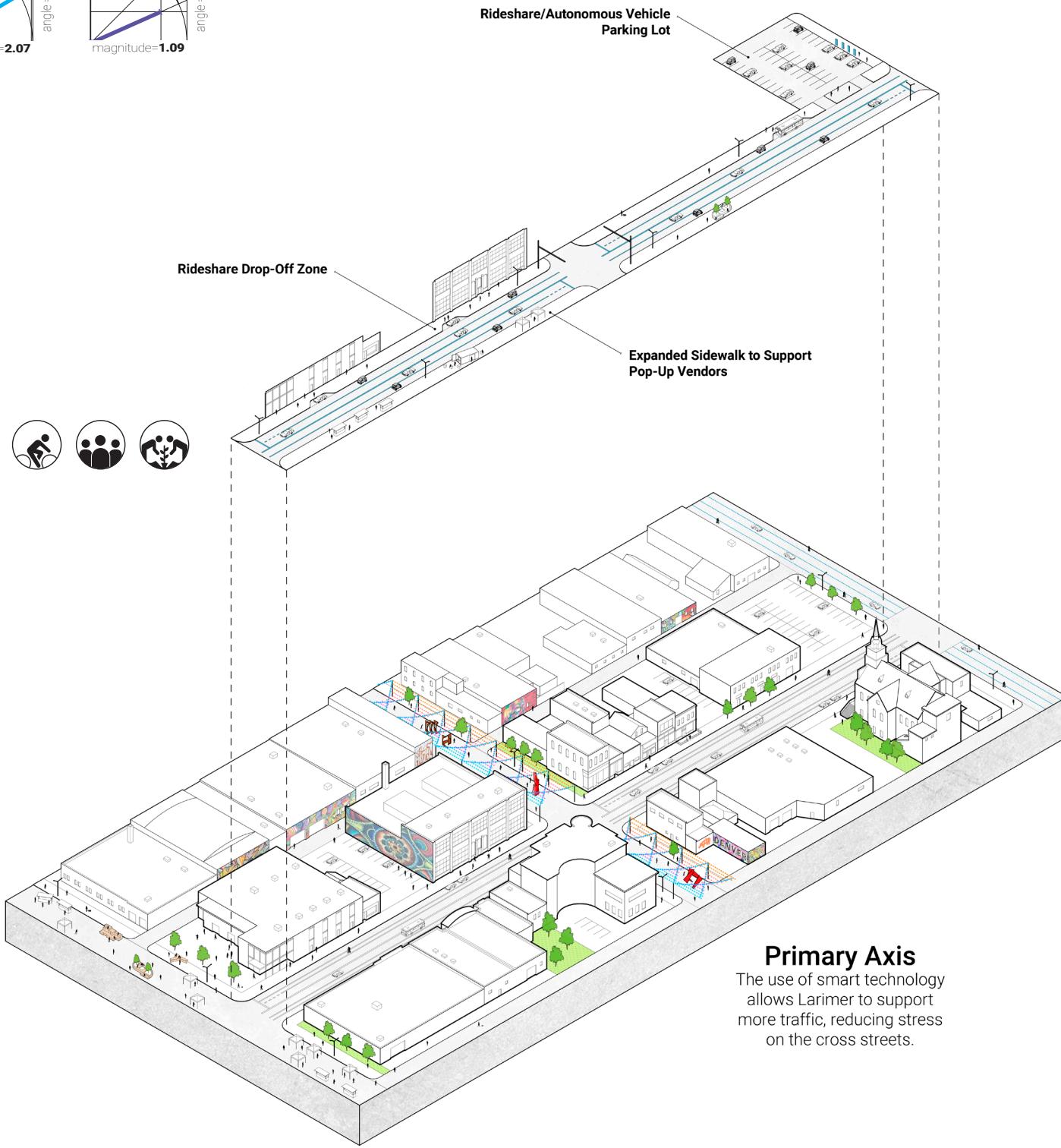
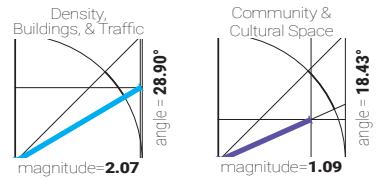
01 | Market



02 | Exhibition



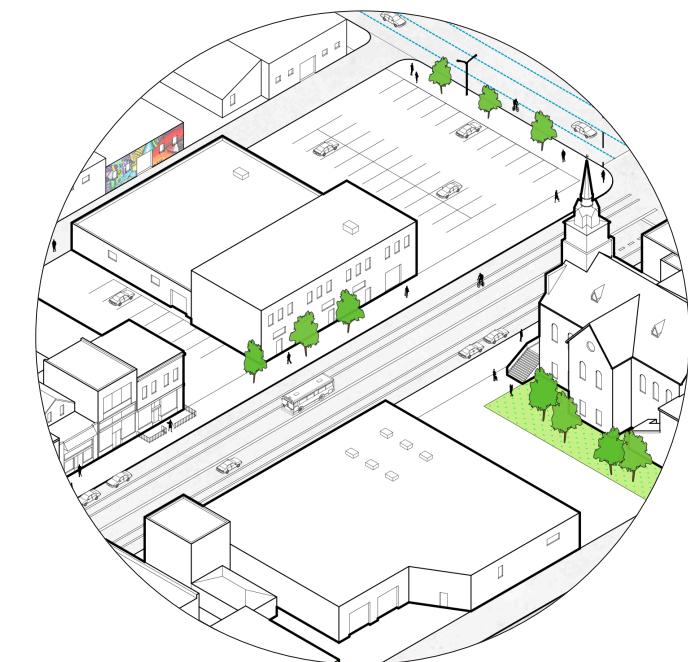
03 | Multimodal
Transit



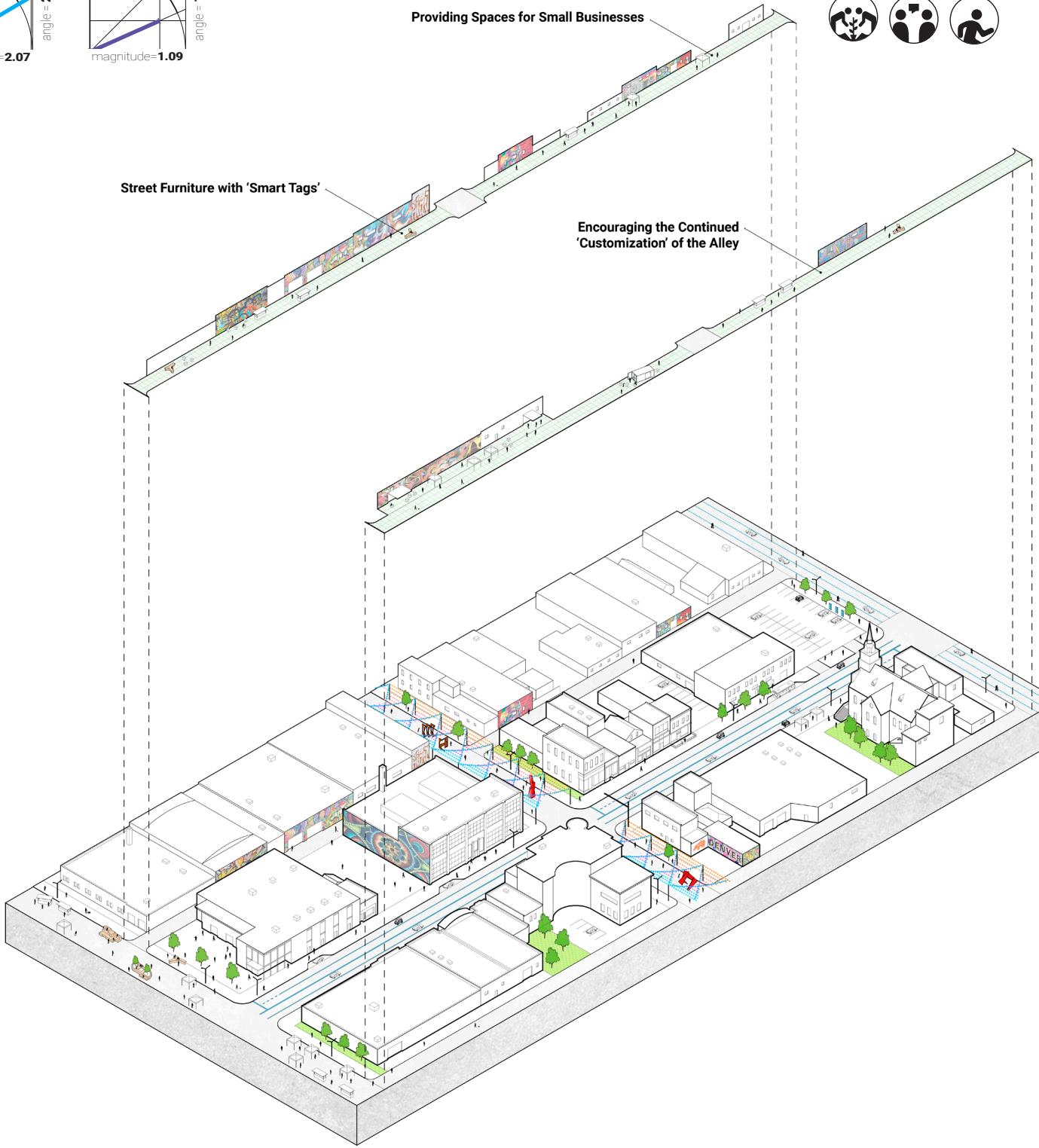
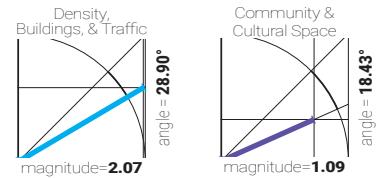
27th + Larimer

'Complete Street'

Larimer Street relies upon the real-time feedback of intelligent traffic signals to inform lane uses.



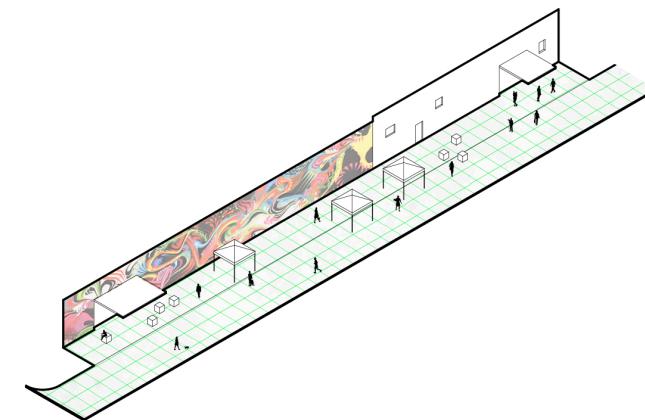
Each lane has the ability to accommodate traffic in either direction as well as buses, bicycles, and autonomous vehicles at varying times.

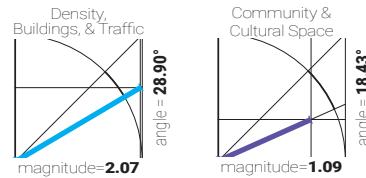


27th + Larimer

'Active Alleyways'

The artists of RiNo have laid claim to the district's alleys. How can this unique environment be further enhanced to offer more opportunities to local artists and small businesses?

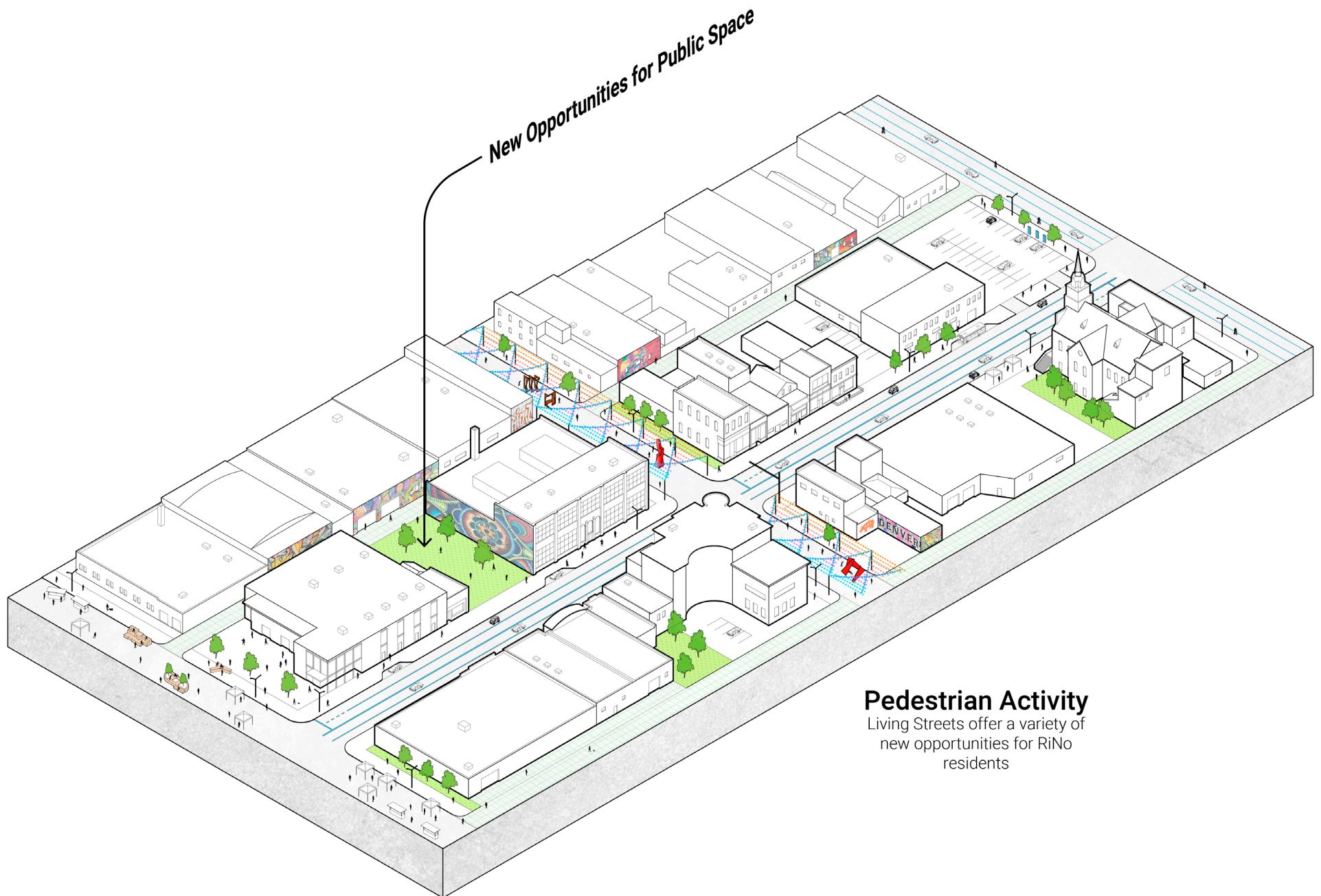


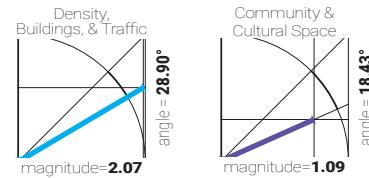


27th + Larimer

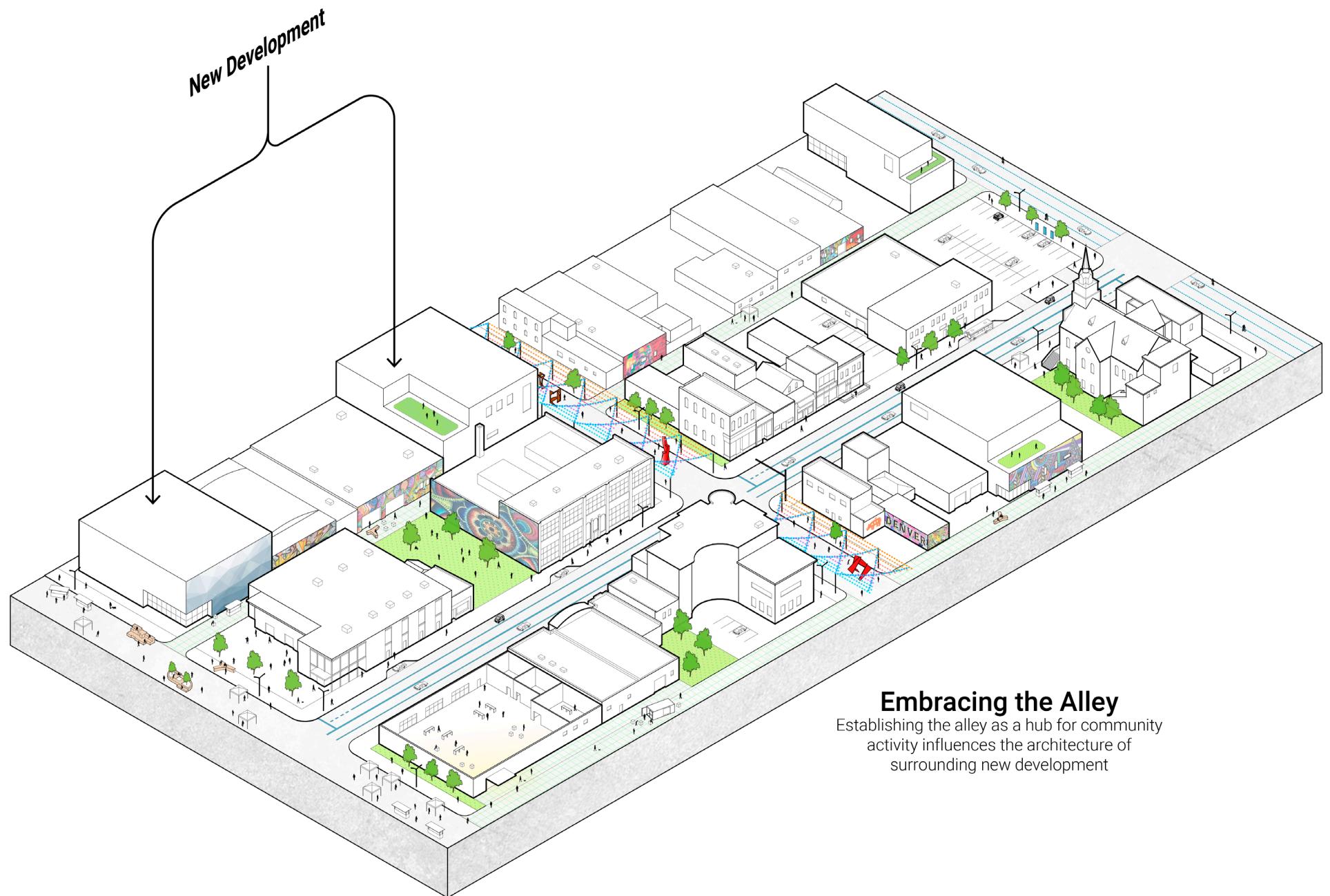
Future Outlook

As the gentrification process continues in RiNo, what effect can the implementation of a pedestrian-oriented smart street network have on the resilience of the community?





27th + Larimer



What Makes RiNo, RiNo?

By placing the focus on the pedestrian and amplifying the elements that have contributed to a strong sense of place within the district, the smart street network helps to build a more resilient, sustainable community.



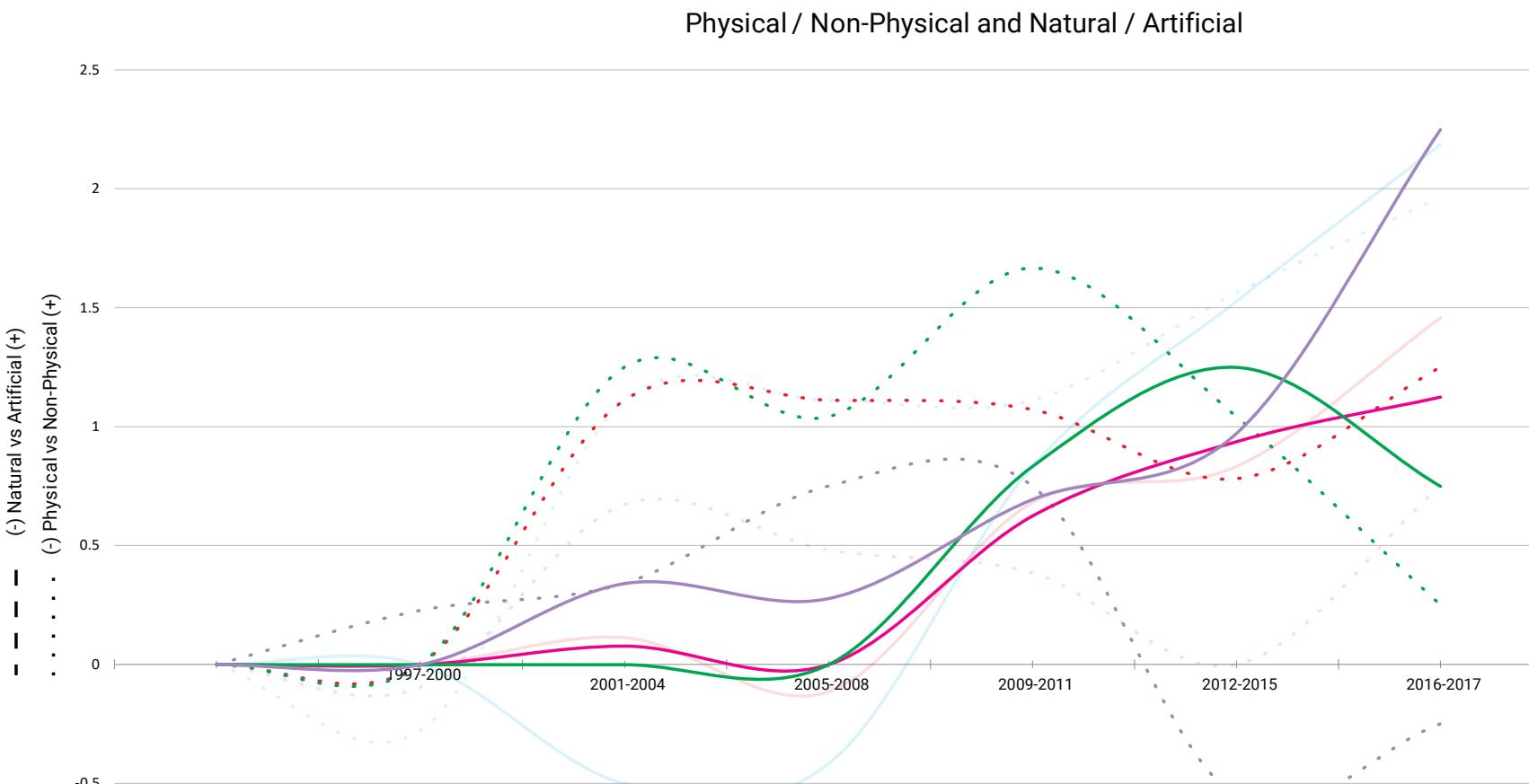
Kansas City, MO



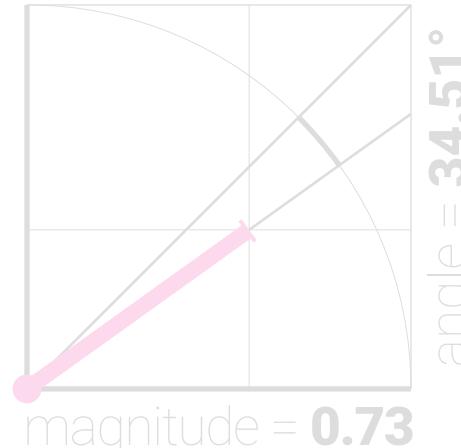
Dillon Park
Simon Davies

Kansas City Data

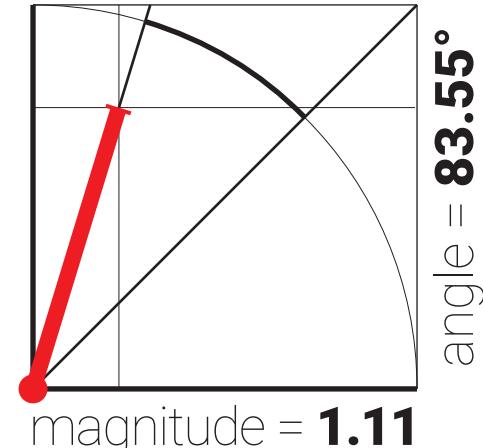
Trends and Highlighted Indicators for the change we think we'll see.



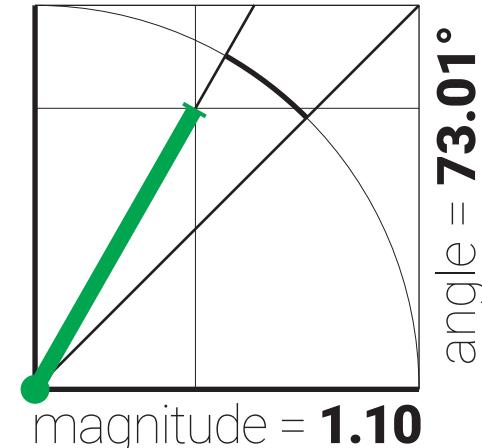
Transportation



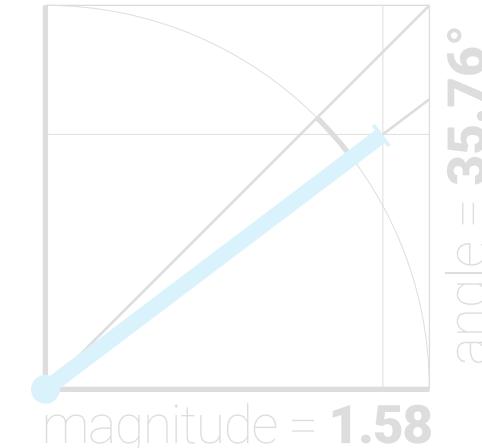
Events & Meeting People



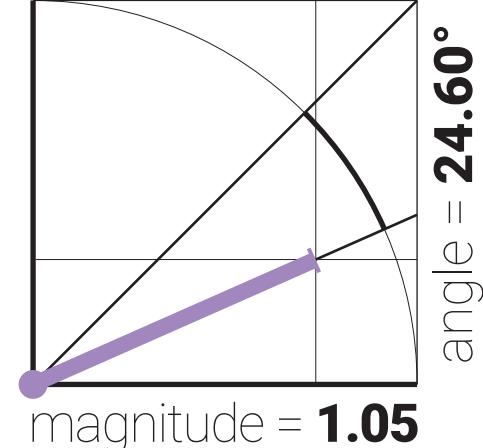
Exploring & Pursuing Interests



Density, Buildings, & Traffic



Community & Cultural Space



Adaptive Spaces

Revitalization of Pedestrian Pathways

Spiking Community Engagement and Interest

Introducing new functions and spaces through the integration of fellowship and local community.

Adaptive spaces are used as a means to bring general interest into the local community and introduce them to the existing or developing movements of Kansas City.

Community Integration

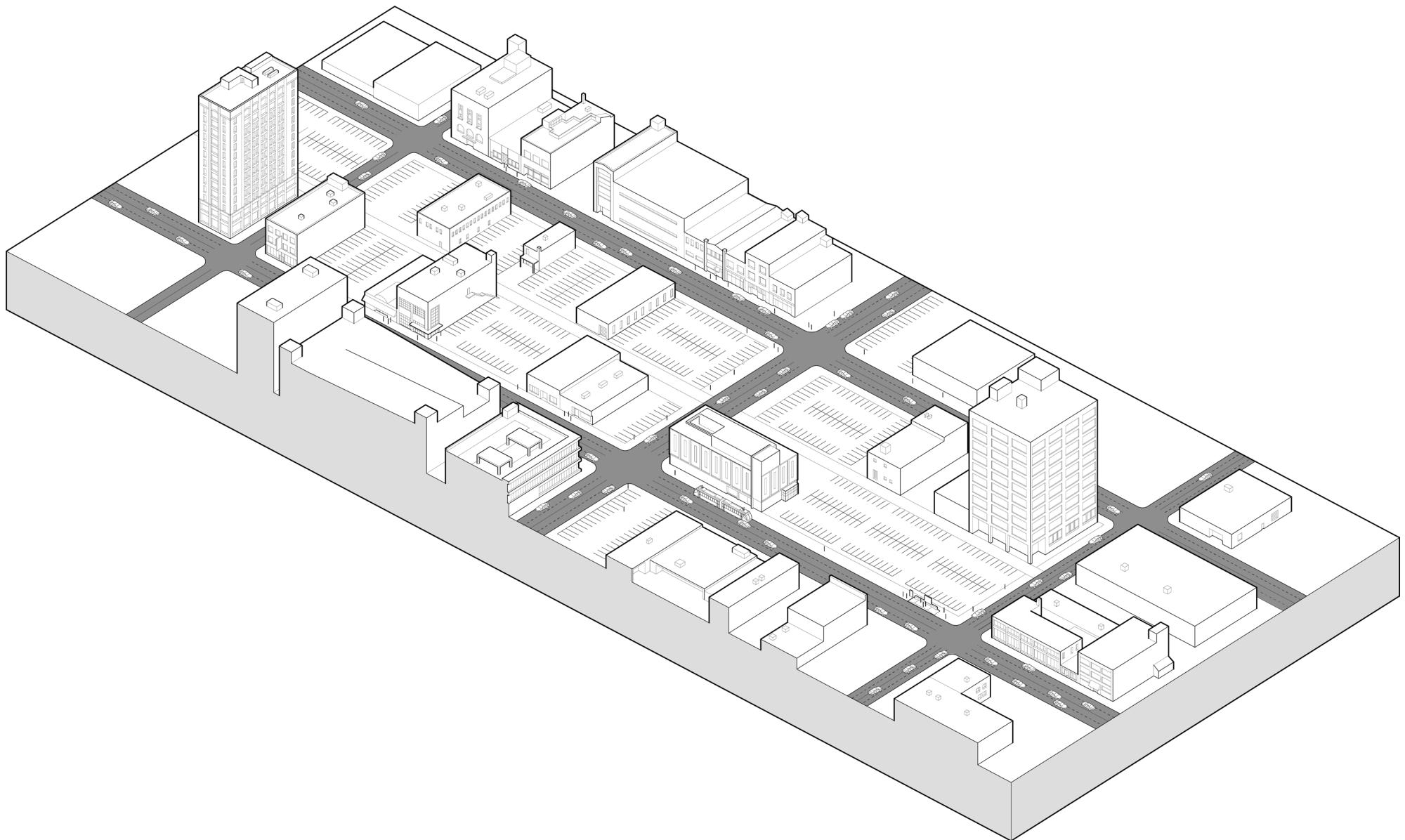
A Local Exchange

From our data we have observed that Kansas City is trending more towards the “nonphysical” axis when it comes to Events & Meeting People or Pursuing Interests, meaning our city lacks strong physical spaces that engage communities.

What types of spaces bring people in and spark general interest?

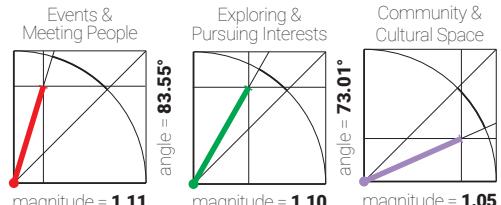
How can we introduce citizens to local communities in a non abrasive manner?

18th + Walnut



Present Conditions

Low Density
Adjacent to Streetcar route
Large swaths of parking area

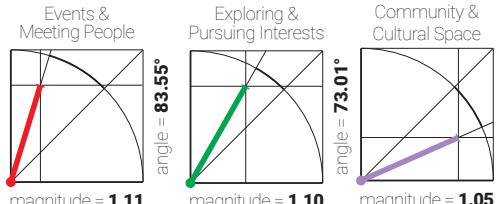
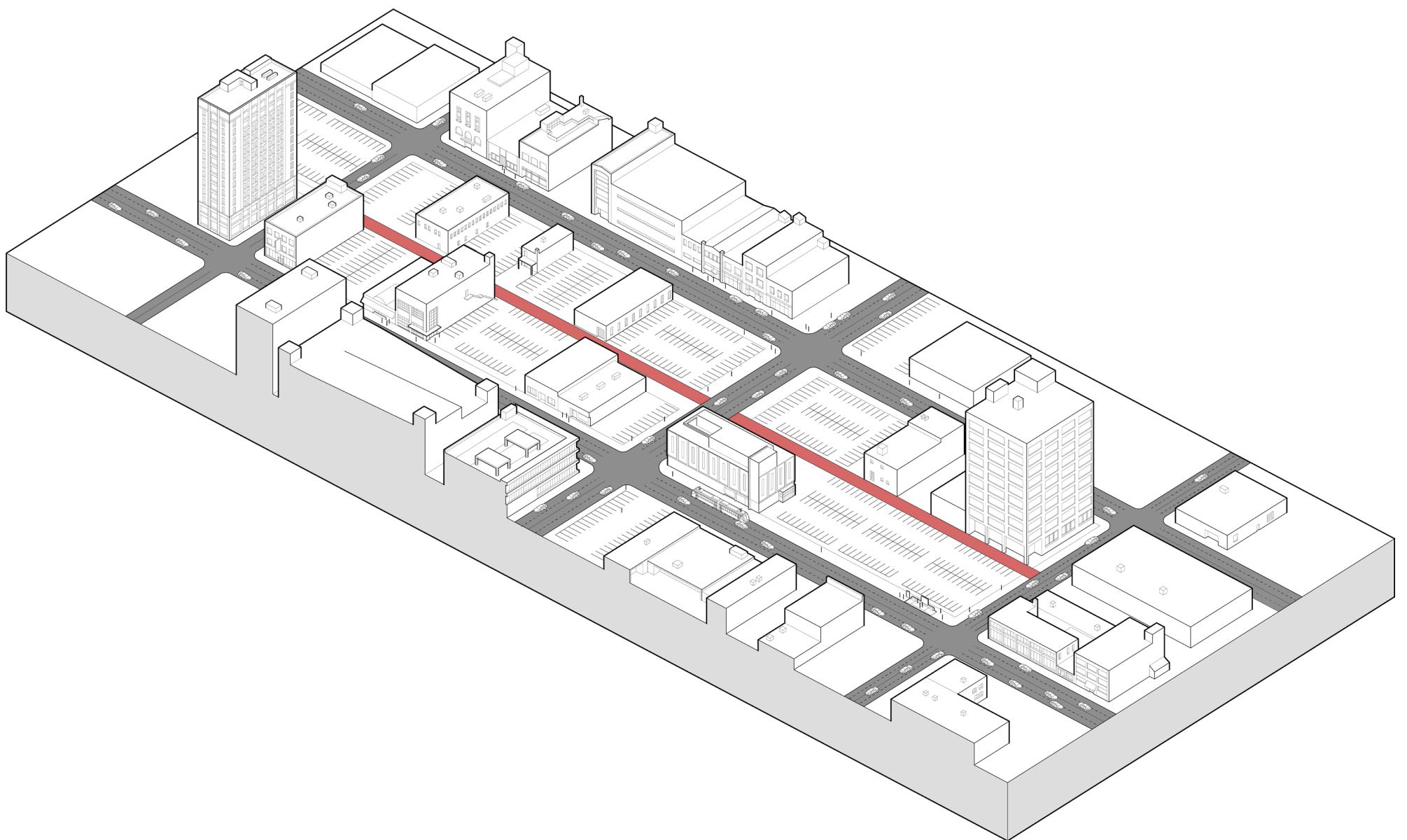


18th + Walnut

Creating Adaptive Spaces

Define Axis

Establishing a pedestrian-only pathway to encourage human interaction and city exploring.



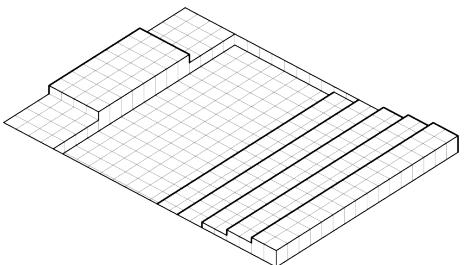
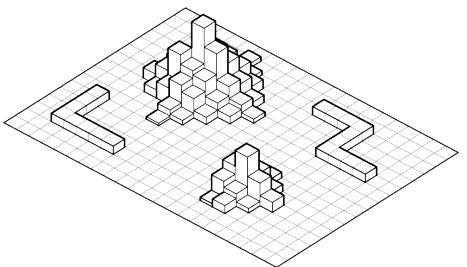
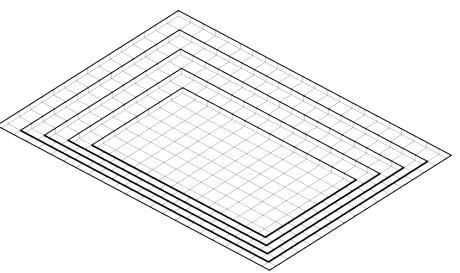
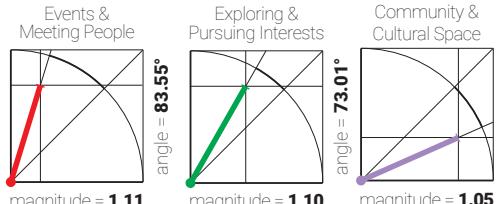
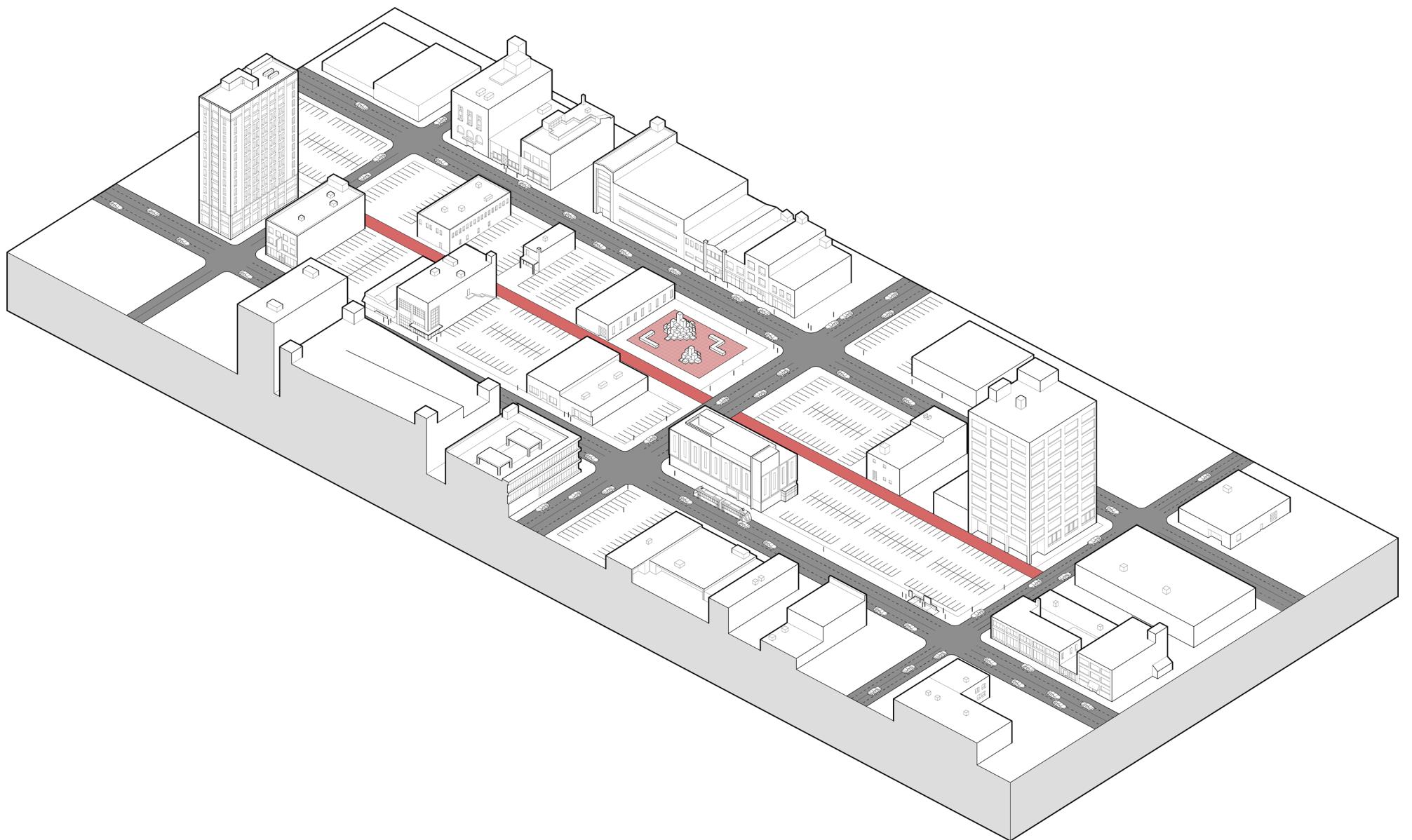
18th + Walnut

Creating Adaptive Spaces

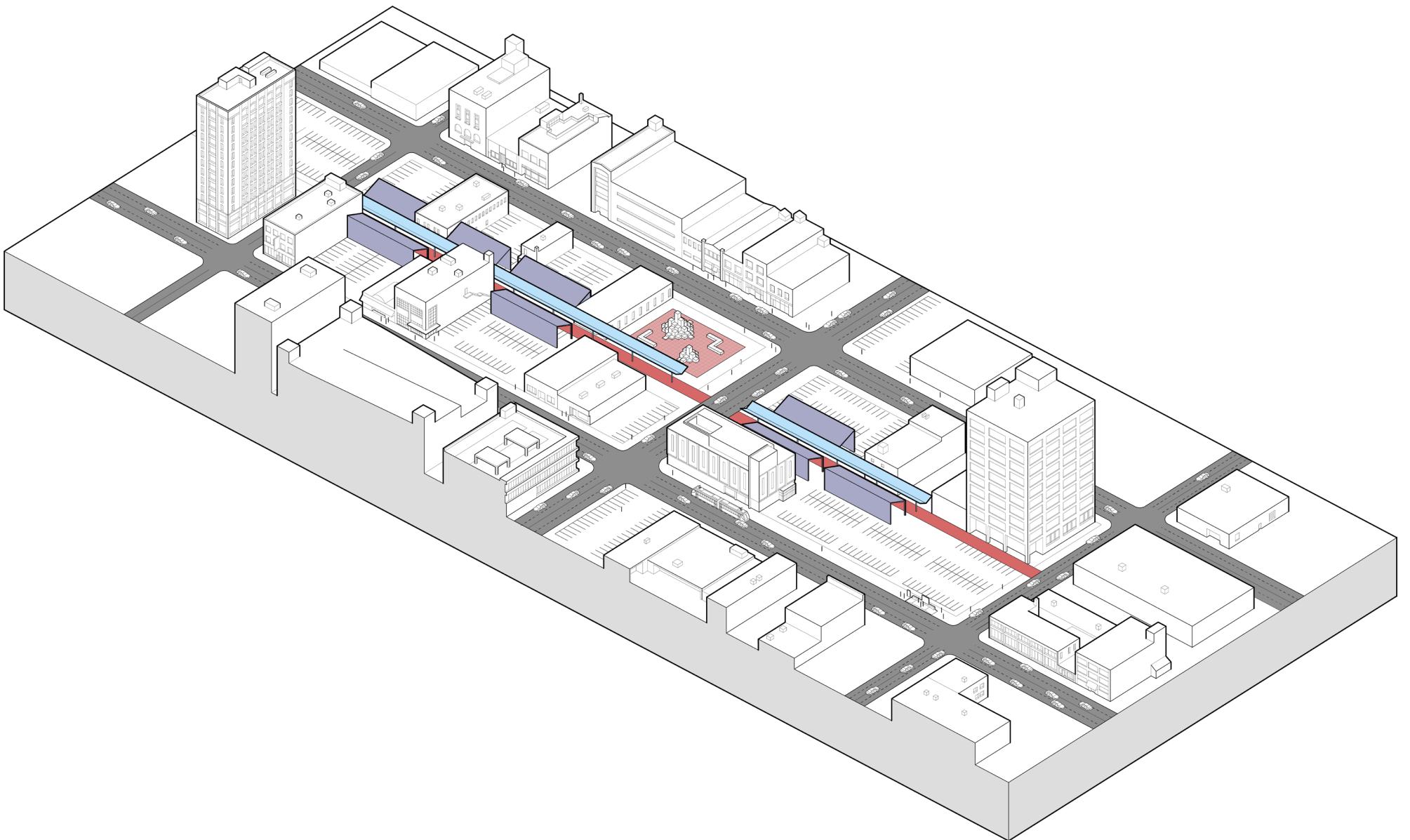
Define Axis

Automated Plaza

A central node that physically adapts to the needs of the user.



18th + Walnut



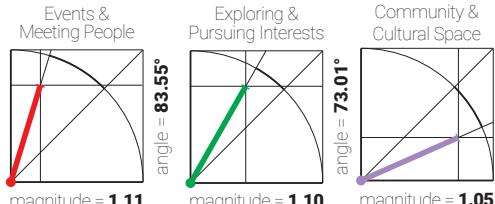
Creating Adaptive Spaces

Define Axis

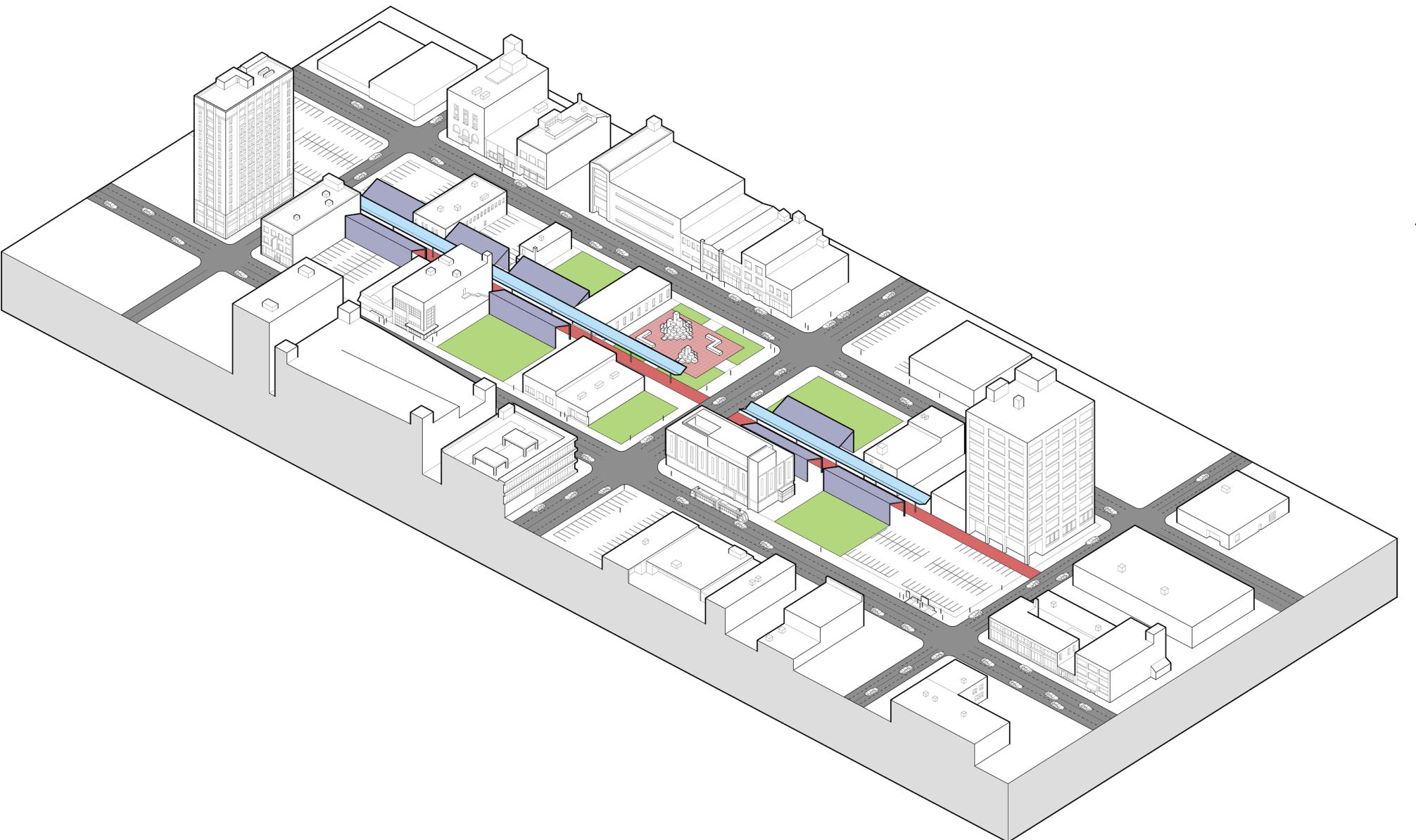
Automated Plaza

Plug-in Market Framework

Forming a built environment for both short-term and long-term businesses.



18th + Walnut



Creating Adaptive Spaces

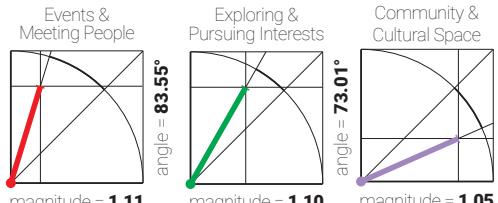
Define Axis

Automated Plaza

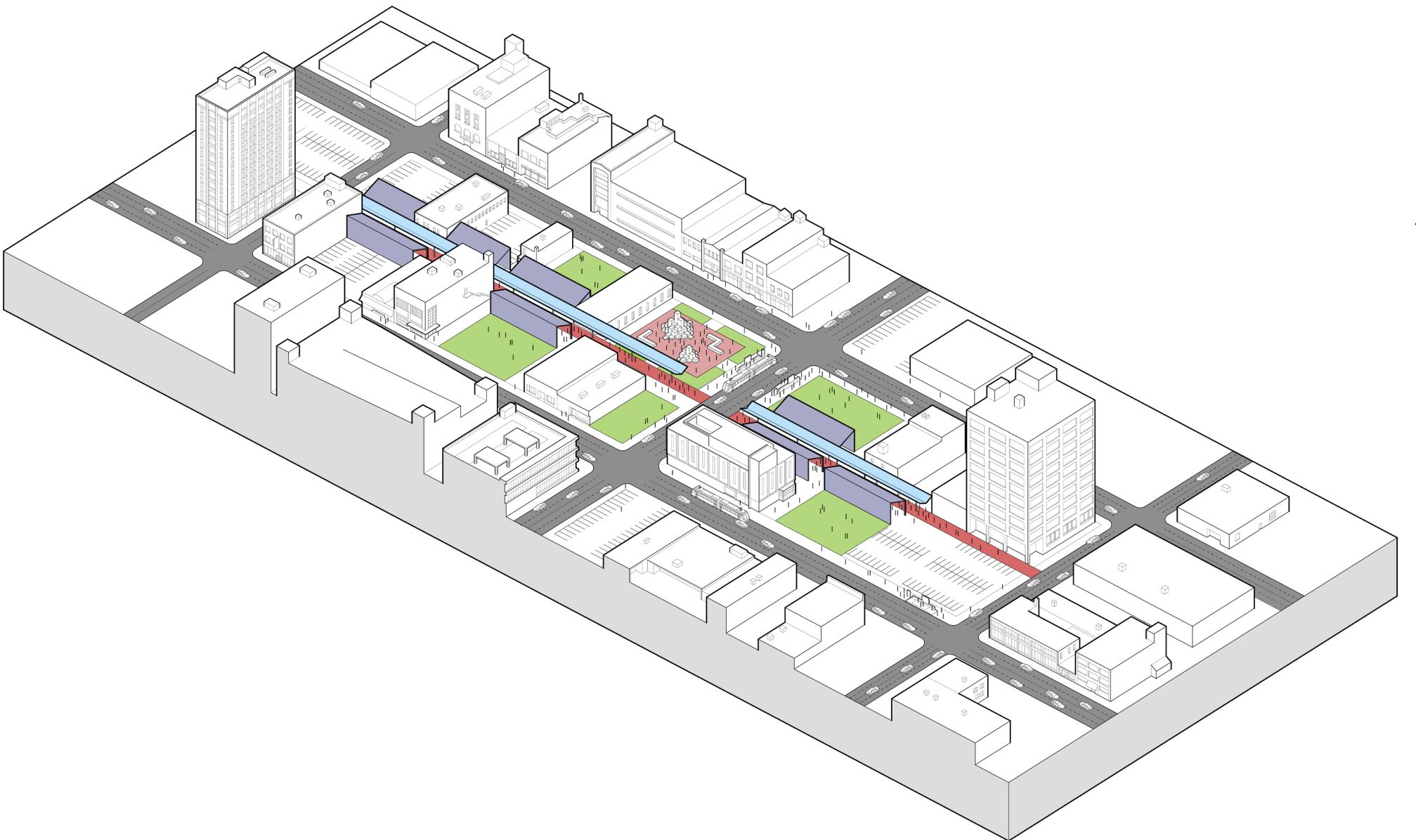
Plug-in Market Framework

Establish Green Spaces

Introducing parklet areas as relief spaces from the market. It is vital to contrast dense engaging spaces with natural open environments.



18th + Walnut



Creating Adaptive Spaces

Define Axis

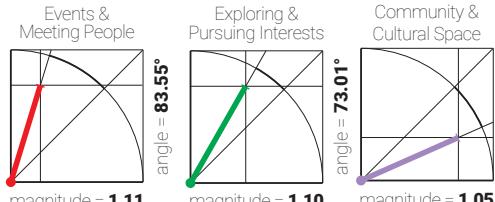
Automated Plaza

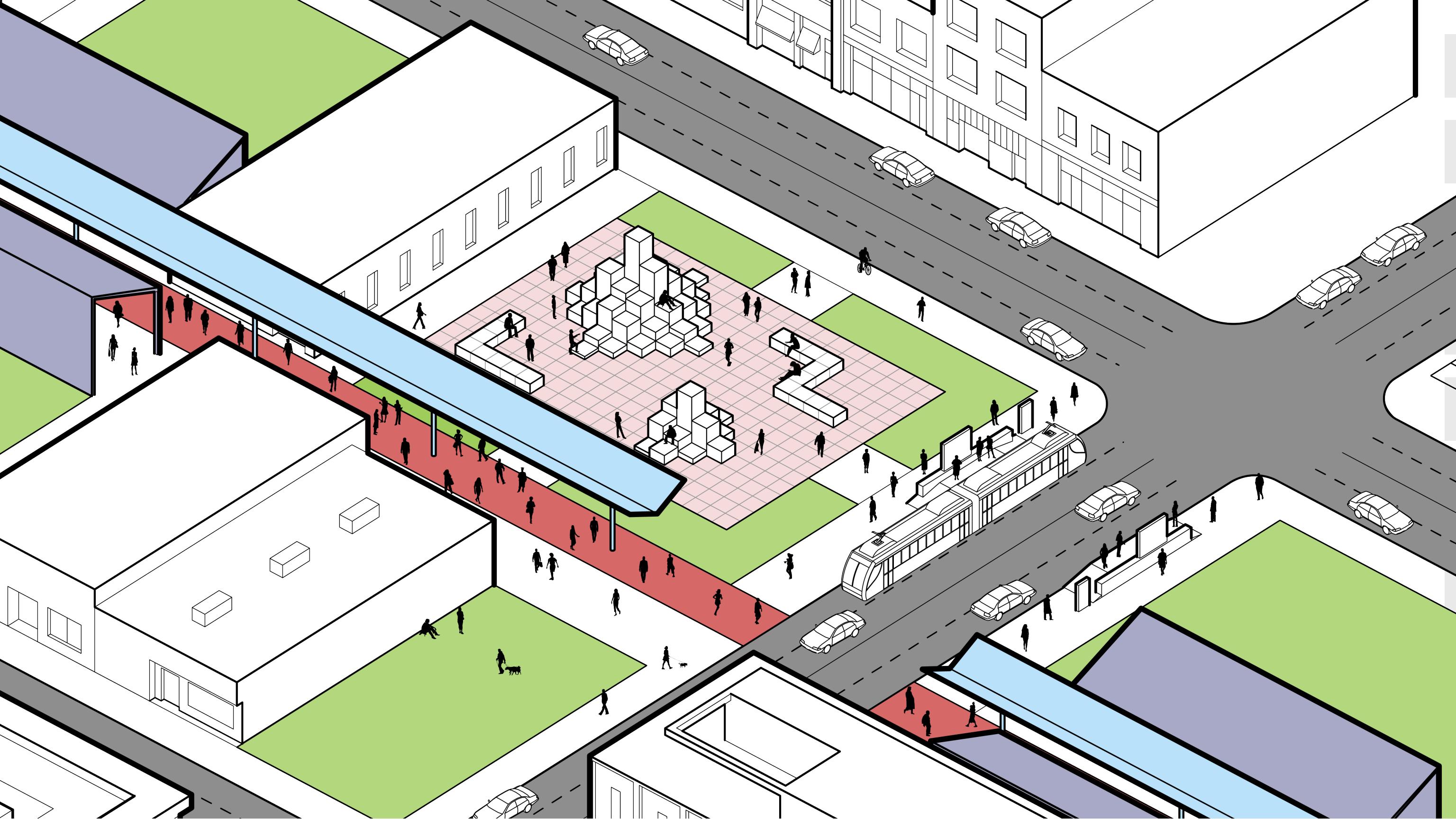
Plug-in Market Framework

Establish Green Spaces

Expand Streetcar Route

Developing a connection with the 18th and Vine Cultural district to the East.





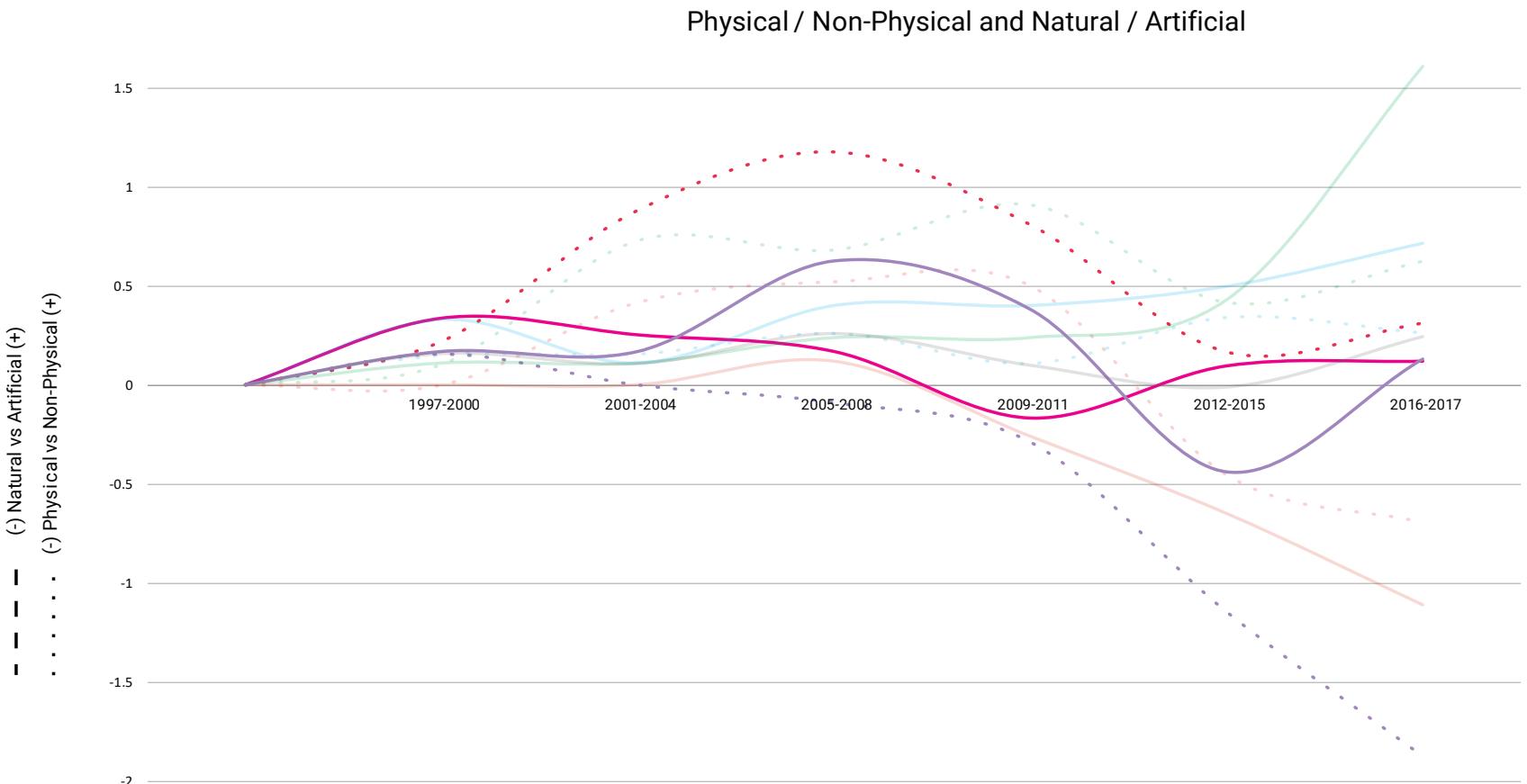
Los Angeles, CA



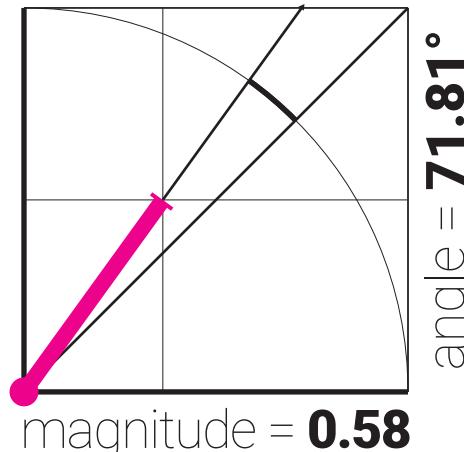
Emma Riordan
Jake Albracht

Los Angeles Data

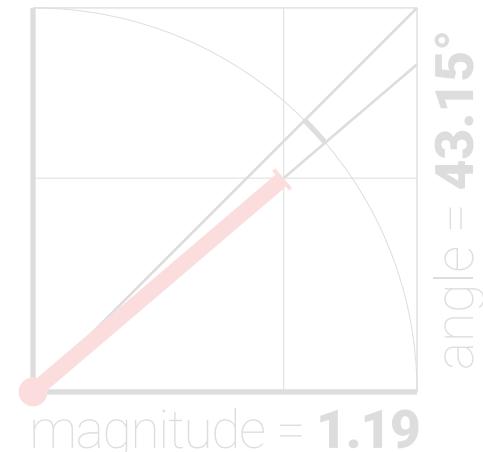
Trends and Highlighted Indicators for the change we think we'll see.



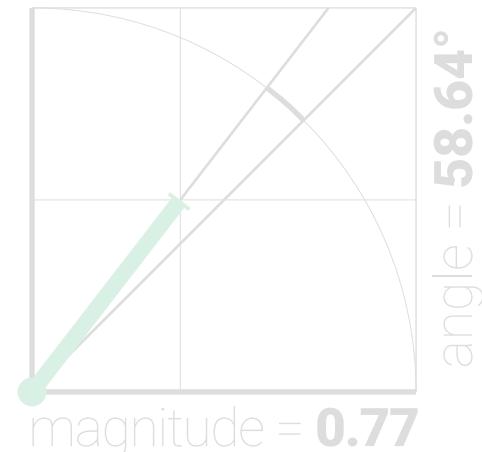
Transportation



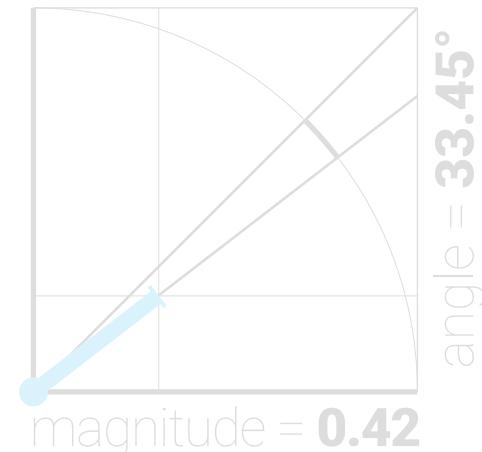
Events & Meeting People



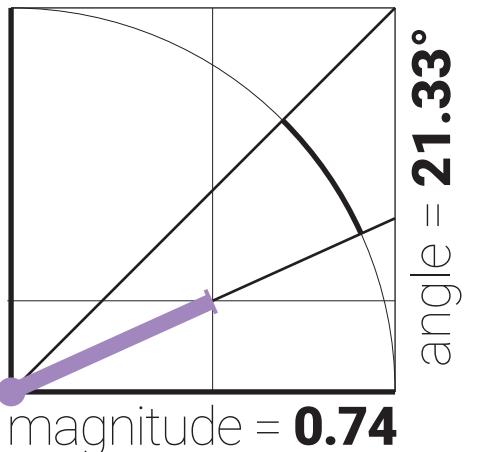
Exploring & Pursuing Interests



Density, Buildings, & Traffic



Community & Cultural Space



Cultural Shift

Los Angeles - Wilshire and La Brea



LA has six of the 10 most packed roadways in the country

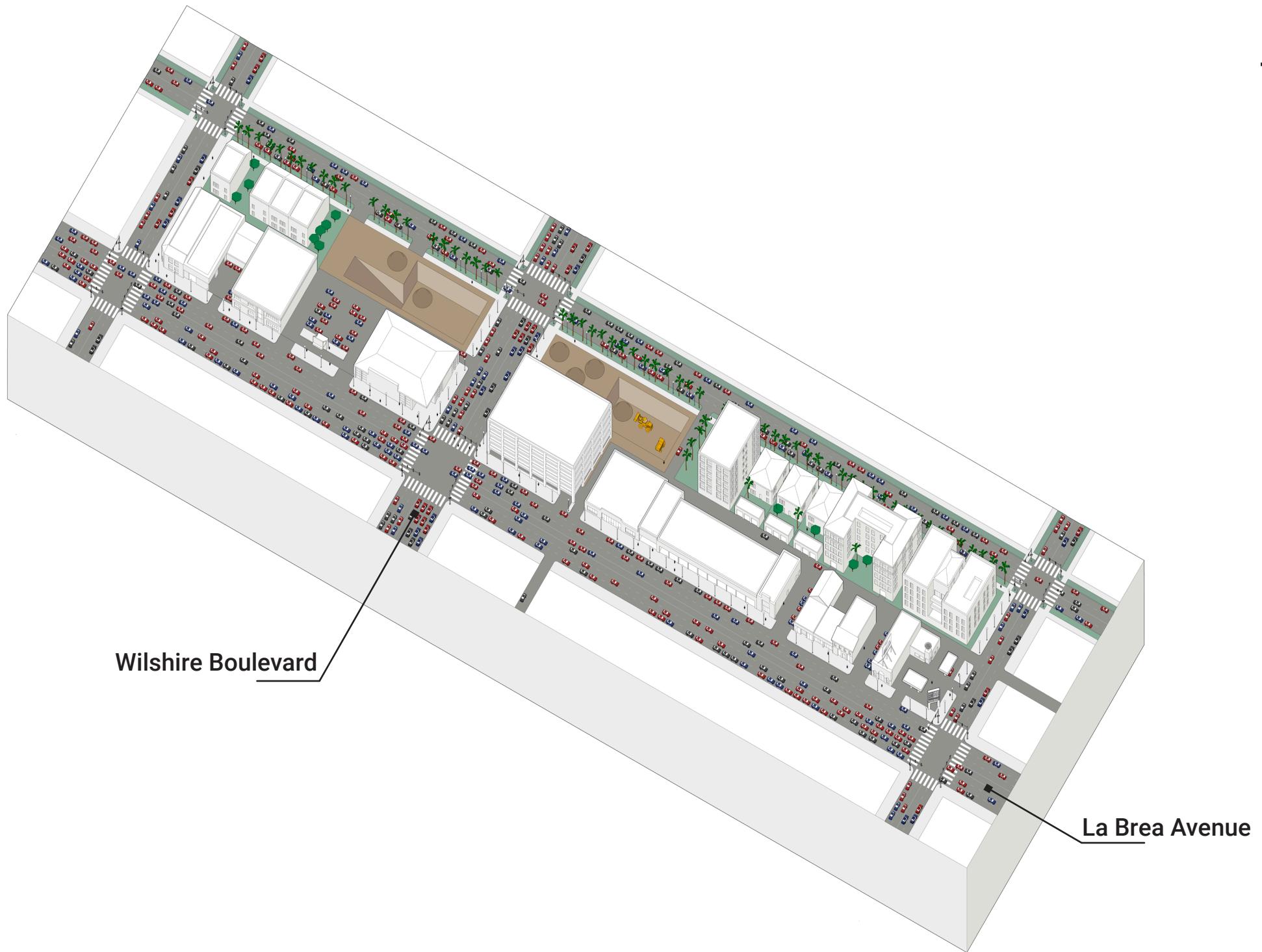
7.5 million retail jobs are at risk of automation in the next decade

Media culture is influencing Los Angeles street art

Our data reflects how LA's need for transportation advancements supersedes the necessity of a culture shift and its desire to return to analog

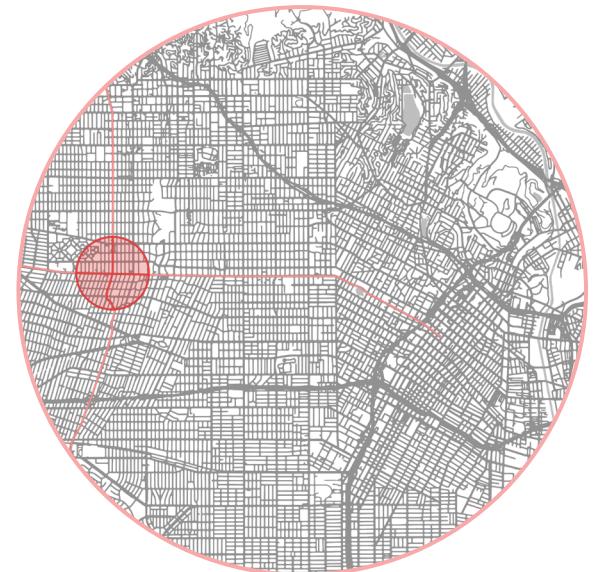
Present Conditions

Los Angeles - Wilshire and La Brea



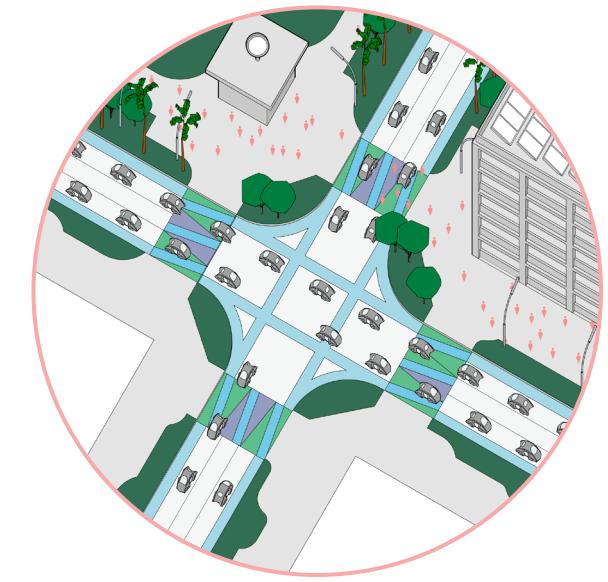
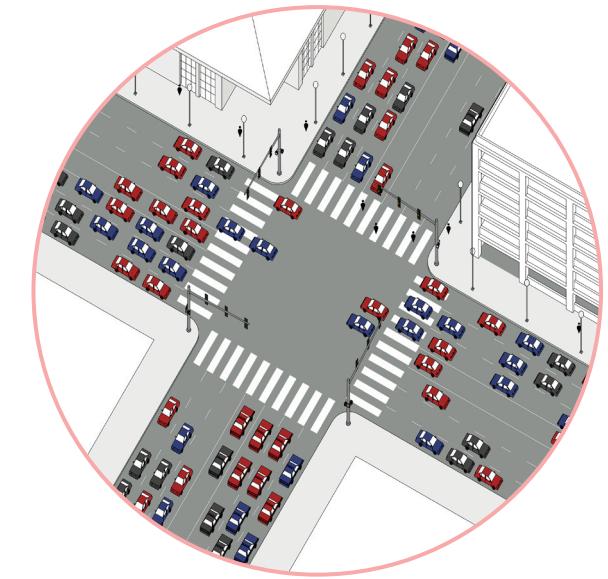
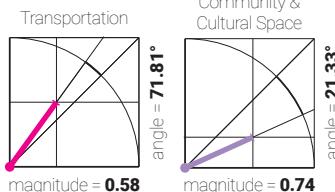
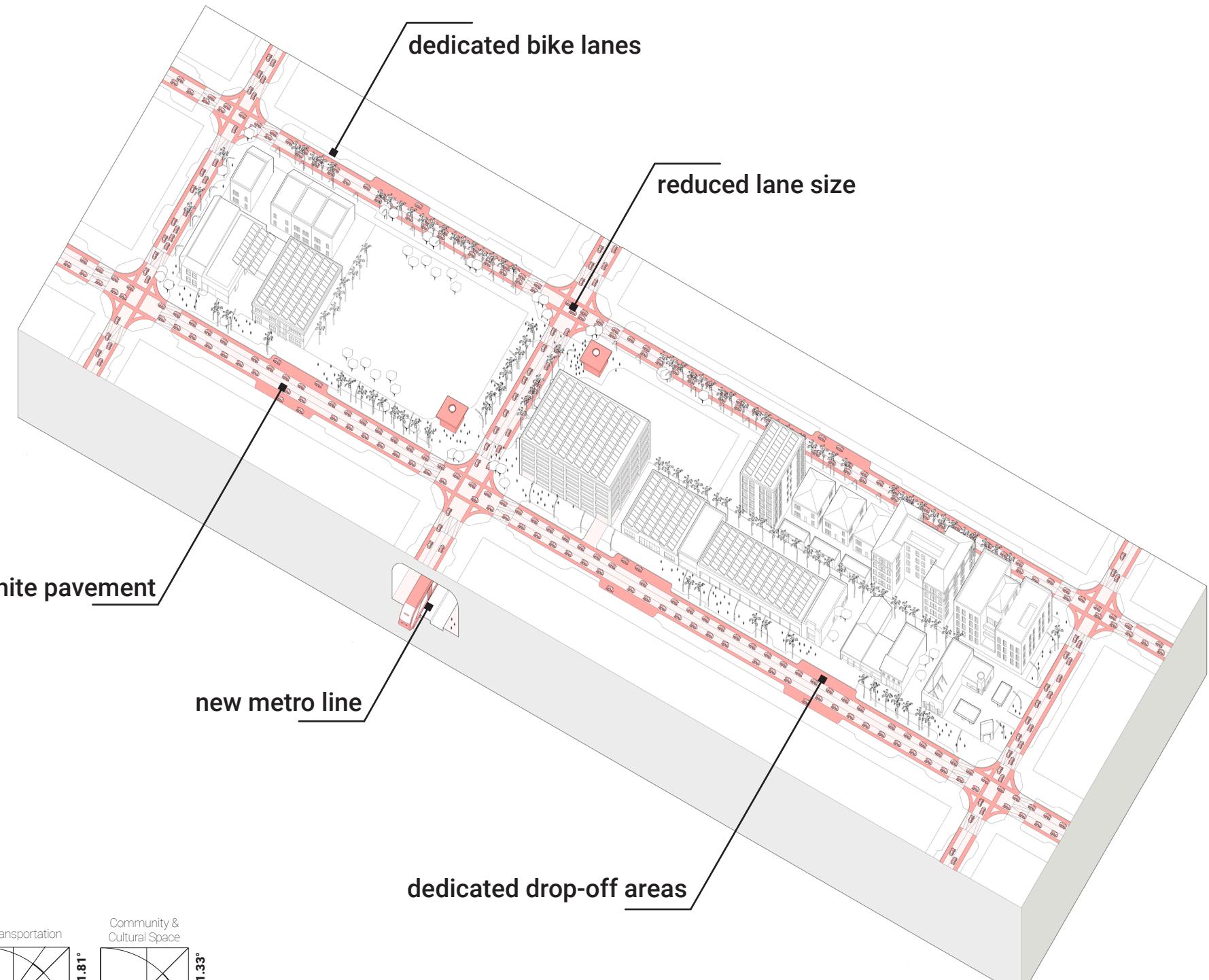
Wilshire Boulevard

La Brea Avenue



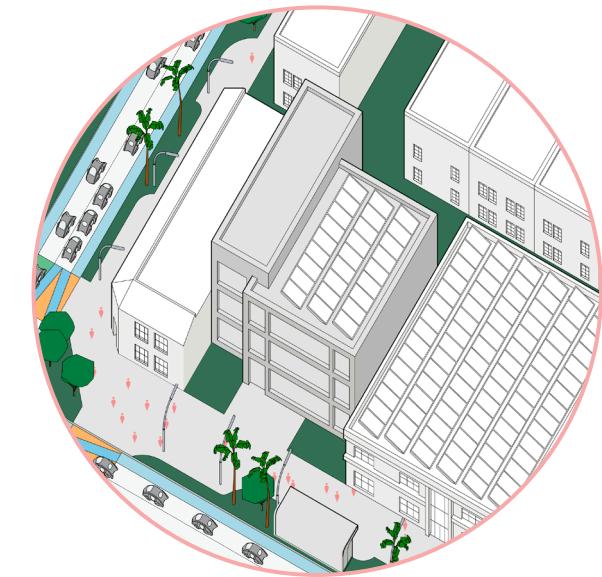
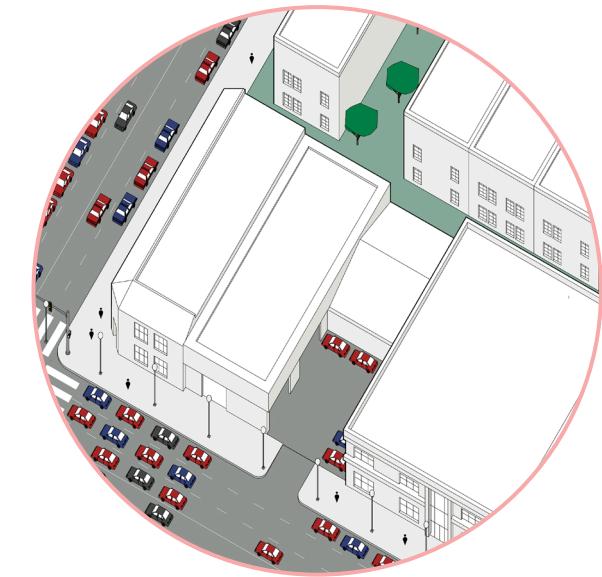
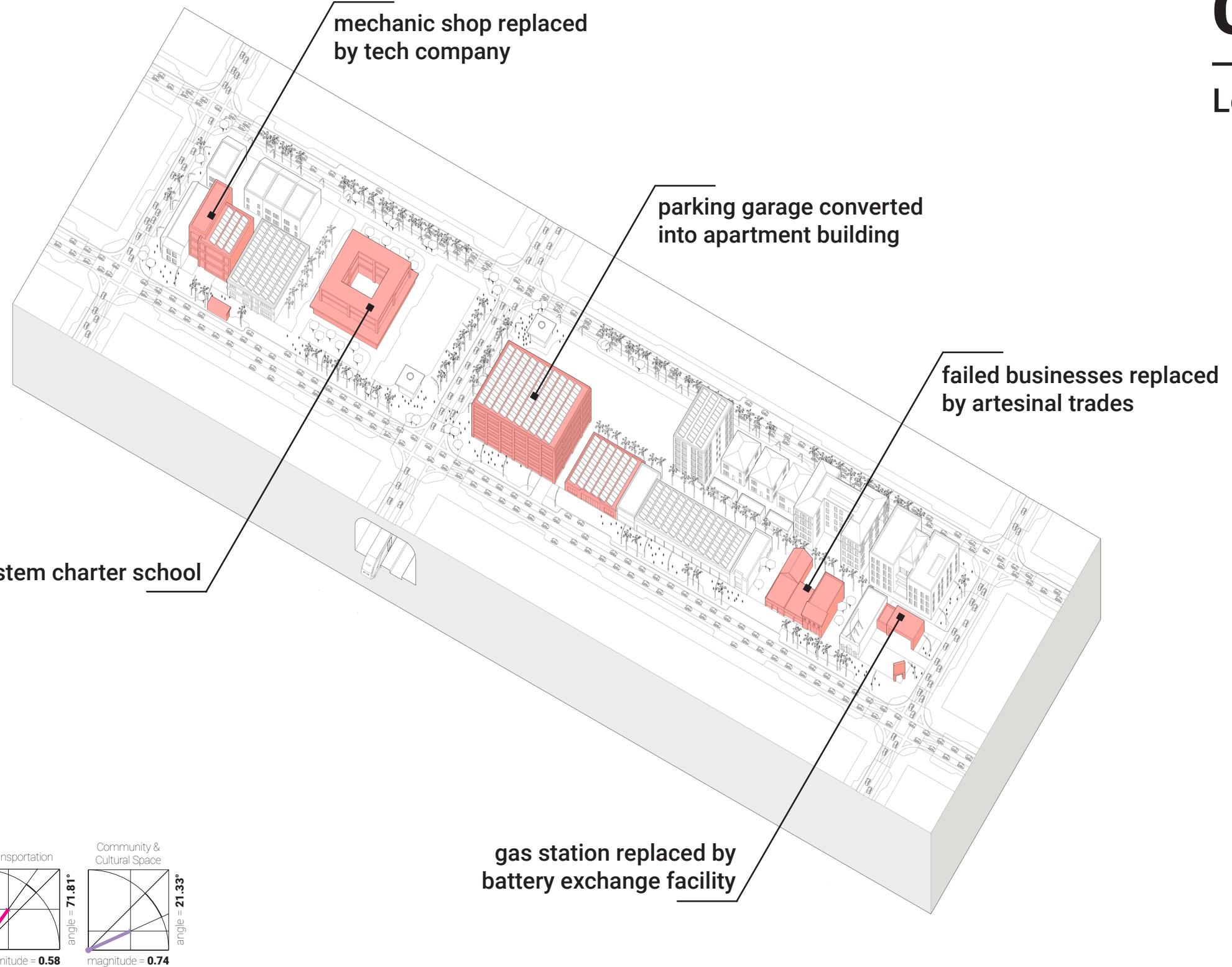
Transportation

Los Angeles - Wilshire and La Brea



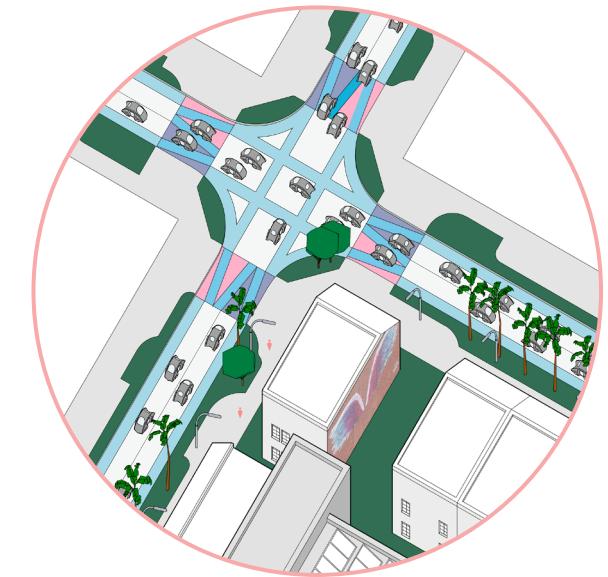
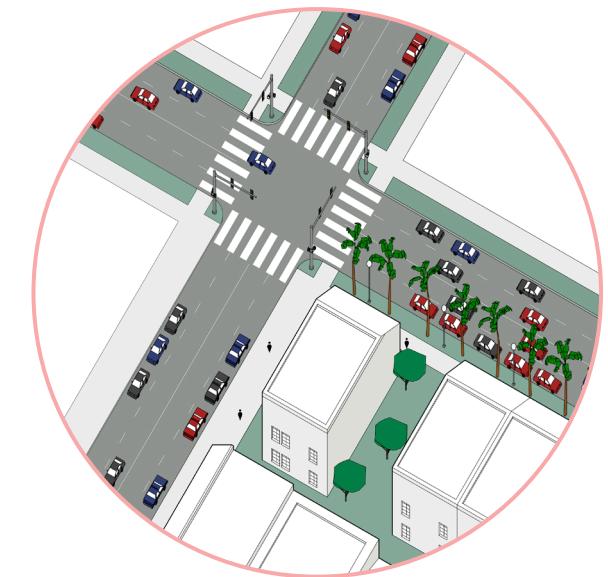
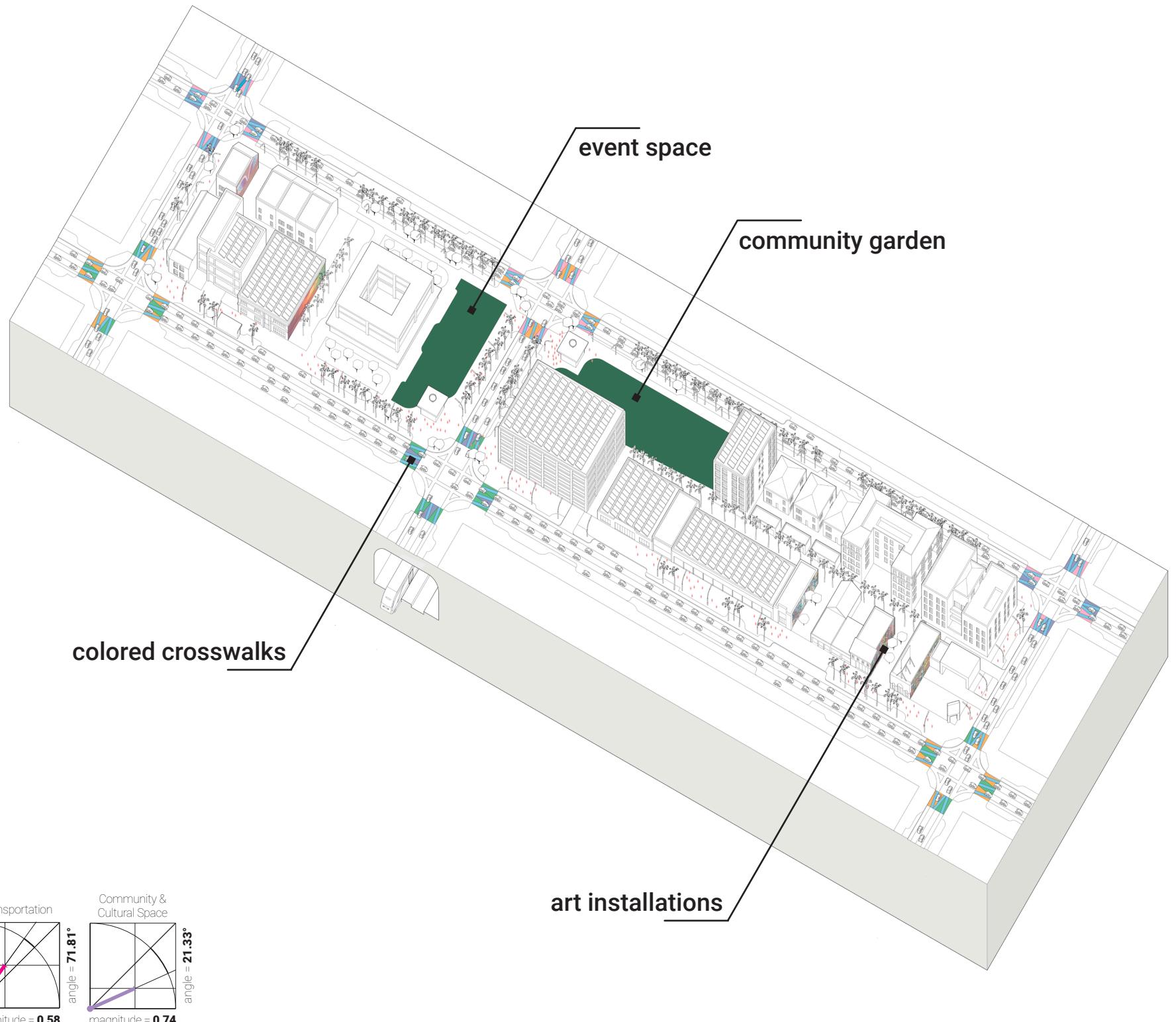
Community

Los Angeles - Wilshire and La Brea

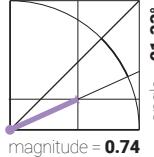
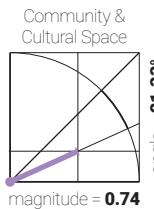
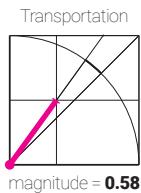
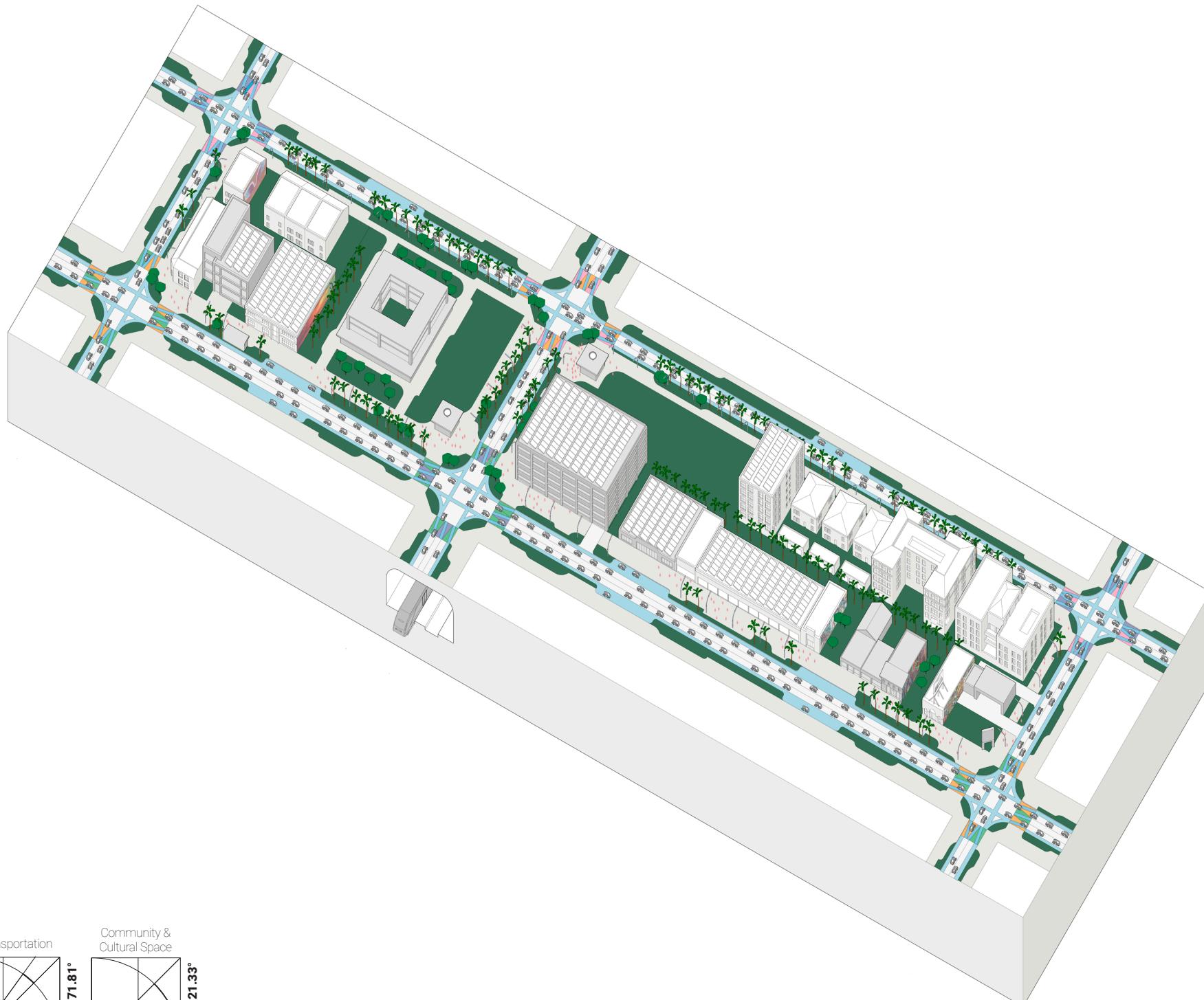


Culture

Los Angeles - Wilshire and La Brea



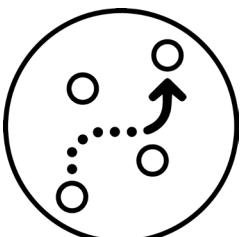
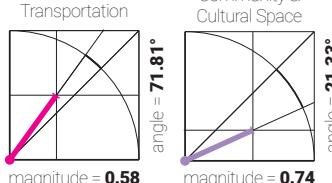
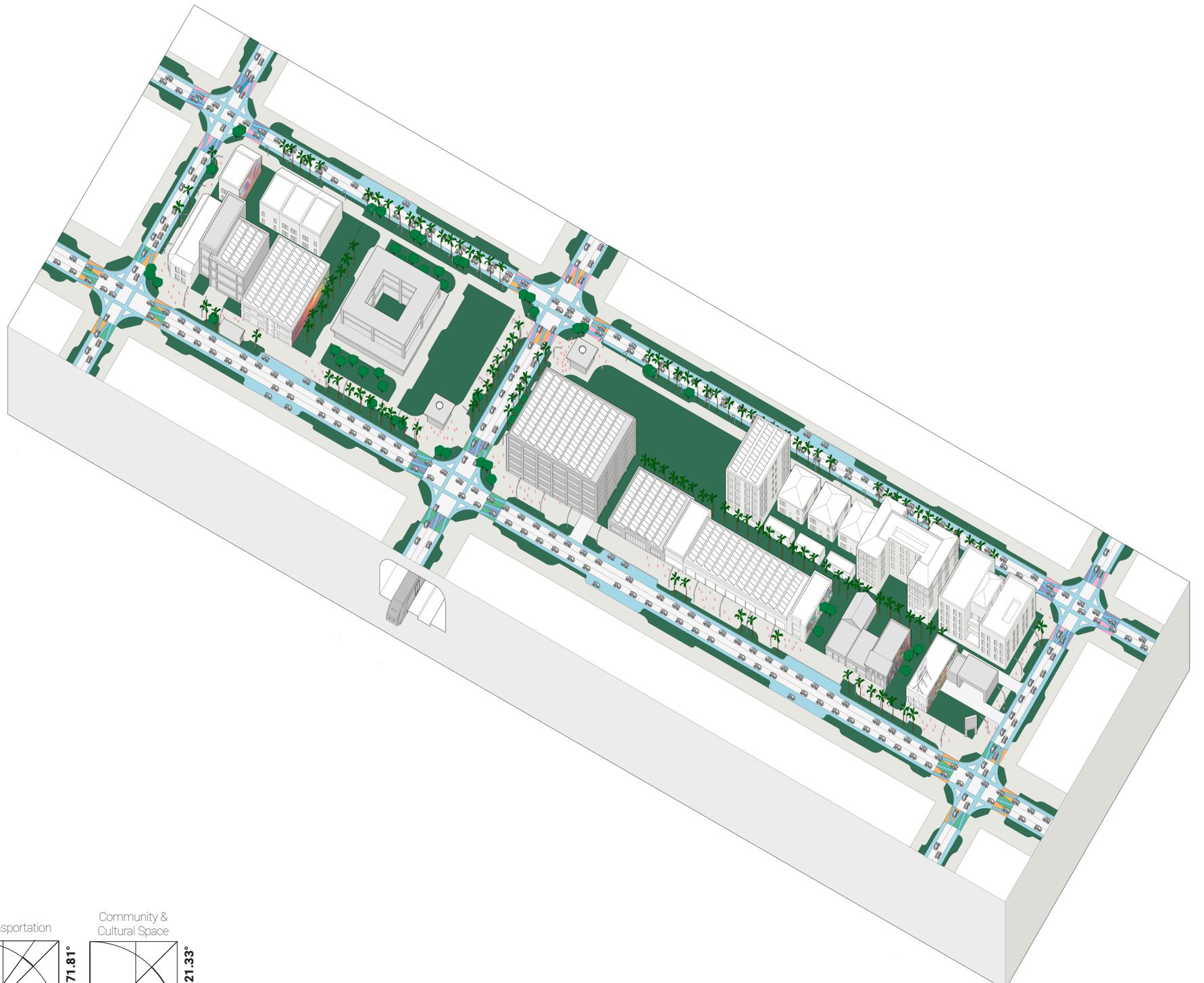
Future Conditions



angle = **21.33°**

Future Conditions

Los Angeles - Wilshire and La Brea



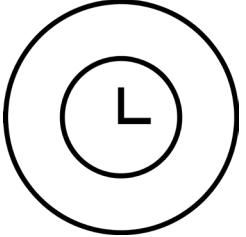
Public transportation and automated vehicles will decrease congestions and allow for smaller streets



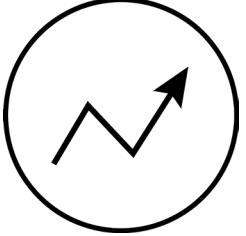
Widened sidewalks and new public areas will place focus on the human experience and scale



Increase in automated technologies will result in the decline in manual jobs and a shift business



To prepare for the shift in labor specialized charter schools will become standard



In response to advanced technology people will prioritize "natural" social activities

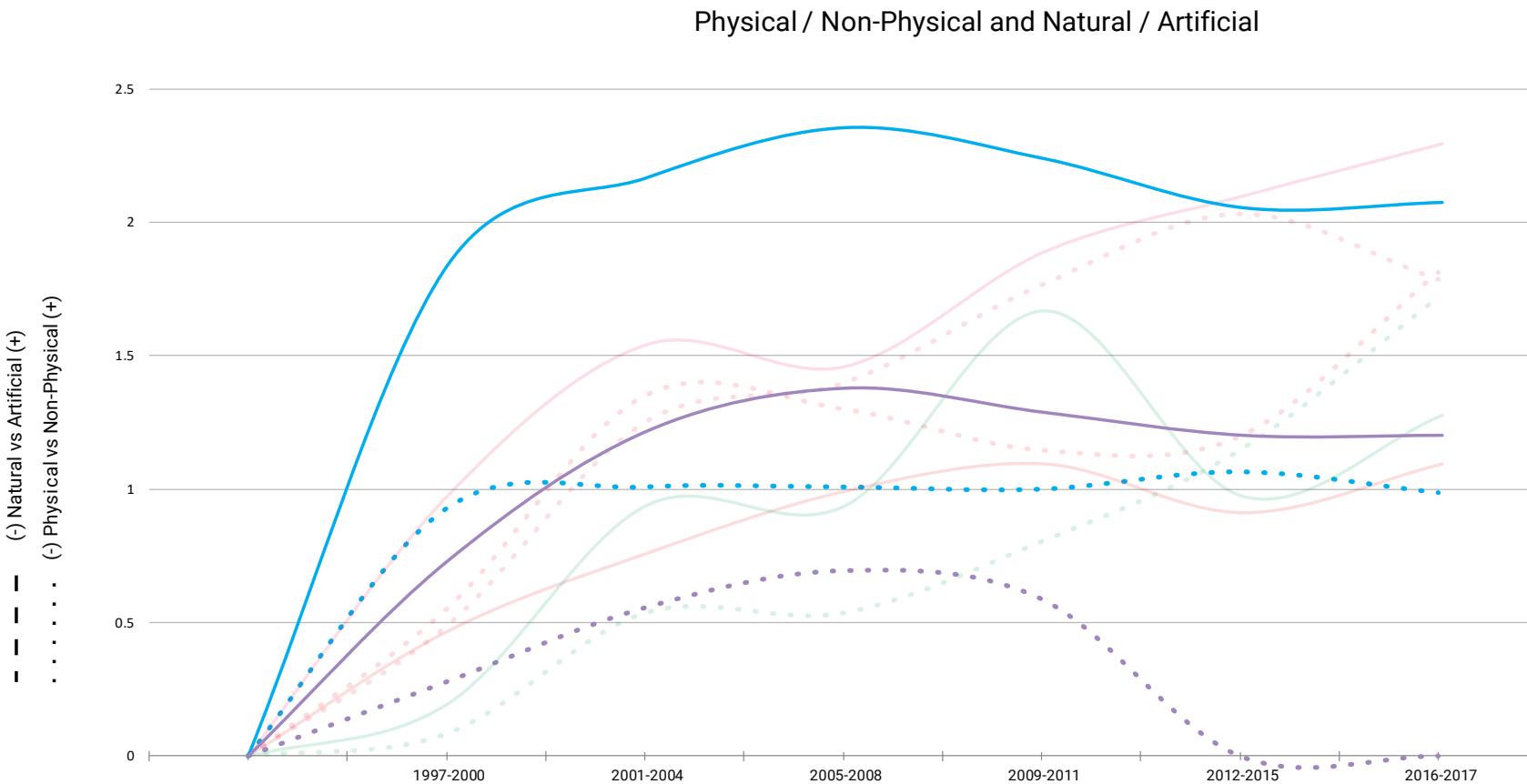
Chicago, IL



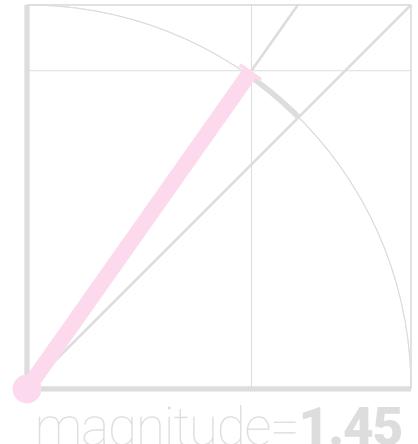
Maximiliano Cantu-Lima
Patrick Griffin

Chicago Data

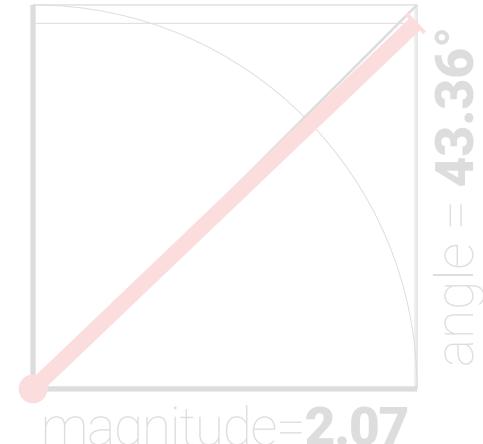
Trends and Highlighted Indicators for the change we thing we'll see.



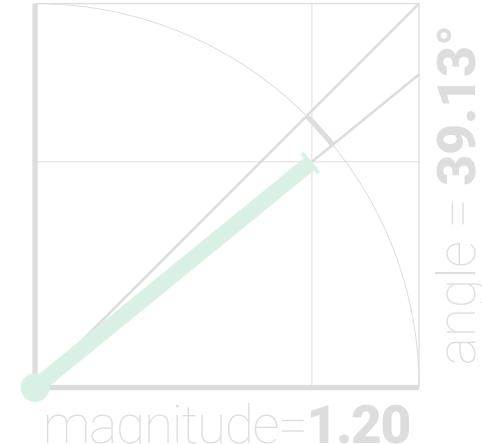
Transportation



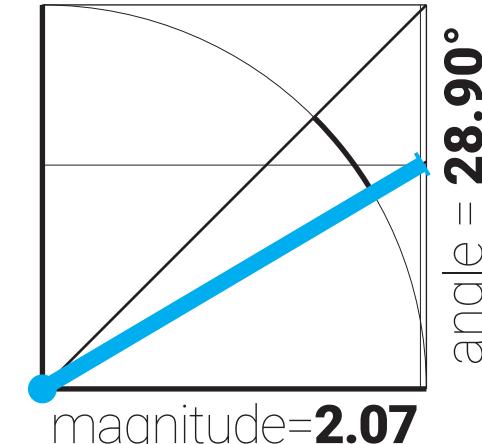
Events &
Meeting People



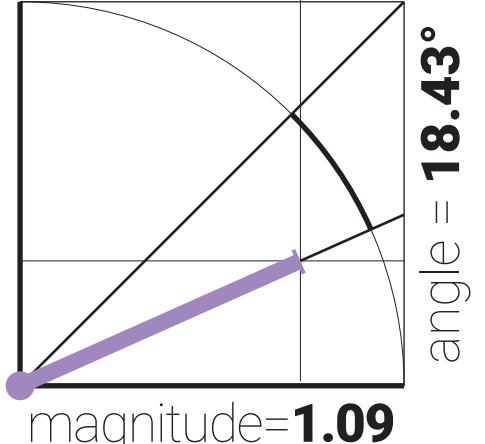
Exploring &
Pursuing Interests



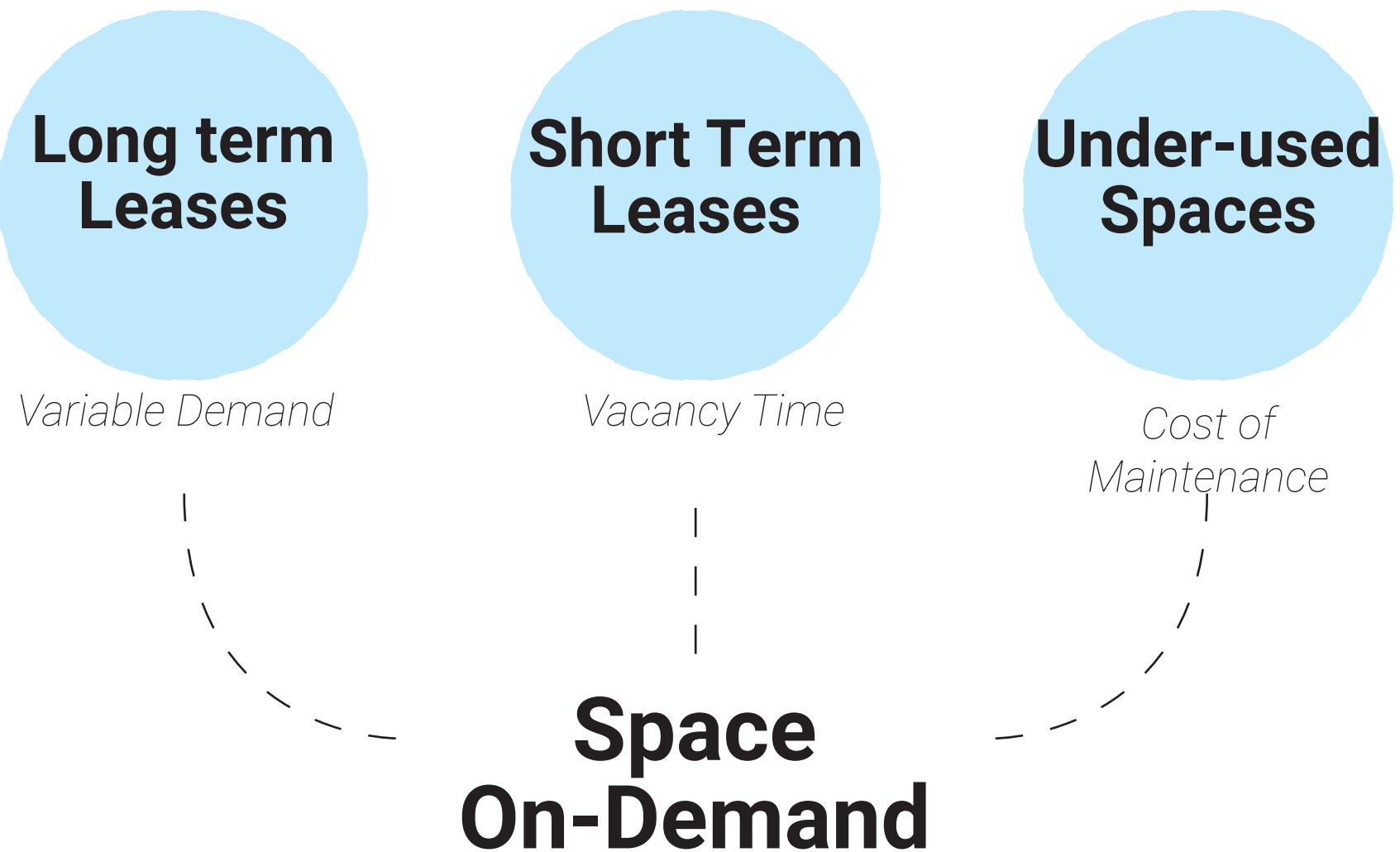
Density,
Buildings, & Traffic



Community &
Cultural Space



Sharing Economy



From our data we observed that Chicago is moving along the “artificial” axis, meaning our city is becoming more physically adaptive to citizen’s needs.

- *The sharing economy is estimated to grow from \$14 billion in 2014 to \$335 billion by 2025.*
- *Private vehicles go unused 95% of their lifetime*
- *Air BnB plans to build 2,000 Airbnb branded units over the next two years.*

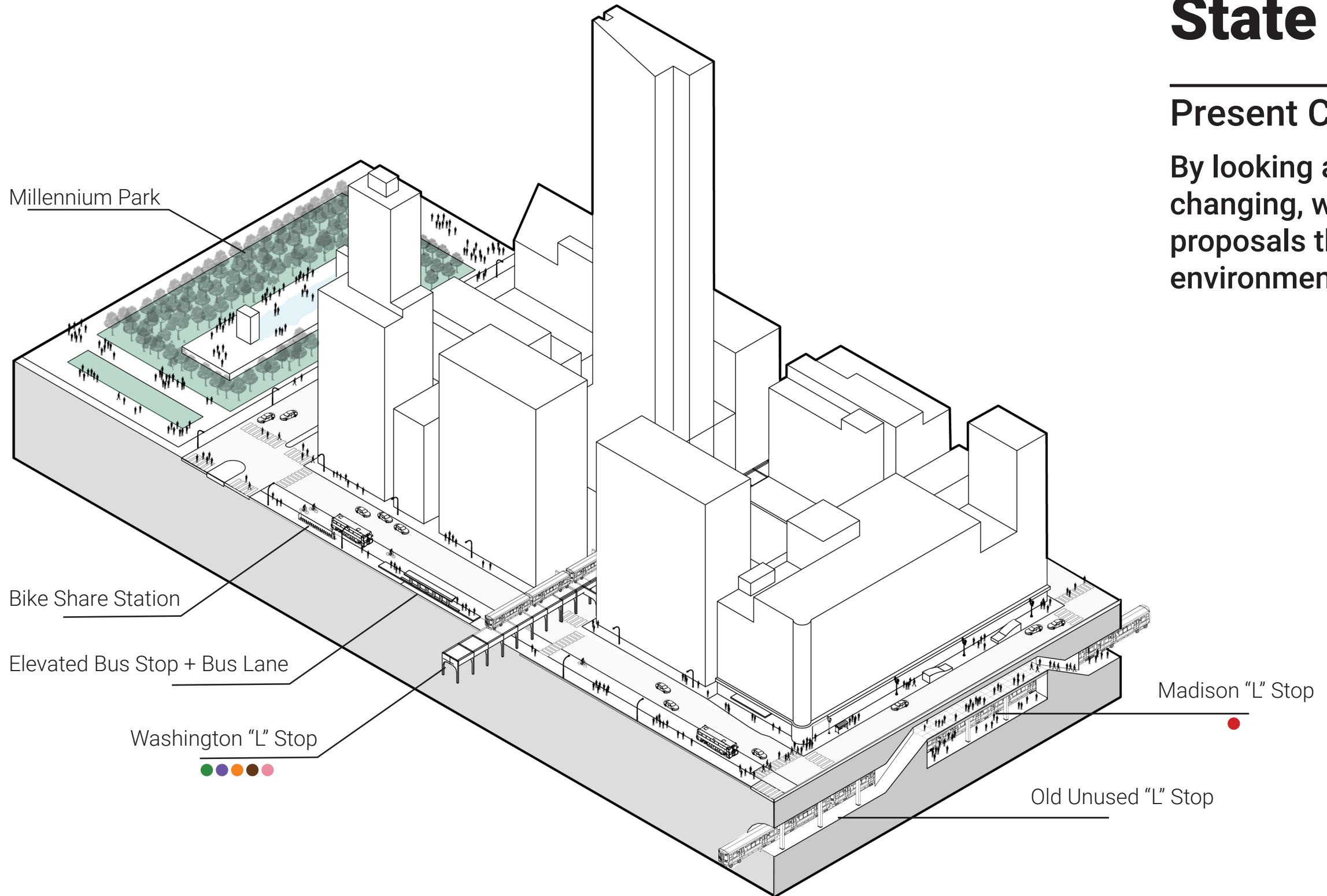
Reducing the number of needed spaces by utilizing the already existing spaces.

Resources and spaces are rented on an as needed basis, leading to more efficient use.

State + Madison

Present Conditions

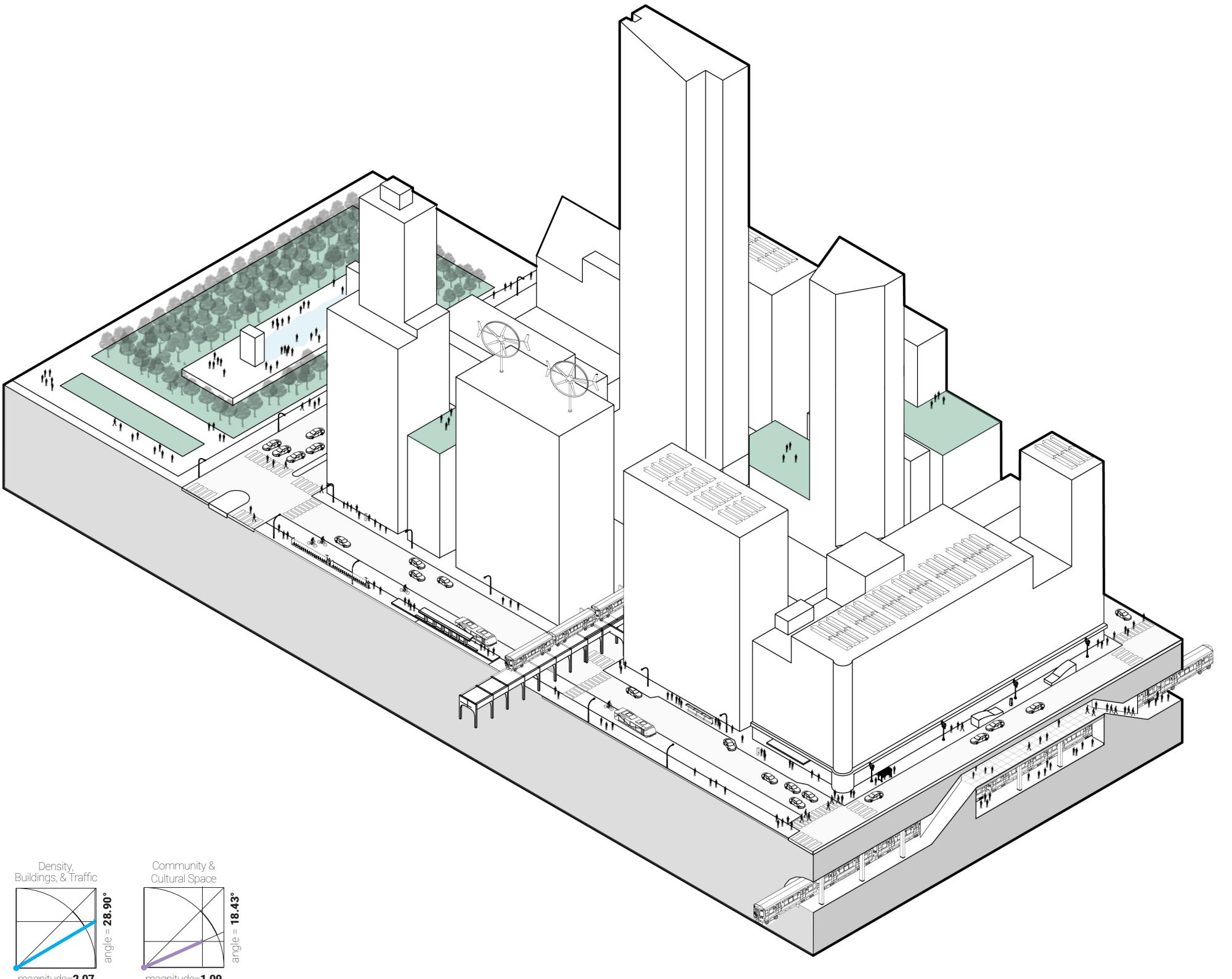
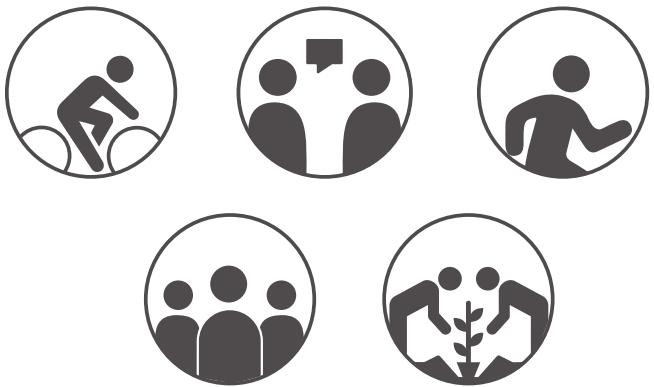
By looking at how “ownership” is changing, we have established proposals that affect the built environment at all five scales.



State + Madison

Future Conditions

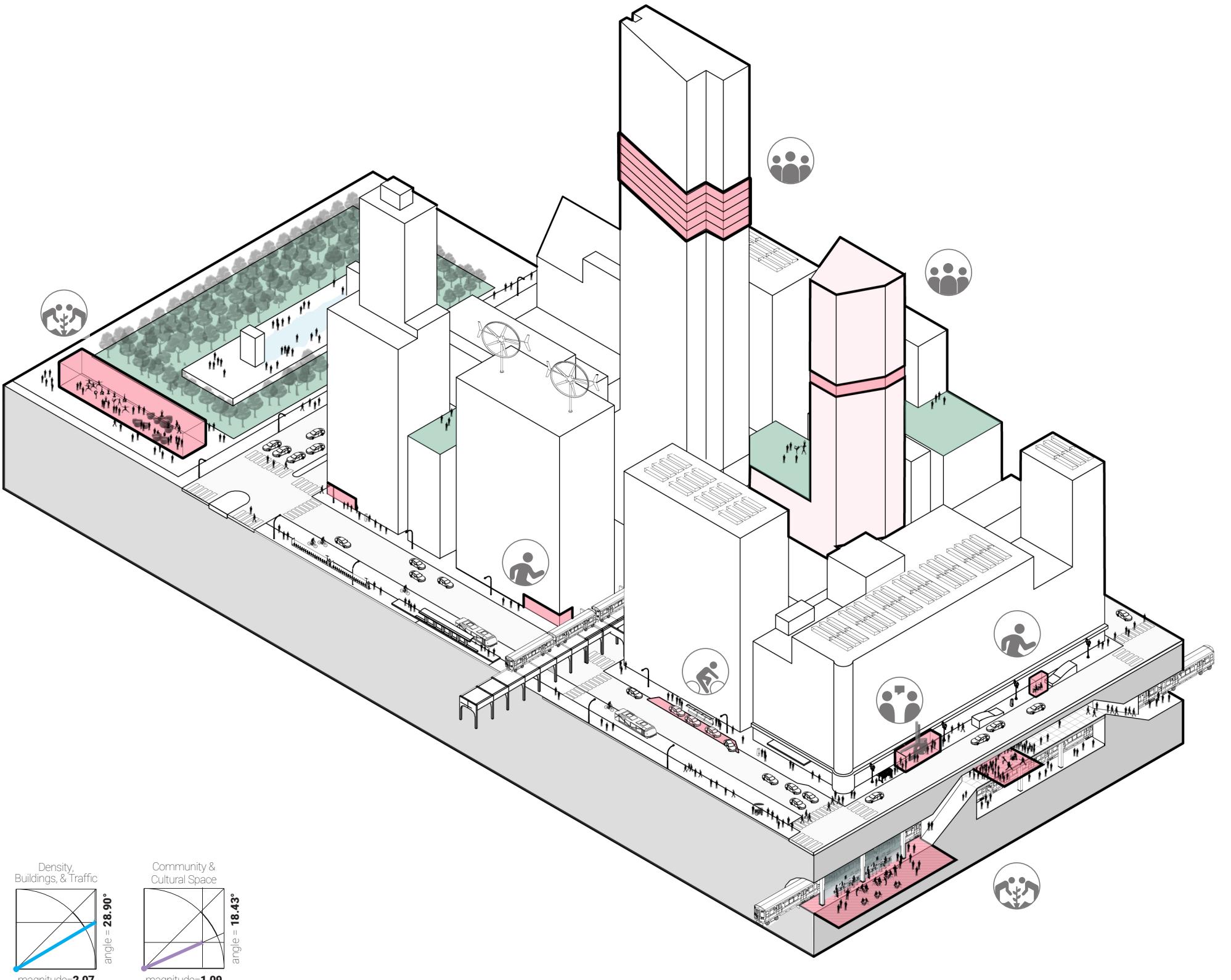
By looking at how “ownership” is changing, we have established proposals that affect the built environment at all five scales.



State + Madison

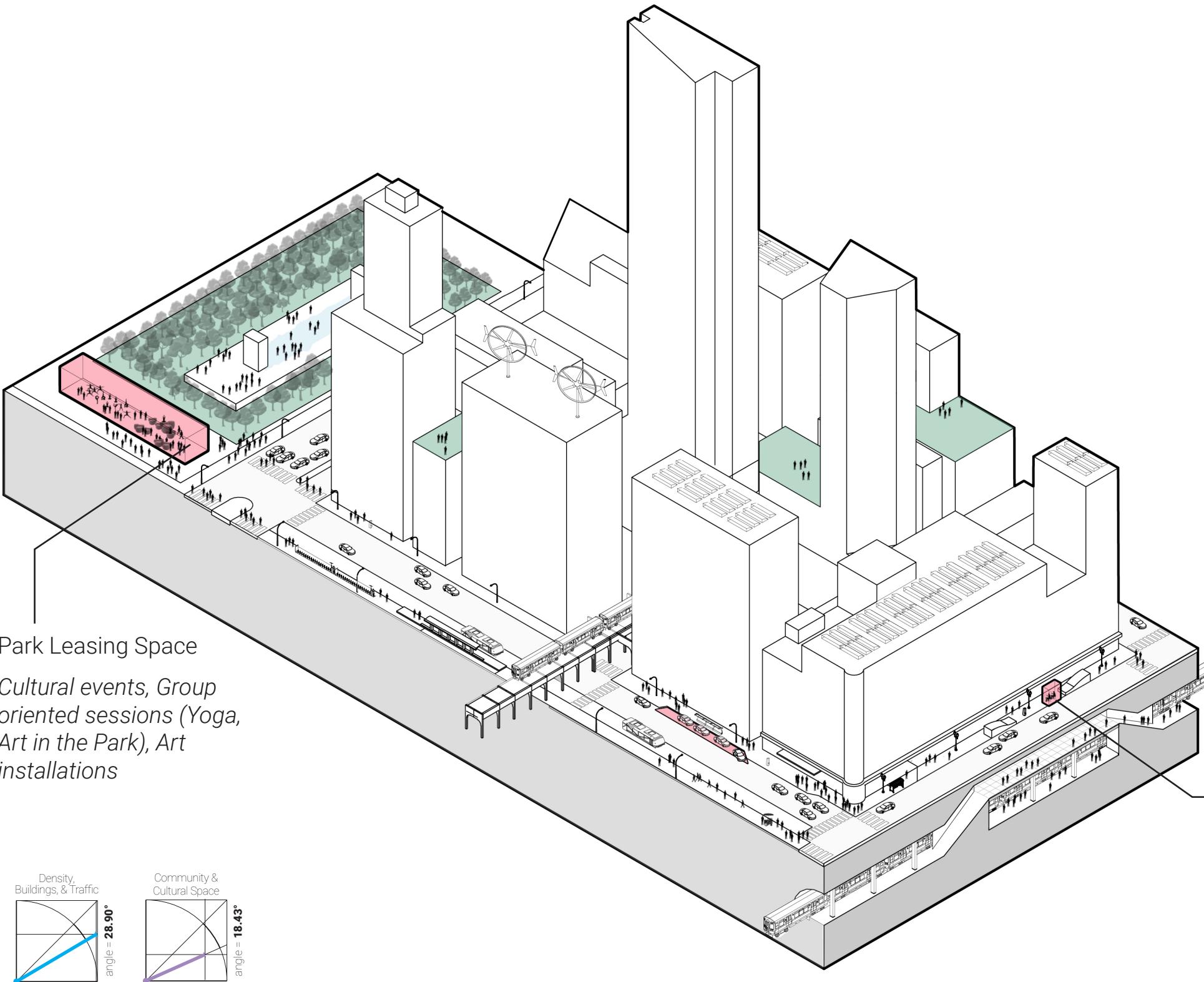
A Vision of On-Demand Space

Need for space dictates usage and duration, maximizing efficiency.



State + Madison

A Vision of On-Demand Space

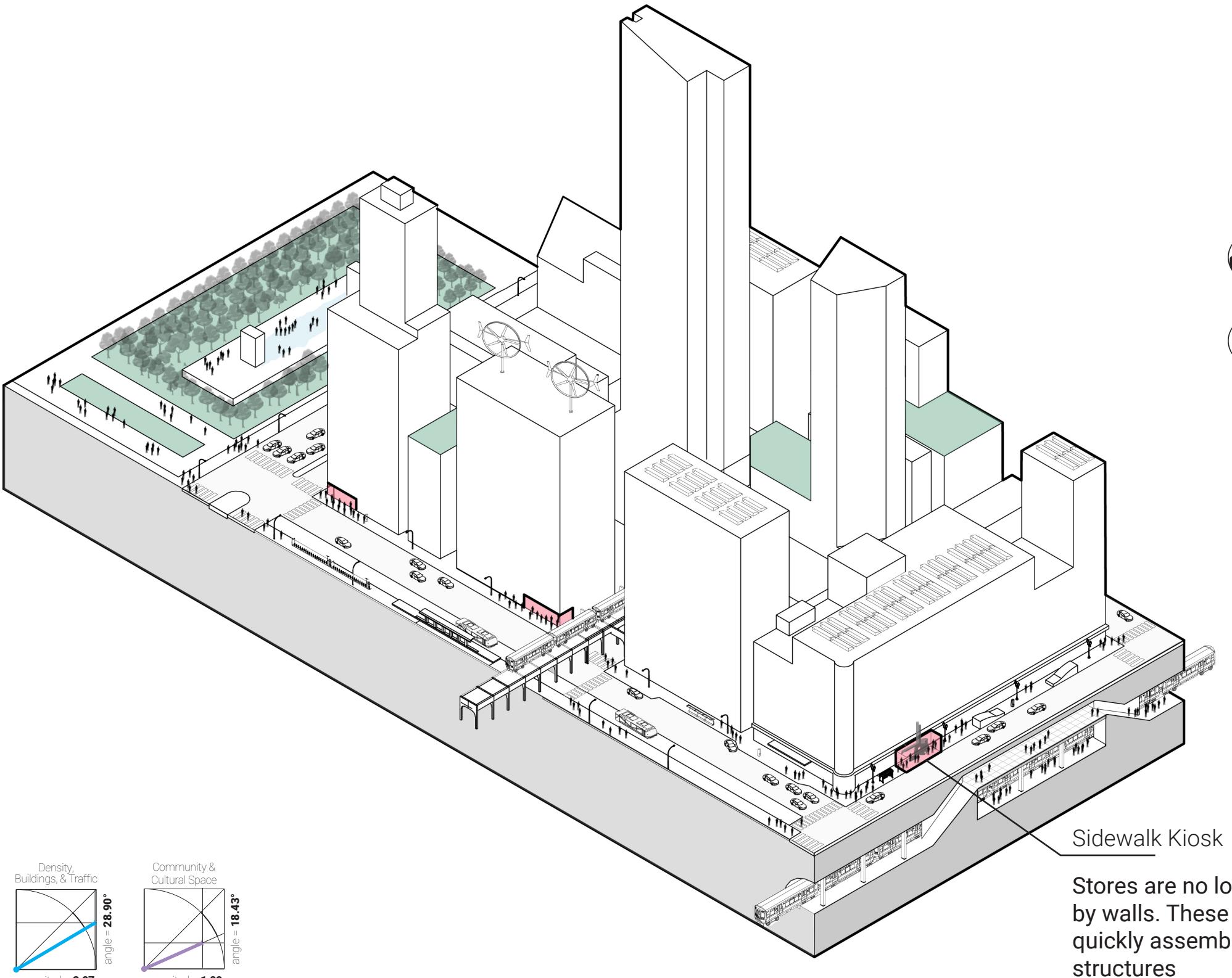


Leasing Event Space

Utilizes parks and vacant spaces to provide a platform for activity and community to thrive.

State + Madison

A Vision of On-Demand Space



Leasing Event Space

Pop-up Stores

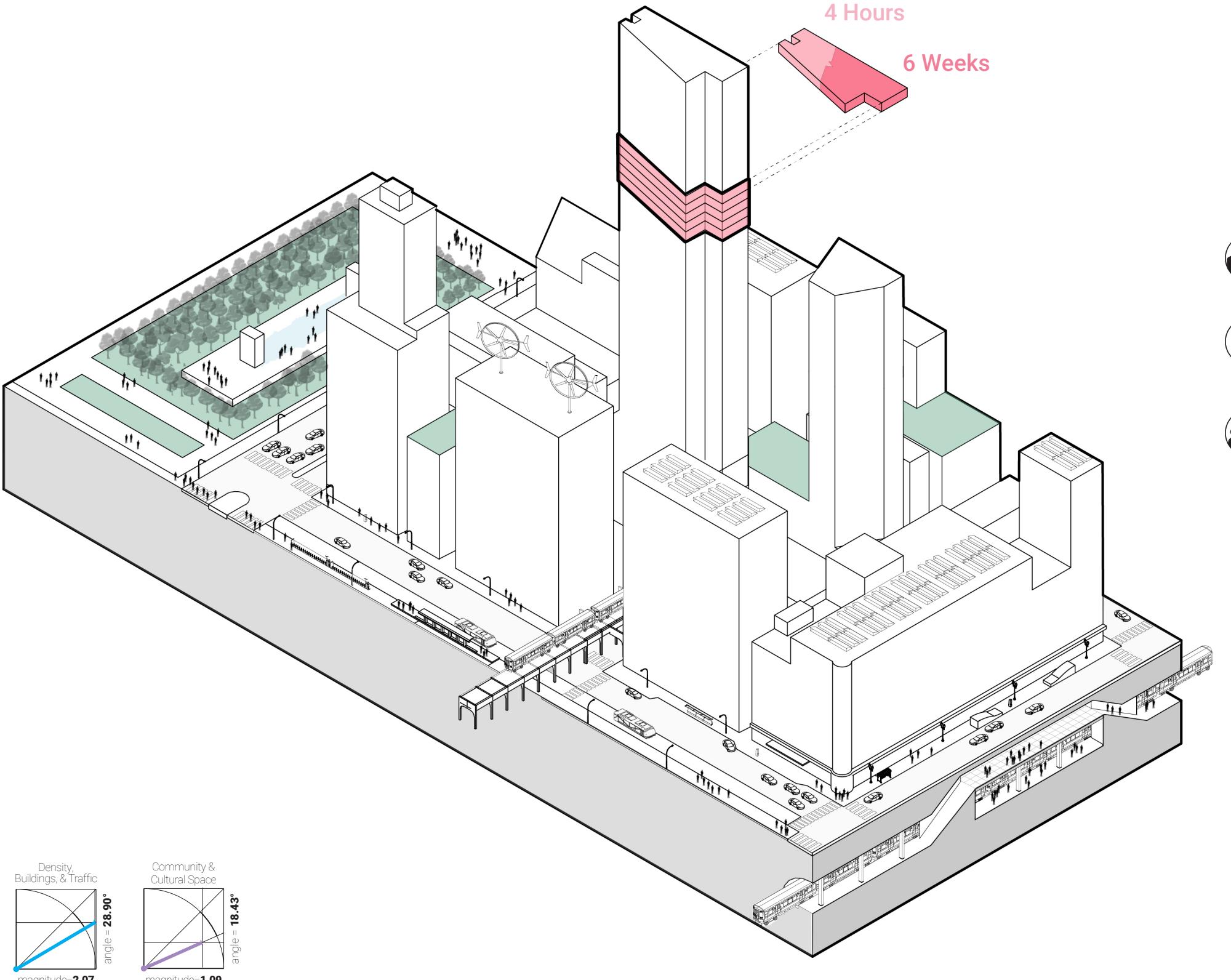
Provides an opportunity for start up, local, or online based companies to establish a physical location for temporary use.

State + Madison

A Vision of On-Demand Space

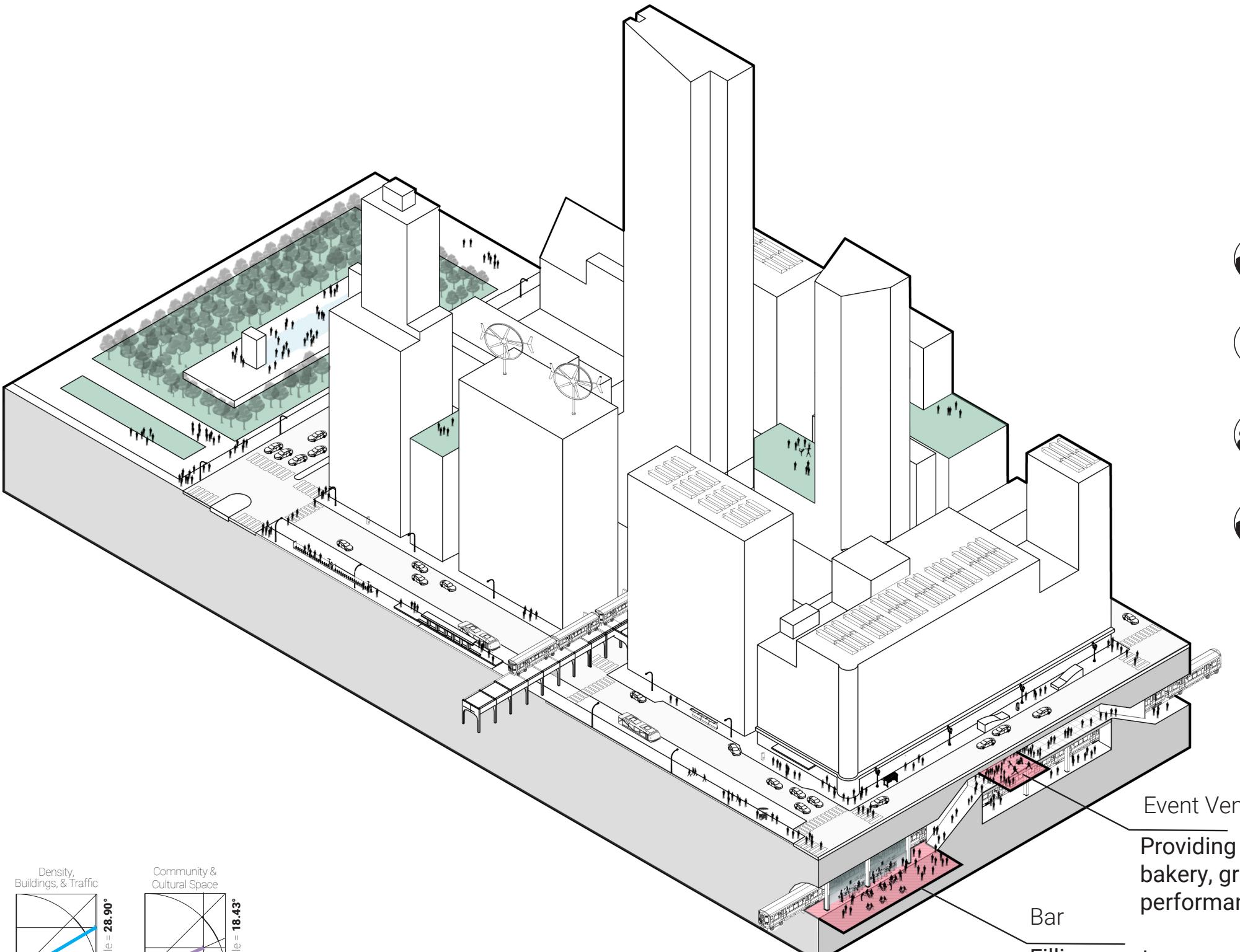
-  **Leasing Event Space**
-  **Pop-up Stores**
-  **Office Floor**

These floor rentals could provide work spaces for a few hours or for a few months that include the amenities offices need to be productive.



State + Madison

A Vision of On-Demand Space



-  **Leasing Event Space**
-  **Pop-up Stores**
-  **Office Floor**
-  **Retrofitting**

Re-purposing infrastructure and institutions to provide new opportunities in the city.

Event Venue

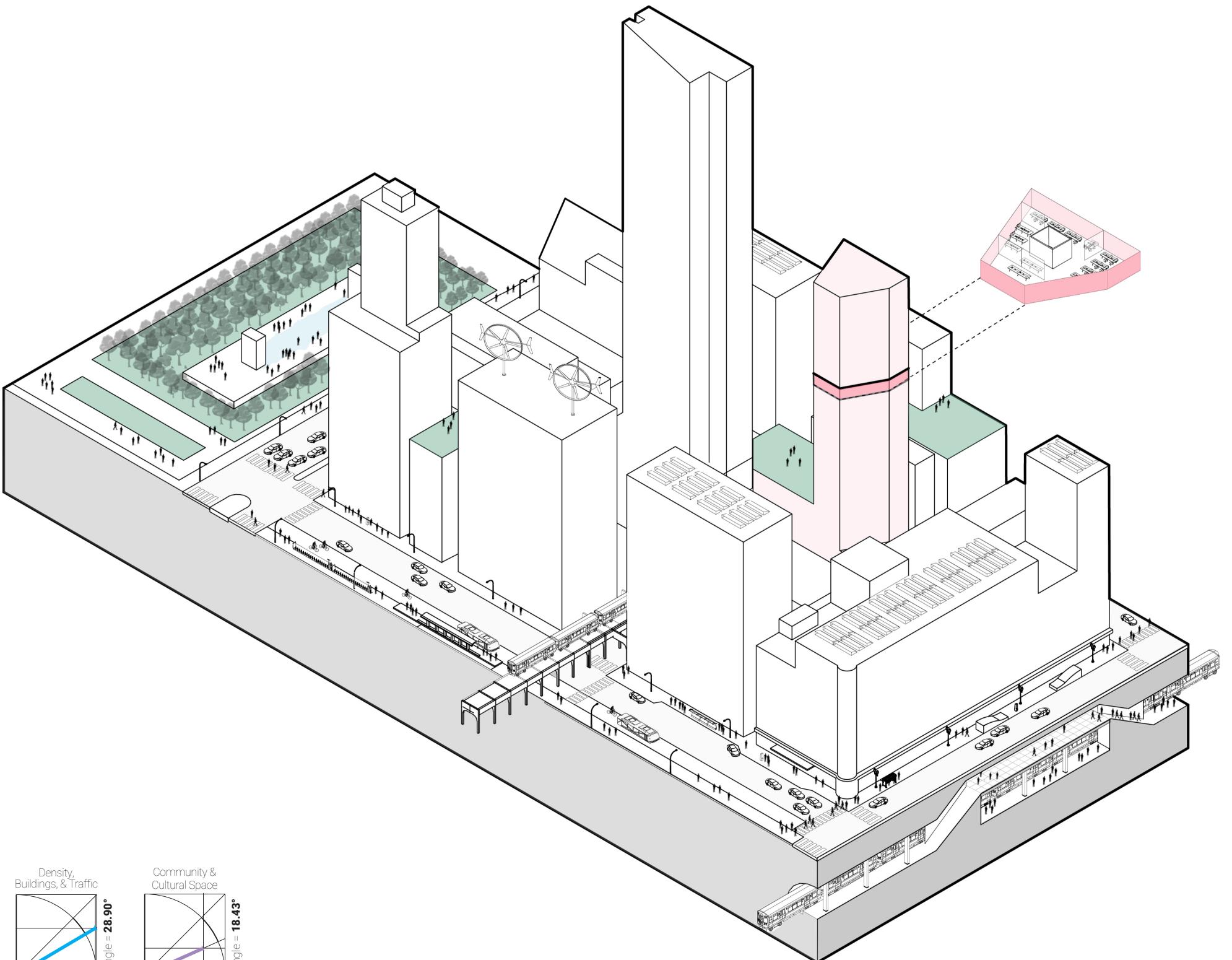
Providing room for unique popup
bakery, grocery, or maybe a venue for
performances

Bar

Filling empty spaces with interesting
business locations.

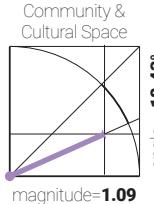
State + Madison

A Vision of On-Demand Space



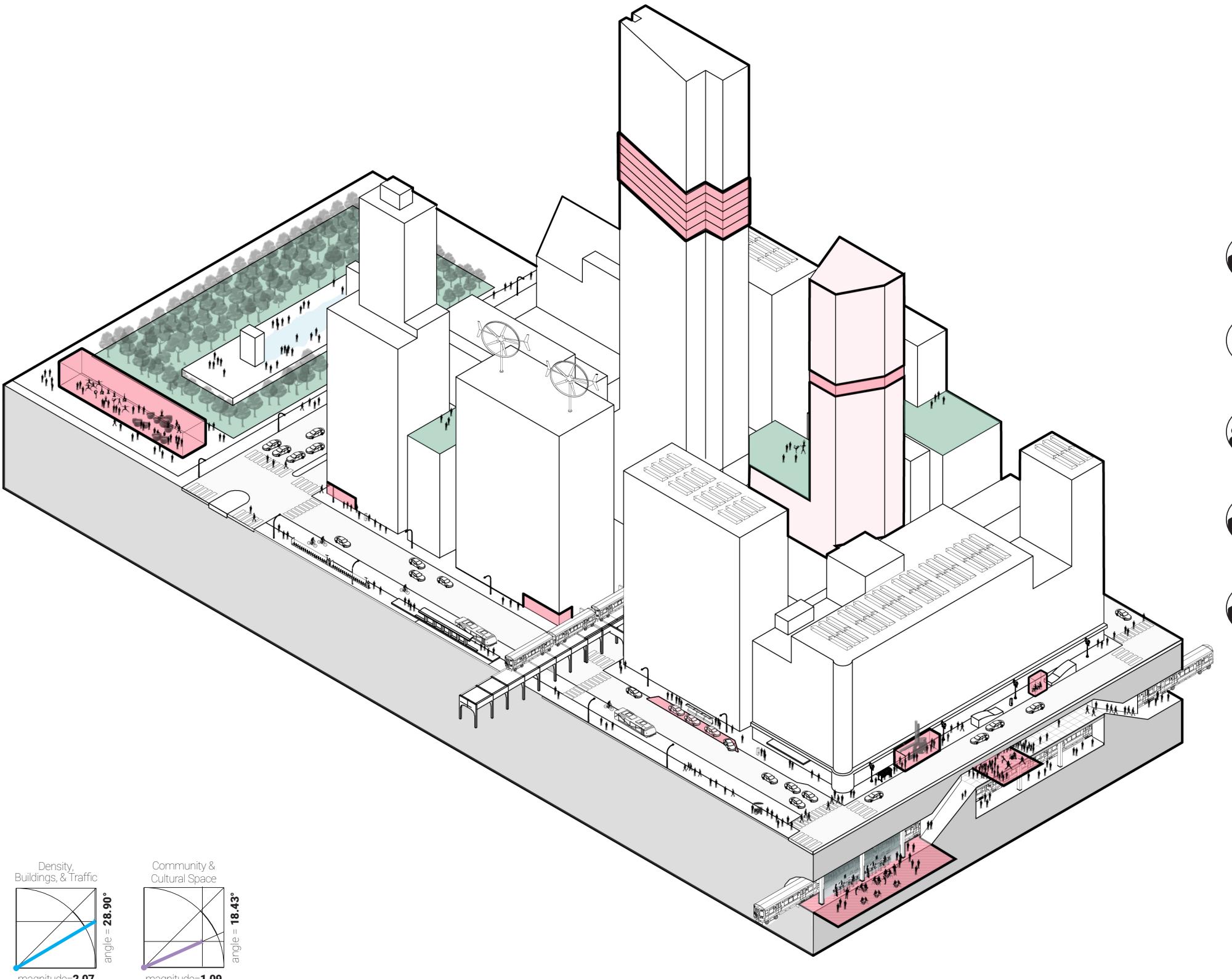
-  **Leasing Event Space**
-  **Pop-up Stores**
-  **Office Floor**
-  **Retrofitting**
-  **New Buildings**

*Construction that prioritize flexibility
that could easily be adapted to fit
specific needs or rotating function.*



State + Madison

A Vision of On-Demand Space



- Leasing Event Space
- Pop-up Stores
- Office Floor
- Retrofitting
- New Buildings

The city as a modifiable set of units ready to be rearranged and plugged into under utilized spaces based on the need of the user.

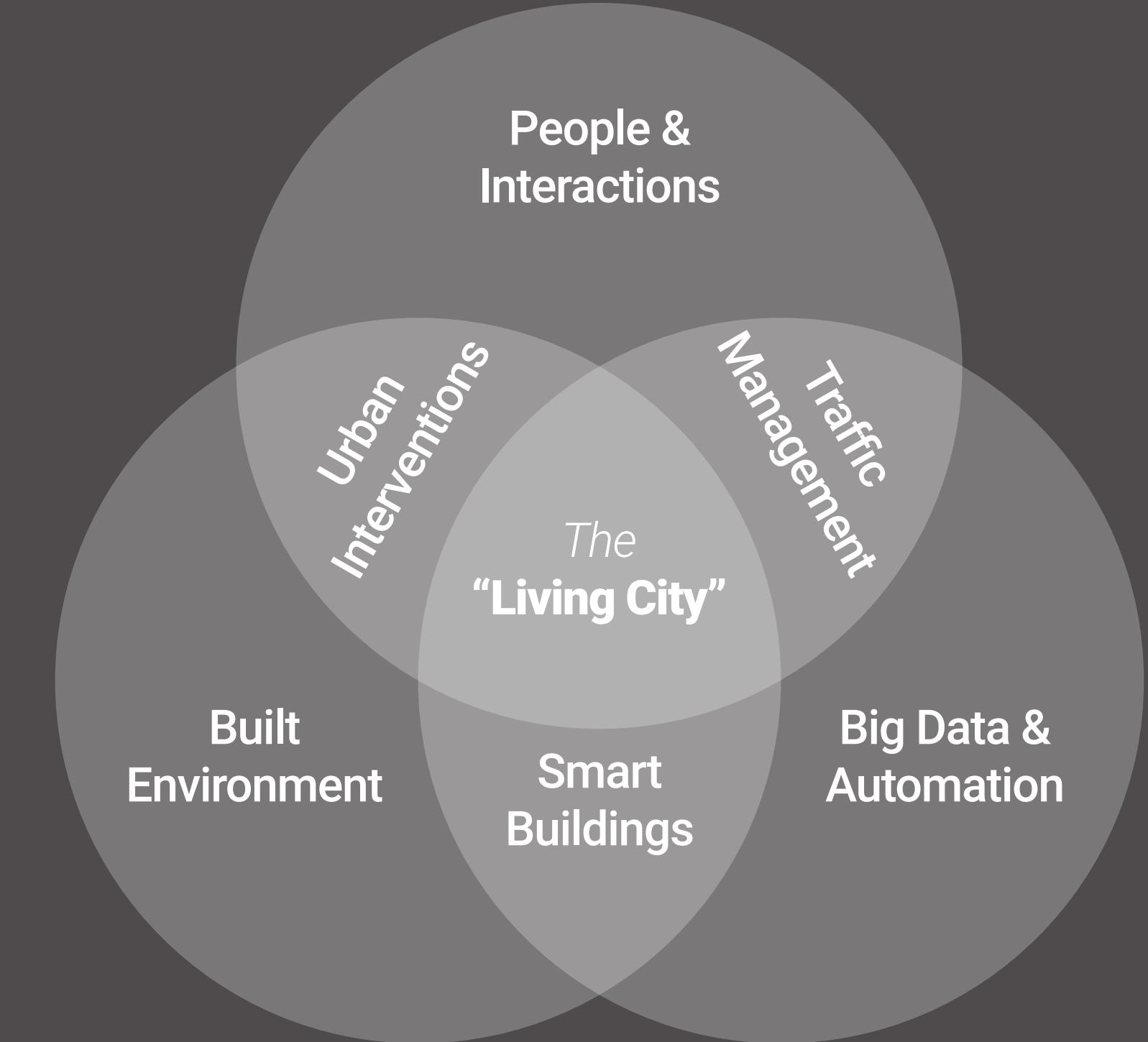
What we Learned

How did the exercise of visualizing these changes re-define our inquiry?

A Changing Context

The world is changing, so are our interactions and cultures

- **People & Interactions**
The intangible social and emotional component of human experience
- **Big Data & Automation**
The continual improvement of processing and analytics technologies
- **Built Environment**
Our developed habitat and tools that we use on a daily basis



The “Living City”

The point at which a city is alive, adaptive, and responsive to changes in real-time.

The “Living City”

The collective response of a people to
collaborate and change their environment

**If cities are a byproduct of human
interaction, all cities are already
responsive and organically alive.**

The change we're seeing is not
how the environment responds, it's
how **fast** the environment responds.

*As technology becomes more and more prevalent
and continues to permeate seemingly every aspect
of our lives, it's critical that we understand its
potential to augment our built environment...*

and enhance the connections that occur within it.

**Hopefully, these questions and
method challenged your ideas about
cities and the future of urban space.**

Thank you for joining us.

Gensler | Chicago | Denver | LA

GastingerWalker& | Kansas City

University of Kansas CO-OP 2017