



ADDRESSING THE SOCIAL DRIVERS OF HEALTH **ADVANCES EQUITY**

The Intersection of SDOH & HLN

March 20, 2024

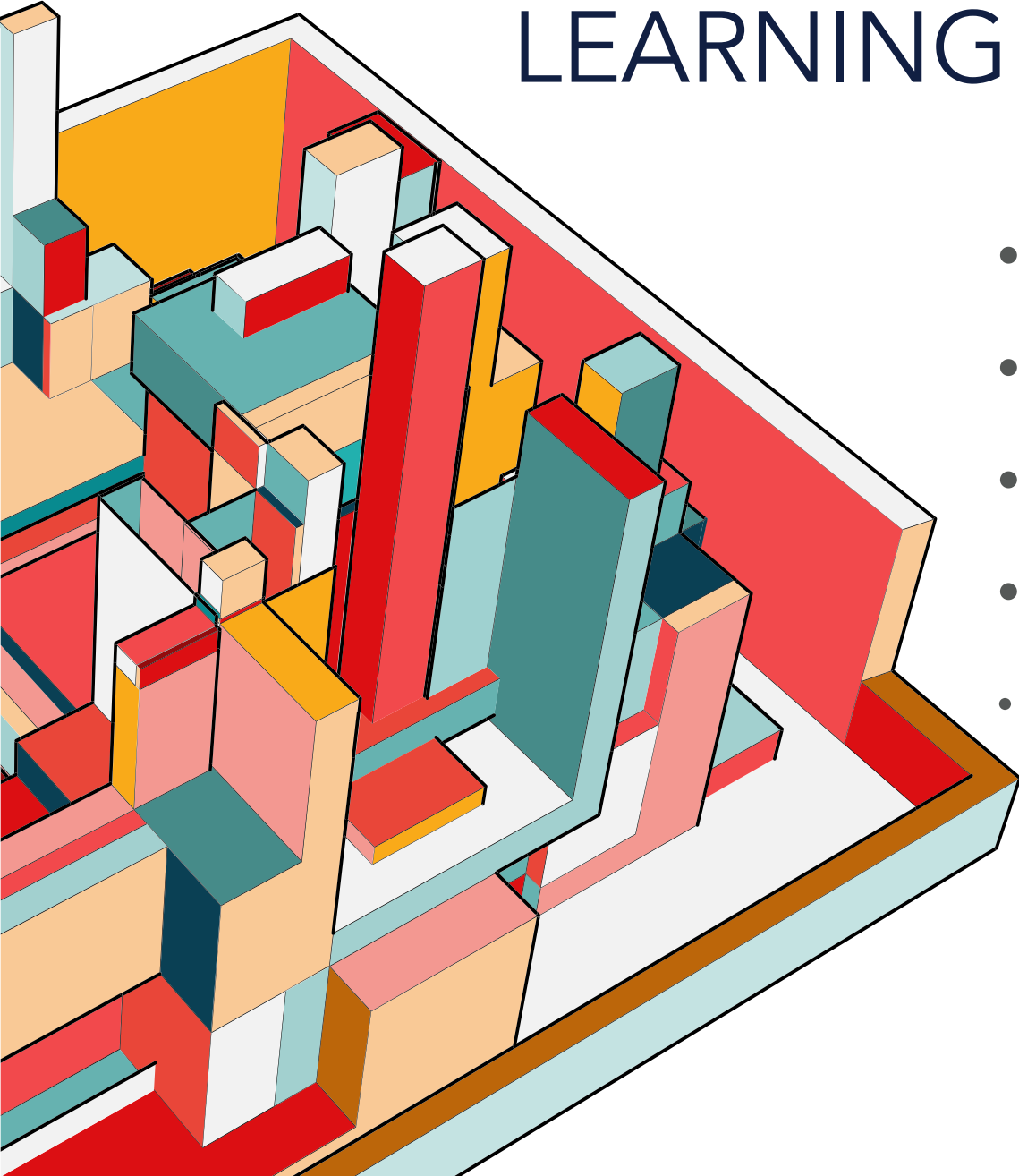
Jill Annunziata Debold, MPH, PMP



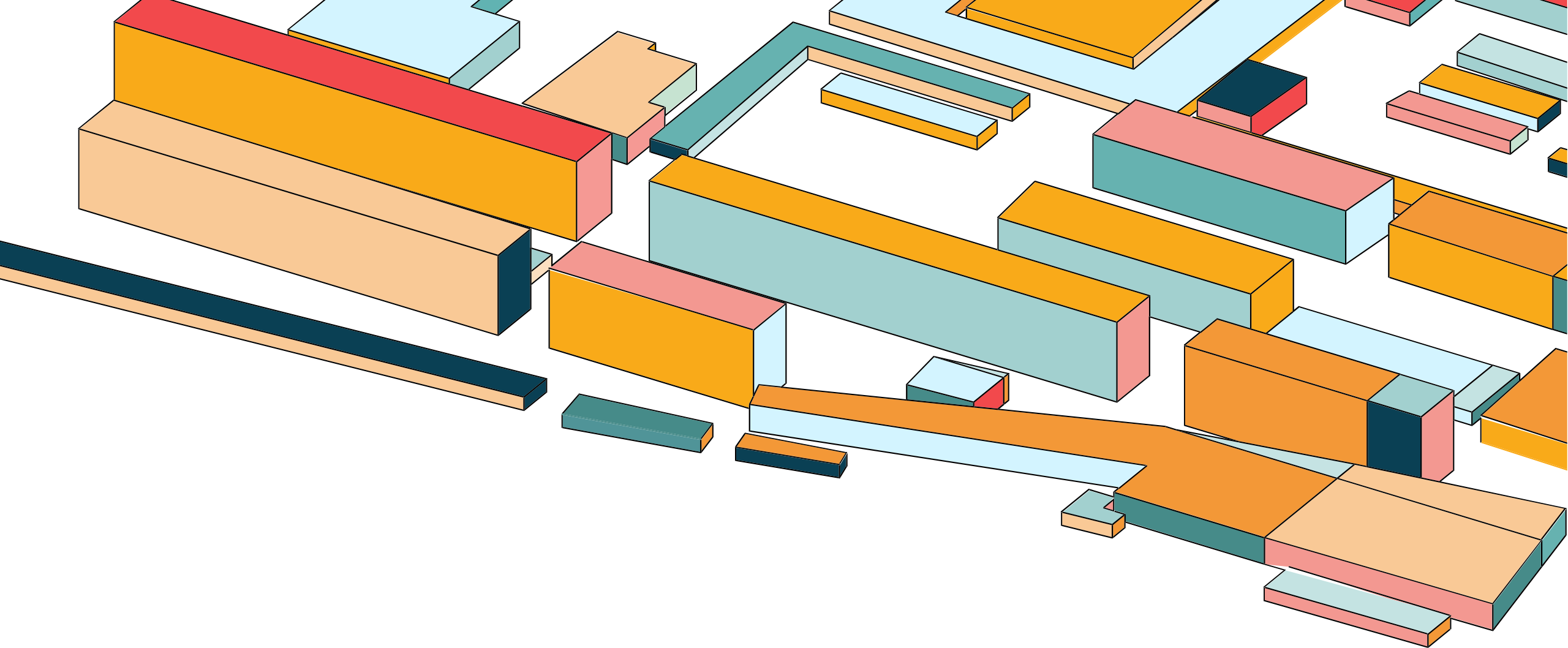
DISCLAIMER

The views expressed in this presentation are my own. They do not directly reflect those of my employer, the New York State Department of Health.

LEARNING OBJECTIVES



- How Addressing SDOH Advances Health Equity
- The Built Environment & SDOH
- Cross-sector Investment in SDOH Intervention Projects
- Cross-sector SDOH Data Sharing
- The Intersection between SDOH & HLN



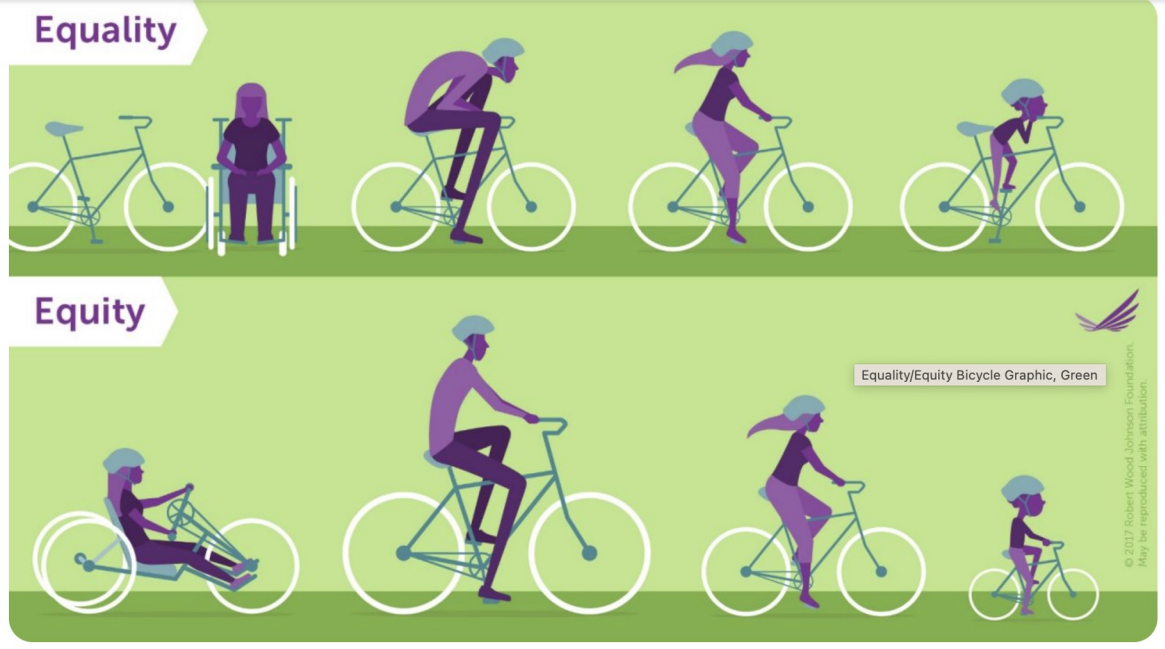
**ADDRESSING SDOH
ADVANCES HEALTH EQUITY**

HEALTH

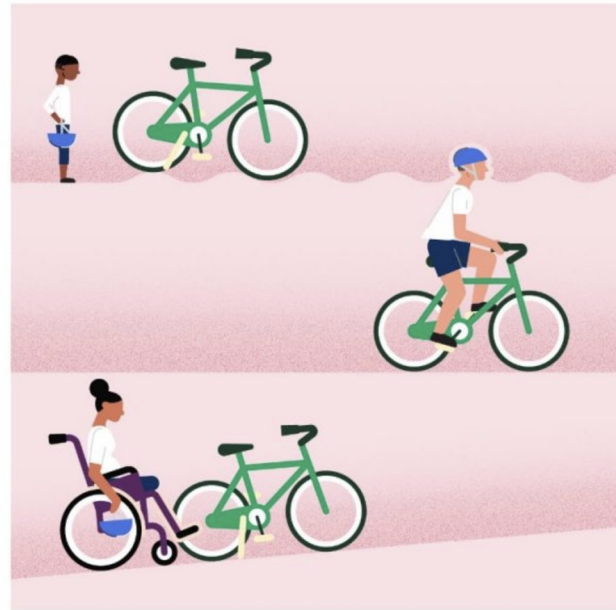
“Health is a state of complete physical, mental, and social well-being and **not merely the absence of disease or infirmity.**”



EQUITY



EQUALITY:
Everyone gets the same—regardless if it’s needed or right for them.



EQUITY:
Everyone gets what they need—understanding the barriers, circumstances, and conditions.





Slide developed by Laura Gottlieb, MD, MPH with permission from Jack Maypole, MD





Social Determinants of Health Overview

Healthy People 2030

ODPHP Office of Disease Prevention and Health Promotion

The strategic approach that the U.S. Department of Health and Human Services (HHS) is adopting to address social determinants of health (SDOH) will guide efforts to make health outcomes more equitable by better coordinating health and human services and by adopting a whole-of-government, multi-sector strategy to address the underlying systemic and environmental factors that affect health status. It is estimated that clinical care accounts for only 20% of the county-level variation in health outcomes, while SDOH account for as much as 50% and are a major driver of health disparities.

Social Determinants of Health



SDOH DOMAINS



Inadequate Housing
Financial Security
Transportation Insecurity
Employment
Educations



Social Connectedness
Abuse and Violence
Stress
Racism



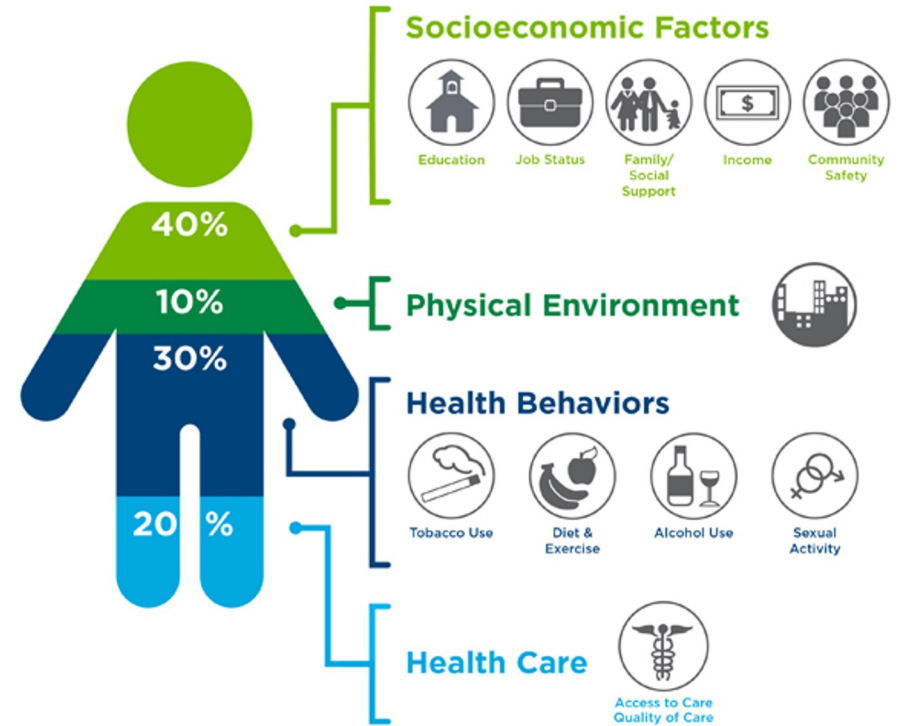
Food Insecurity
Physical Activity
Green Space / Nature
Neighborhood Safety

Why are social needs important?

Unmet social needs negatively impact health outcomes and quality of life. For example...

- **Food insecurity** correlates to higher levels of diabetes, hypertension, and heart failure.
- **Housing instability** factors into lower treatment adherence.
- **Transportation barriers** result in missed appointments, delayed care, and lower medication compliance.

What Goes Into Your Health?



Source: Institute for Clinical Systems Improvement, Going Beyond Clinical Walls: Solving Complex Problems (October 2014)

The Bridgespan Group

Sourced: Gravity Project

¹<https://www.cdc.gov/nchhstp/socialdeterminants/faq.html>

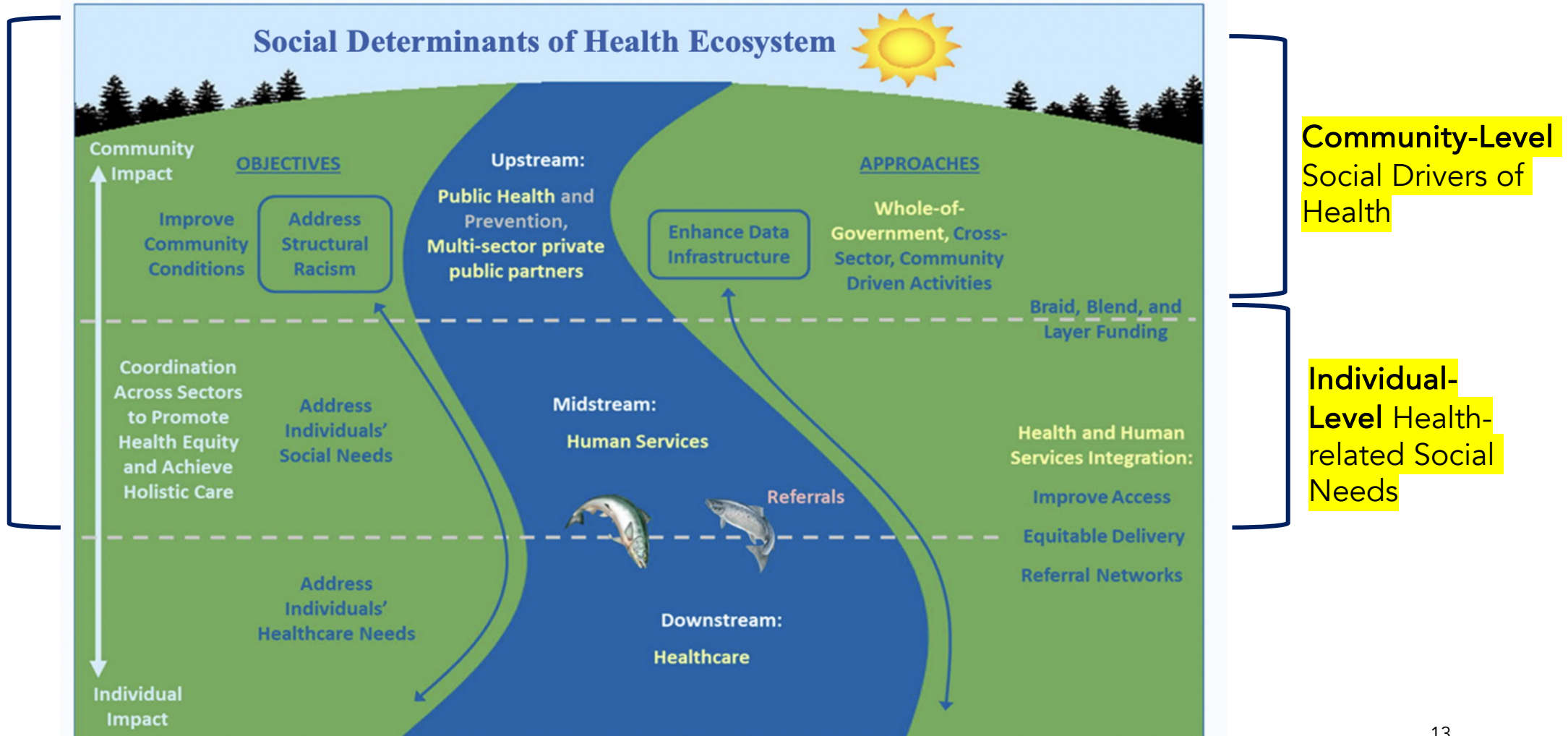
²[https://www.bridgespan.org/insights/library/public-health/the-community-cure-for-health-care-\(1\)](https://www.bridgespan.org/insights/library/public-health/the-community-cure-for-health-care-(1))

LEXICON





BEING UPSTREAMISTS

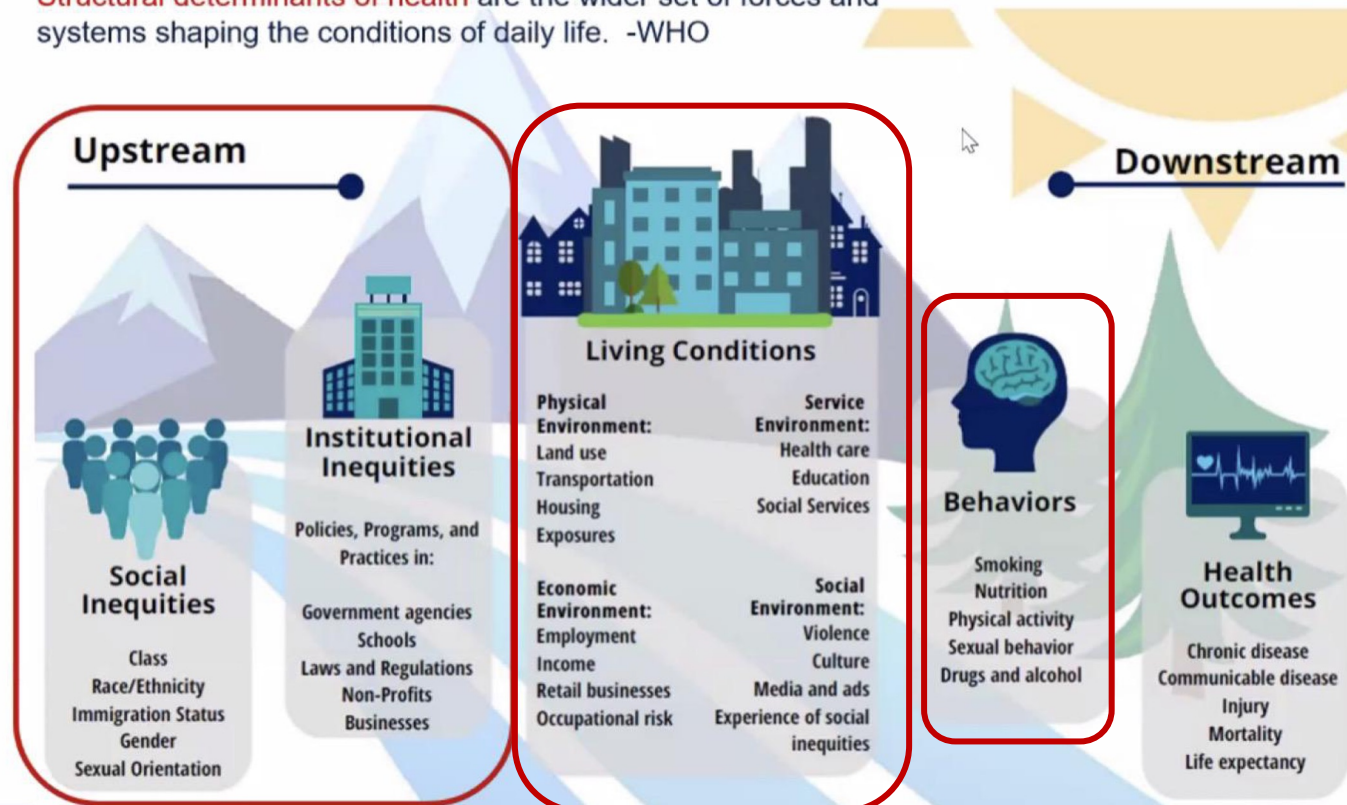


Note: Adapted from Castrucci B. Auerbach J. Meeting Individual Social Needs Falls Short of Addressing Social Determinants of Health. Health Affairs Blog. January 16, 2019

DRIVERS OF HEALTH

A continuum of influences on health outcomes

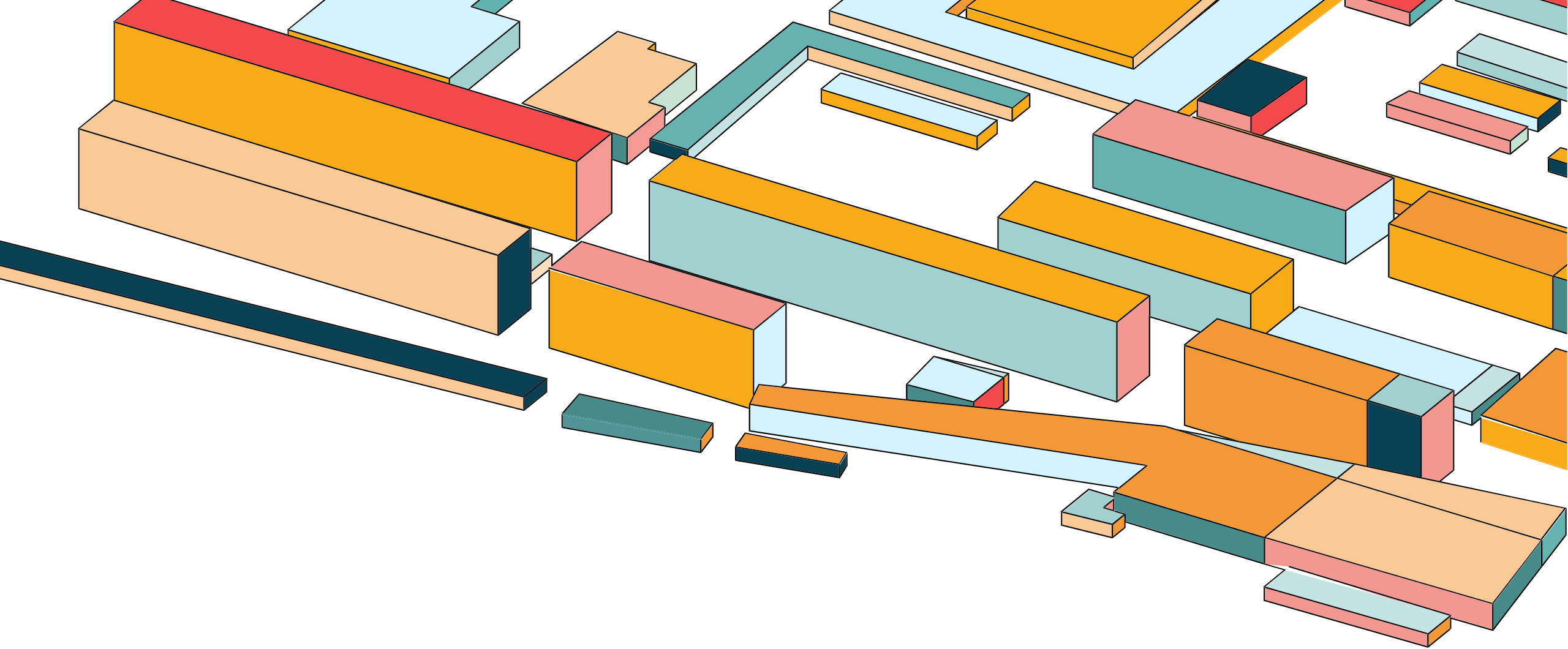
Structural determinants of health are the wider set of forces and systems shaping the conditions of daily life. -WHO



From Benton-Franklin Health District



ULI Health Leader's Primary Influence



THE BUILT ENVIRONMENT AS A SOCIAL DRIVER OF HEALTH

BUILT ENVIRONMENT & HEALTH IMPACT

Physical Health

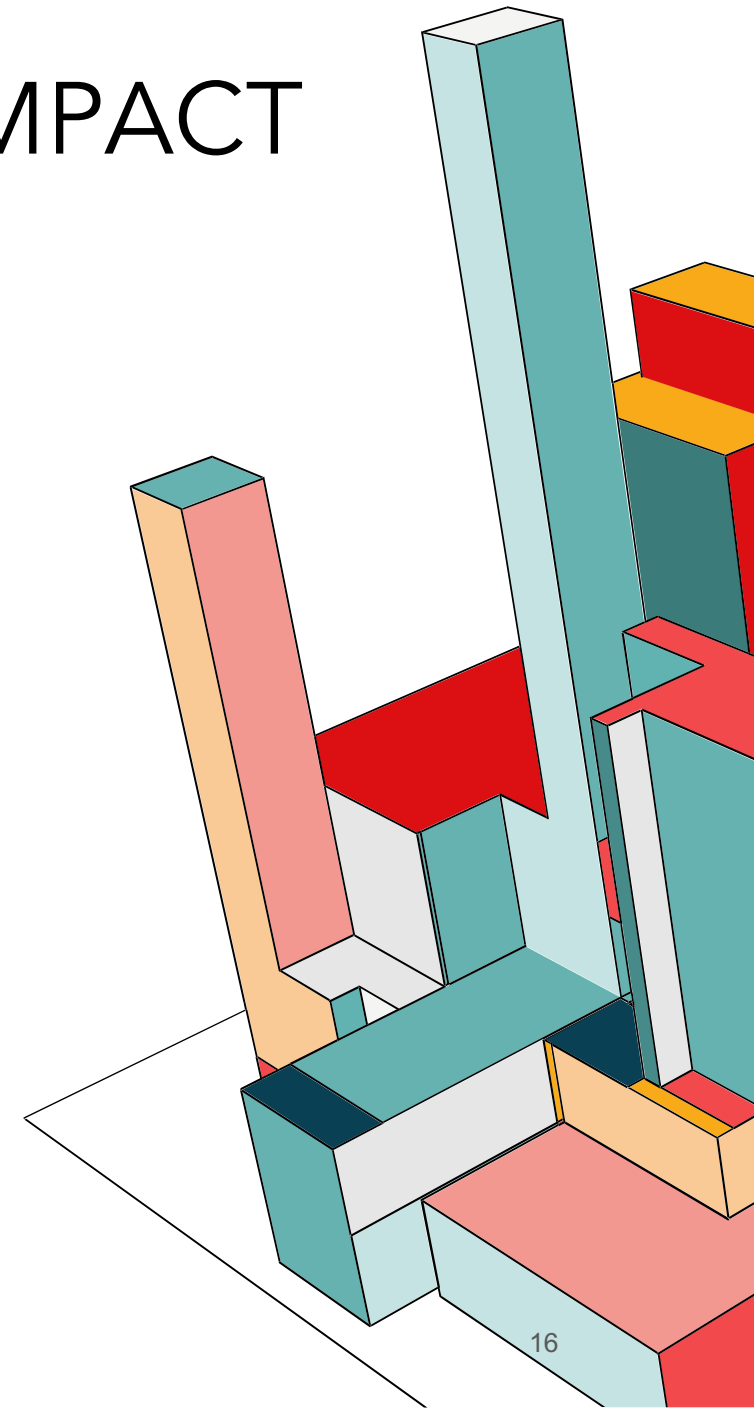
Lack of access to green spaces and high-traffic areas are elements of the built environment that contribute to physical health outcomes such as **asthma and respiratory illness**.

Behavioral Health

Noise pollution, lack of privacy, and social isolation are elements of the built environment that contribute to mental health outcomes such as **stress, depression, and anxiety**.

Health Disparities

Lack of access to healthy food options in low-income neighborhoods and communities of color are elements of the built environment that contribute to health disparities such as **higher rates of obesity and Diabetes**.



BUILT ENVIRONMENT SDOH DOMAINS

Safe Neighborhoods & Environments

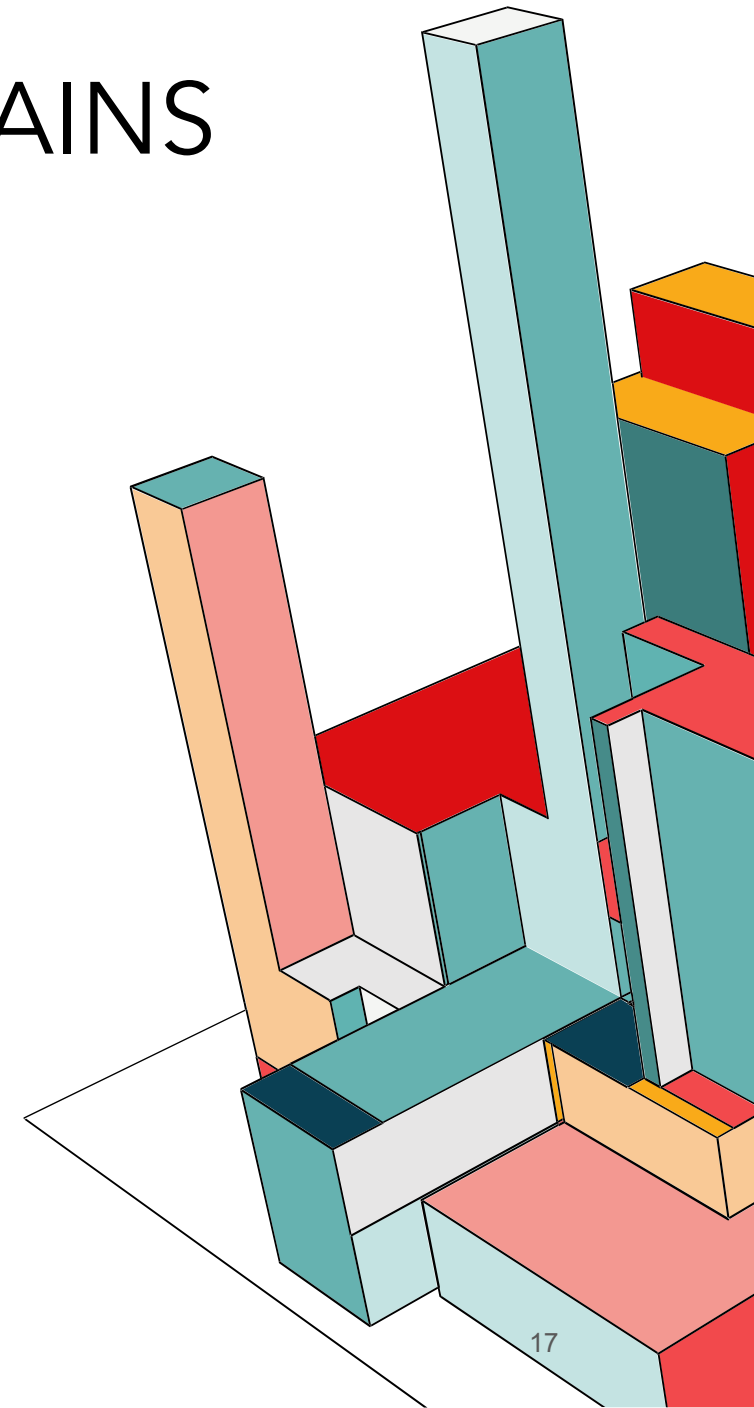
- Communities with environmental justice concerns face disparities in access to a healthy environment that are often the legacy of racial discrimination and segregation, redlining, exclusionary zoning, and other discriminatory land use decisions or patterns

Housing Security

- According to HUD, in 2021, over 8.53 million households were either living in severely inadequate rental conditions, paying more than one-half of their income toward rent, or both.
- Inadequate housing can increase the risk of exposure to unsanitary conditions, lead poisoning, poor indoor air quality, climate-related hazards such as extreme temperatures and severe weather events.

Food Security

- In 2017, diet-related disease caused 22% of deaths worldwide.
- A diet lacking in nutritious foods contributes to obesity, diabetes, heart disease, and other chronic illnesses which can all lead to premature death.
- Broadening access to nutritious food is vital for helping people lead healthy lives and can also lower health care costs.



GREEN SPACE AS A SDOH

The Health Benefits of Nature with Eugenia South, MD, MSHP

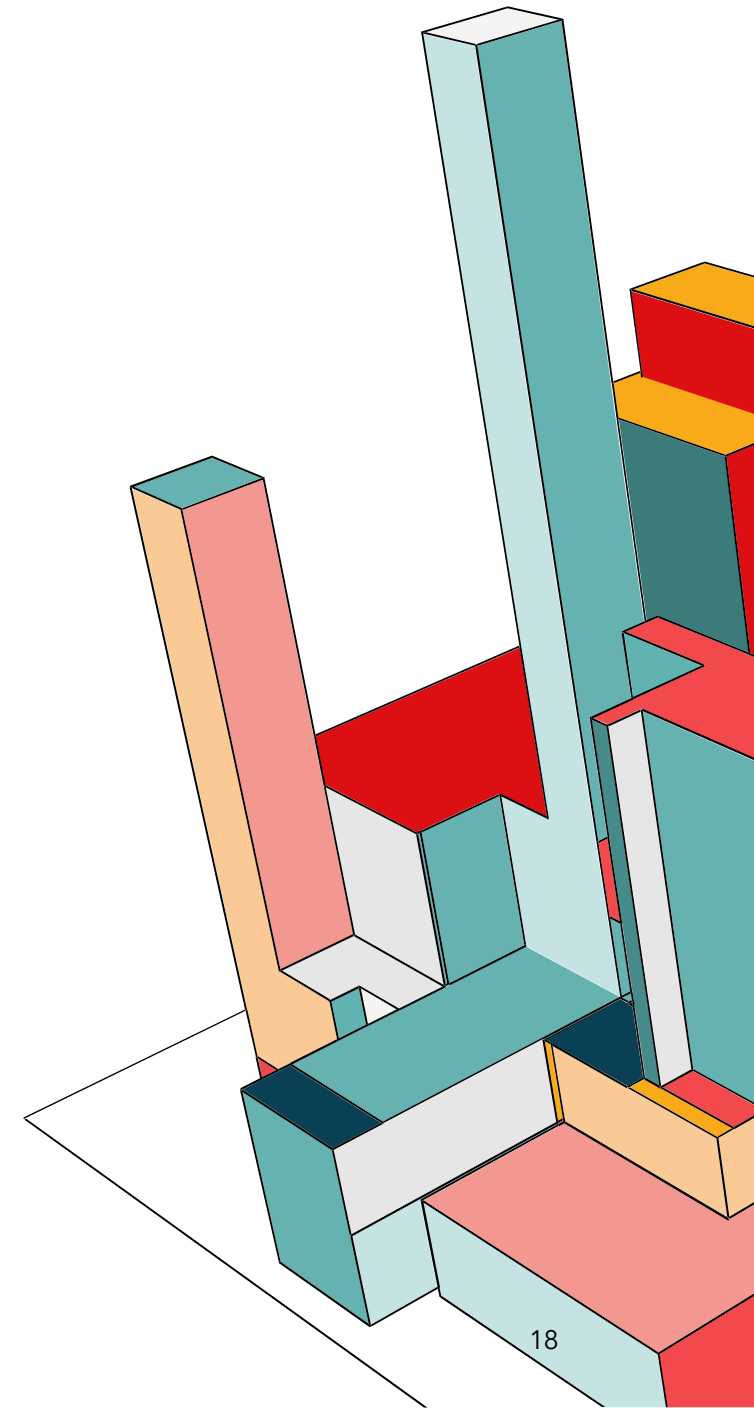


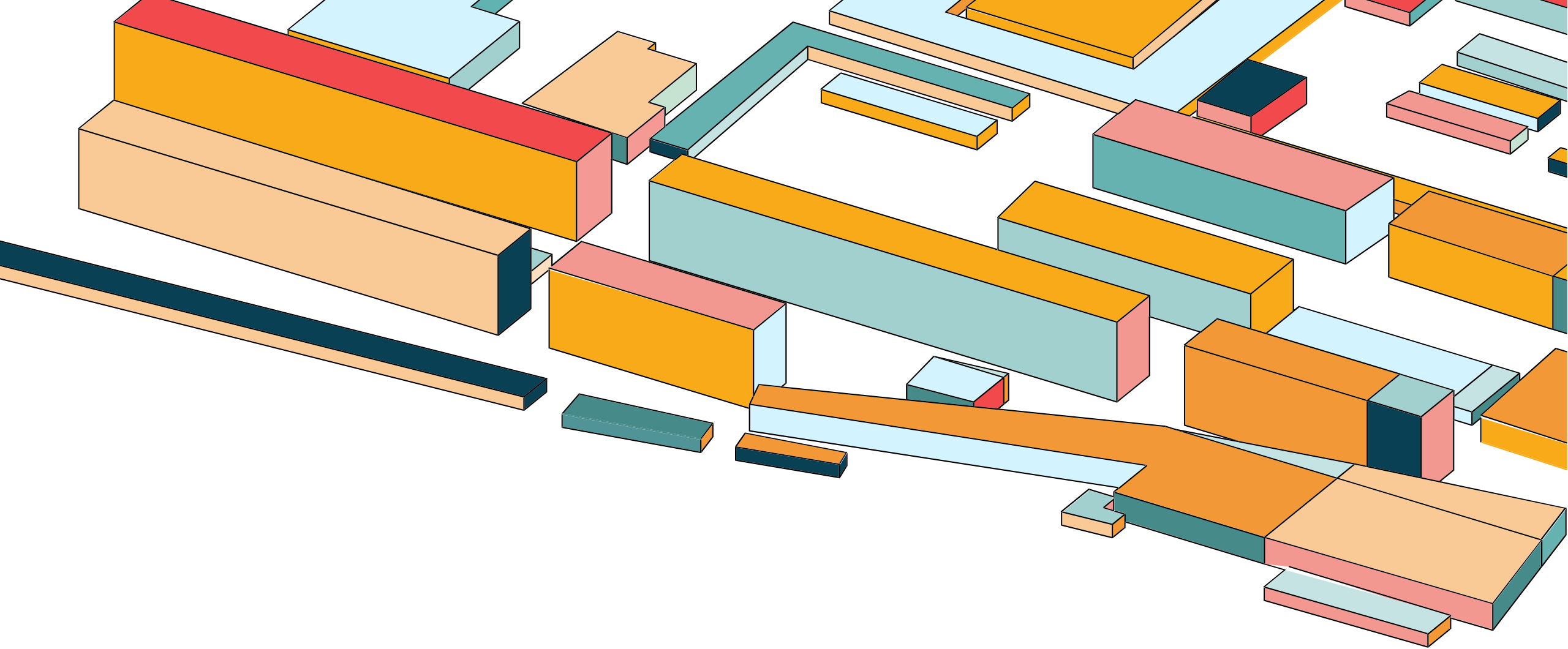
HCP *Live*[®]



Eugenia South, MD, MSHP

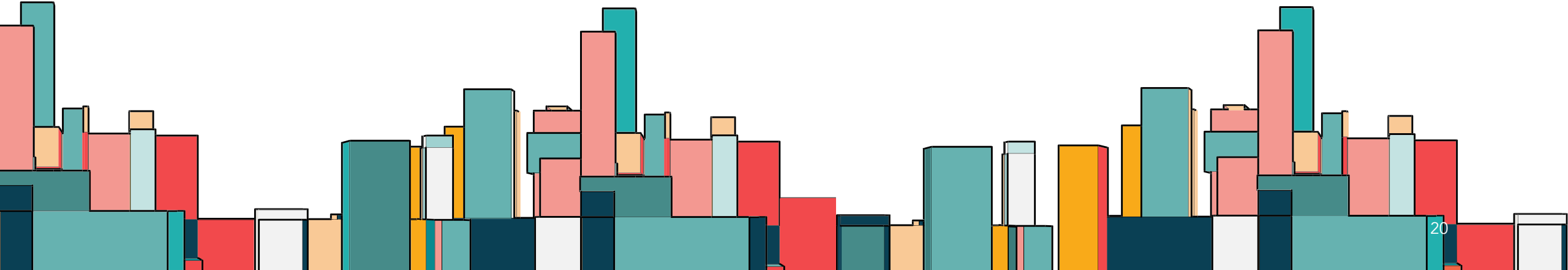
Assistant Professor of Emergency Medicine, Perelman School of Medicine at the University of Pennsylvania



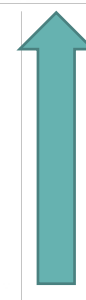
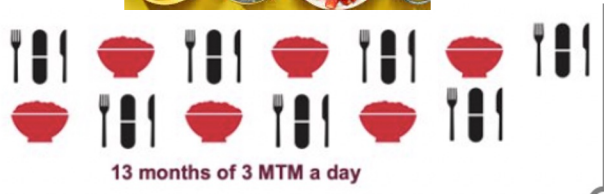


CROSS-SECTOR INVESTMENT IN INTERVENTION PROJECTS

BLENDING & BRAIDING FUNDS



INDIVIDUAL & COMMUNITY-LEVEL PROJECTS

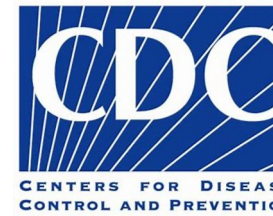


BUILT ENVIRONMENT PROJECTS THAT ADDRESS SDOH

- **Creating access** to healthy, affordable food options, safe and accessible transportation, and recreational spaces in disadvantaged communities.
- **Developing policies** such as urban agriculture and community gardens, building sidewalks and bike lanes, and promoting mixed-income housing developments.
- **Reducing exposure** to pollutants, unsanitary conditions, climate-related and environmental hazards by cleaning up contaminated sites and improving air quality.



FEDERAL EXAMPLES



White House U.S. Playbook to Address Social Determinants of Health

- Framework for federal agencies and other organizations across sectors to engage in efforts to address SDOH
- Cited Gravity Project SDOH data standards

Federal Interagency Thriving Communities Network

- DOT, HUD, DOE, USDA, GSA, EPA: Government-wide framework for place-based technical assistance for communities experiencing a history of systemic divestment

Housing and Services Resource Center (HSRC)

- HUD and HHS (CDC, CMS, etc.): Joint technical assistance program to assist agencies address housing and health needs

Complete Streets

- DOT and CDC: Increase access to alternative, active modes of transportation

Community Care Hubs

- ACL, HUD, USDA, CMS: Coordinated access to services and supports

Waiver Programs

- CMS: Policy vehicles states can use to test new or existing ways to deliver and pay for health services

BUILT ENVIRONMENT EXAMPLES

PHYSICAL ACTIVITY

- 1 Incorporate a mix of land uses
- 2 Design well-connected street networks at the human scale
- 3 Provide sidewalks and enticing, pedestrian-oriented streetscapes



- 4 Provide infrastructure to support biking
- 5 Design visible, enticing stairs to encourage everyday use
- 6 Install stair prompts and signage



- 7 Provide high-quality spaces for multigenerational play and recreation
- 8 Build play spaces for children

HEALTHY FOOD AND DRINKING WATER



- 9 Accommodate a grocery store
- 10 Host a farmers market
- 11 Promote healthy food retail



- 12 Support on-site gardening and farming
- 13 Enhance access to drinking water



HEALTHY ENVIRONMENT AND SOCIAL WELL-BEING

- 14 Ban smoking
- 15 Use materials and products that support healthy indoor air quality
- 16 Facilitate proper ventilation and airflow



- 17 Maximize indoor lighting quality
- 18 Minimize noise pollution
- 19 Increase access to nature



- 20 Facilitate social engagement
- 21 Adopt pet-friendly policies





Connecting
the housing sector and the
community living networks



Housing and Services Partnership Accelerator Program

- Federal Agencies: HUD, USDA, HHS, ACL, CDC, CMS, etc.
- Launched February 9, 2024
- A joint technical assistance program to assist agencies to coordinate federal resources to address housing and health-related needs.
- Partnership was established to improve access to affordable housing and critical services to make community living possible for at-risk populations.
- 1000s of organizations have received TA
- Improve coordination between systems to increase stable housing in community

FEDERAL
HOUSING
EXAMPLE



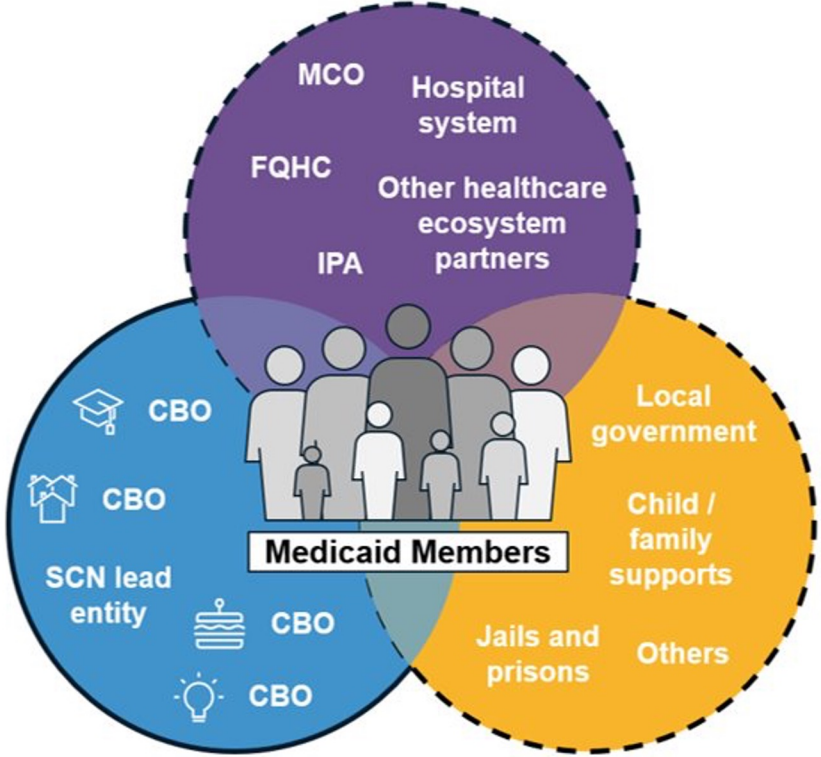
PUBLIC-PRIVATE HOUSING EXAMPLE

Health Insurance Companies Invest Deeply in Housing

- \$800 million investment to date
- 20,000 affordable homes built
- In partnership with the Stewards of Affordable Housing for the Future and the National Affordable Housing Trust
- Communities include on-site health services for the people living in those neighborhoods, as well as access to public transportation and other essential services.

State Example

New York Health Equity Reform 1115 Waiver Program
\$4B statewide over 3 years



1. Where entities above are not part of SCNs

ULI Health Leaders Influence

- **Housing / utilities:** Community transitional supports, home remediation (repairs, pest eradication) and education services, rent payment (6 mo.) / temporary housing, tenancy services, utility costs.
- **Food Insecurity:** Medically tailored meals, nutritional counseling and classes, home delivered meal / pantry stocking, cooking supplies, fresh produce (6 mo.).
- **Transportation:** Public and private transportation to reach HRSN services above.

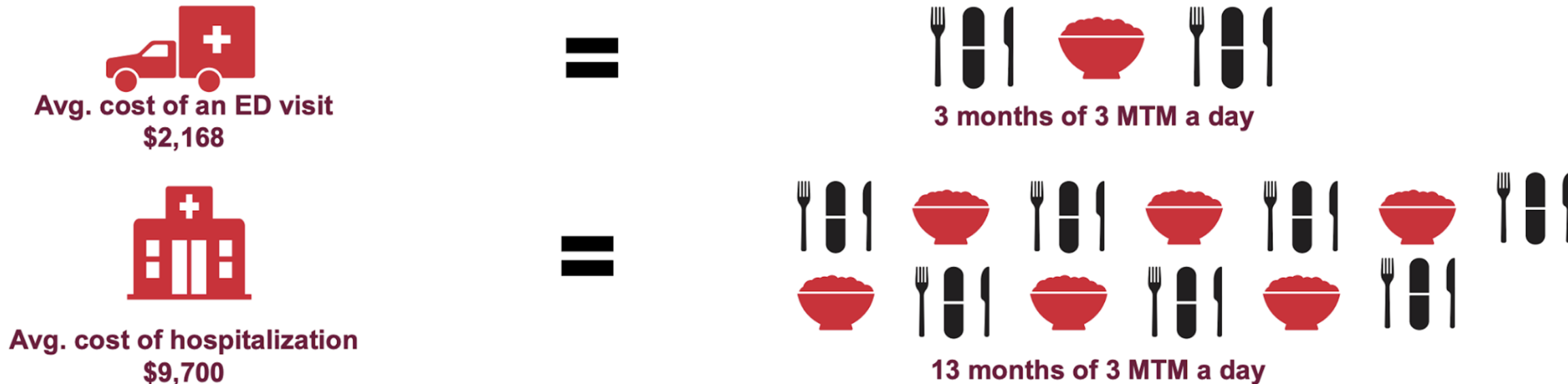
FOOD EXAMPLE

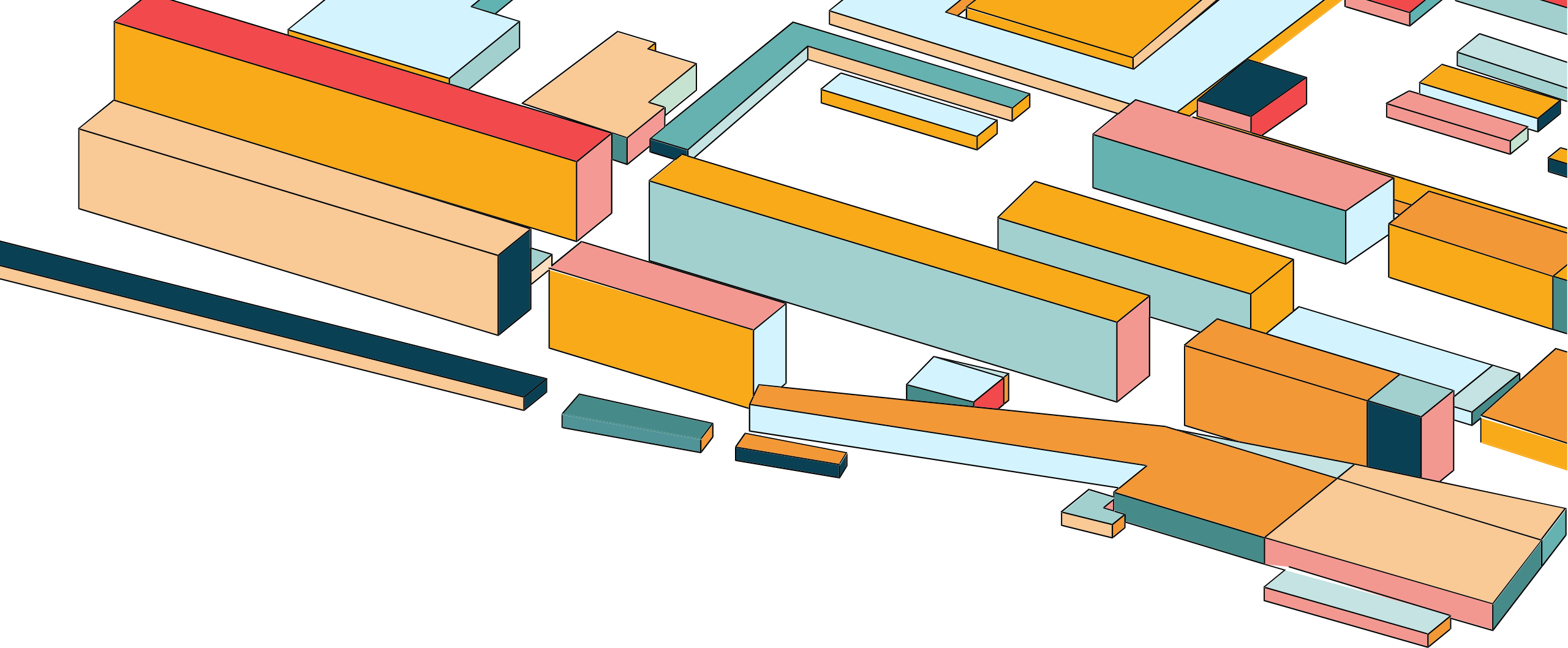


**GOD'S LOVE
WE DELIVER®**

Medically tailored meals are a low-cost, high-impact intervention.

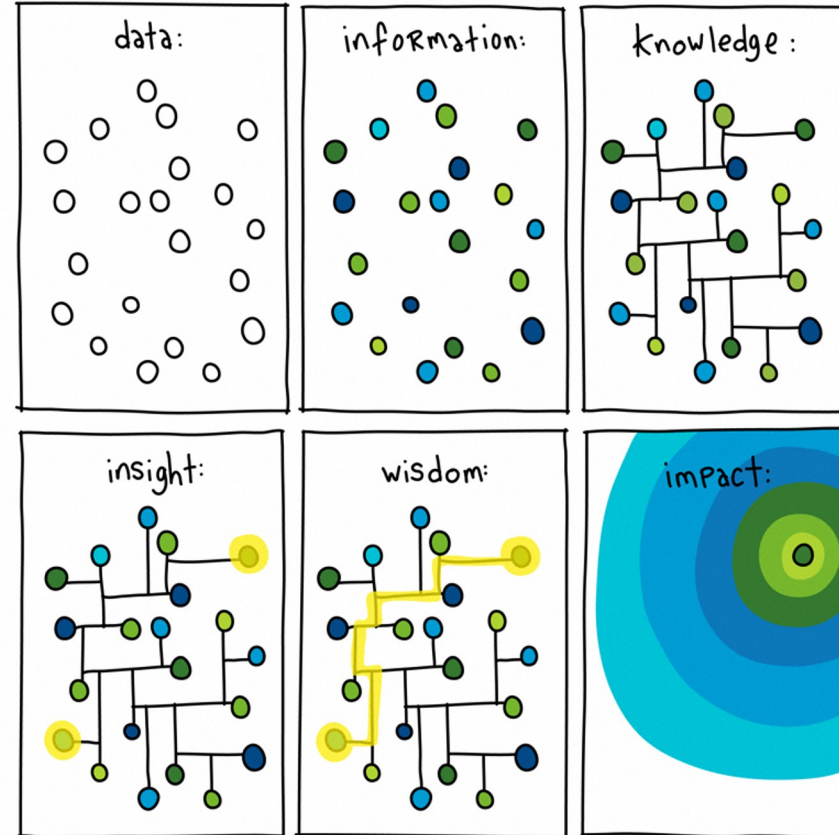
Cost of standard healthcare vs medically tailored meals:





CROSS-SECTOR DATA SHARING

DATA INTEROPERABILITY LEADS TO DATA JUSTICE



gapingvoid
Culture Design Group

@gapingvoid

DATA SHARING

- **US Census Bureau** (national database on demographics)
- **Community Needs Assessments** (local/county health departments/ councils)
- **Health Needs Assessments** (local hospitals)
- **Regional Comprehensive Plans** (planning departments)
- **CDC's Behavioral Risk Factor Surveillance System (BRFSS)**
- **Geographic Information Systems (GIS)**
- **Health Related Social Needs / Social Determinant of Health Needs Assessments**

INDIVIDUAL-LEVEL SDOH ASSESSMENT

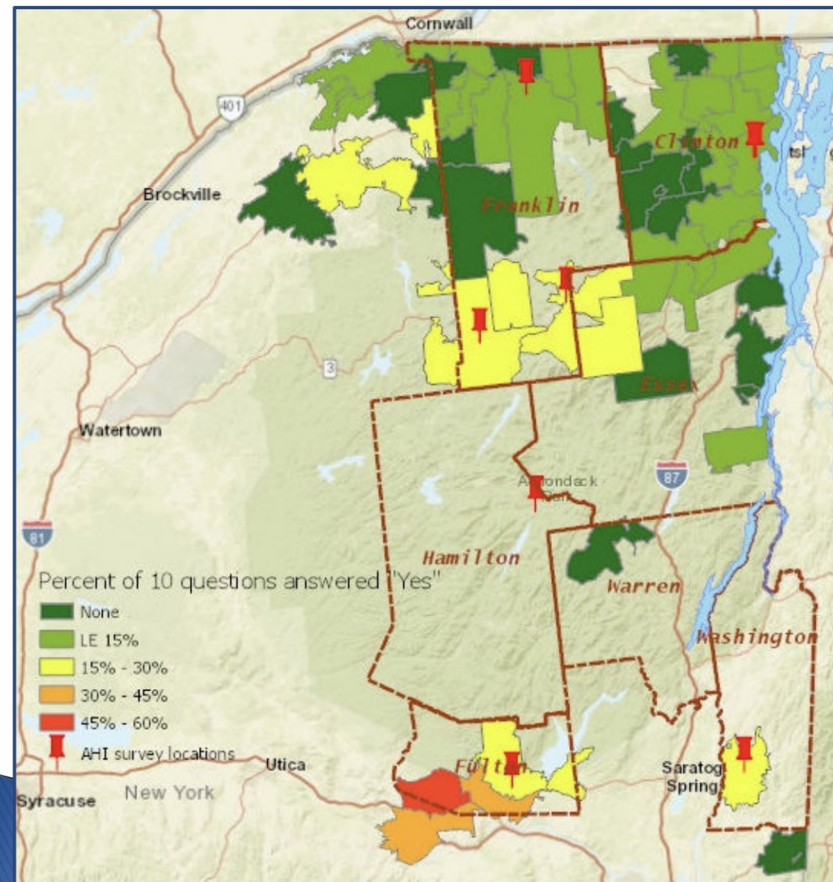


Accountable Health Communities (AHC) Health-Related Social Needs (HRSN) Screening Tool

Housing/ Utilities									
1. What is your living situation today?	I have a steady place to live I have a place to live today, but I am worried about losing it in the future I do not have a steady place to live (I am temporarily staying with others, in a hotel, in a shelter, living outside on the street, on a beach, in a car, abandoned building, bus or train station, or in a park)								
2. Think about the place you live. Do you have problems with any of the following? CHOOSE ALL THAT APPLY	<table border="0"> <tr> <td>Pests such as bugs, ants, or mice</td> <td>Oven or stove not working</td> </tr> <tr> <td>Mold</td> <td>Smoke detectors missing or not working</td> </tr> <tr> <td>Lead paint or pipes</td> <td>Water leaks</td> </tr> <tr> <td>Lack of heat</td> <td>None of the above</td> </tr> </table>	Pests such as bugs, ants, or mice	Oven or stove not working	Mold	Smoke detectors missing or not working	Lead paint or pipes	Water leaks	Lack of heat	None of the above
Pests such as bugs, ants, or mice	Oven or stove not working								
Mold	Smoke detectors missing or not working								
Lead paint or pipes	Water leaks								
Lack of heat	None of the above								
3. In the past 12 months has the electric, gas, oil, or water company threatened to shut off services in your home?	Yes No Already shut off								
Food Security									
4. Within the past 12 months, you worried that your food would run out before you got money to buy more.	Often true Sometimes true Never true								
5. Within the past 12 months, the food you bought just didn't last and you didn't have money to get more.	Often true Sometimes true Never true								
Transportation									
6. In the past 12 months, has lack of reliable transportation kept you from medical appointments, meetings, work or from getting things needed for daily living?	Yes No								
Employment									
7. Do you want help finding or keeping work or a job?	Yes, help finding work Yes, help keeping work I do not need or want help								
Education									
8. Do you want help with school or training? For example, starting or completing job training or getting a high school diploma, GED or equivalent.	Yes No								
Interpersonal Safety Because violence and abuse happens to a lot of people and affects their health, we are asking the following questions.									
9. How often does anyone, including family and friends, physically hurt you?	<table border="0"> <tr> <td>Never (1)</td> <td>Fairly often (4)</td> </tr> <tr> <td>Rarely (2)</td> <td>Frequently (5)</td> </tr> <tr> <td>Sometimes (3)</td> <td></td> </tr> </table>	Never (1)	Fairly often (4)	Rarely (2)	Frequently (5)	Sometimes (3)			
Never (1)	Fairly often (4)								
Rarely (2)	Frequently (5)								
Sometimes (3)									
10. How often does anyone, including family and friends, insult or talk down to you?	<table border="0"> <tr> <td>Never (1)</td> <td>Fairly often (4)</td> </tr> <tr> <td>Rarely (2)</td> <td>Frequently (5)</td> </tr> <tr> <td>Sometimes (3)</td> <td></td> </tr> </table>	Never (1)	Fairly often (4)	Rarely (2)	Frequently (5)	Sometimes (3)			
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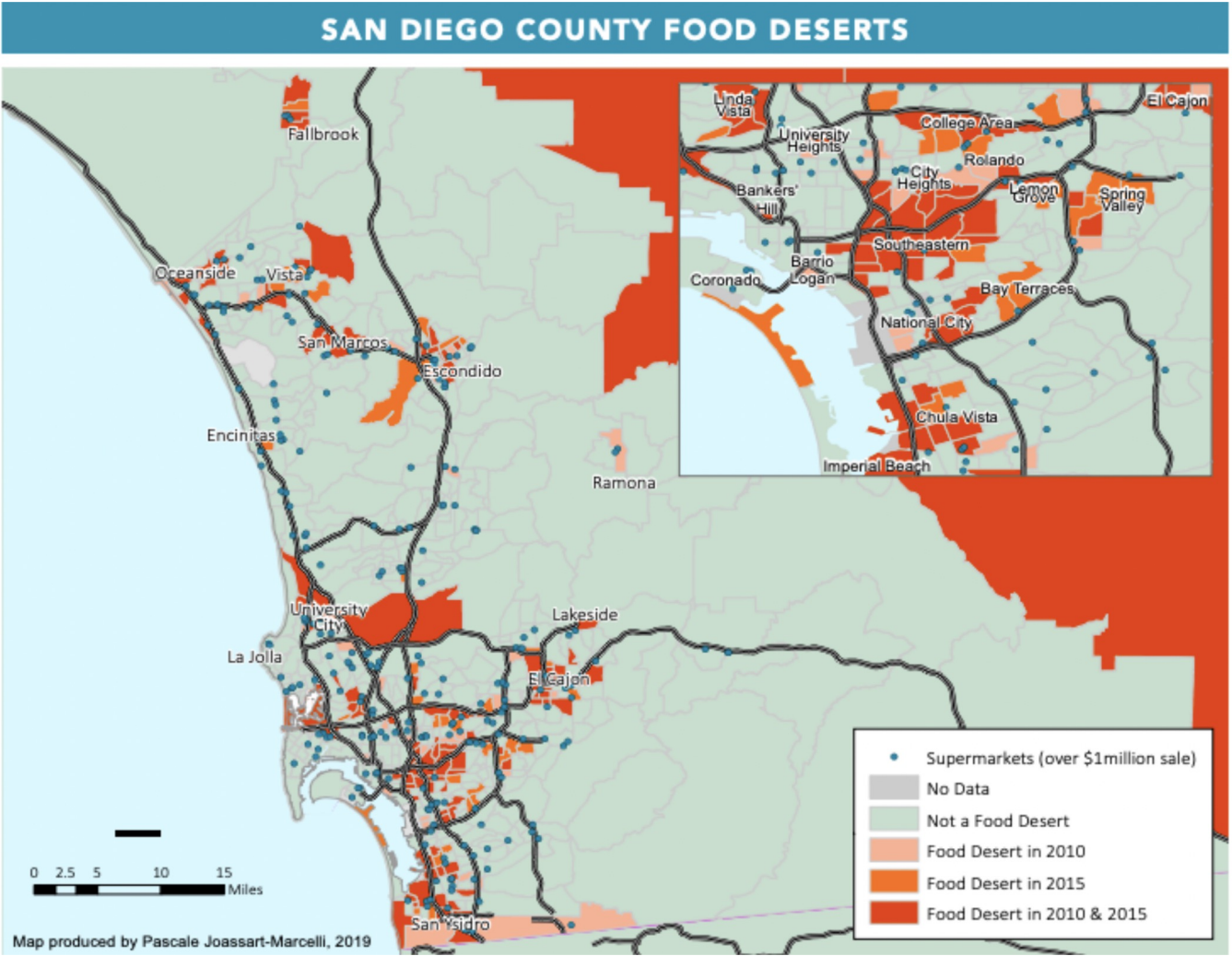
COMMUNITY-LEVEL NEEDS MAP

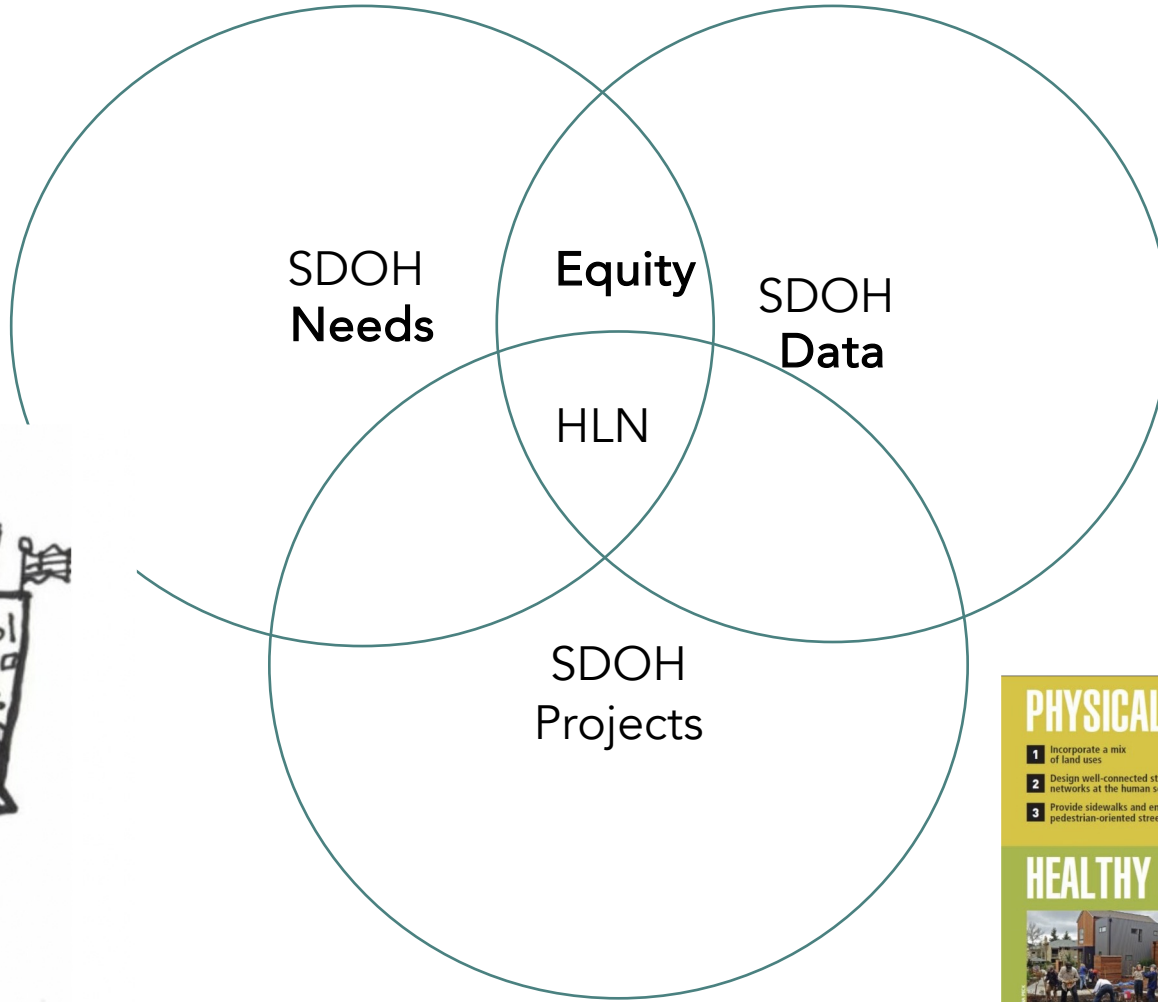
AHI Social Determinants of Health survey: Very early results



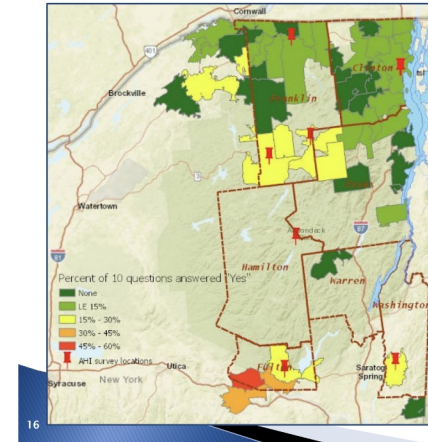
- ▶ % respondents indicating need
- ▶ Red = higher need
- ▶ Green = lower need

FOOD SECURITY ACCESS MAP





AHI Social Determinants of Health survey: Very early results



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ROADMAP

- Policy and Program Levers
- Cross-Sector Investment
- Cross-Sector Collaboration
- Data Quality and Interoperability
- Addressing SDOH to Advance Health Equity

RECOMMENDED READING/LISTENING

Reading

- Report: [White House U.S. Playbook to Address Social Determinants of Health](#)
- Report: HealthBegins Upstream Communication Toolkit
- Article: [Greening Vacant Lots Reduces Feelings of Depression in City Dwellers, Penn Study Finds](#)
- Article: [Public Open space, Green exercise and well-being in Chittagong, Bangladesh](#)
- Article: [Federal funding may boost social determinants of health infrastructure](#)
- Article: [Improving Health And Well-Being Through Community Care Hubs](#)

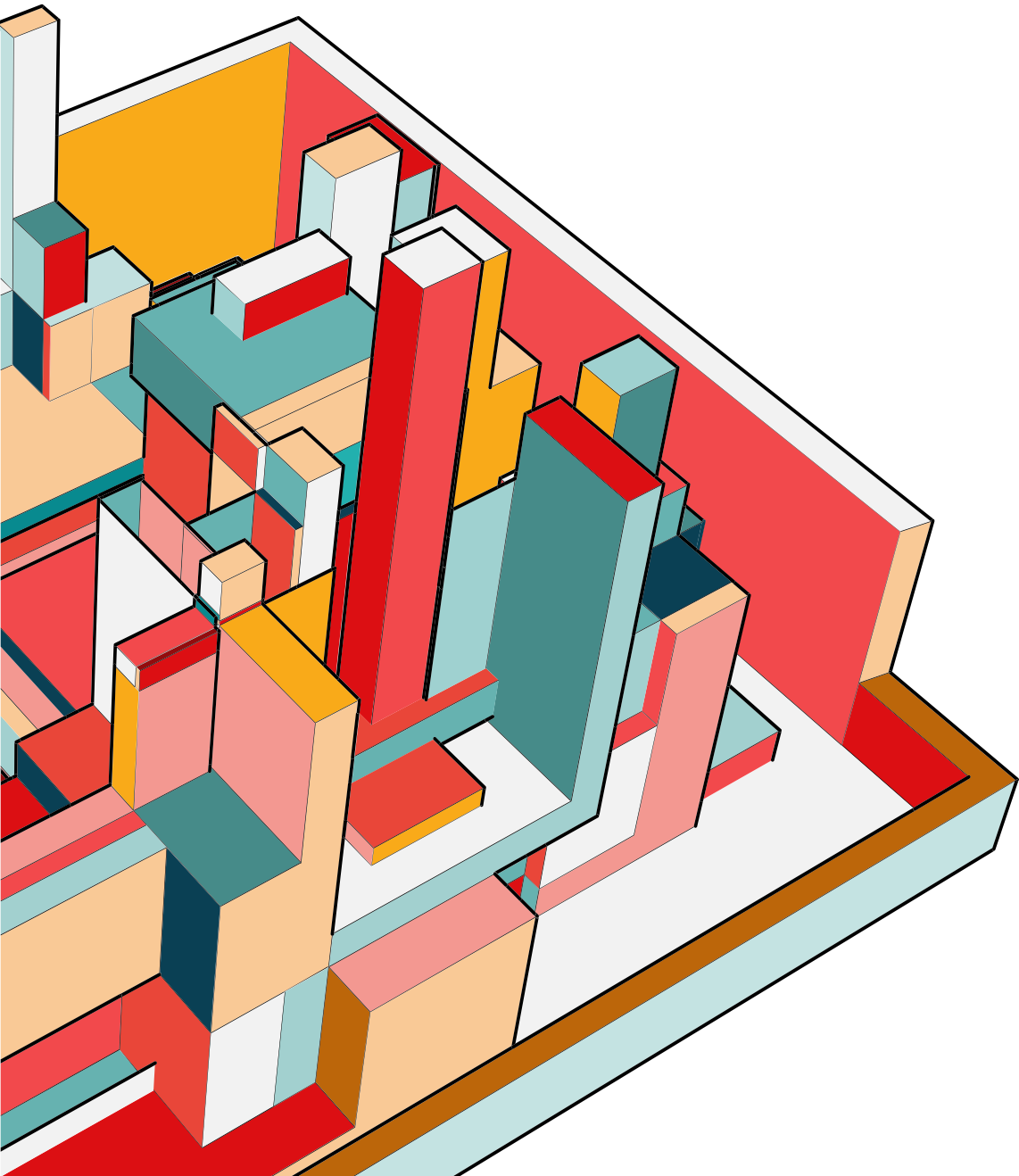
Listening

- Podcast: [The Earth Disease: At the Intersection of Climate Change and Health Policy](#)
- Podcast: [The Other 80](#)
- Audio Article: [Humana And UnitedHealth Want To Invest More Deeply In Housing](#)

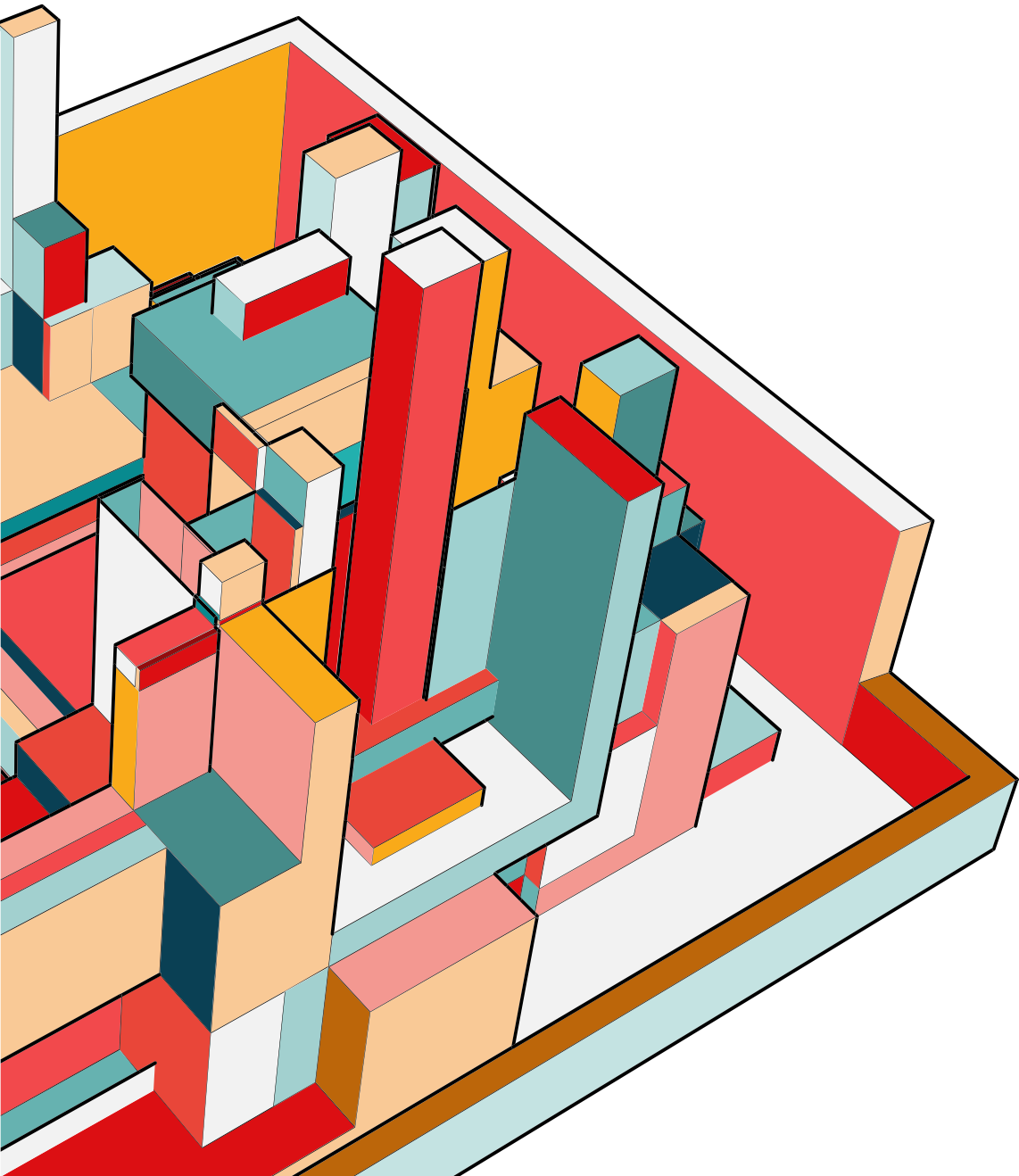
THANK YOU

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Q&A



DISCUSSION

What projects have you worked on that improved living conditions, behaviors, or social/institutional inequities?

What are (inter)national are examples of policy and programs in place to incentivize cross-sector projects that address Social Drivers of Health?