# DESIGNING FOR HEALTH

2014 ULI Fall Meeting



Javits Center, NYC | October 21–23

Jack L. Robbins, AIA Principal

FXFOWLE



We shape our buildings, and afterwards our buildings shape us.

- Winston Churchill, 1943

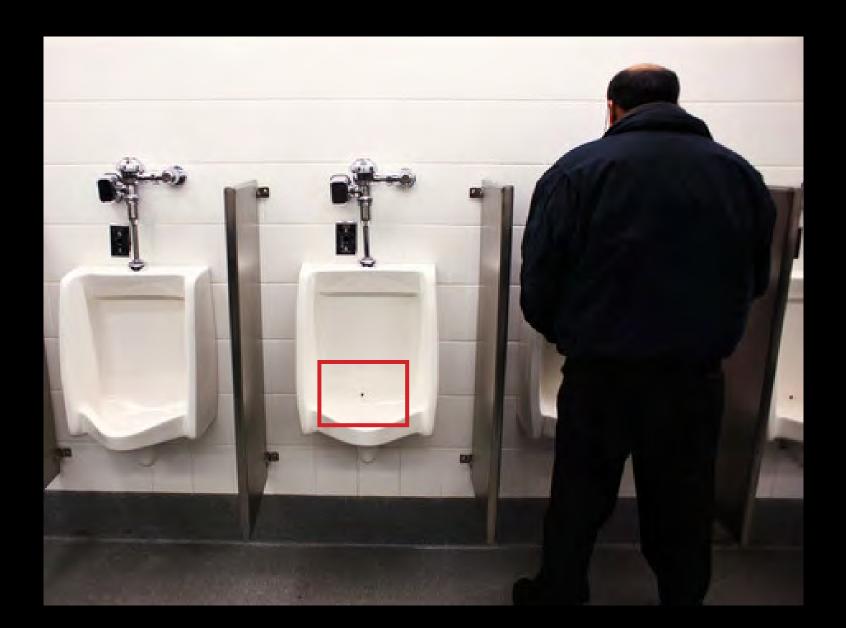
# DESIGN ---> HEALTH

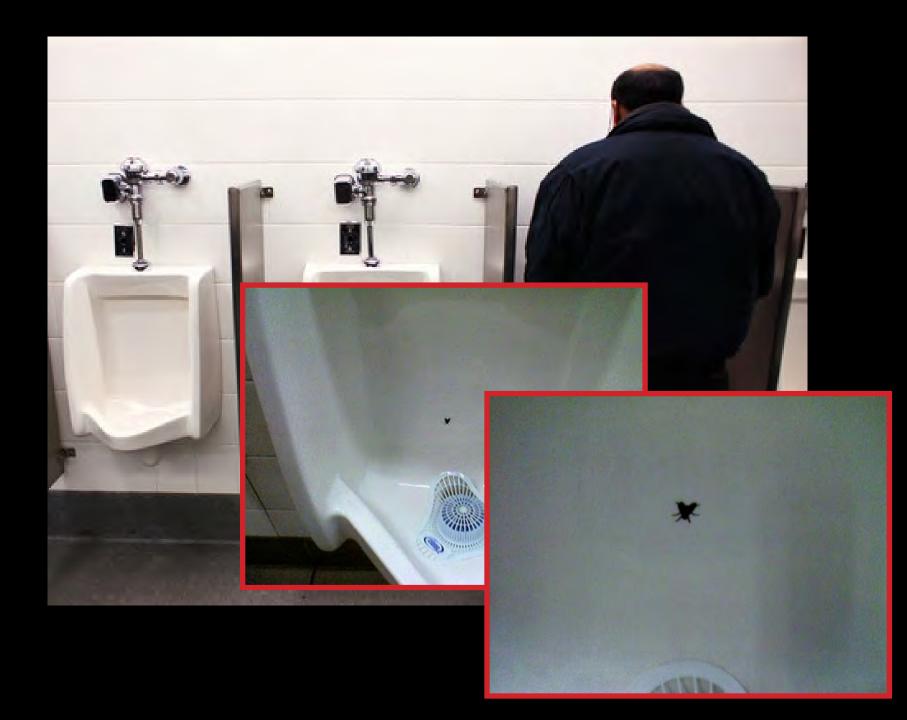
Design can change behavior.

Changed behavior can improve health.

Design can improve health.







"Walking is a man's best medicine."

- Hippocrates

- Study of 10,269 male Harvard College graduates showed walking at least 9 miles/wk linked to 22% lower death rate.
- Among 44,452 male health professionals, walking at least 30 min/day linked to 18% lower risk of coronary artery disease.
- Study of 72,488 female nurses, walking at least 3 hrs/wk linked to 35% lower risk of heart attack and cardiac death and 34% lower risk of stroke.
- Compiled data from 18 studies tracking 459,833 people for an average of 11.3 years showed walking reduced risk of cardiovascular events 31%, and cut risk of dying by 32%. Protection evident at distances of just 5½ miles/wk and a pace of only 2 mph.

## **Client:**

NYC Department of Housing Preservation & Development

BRP Development Corporation & The Hudson Companies, Inc.

Common Ground

## **Design Team:**

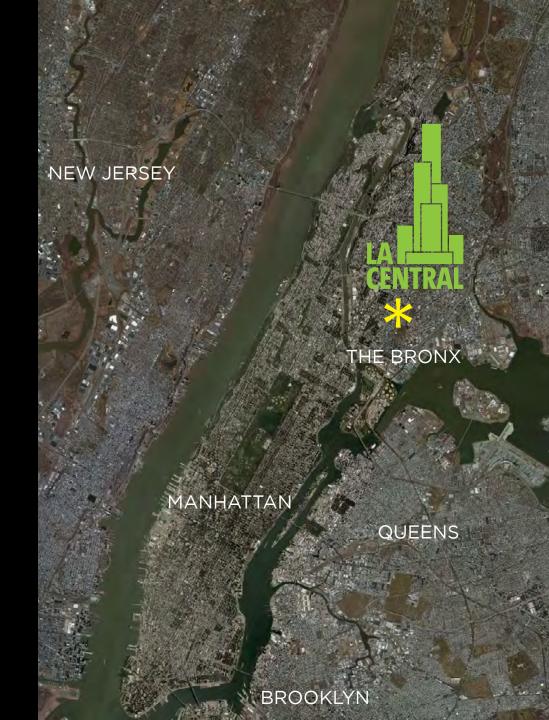
**FXFOLWE** 

**MHG** Architects

Future Green Studio

1,100,000 GSF

985 units affordable housing, including 96 units of supportive housing for formerly homeless veterans and New Yorkers living with HIV/AIDS



#### Diabetes ever

- 2.0% 8.8%
- 8.9% 10.4%
- 10.5% 11.4%
- 11.5% 18.3%

### Obesity

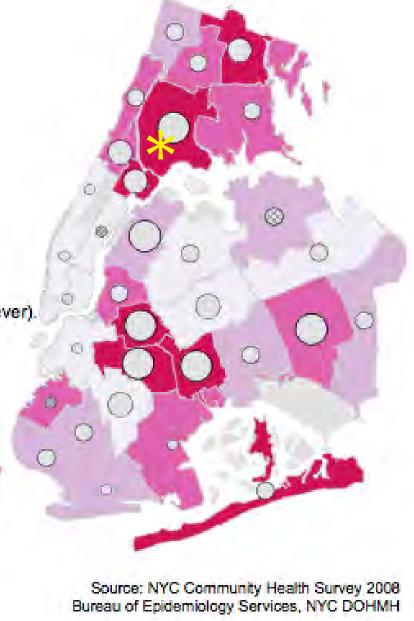
- 8.2% 19.5%
- 19.6% 24.5%
- 24.6% 29.1%
- 29.2% 44.2%

Estimate should be interpreted with caution (diabetes ever).

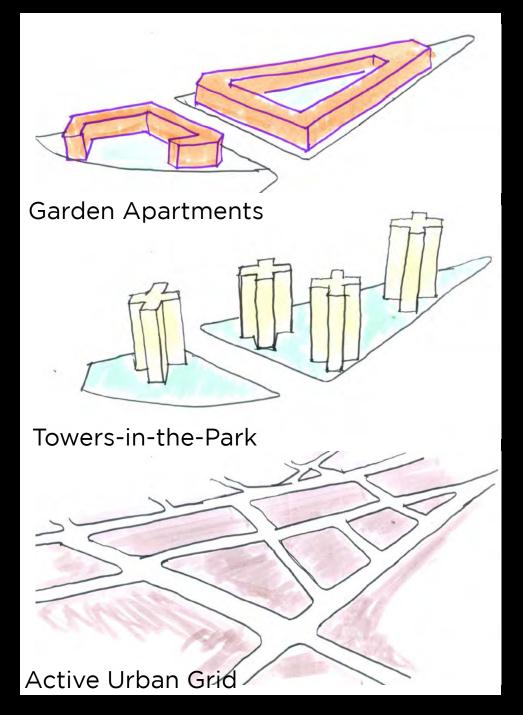
\*Percentages are age adjusted.

Women who had diabetes only while pregnant are included in 'no' category.

Obesity is based on Body Mass Index (BMI), calculated from self-reported weight and height. A BMI of 30 or greater is classified as obese.





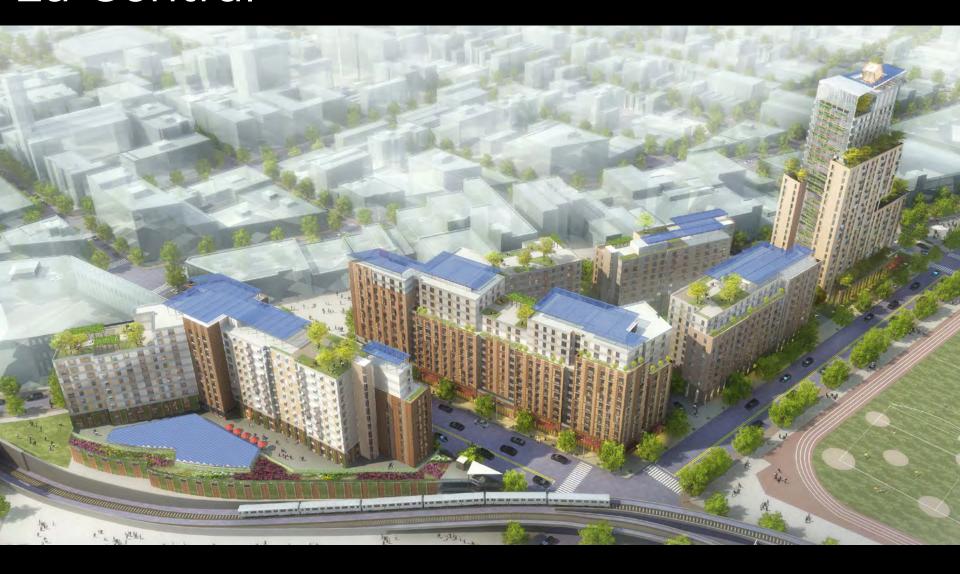


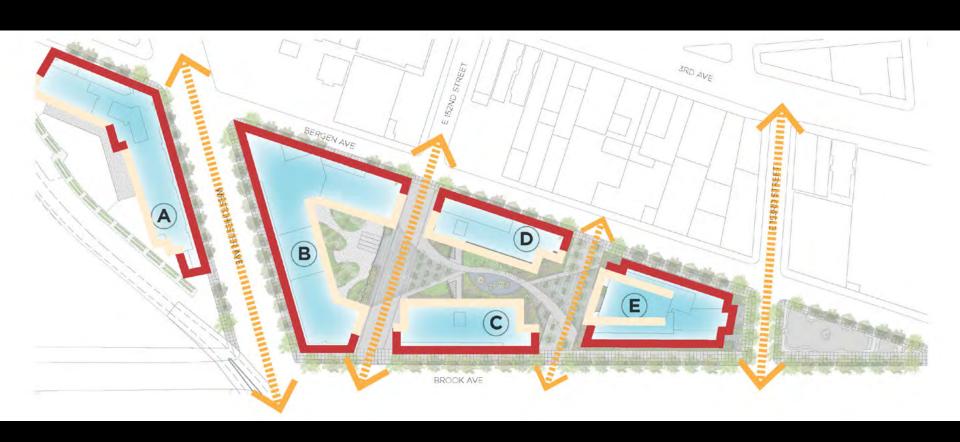






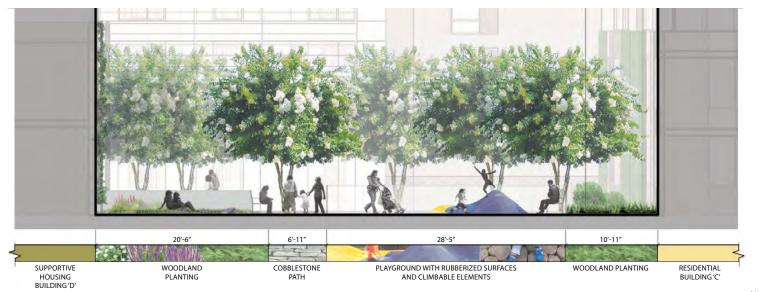
# La Central





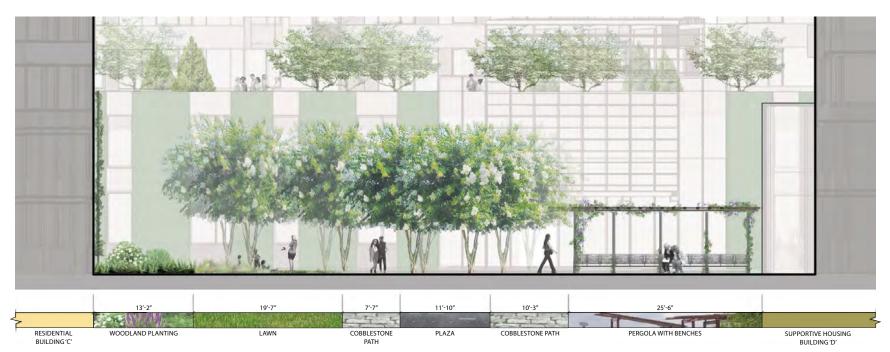




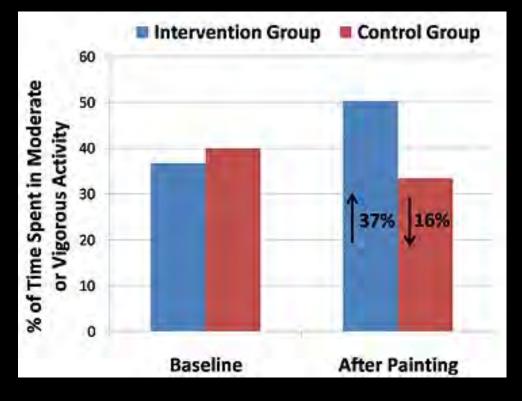


## NORTHERN COURTYARD SECTION LOOKING NORTH

SCALE: 1/8"=1'-0"



SOUTHERN COURTYARD SECTION LOOKING SOUTH SCALE: 1/16"=1'-0"



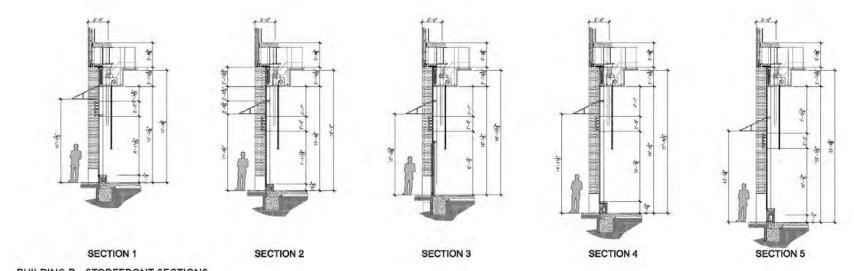




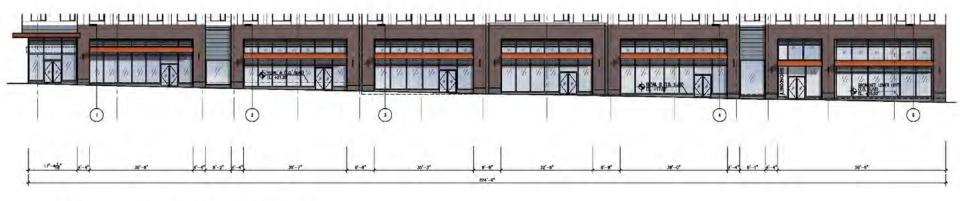








BUILDING B - STOREFRONT SECTIONS SCALE: 1/4" = 1'-O'



BUILDING B - RETAIL ELEVATION WESTCHESTER AVE. (NOT TO SCALE)







## Price of Bananas per pound

















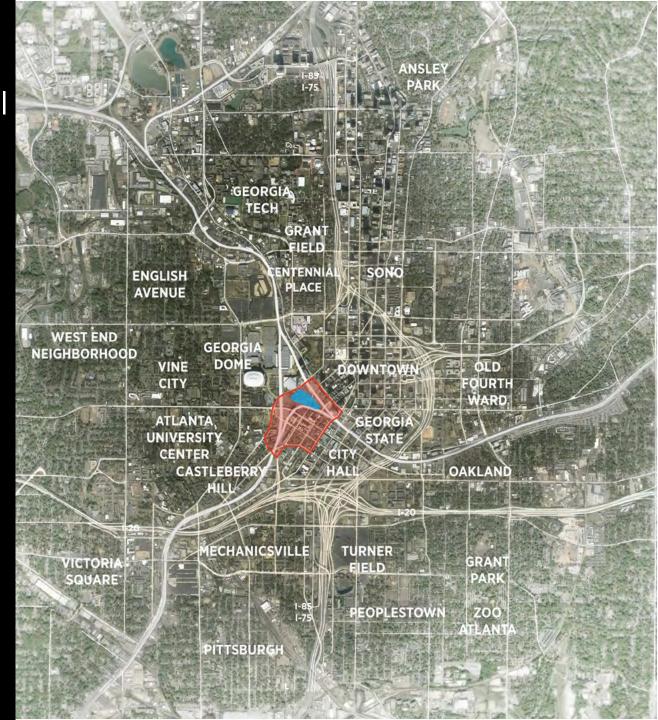
## Georgia Multi Modal Passenger Terminal

## Client:

Georgia Department of Transportation & F.I.C. (Forest City, Integral, & Cousins)

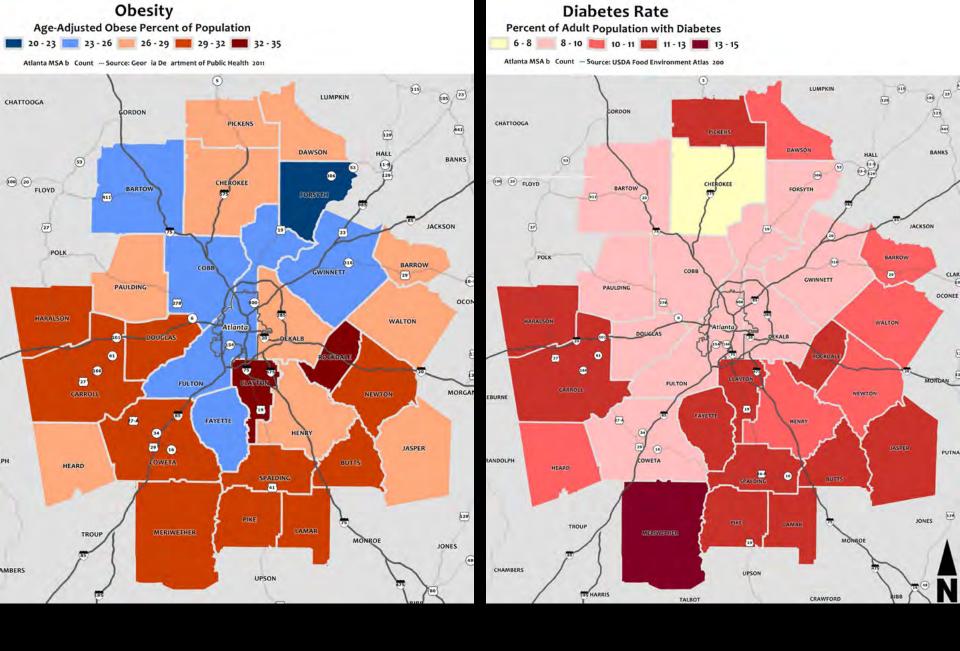
## Design Team:

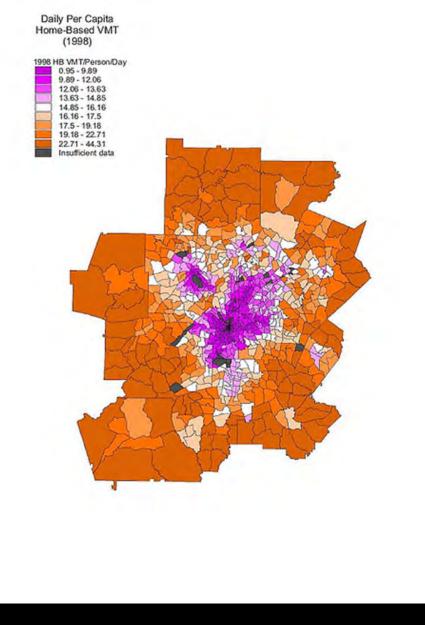
FXFOWLE Cooper Carry PB, Engineers Kimley Horn

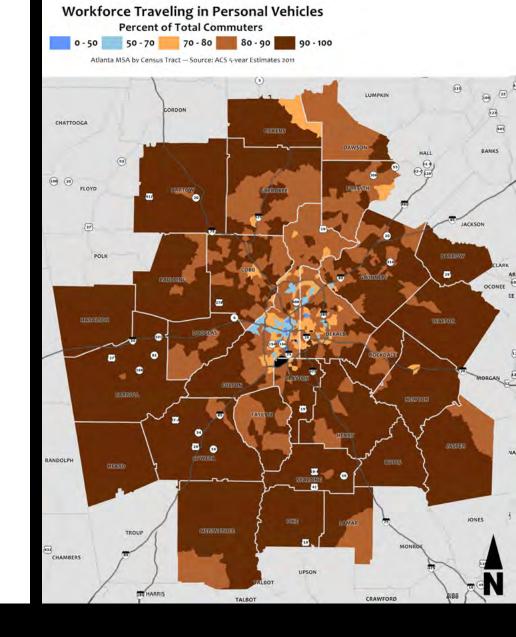


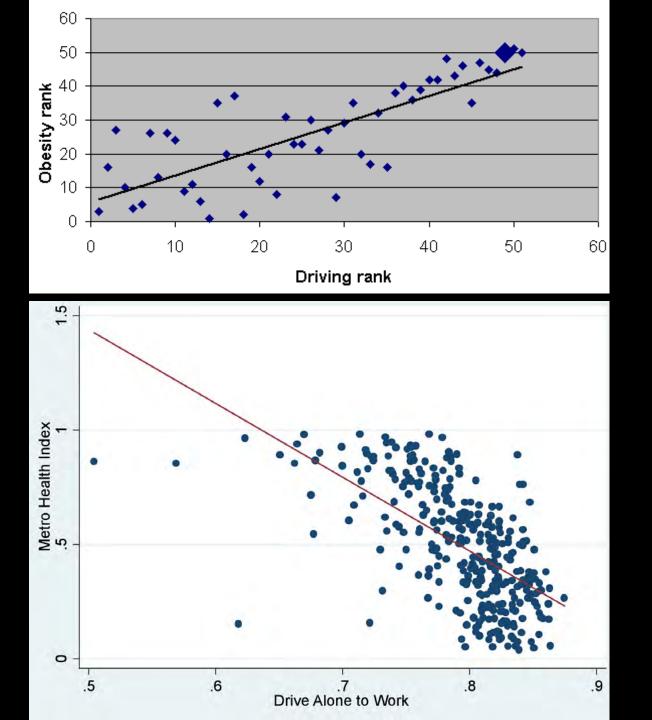


The Metropolitan Atlanta Area (5 million drivers over 8,000 sq miles) spends approximately 16 million dollars on gasoline every day.









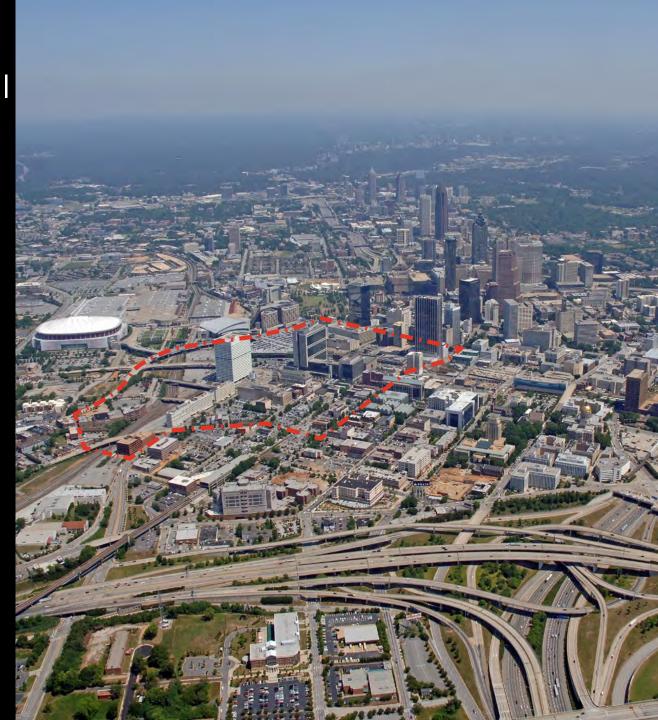
## Georgia Multi Modal Passenger Terminal

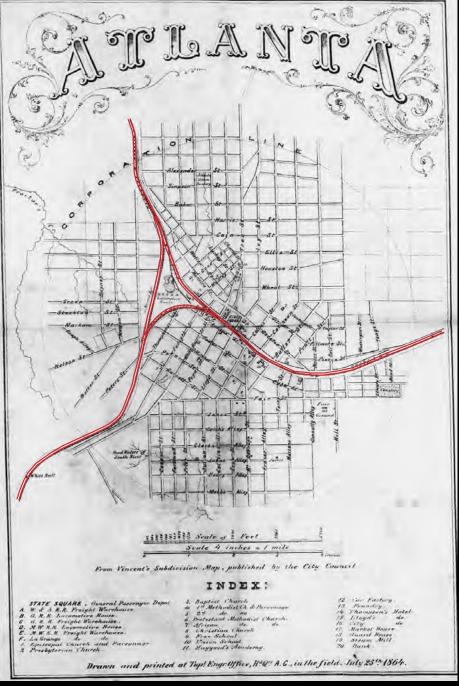
### Master Plan

- 120 Acres
- 11,645,425 sf Total Development
- 13 Acres of New Parks
- 6,250 Linear Feet of New Streets

## **MMPT Station**

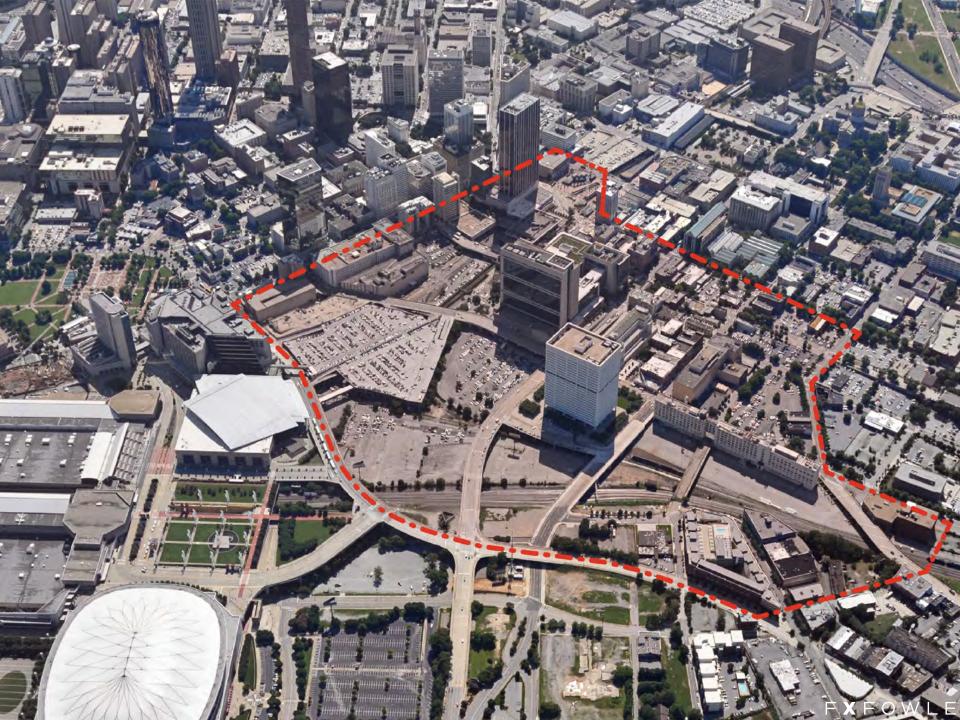
- 1,753,000 sf
- 5 Commuter Rail Platforms
- High Speed Rail Capacity
- 64 Local, Regional, Intercity Bus Stalls
- 663,450 sf Residential
- 231,050 sf Retail
- 1,775,000 sf Office



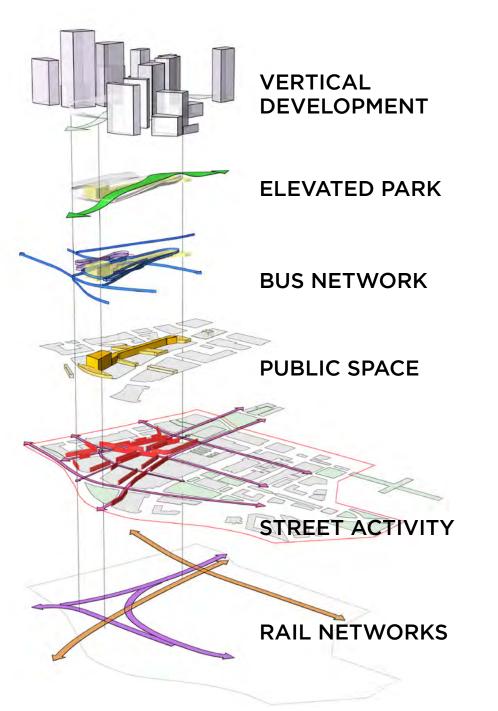


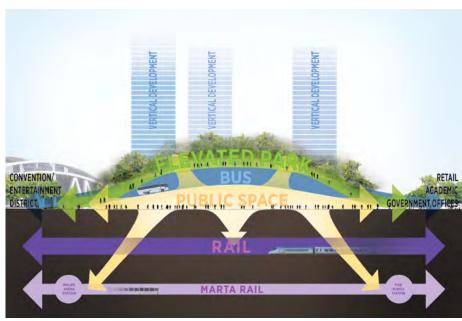


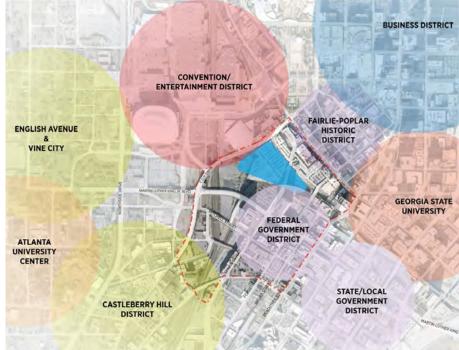








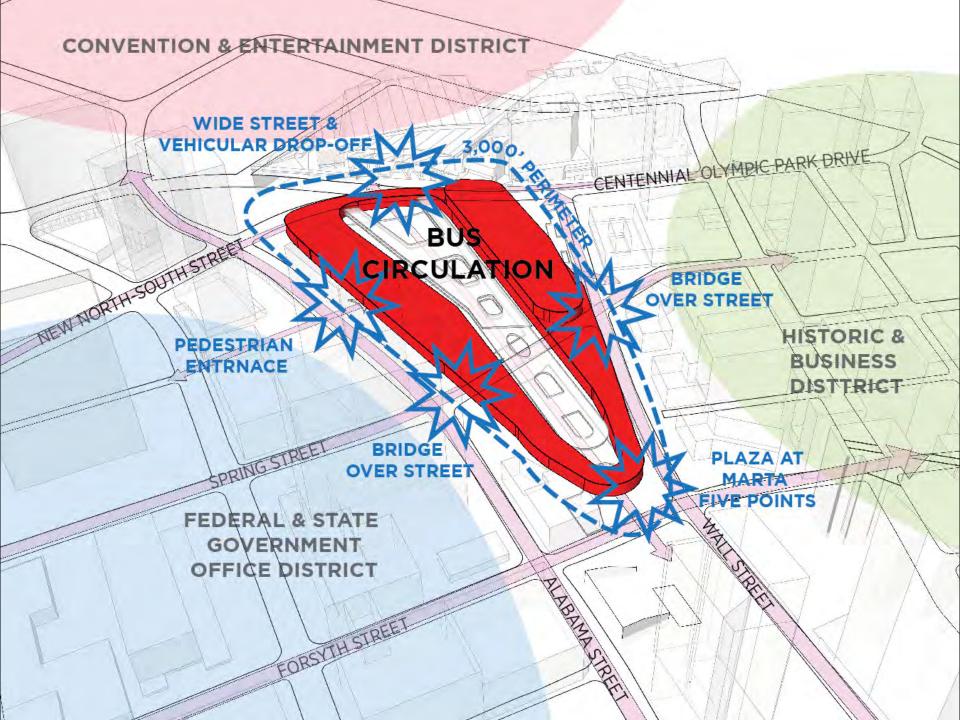


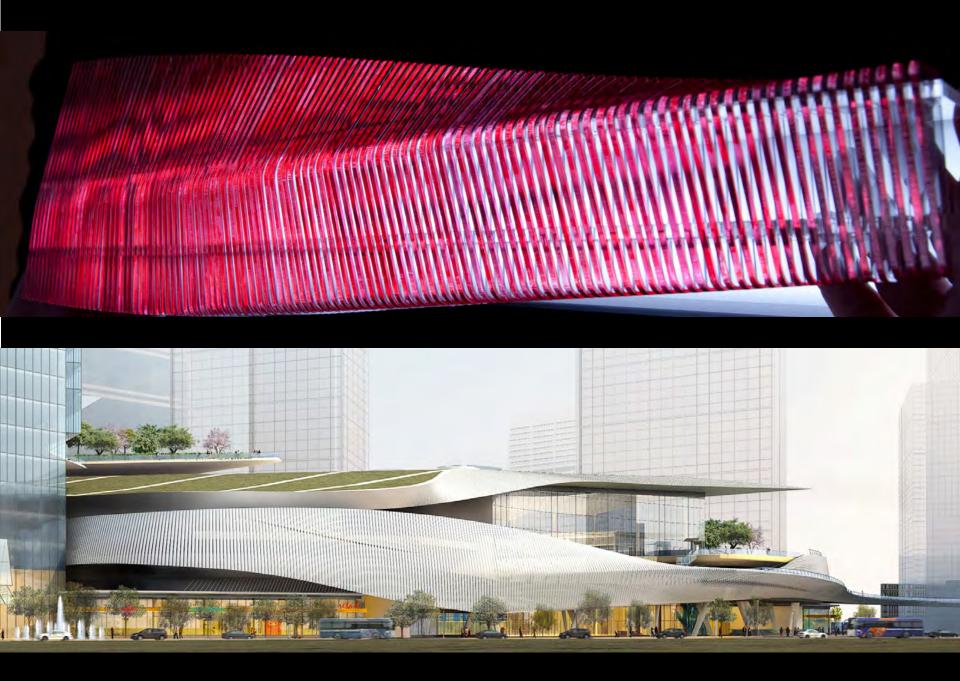












#### FXFOWLE







- 1. STREET LEVEL (CENTENNIAL OLYMPIC PARK DRIVE)
- 2. BUS BRIDGE/PORTE COCHERE/DROP OFF
- 3. GREAT HALL
- 4. EXISTING MARTA SUBWAY TUNNEL

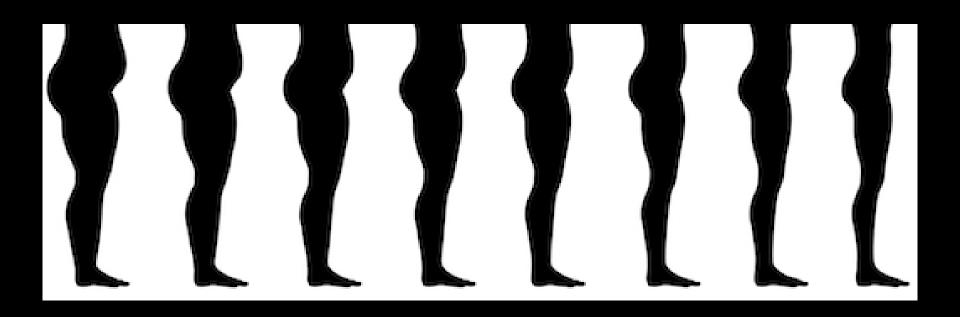
- 5. TRACK LEVEL
- 6. BUS LEVEL BUS BAYS
- 7. PARK LEVEL RESTAURANTS & RETAIL
- 8. ROOFTOP PARK

- 9. BUS LEVEL- BUS CIRCULATION & LAYOVER
- 10. STREET RETAIL
- 11. PERMEABLE ENCLOSURE
- 12. ROOF ACCESS PEDESTRIAN RAMP

- 13. STREET LEVEL STREETCAR STOP
- 14. OVERBUILD DEVELOPMENT OFFICE
- 15. OVERBUILD DEVELOPMENT RESIDENTIAL
- 16. SERVICE AND SUPPORT ACCESS AREAS



# How does designing for health affect your bottom line?



#### **Design Elements**

- Inviting and Appealing Stairs for Everyday Use
- Attractive Walking Routes
- Mixed Land Use
- Accessible Nearby Transit
- Parks, Open Spaces, and Recreational Facilities
- Children's Play Areas
- Public Plazas
- Street Connectivity
- Engaging Streetscapes
- Exercise Facilities
- Bicycle Infrastructure and Networks

#### DESIGN ---> HEALTH

Design can change behavior.

Changed behavior can improve health.

Design can improve health.

Improved health = LIVES SAVED

Can designing for health reduce this by 50%?

Can designing for health

reduce this by 50%?

25%?

Can designing for health

reduce this by 50%?

25%?

5%?

#### Can designing for health

reduce this by 50%?

25%?

5%?

1%?

#### Can designing for health

reduce this by 50%?

25%?

5%?

1%?

1% = 3000 Lives Saved

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