


The Contemporary Metropolis After Relentless Urbanization NYC EcoDistricts



ARCH 702: Urban Design Studio
NYIT-Manhattan,
Spring 2017
Faculty: Jeffrey Raven

Abstract

Our contemporary cities exist in perpetual urgency: metropolitan territories demonstrate tremendous diversity and complexity in growth and decline. By 2050, 70 percent or so of the world will live in cities. What does it mean for us to live together? And what will it mean for us to live together, several generations from now in the future? To elaborate this paradox is to understand the question of organization, or how we live together and mix. It is through this lens and the interdisciplinary filter of urban design that we must today more than ever question/probe/critique/rebuild/re-invent our built and natural systems.

Introduction

This studio engages New York City as a laboratory and introduces the ideas, representations, and techniques of contemporary urban design and discourse through the lens of a resilient built environment. By analyzing and questioning the morphology/organizations/processes inherited from the past, we will propose a new vision for the city. We will innovate new patterns of human concentration as opposed to perpetuating the last 80 years of relentless expansion. Working in a post-industrial city requires the critical investigation and re-definition of the many layers of existing and past urban fabric and urban infrastructure to shape the city to the needs of its future inhabitants.

Our focus will be on a new resilient vision for New York City—in the form of re-thinking how we live (and work) together at the scale of an EcoDistrict, driven by new strategies that weave transit, housing, natural systems and the public realm. New York City, the most populous and the most urban of America's cities will serve as a laboratory for these investigations.

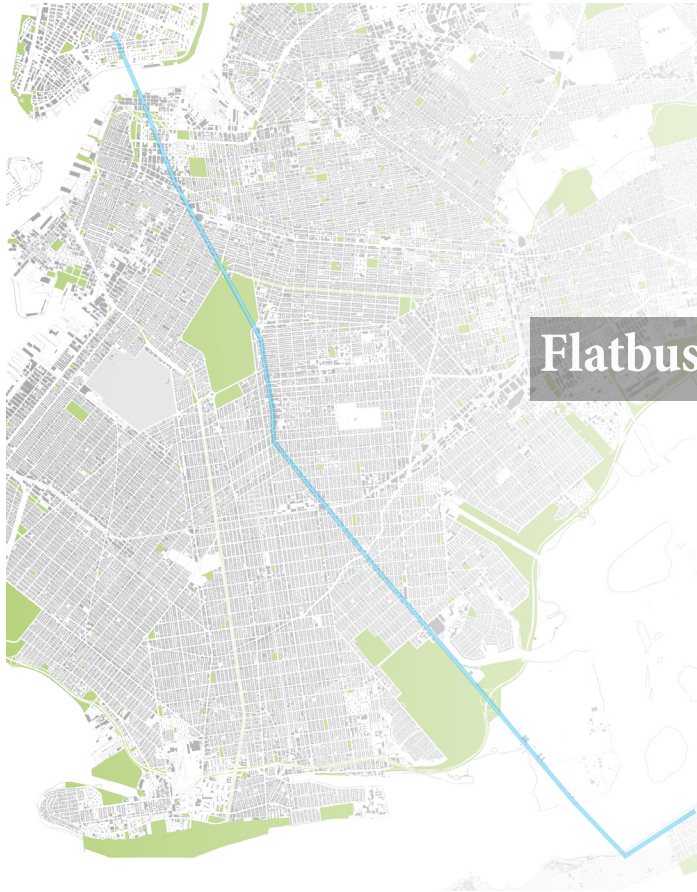
Methodology

In urban design, site is not a given; students must identify and investigate the complex, layered contexts, operating at multiple scales, within which urban places are embedded. Similarly, the construction of program is within the urban designer's purview; opportunities exist to extend and expand the field for human action and interaction. Working in multiple scales as well as multiple time frames will be an integral part of this investigation to design an intervention that follows a speculative hypothesis for the future of the City.

The techniques of investigating a site; its physical and non-physical context; its geographic, historical, or socioeconomic aspects; its boundaries and networks; and its areas of influence and impact create knowledge about the site. In this studio, we treat drawings, diagrams and models not as final representations of a proposal, but as material evidence for a process of "thinking through making". Students will be introduced to a variety of different techniques throughout the semester and we encourage students to test, refine, and sharpen skills of representation as a means of thinking and communicating complex ideas.

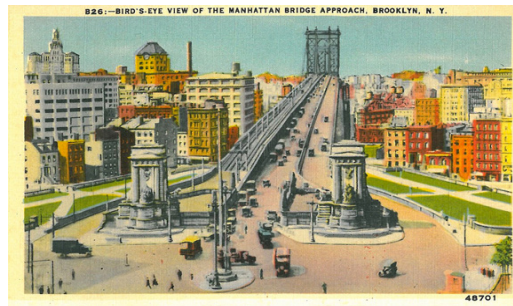
In developing an urban design project, the process by which we imagine a project being implemented is an essential part of design itself. Who are the stakeholders that would advocate for or pay for the project? Who are the users that would benefit? What is the timeframe in which it is envisioned? Speculative answers to these questions inform the decision-making process for the physical manifestation of the urban design project.

Students will be asked to translate investigation of site and program, and the making of knowledge about an urban site into a series of conceptual hypotheses for the site that operate on several scales and in several temporal dimensions. In the context of this studio, students will be asked to speculate with innovative models for how New Yorkers in the 21st century will live and work, and mechanisms to develop such models. Students will then be asked to apply a hypotheses to their specific site and develop design proposals that confront how we live together into physical space.



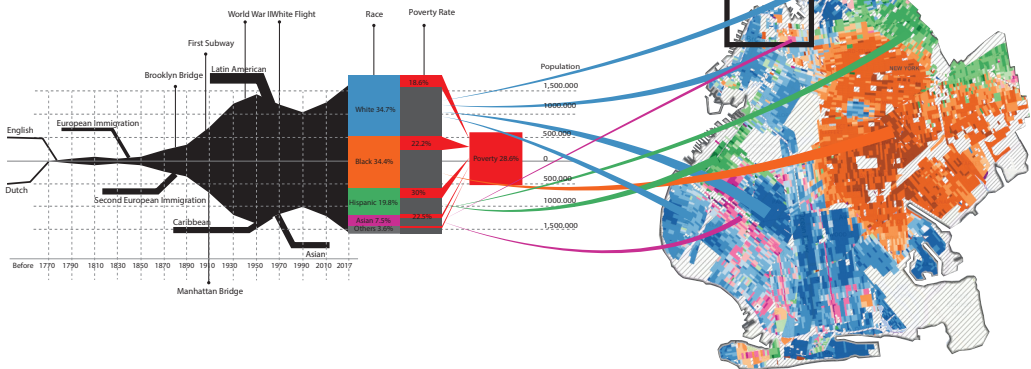
Flatbush Avenue- Gateway to DOBRO

Shenger Dai
New York Institute of Technology
5/22/2017



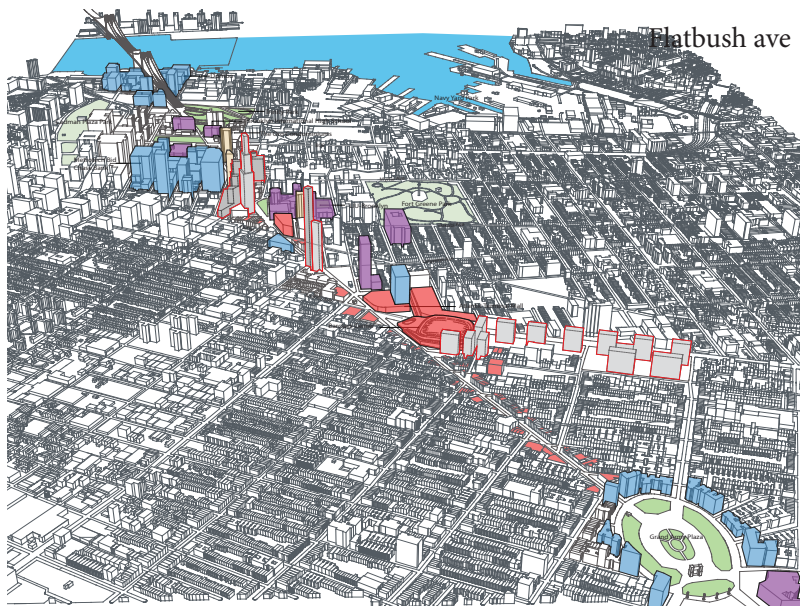
Brooklyn

Brooklyn Census

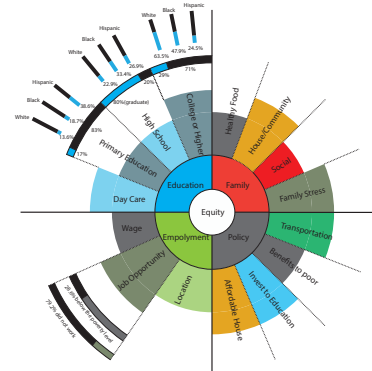


History of DOBRO



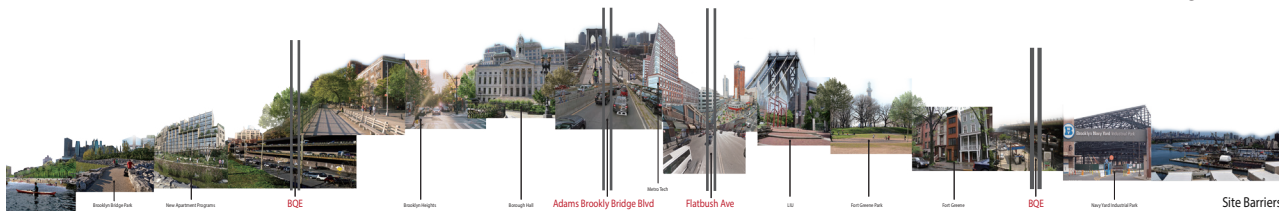


Equity Elements Analysis



- School
- Office
- Commercial
- Residential
- Future development

Collage Section

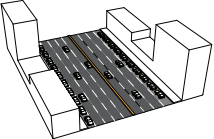
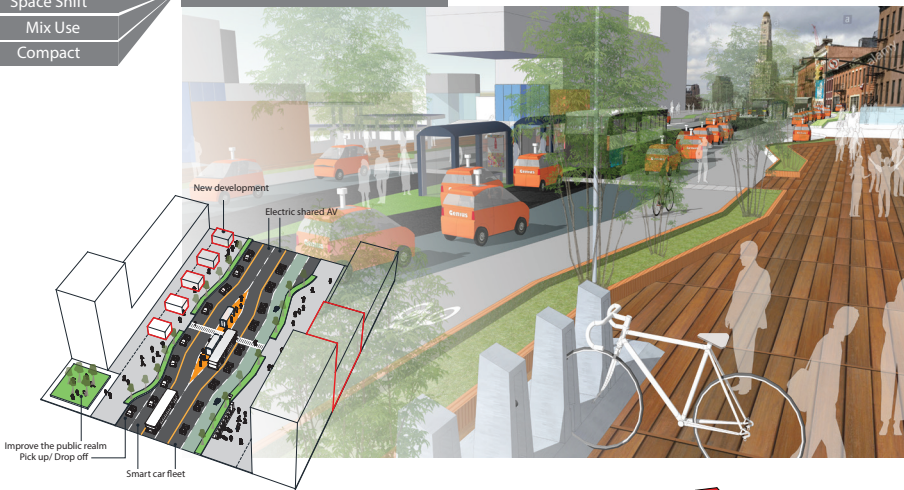


Brooklyn

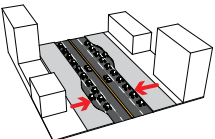
- Walk/ Cycle
- O Emission
- Public Transport
- Space Shift
- Mix Use
- Compact

Transit-Oriented Transportation

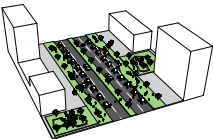
Streetscape



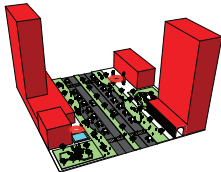
Current : express way



Reduce the traffic

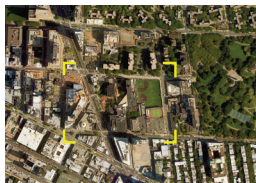
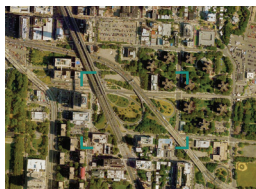
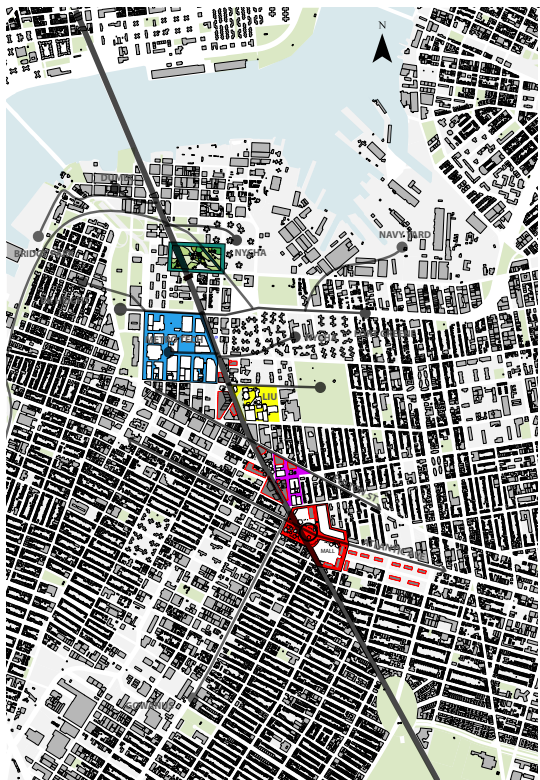


Improve the public realm



Social stage

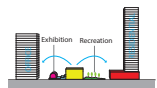
Brooklyn



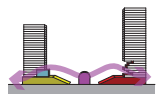
Gateway Portal



College District



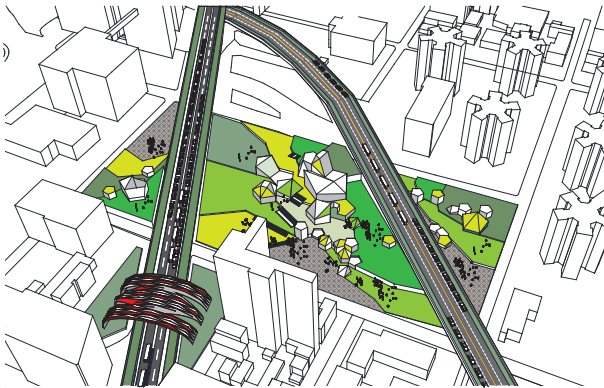
Cultural District



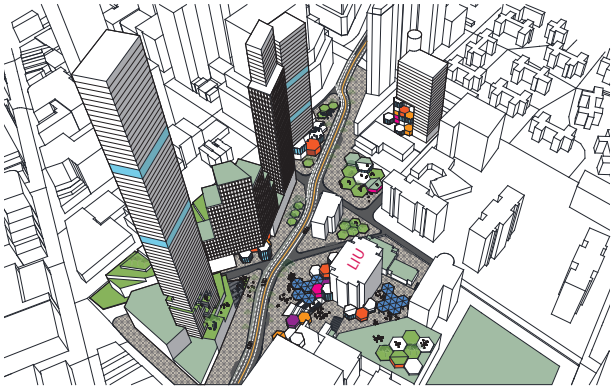
Vertical Linkage



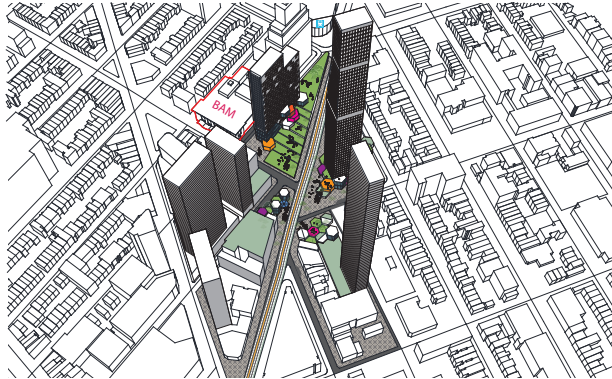
Brooklyn



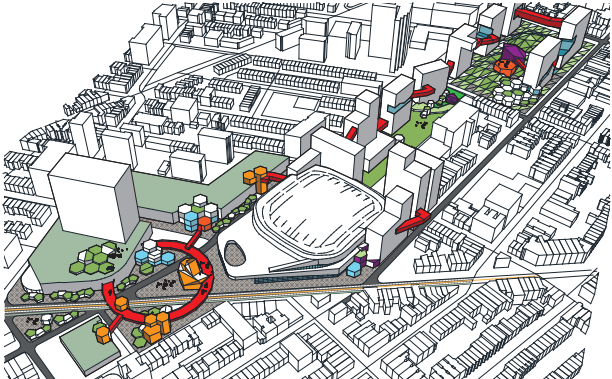
Gateway Portal



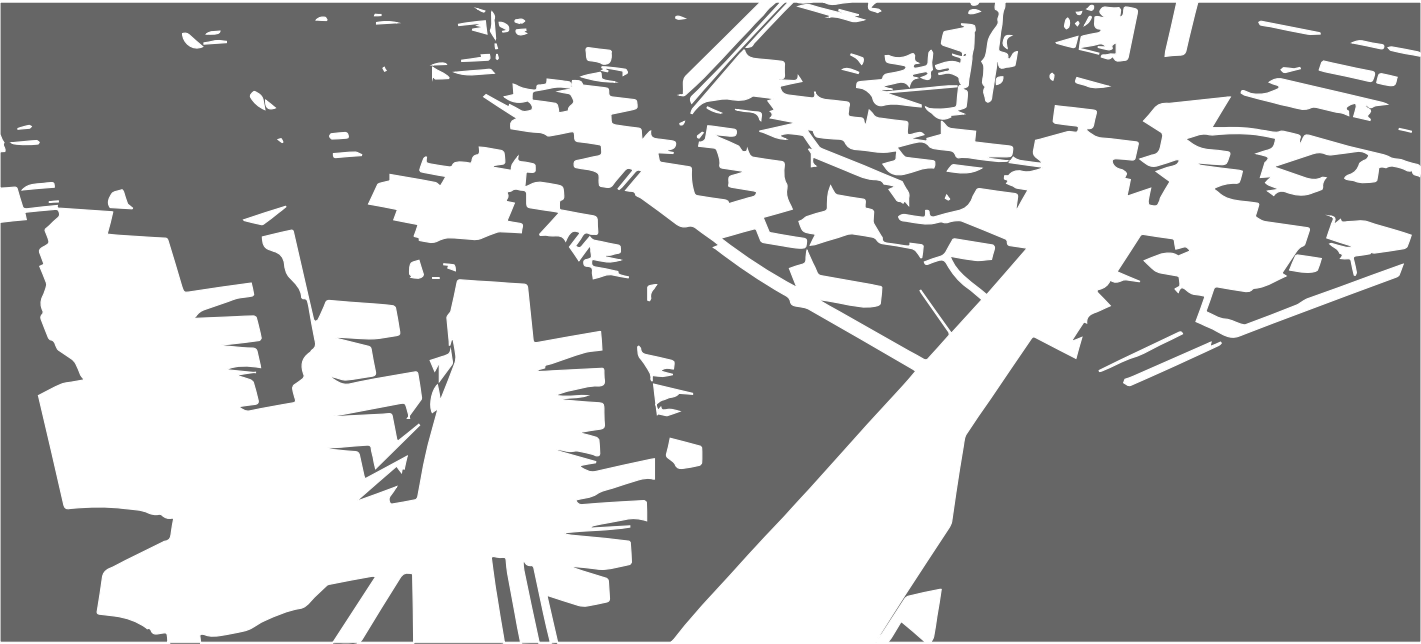
College District



Cultural District



Vertical Linkage



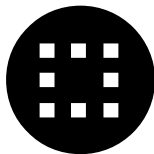
Manu-Factory-d-Spaces

Kunal Shah

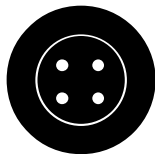
Brooklyn



IDEATION



PATTERN-MAKING



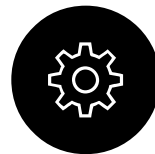
MATERIALS



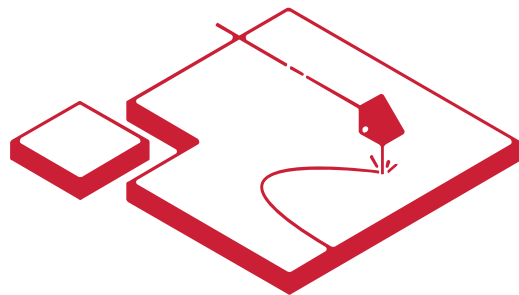
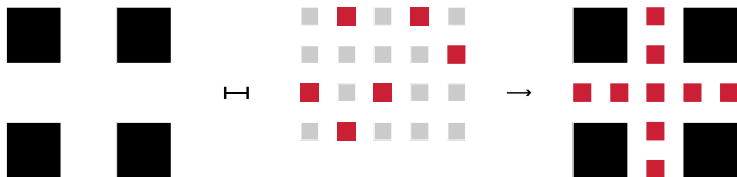
SAMPLE-MAKING



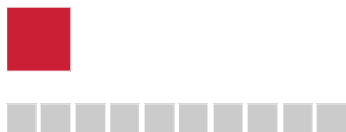
TOOLING



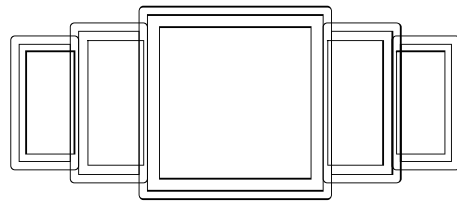
PRODUCTION



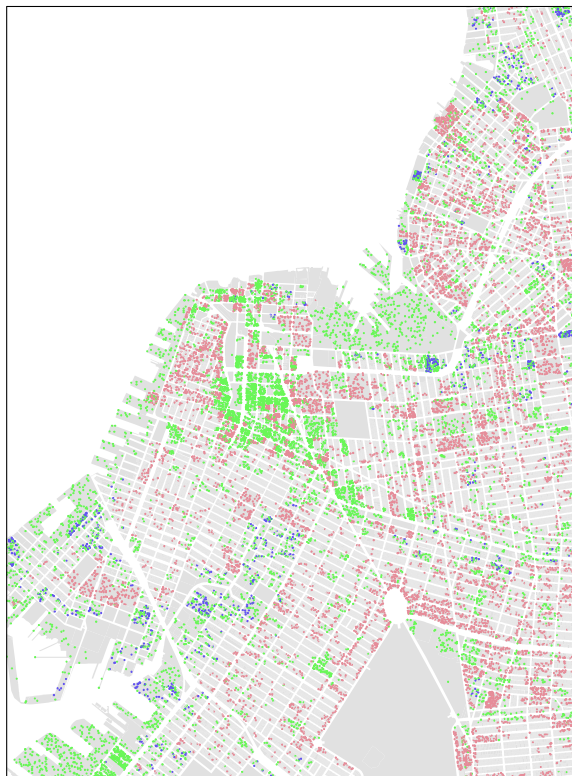
EXISTING



VISION



Brooklyn



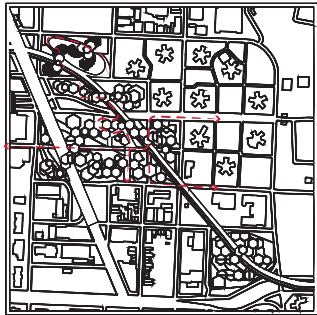
1 Dot = 15,000

- ResArea
- ComArea
- FactoryArea

Brooklyn



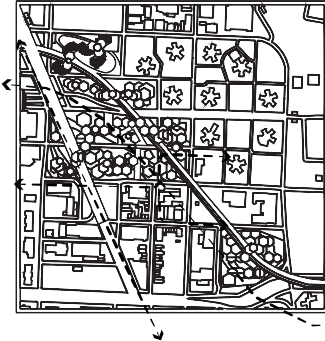
PUBLIC FLOW



ACCESS FROM BQE



MAJOR
VEHICULAR FLOW

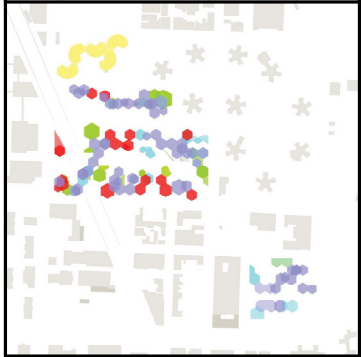
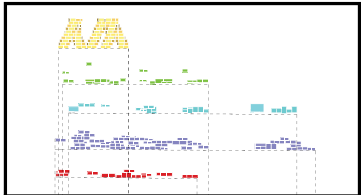


RELATIONSHIP
BETWEEN NYCHA
HOUSING AND SITE



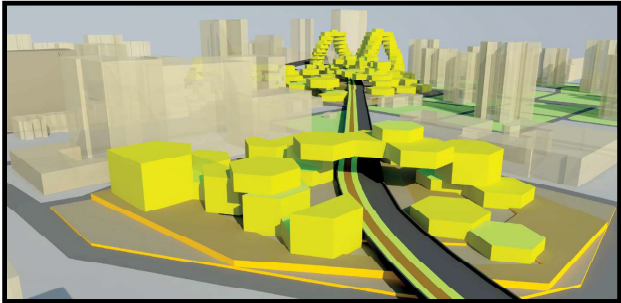
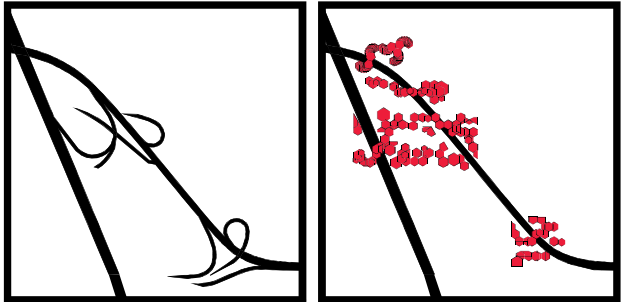


SITE PLAN



- COMMERCIAL
- MANUFACTURING
- PUBLIC BUILDING
- RECREATION
- RESIDENTIAL

Brooklyn

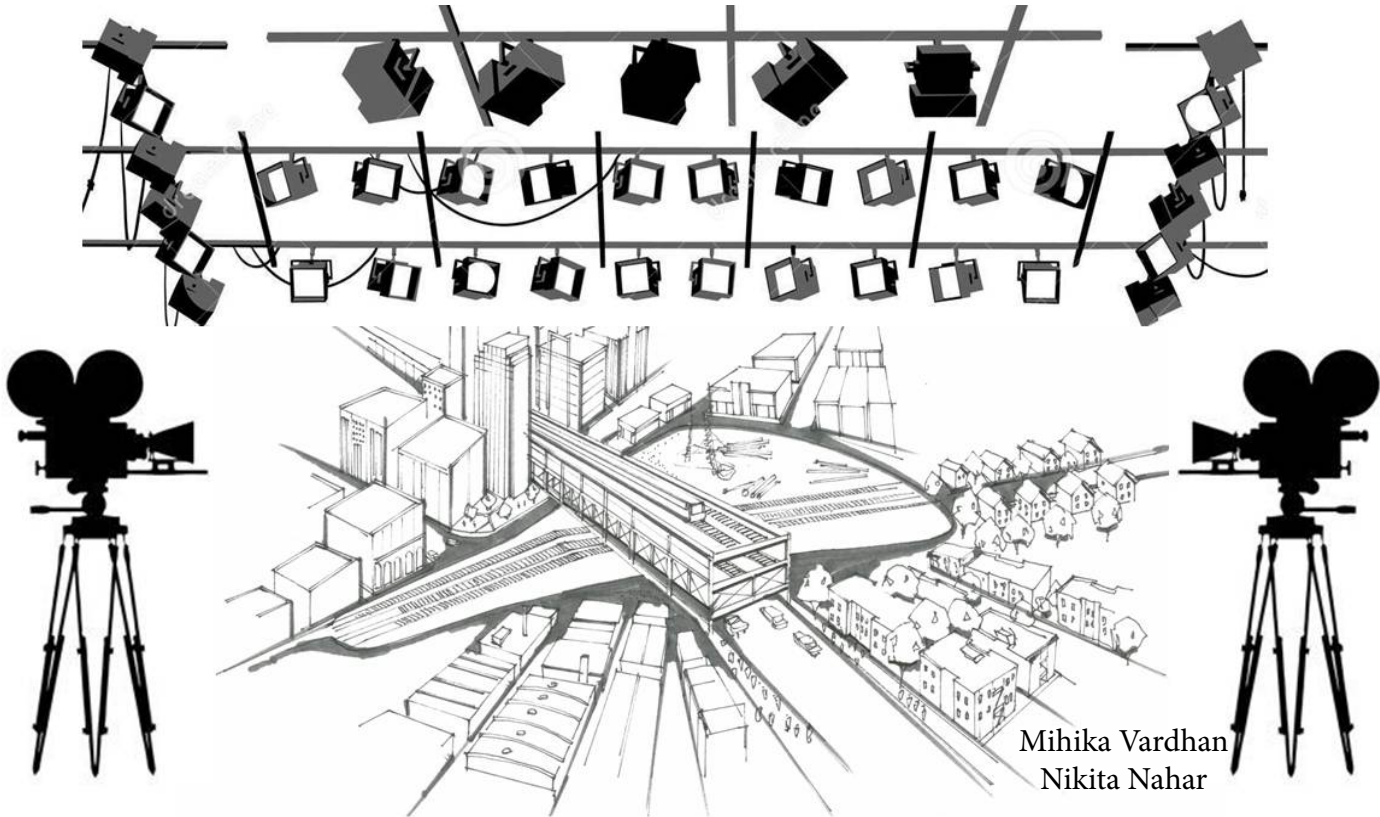


SECTION A - A'

SECTION B - B'

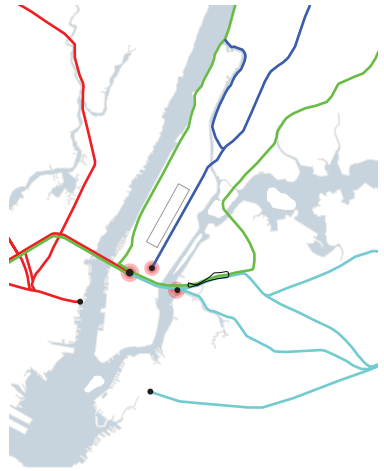


SUNNYSIDE FILM CITY



Mihika Vardhan
Nikita Nahar

Queens



— NJ Transit — Amtrak
— Metro North — LIRR

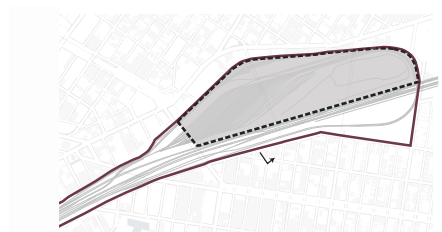
REGIONAL TRAIN CONNECTIONS



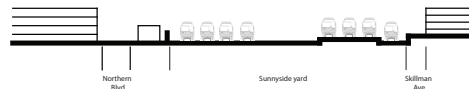
Regional move will connect rail agencies and no need to store trains in yards.

REGIONAL MOVE - for connection

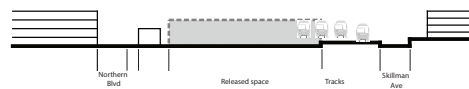
Regional Move



Space released due to regional move



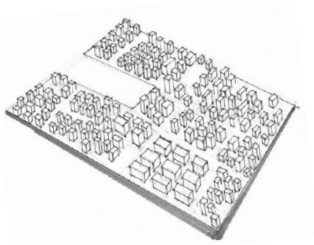
Existing section of yard



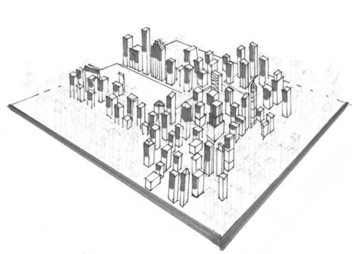
Space released section - after regional move



EXISTING NEIGHBORHOOD

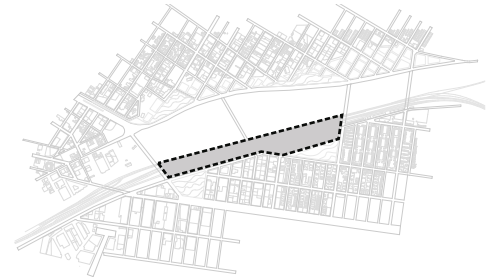


Low density of Neighborhood



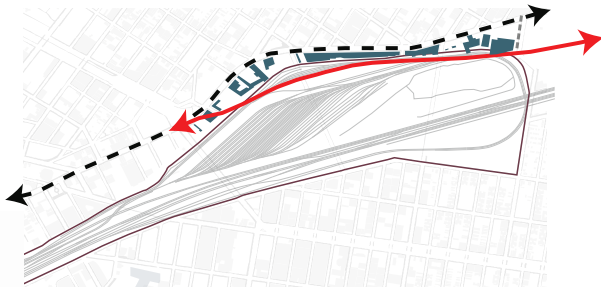
Increased density of Neighborhood rather than decking on yard

SPACE ISSUE IN NEW YORK

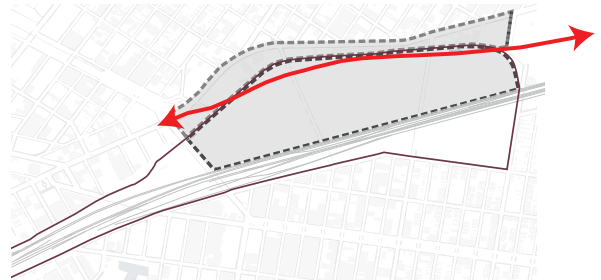


Deck over rail tracks

DECKING ON TRACKS



--- Existing Northern Blvd — Proposed Northern Blvd ■ Affecting Private Building

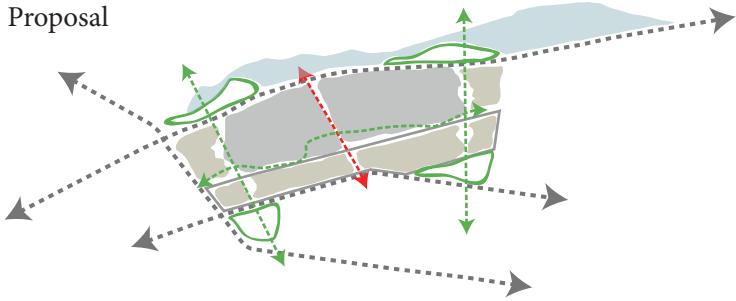


■ Available space for development — Proposed Northern Blvd

RE-ORIENTING NORTHERN BLVD

Queens

Proposal



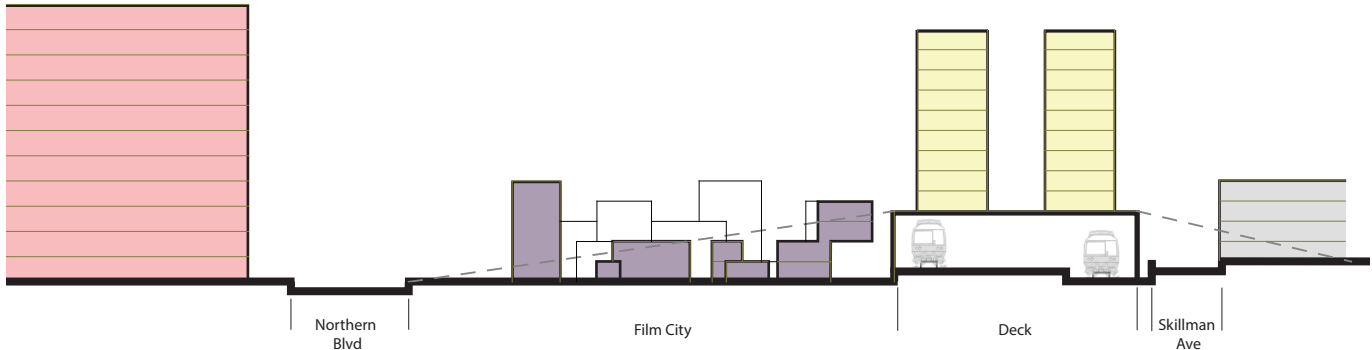
- Public + Private zone
- Private zone
- Public zone
- Green zone
- Green connector
- Road connector



- Entertainment Area
- Mixed Use
- Commercial
- Residential
- open space

SPACE DIVISION

PROPOSED ZONING

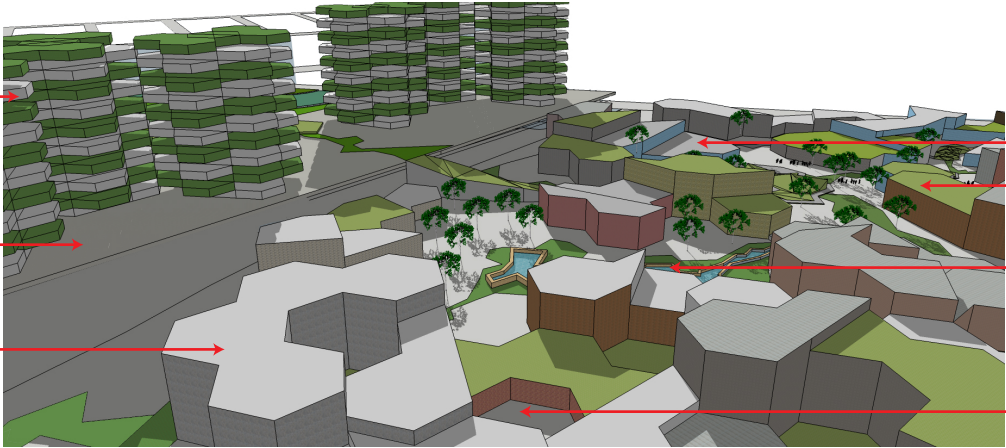


SCHEMATIC SECTION

Residential complex

Deck

Supporting office spaces
for film studio



Open film studio

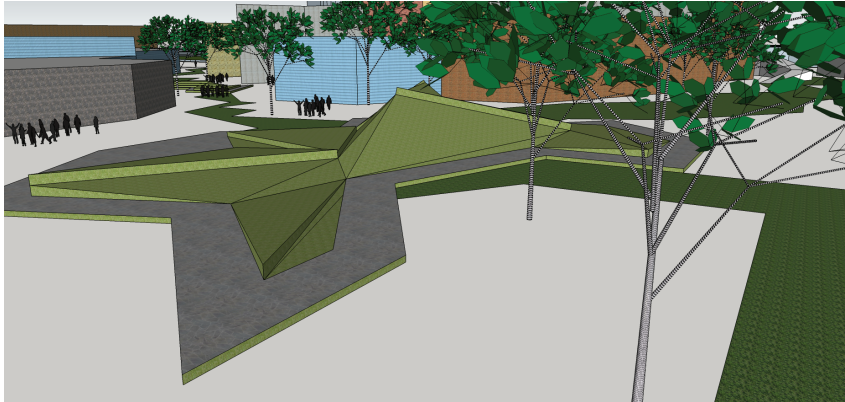
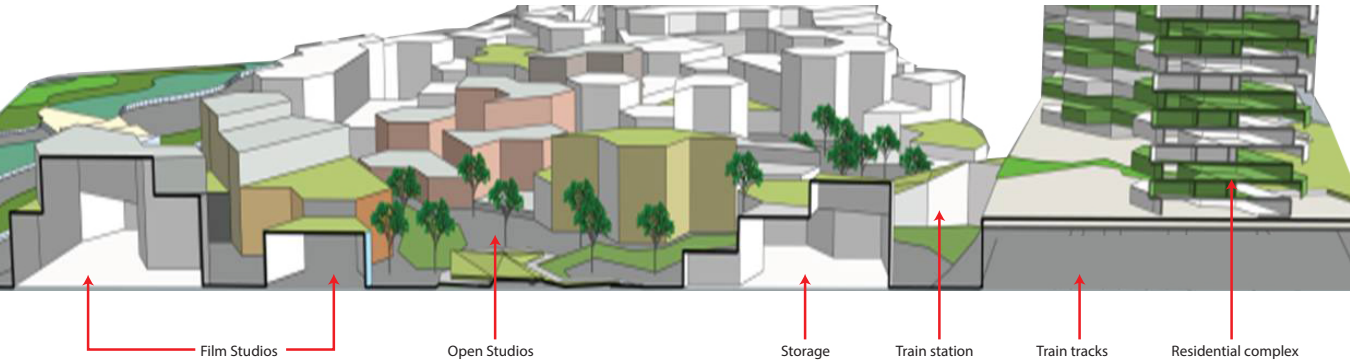
Film studio

Green & Blue pathway

Open space
between offices



Queens



"STEPPING UP"- SOUTH BRONX RIVERFRONT

Nimesha Padman
Saumya Shah



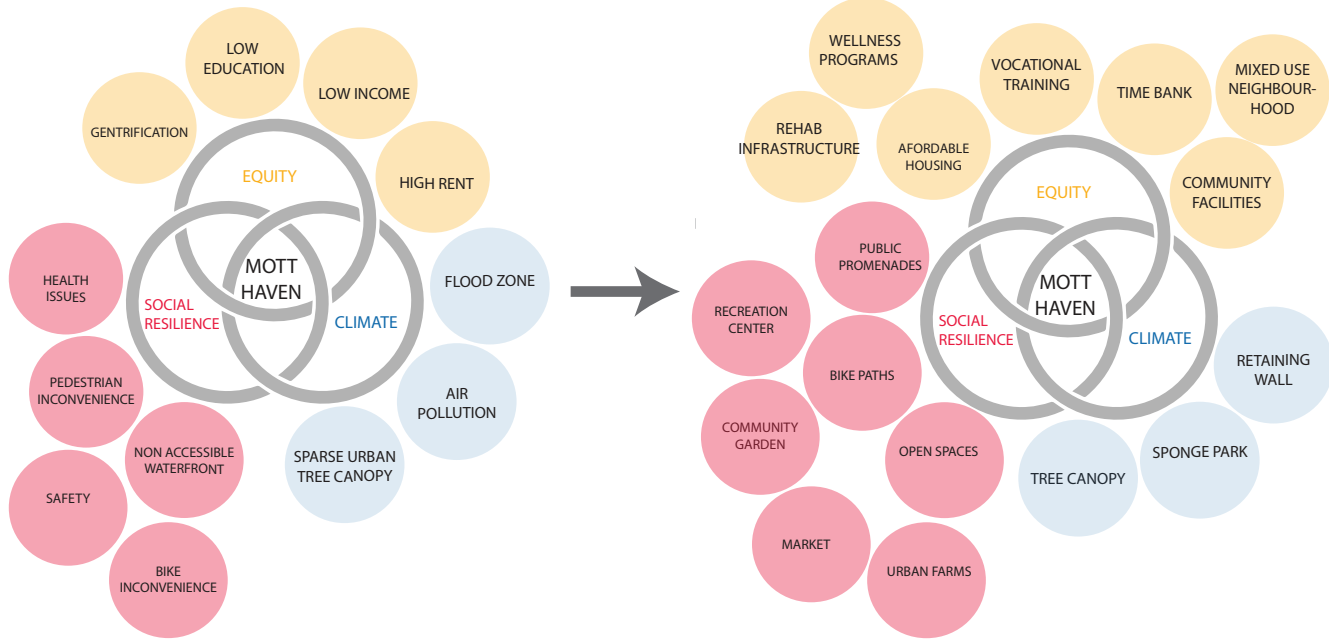
Mott Haven _ “Stepping UP”

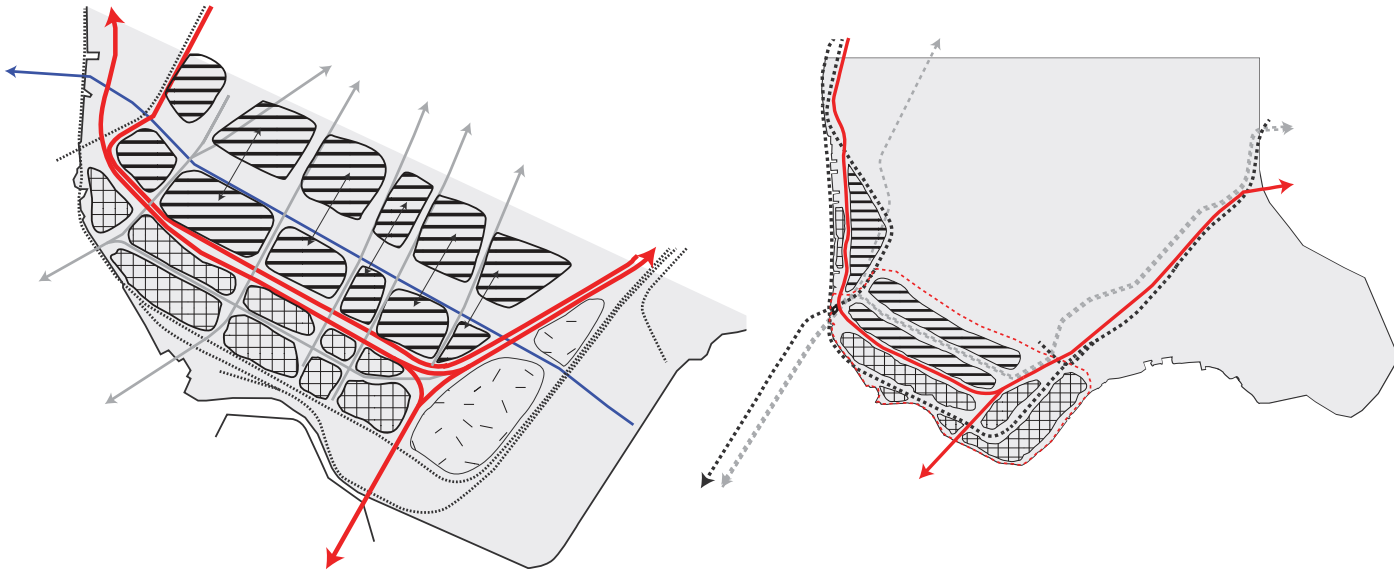
EQUITY








SOCIAL RESILIENCE

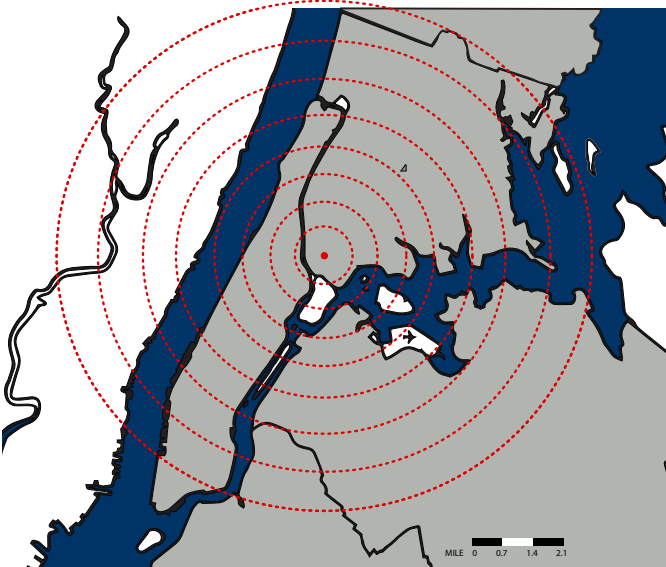
CLIMATE PROTETION

The Mott Haven “landbridge” is STEPPED UP based on the Eco District Protocol for a Neighbourhood that thrives on Social Resilience, Climate Protection and Equity....

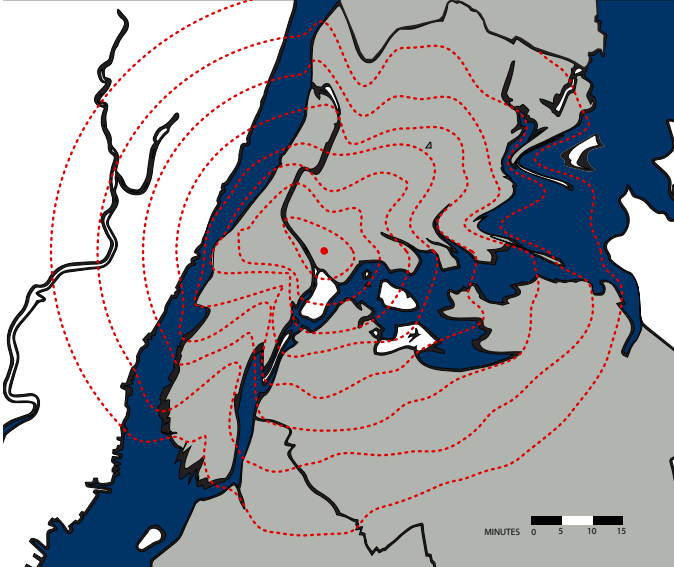




-  Major Deegan Highway (Barrier)
-  Subway line (Connection)
-  Rail lines
-  Streets
-  Island formed due to major transport lines
-  Island formed due to major transport lines
-  Island formed due to major transport lines



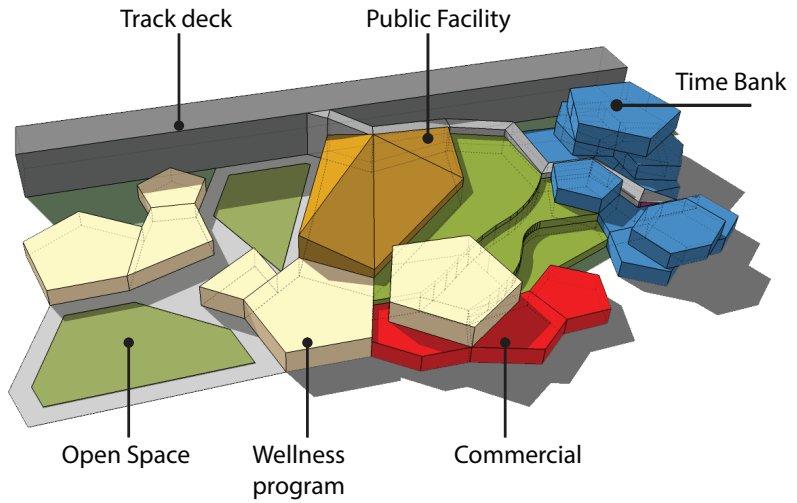
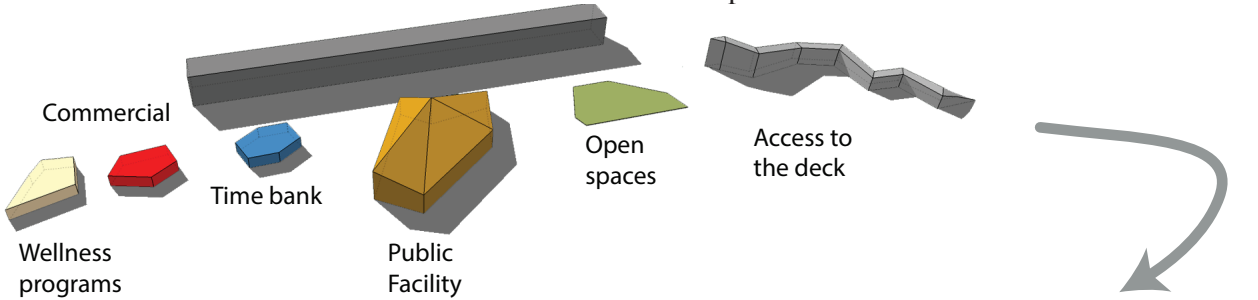
TRAVEL DISTANCE



TRAVEL TIME

Form and Function

Calibration of Spaces



Bronx



PHASE 1



Ferry Terminal

Yankee Stadium

EXISTING BRONX RIVER GREENWAY

SOUTH BRONX GREENWAY

PHASE 1
DEVELOPMENT OF
MOTT HAVEN

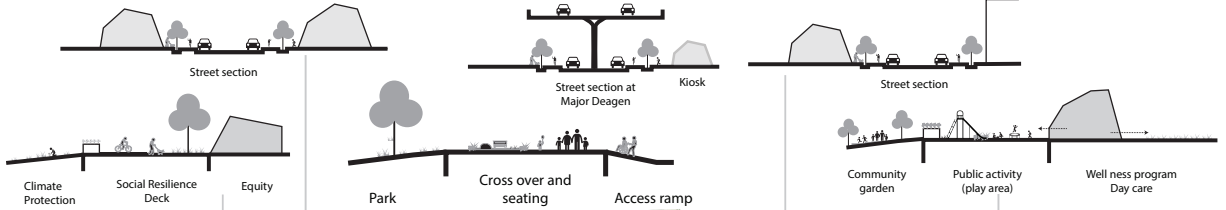
PHASE 1

PHASE 2

PHASE 3

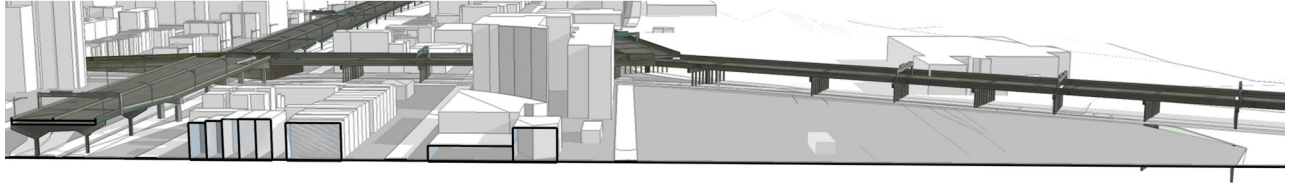
Hunts Point
Wastewater
Treatment Plant

VISION PLAN

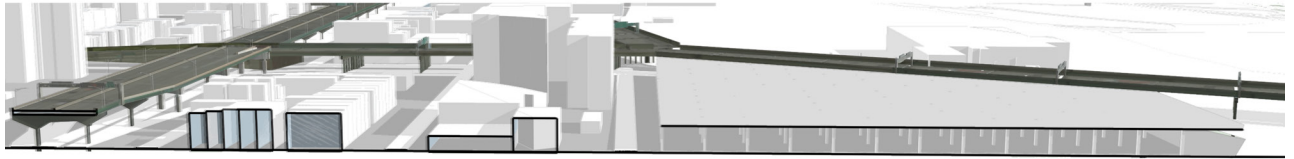


AERIAL VIEW AND TYPICAL ACTIVITY SECTIONS

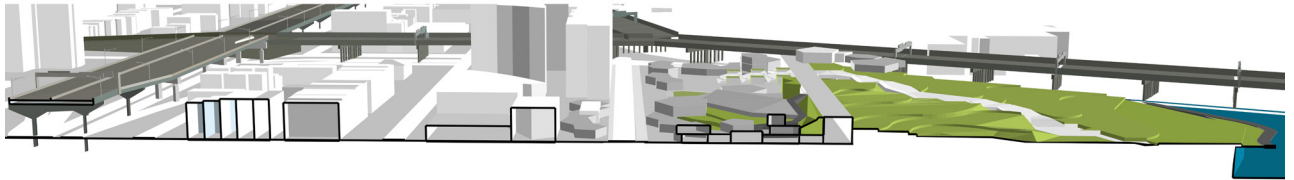
Bronx



EXISTING SECTION



100 % DECK SITUATION



STEPPED UP DECK



Course Faculty:

Jeffrey Raven, Associate Professor-ARCH 702 Urban Design Studio
Director Graduate Program in Urban and Regional Design

Students:

Kunal Shah
Mihika Vardhan
Nikita Hemant Nahar
Nimesha Ashok Padman
Saumya Nitinchandra Shah
Shenger Dai

This **design jury** drew from faculty and active professionals leading global practices based in the New York City Metroplotian areas.

Erik Kath – rePLACE Urban Studio
Ashwini Karanth – NYC DDC, Columbia University
Nadya Nilina – Urban Design Fellow, NYC Dept of City Planning
David Grider – David Grider Architect
Evelyn Thomas – rePLACE Urban Studio
Farcia Soares - Grimshaw
Mike Aziz - Perkins & Will
Eugene Kwak - NYIT
J. Michael Schwarting - NYIT

