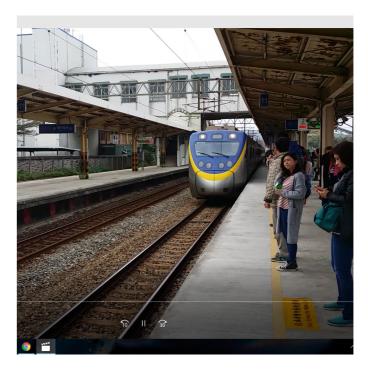




New transportation infrastructure system



Lead to prosperity



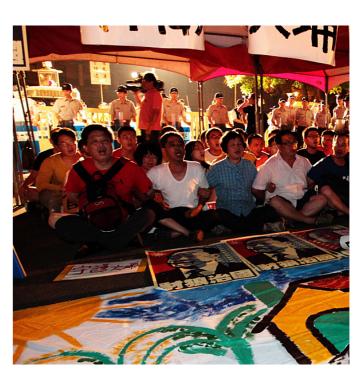
Becomes daily life



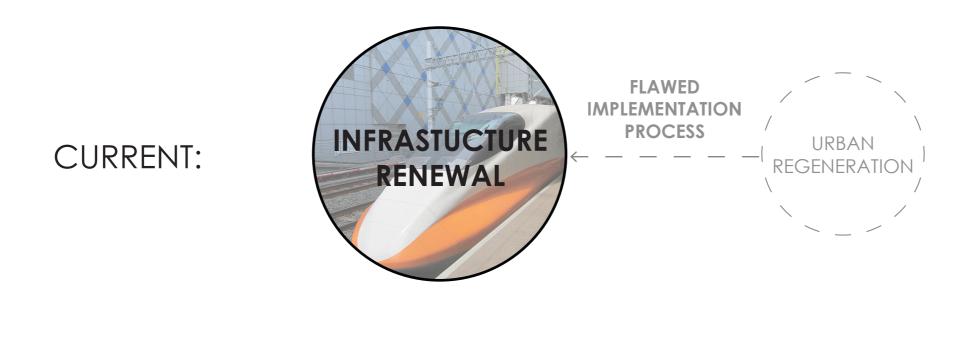
Technology improvement



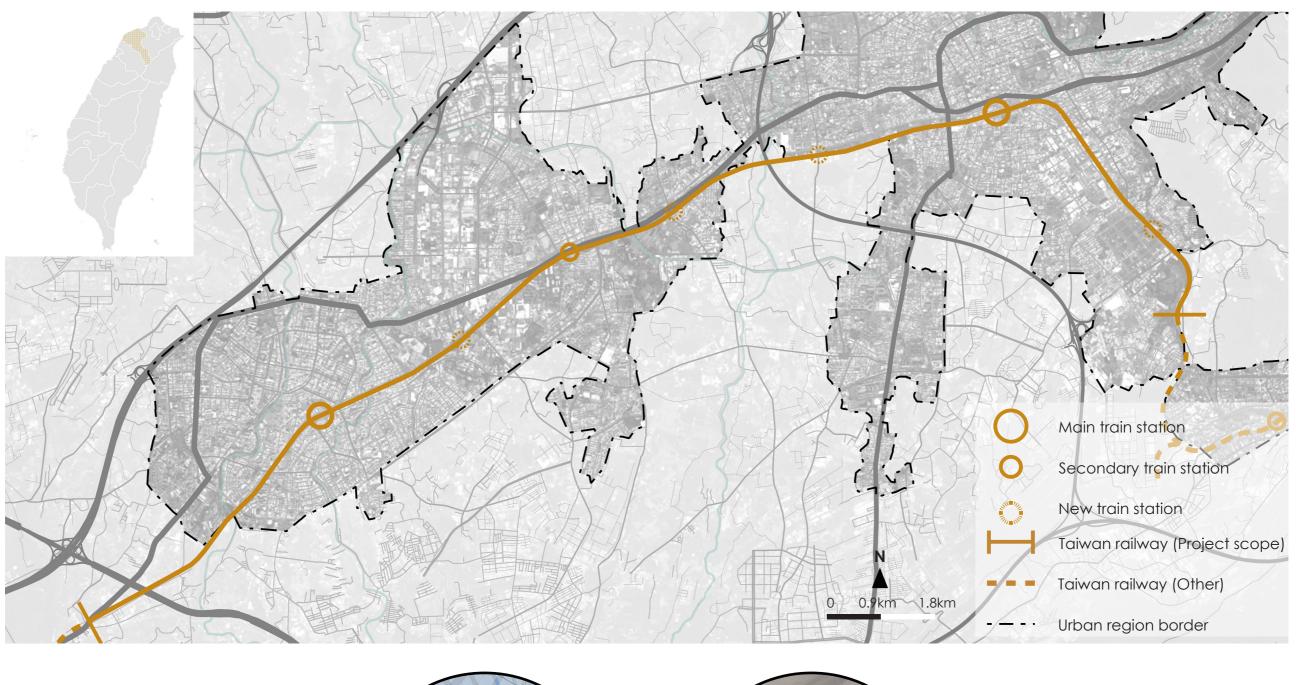
Urban problem

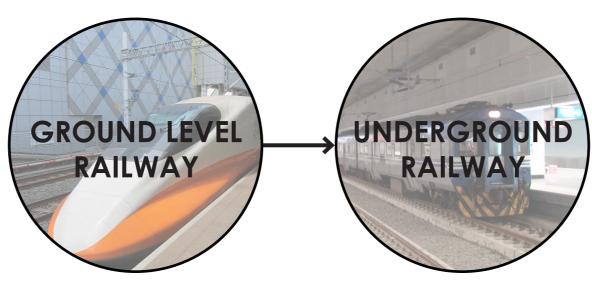


Public strife



IDEAL: TRIGGER URBAN REGENERATION













How to elevate TRA Taoyuan Project into an opportunity to integrate and trigger desired urban regeneration actions of its located urban environment?

What are the existing and possible urban problems that are (potentially) related to the implementation of TRA Taoyuan Project?

EXISTING URBAN
PROBLEMS OF TAIWAN
THAT ARE INDUCED BY
EXISTING RAILWAY

PREDICTIONS OF POSSIBLE PROBLEMS THAT WILL BE ENCOUNTERED DURING THE IMPLEMENTATION OF TRA TAOYUAN PROJECT

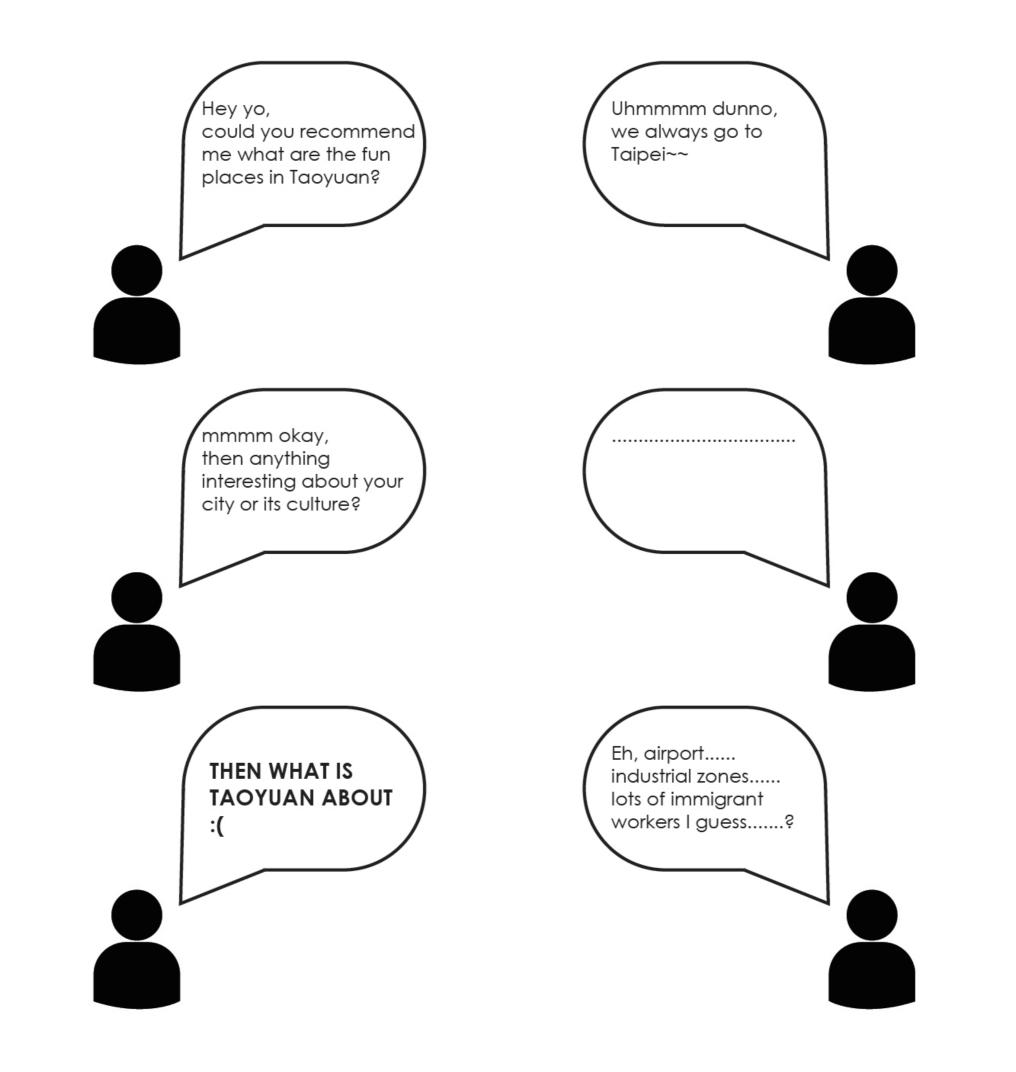
What are the existing and possible urban problems that are (potentially) related to the implementation of TRA Taoyuan Project?

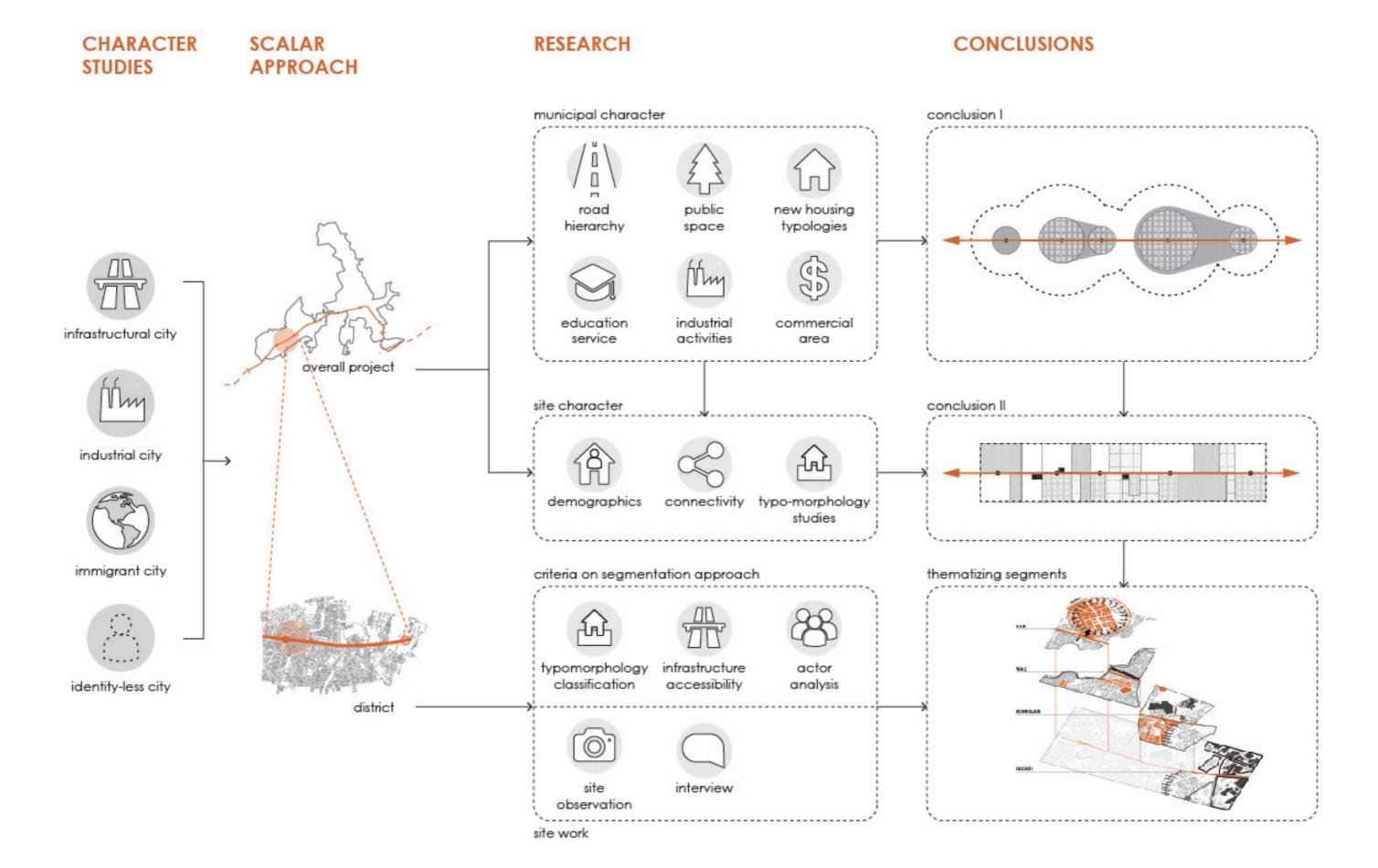
EXISTING URBAN
PROBLEMS OF TAIWAN
THAT ARE INDUCED BY
EXISTING RAILWAY





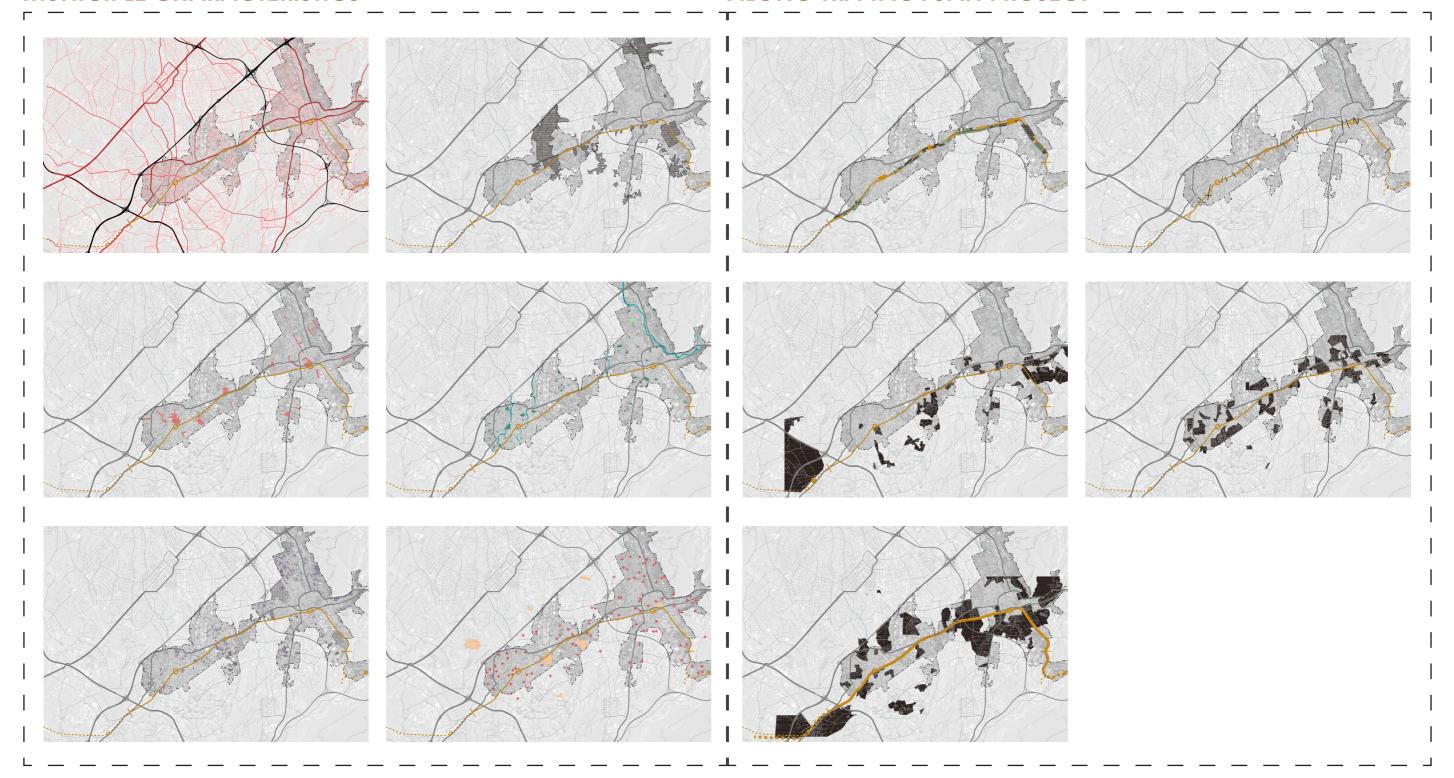




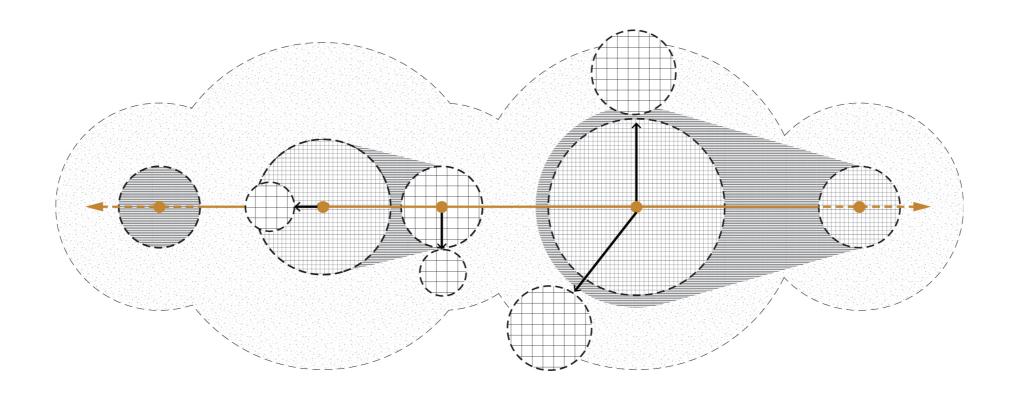


SPATIAL DISTRIBUTION OF VARIOUS MUNICIPLE CHARACTERISTICS

SPATIAL AND DEMOGRAPHICS CHARACTERISTICS ALONG TRA TAOYUAN PROJECT



VIDEO ON DESCRIBING PRINCIPLE OF URBAN PROBLEM

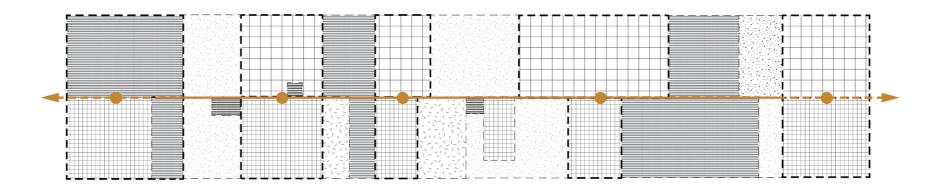








VIDEO ON DESCRIBING PRINCIPLE OF URBAN PROBLEM



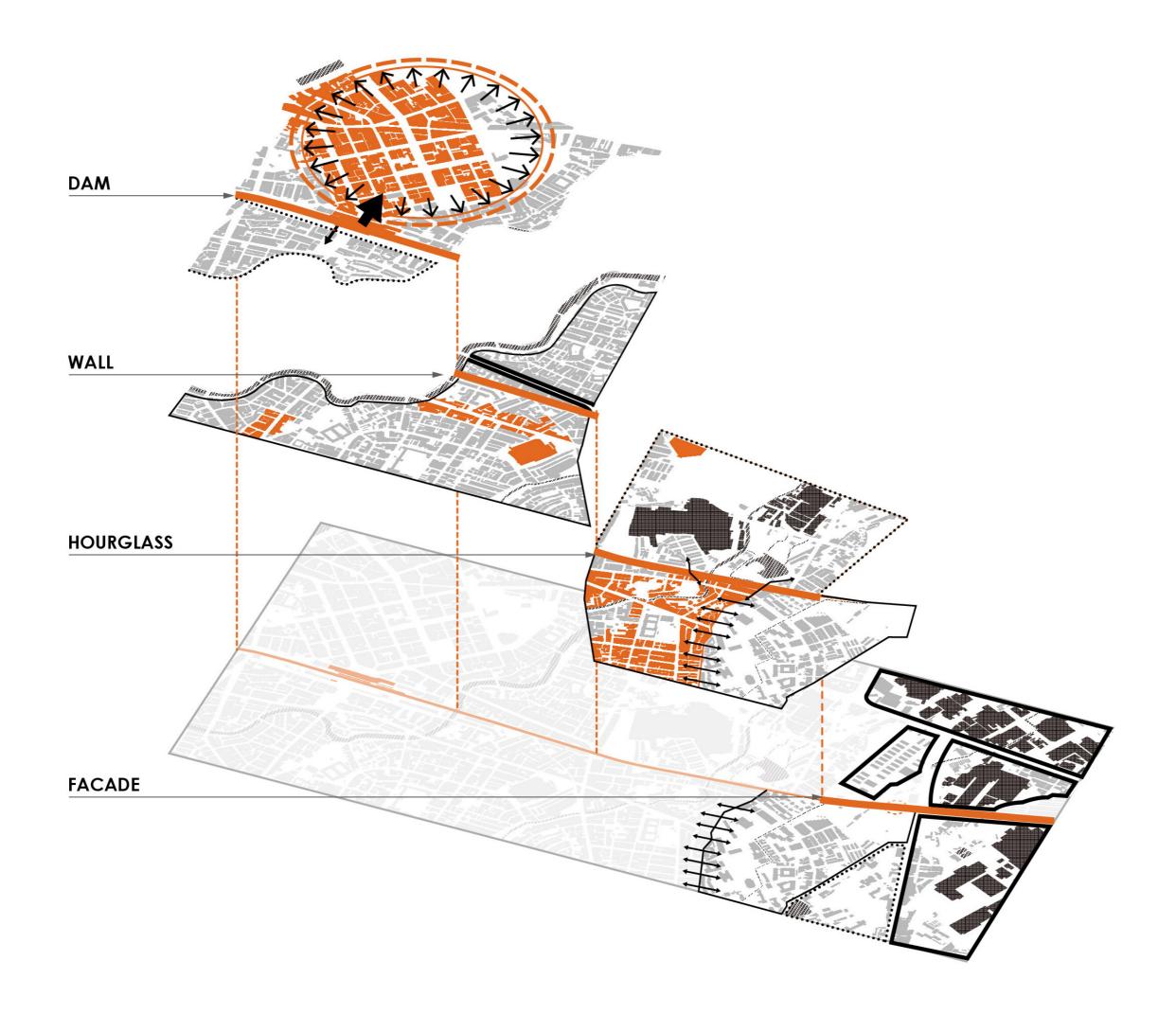






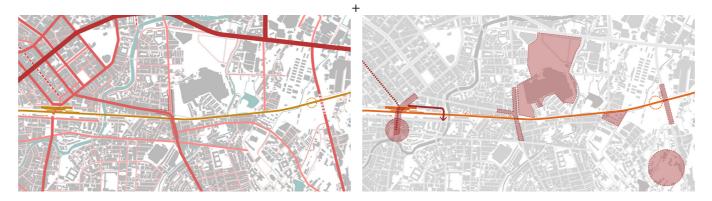
MINICIPAL CHARACTER

0 1.2km 2.4km





TYPO-MORPHOLOGY STUDIES



EXISTING AND POTENTIAL INFRASTRUCTURAL PROJECTS



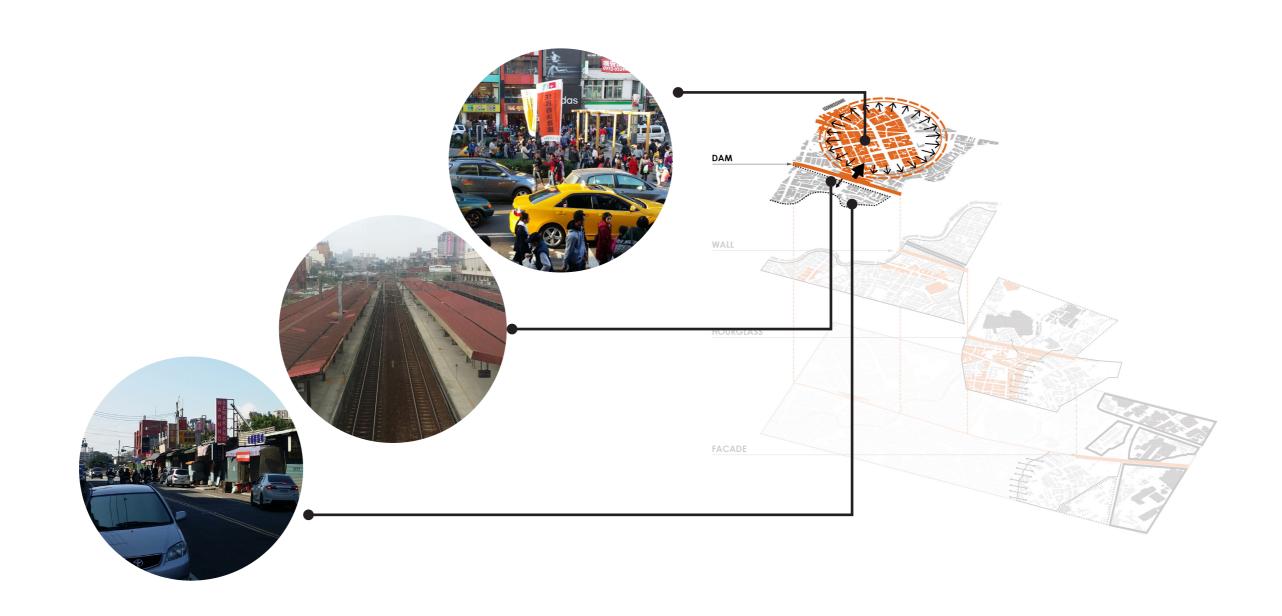
ACTOR ANALYSIS





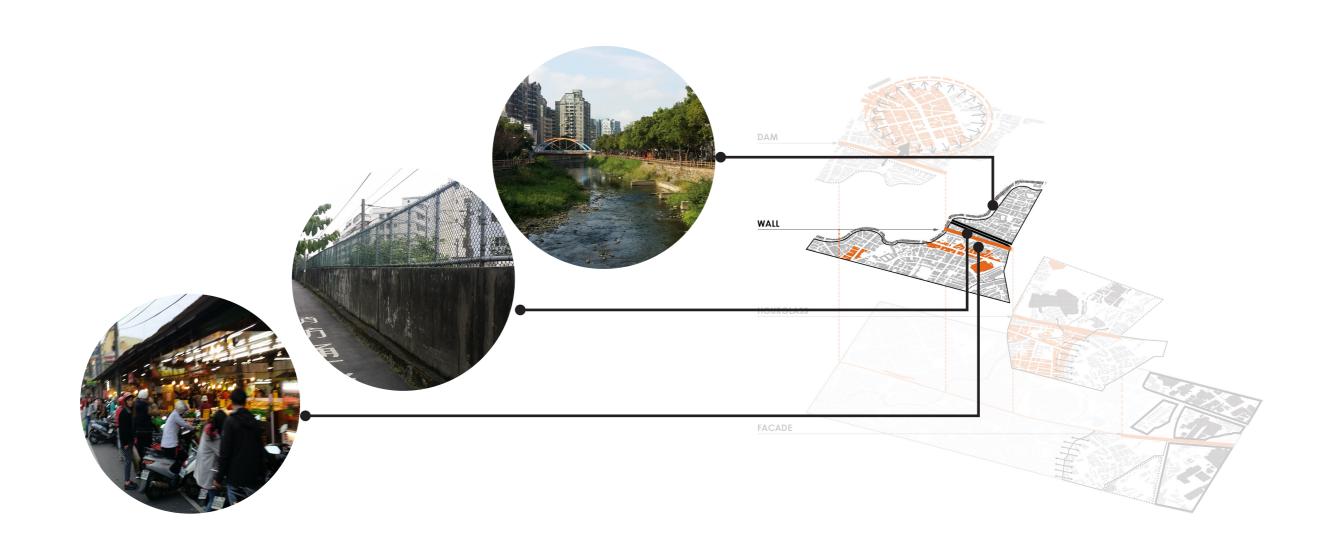


SITE WORK & OBSERVATION



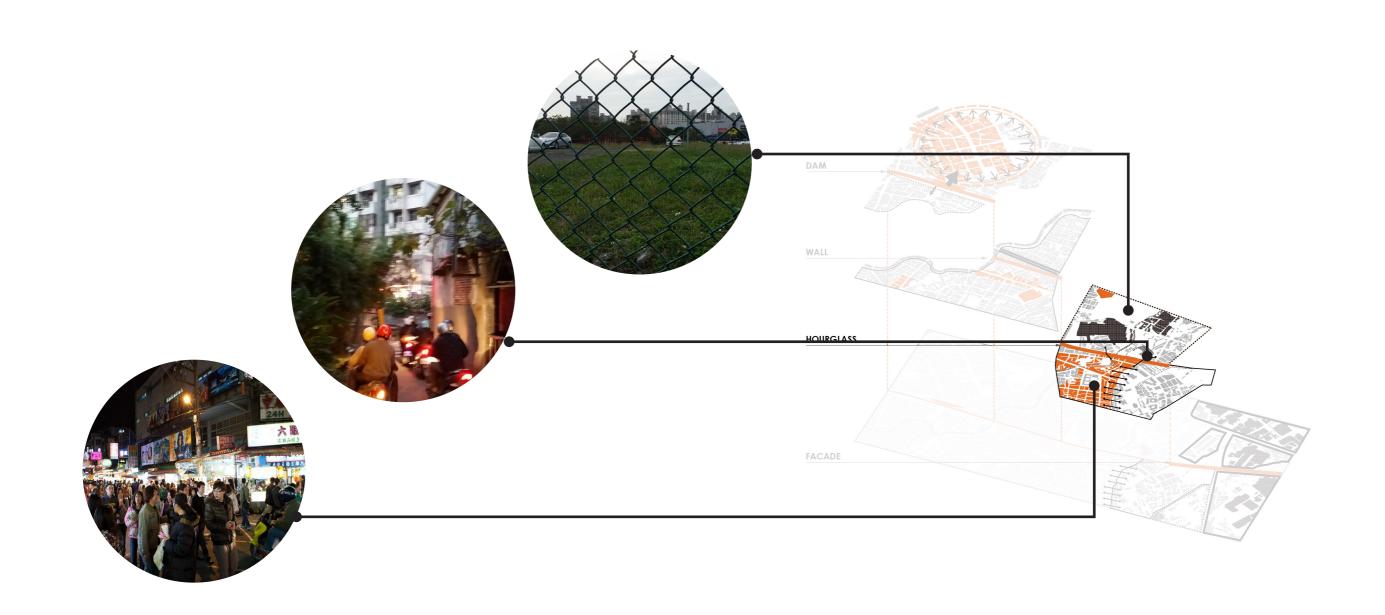
RAILWAY AS "DAM" - ZHONGLI DISTRICT CENTRE

Overdensified urban environment at front station I Neglected back station



RAILWAY AS "WALL" - RESIDENTIAL COMMUNITIES

Well established communities without accessibility to each other I TRA project as increasing accessibility or gentrification?



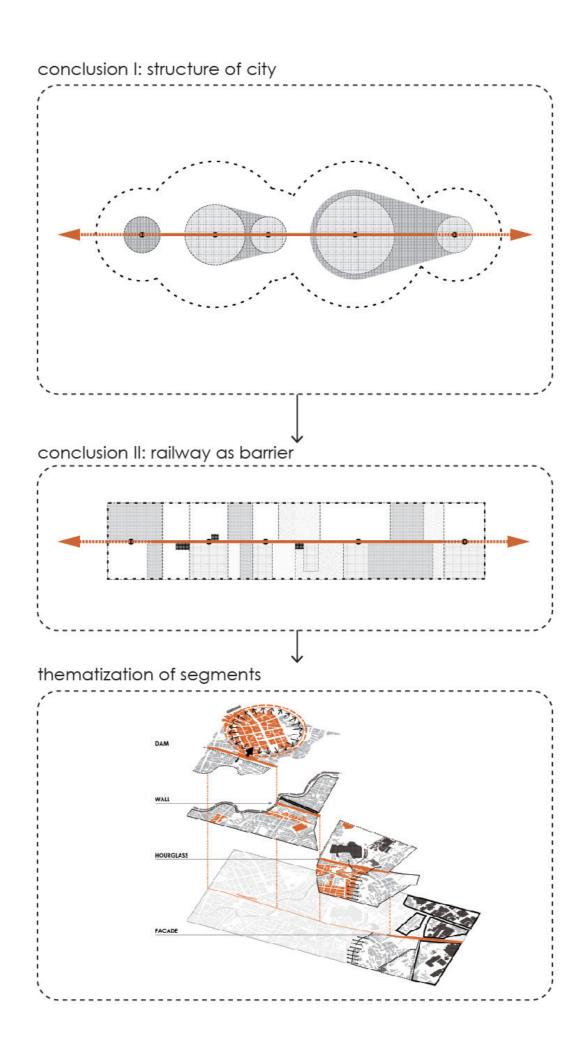
RAILWAY AS "HOURGLASS" - VIBRANT COMMUNITY vs. UNDERUSED INDUSTRIAL LANDSCAPE

Massive underused industrial open space becomes unsafe space I Commercial influence cannot permeate due to inaccessibility



RAILWAY AS "FACADE" - CYCU CAMPUS vs. INDUSTRIAL ZONE

Opening of new CYCU Station I Difficulty to be implemented due to "confidential" programs



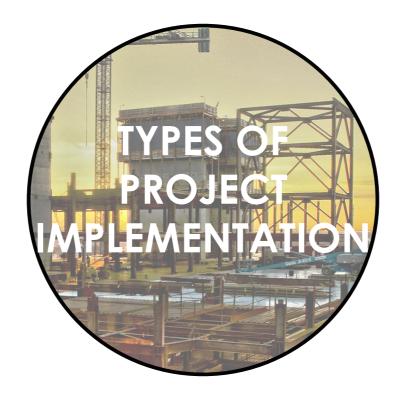
What are the existing and possible urban problems that are (potentially) related to the implementation of TRA Taoyuan Project?

PREDICTIONS OF POSSIBLE PROBLEMS THAT WILL BE ENCOUNTERED DURING THE IMPLEMENTATION OF TRA TAOYUAN PROJECT

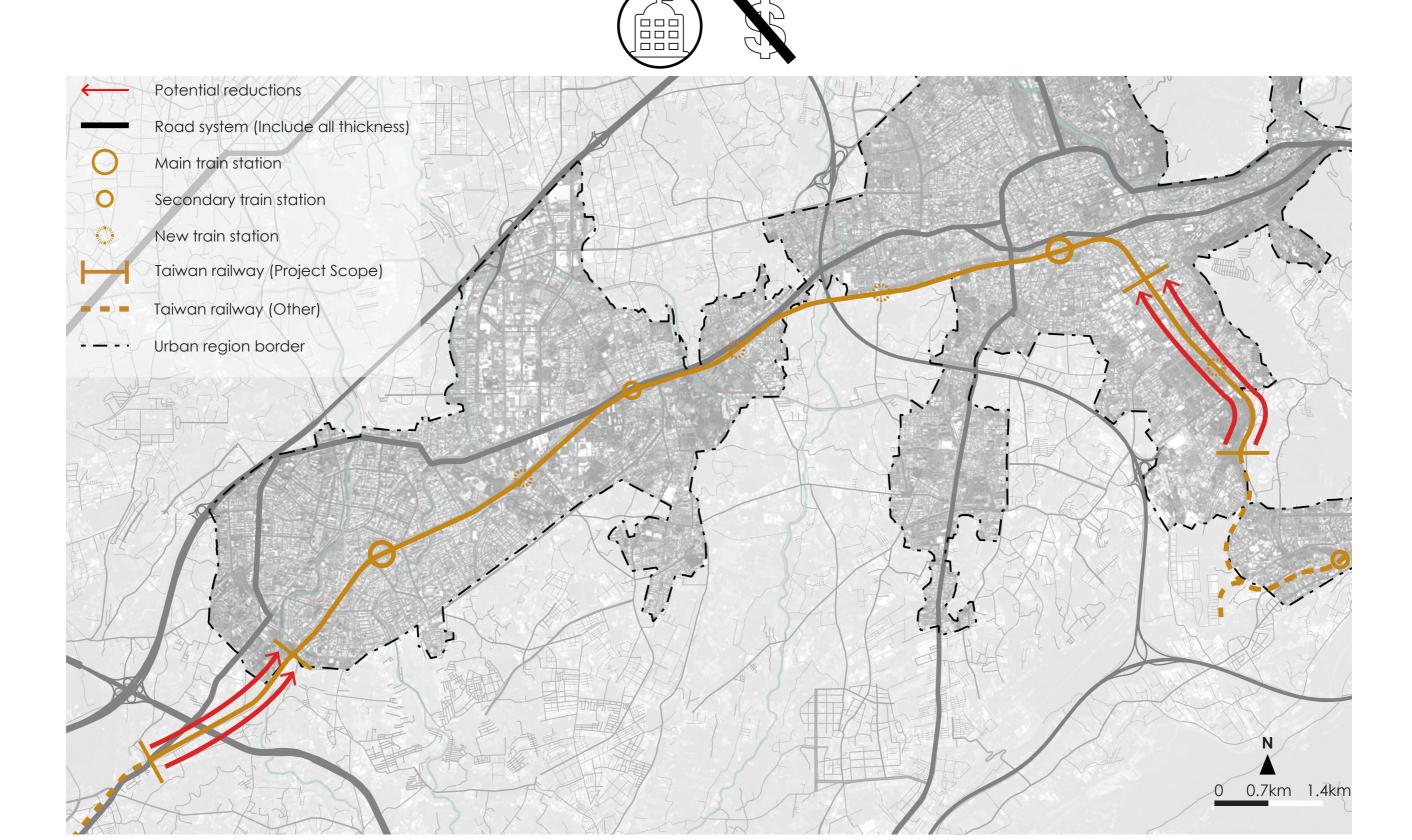
RESEARCH OBJECT: IMPLEMENTATION VULNERABILITIES DUE TO SOCIAL/ ECONOMIC/POLITICAL INTERFERENCE

CRITERIA ON SELECTION OF THEORIES

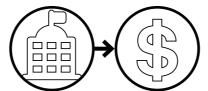


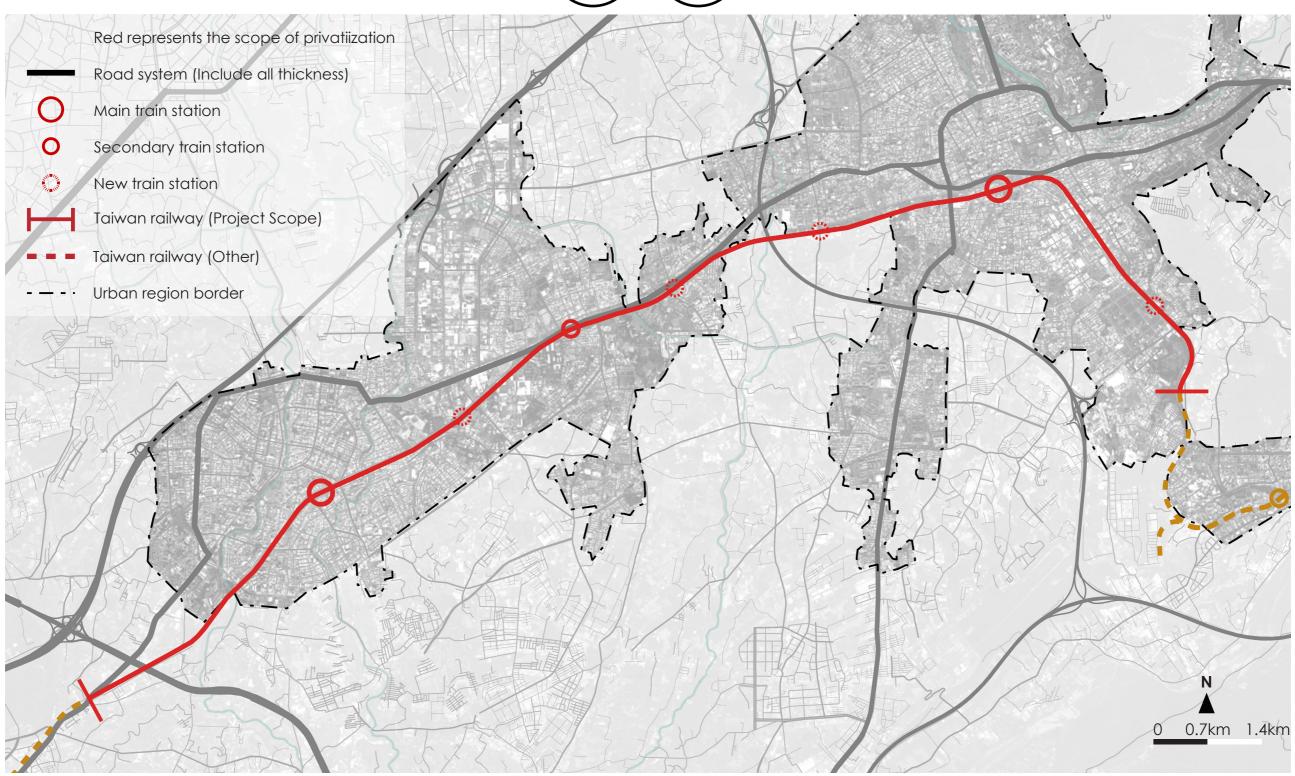






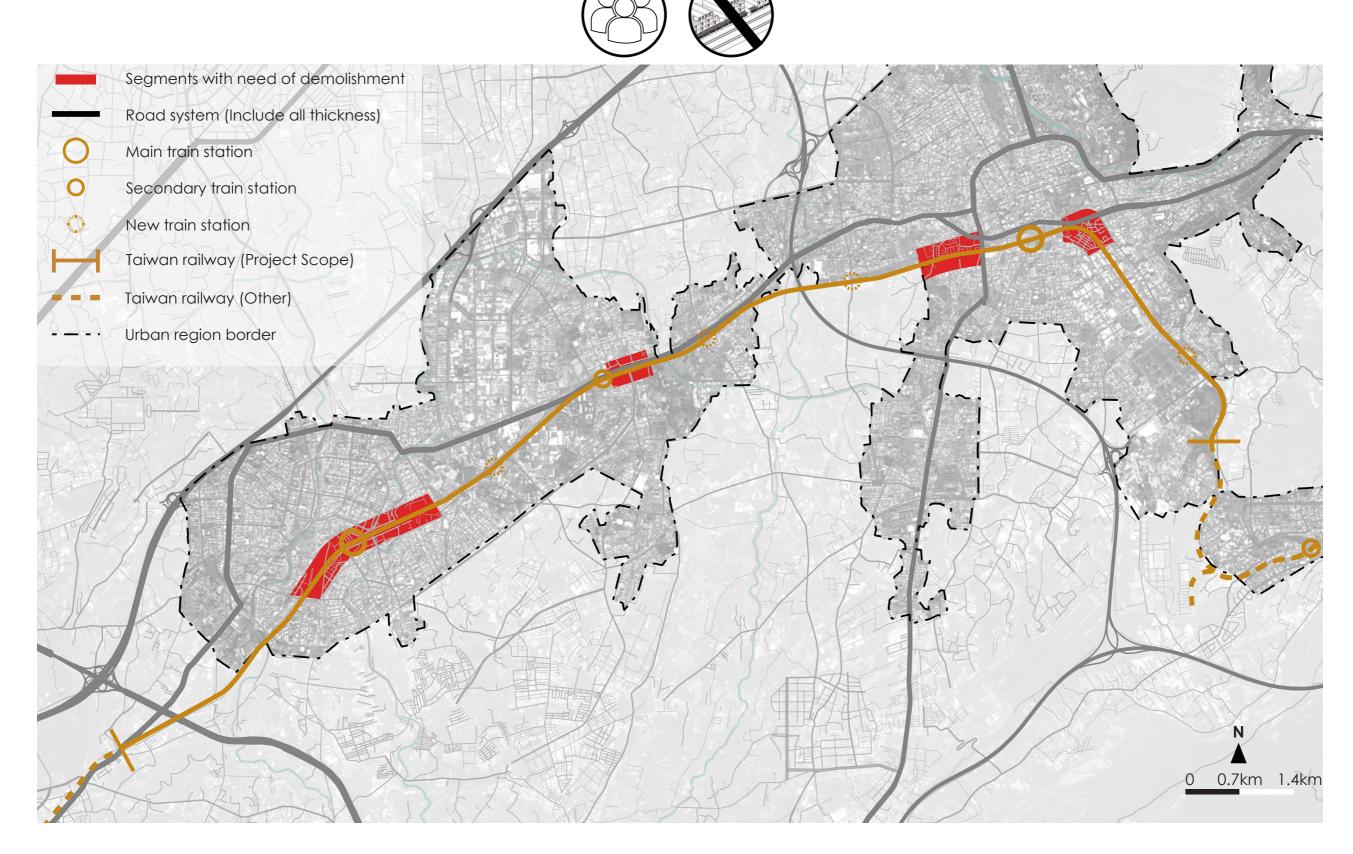
SCENARIO I
REDUCTION OF PROJECT SCOPE DUE TO FISCAL PRESSURE



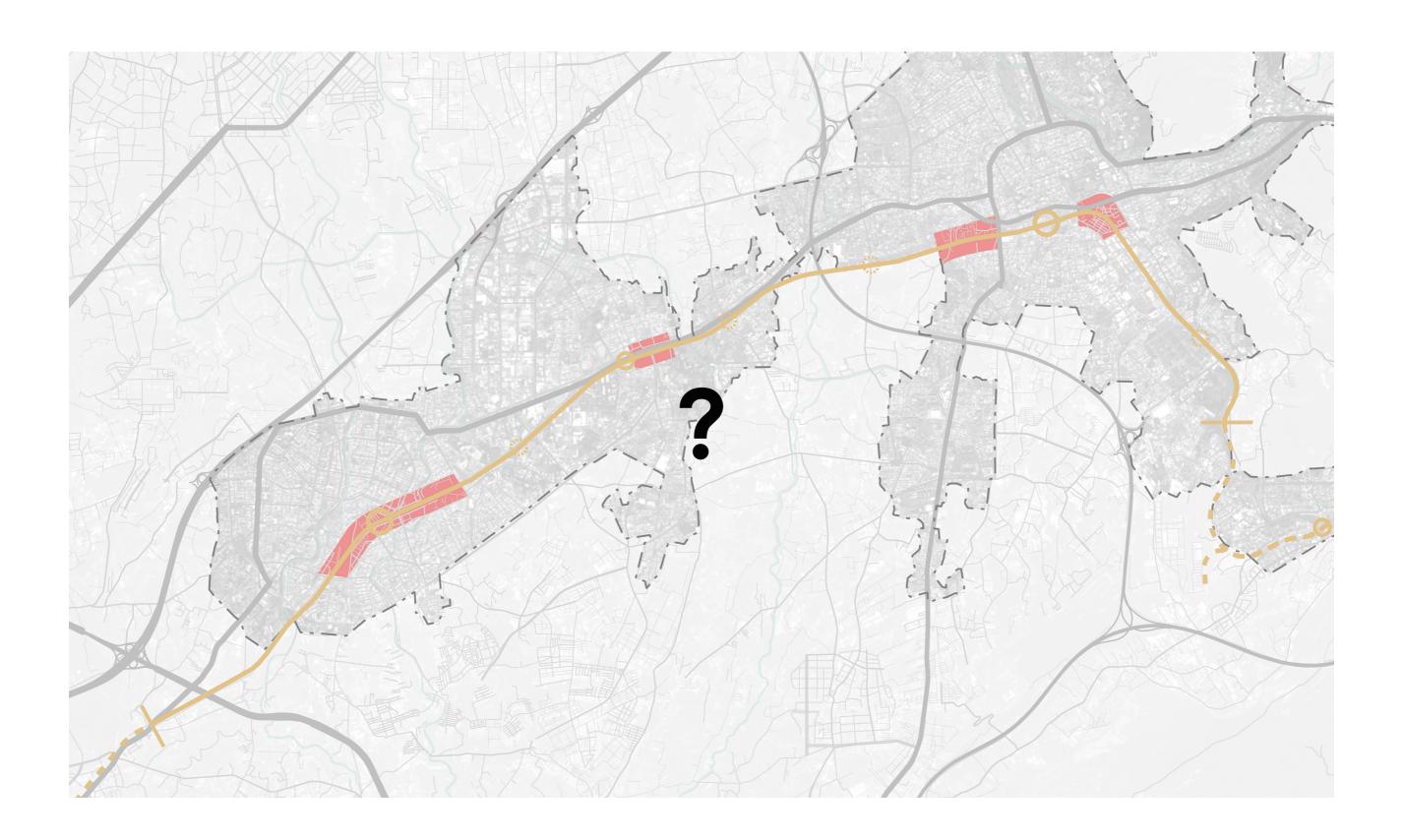


SCENARIO II

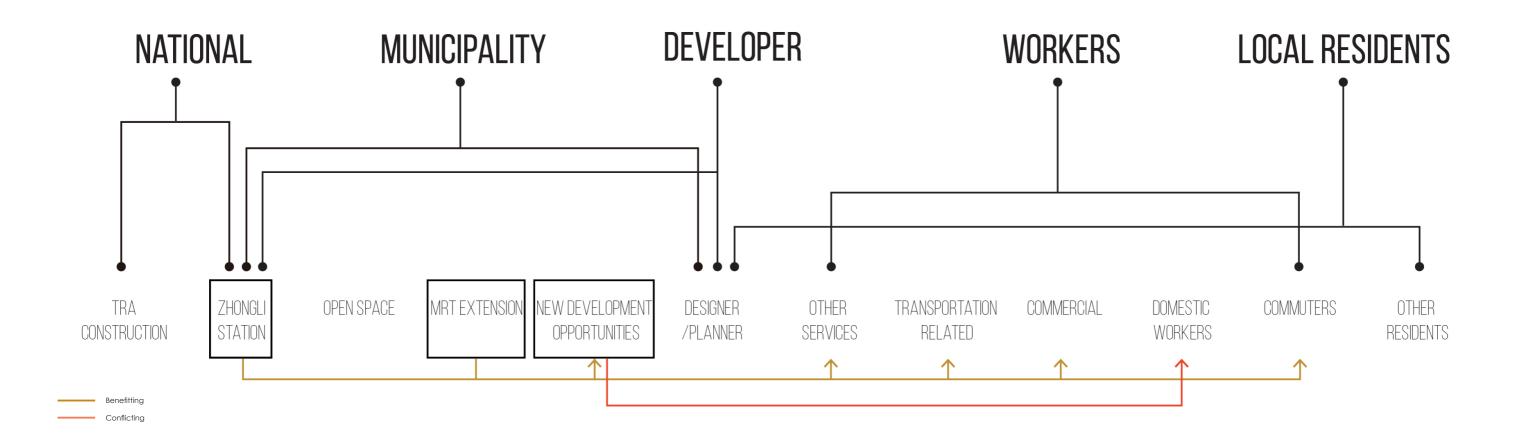
PRIVATIZATION AND COMMERCIALIZATION OF PUBLIC SERVICES + POTENTIAL GENTRIFICATION



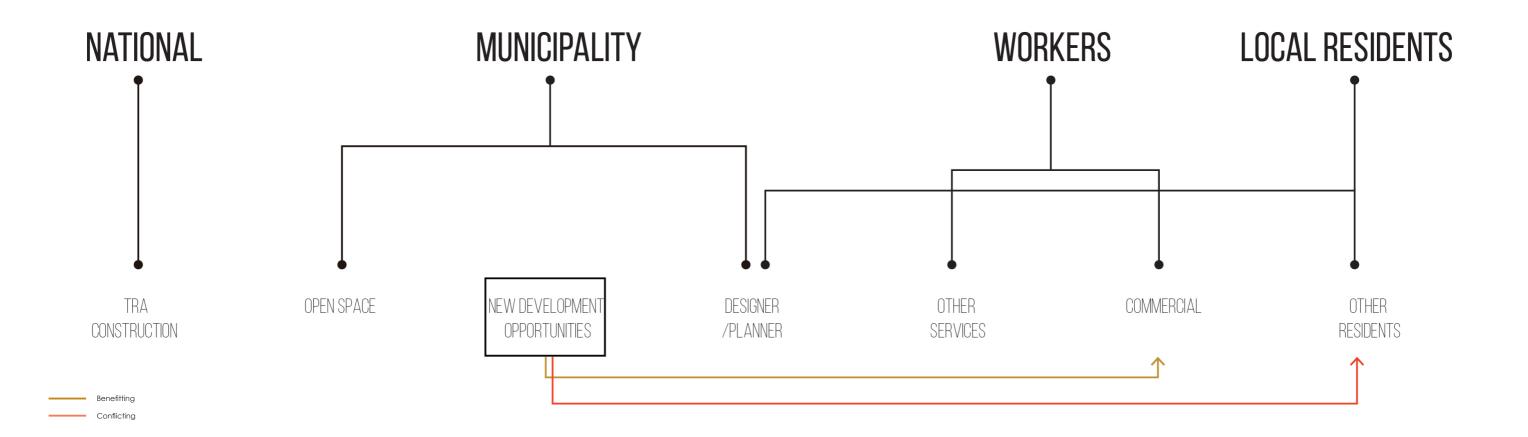
SCENARIO III
POTENTIAL SEGMENTS THAT COULD TRIGGER CONFLICT WITH LOCAL DWELLER

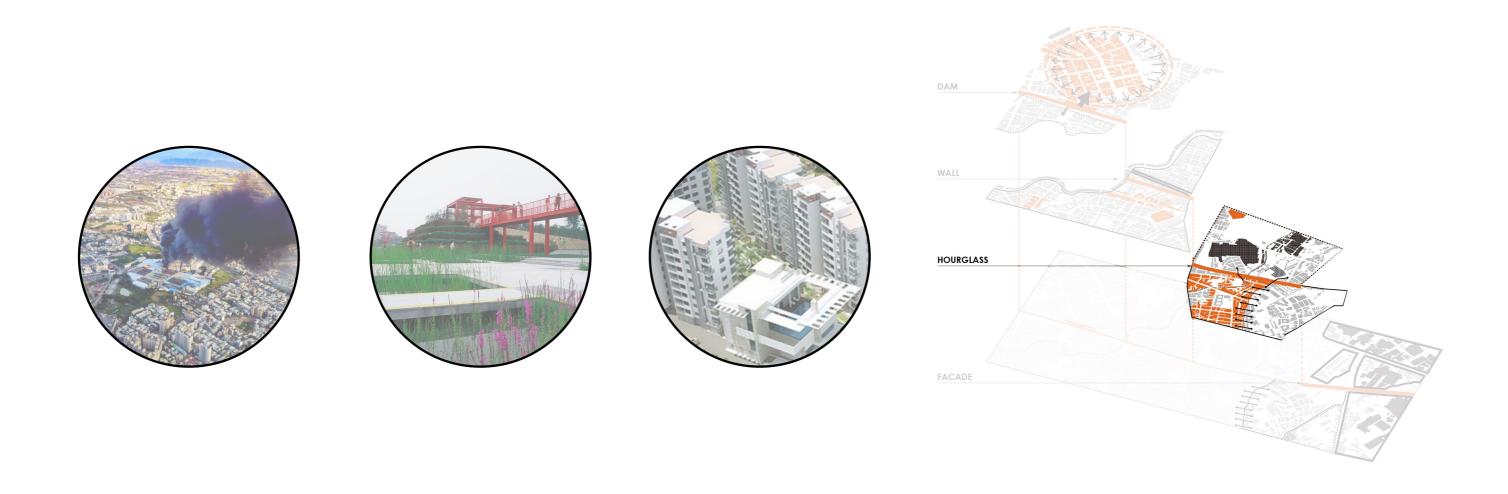


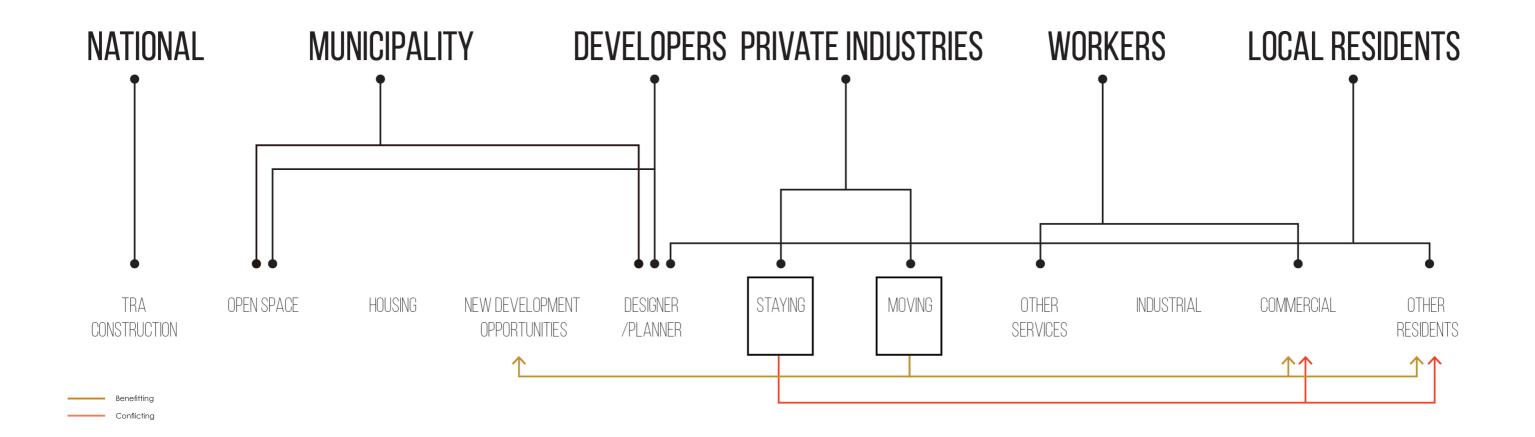


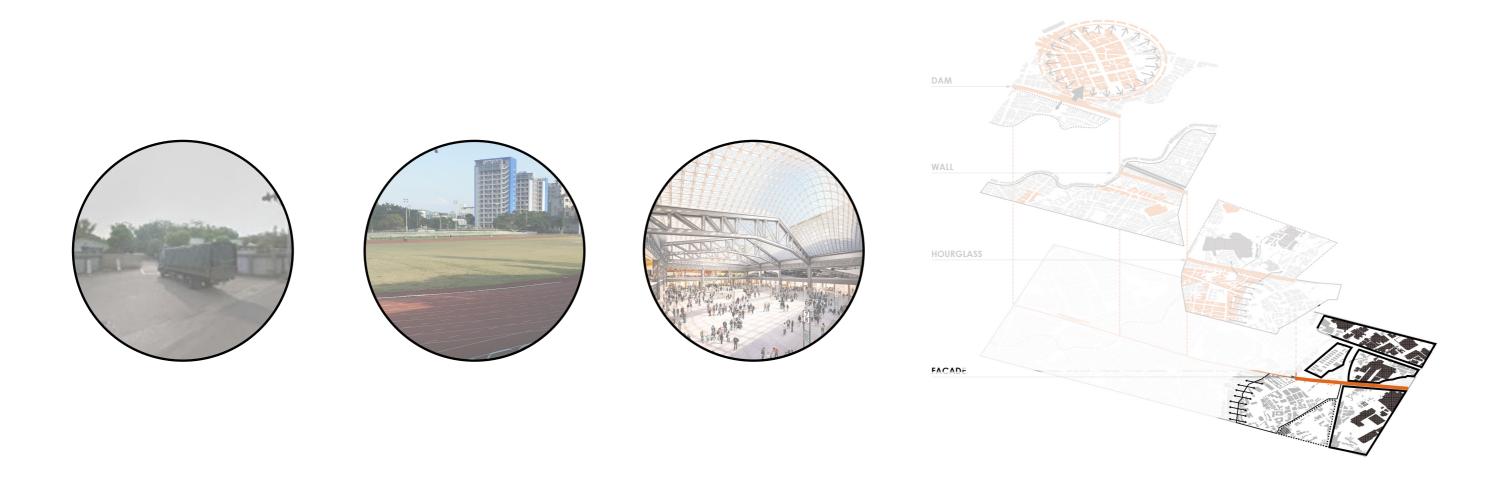


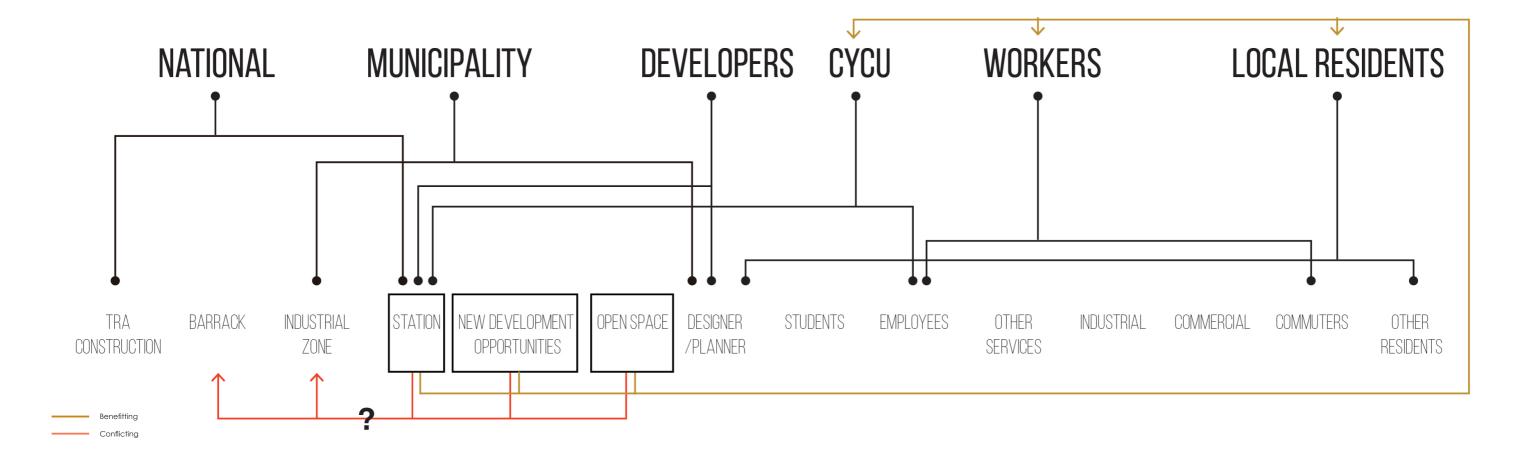








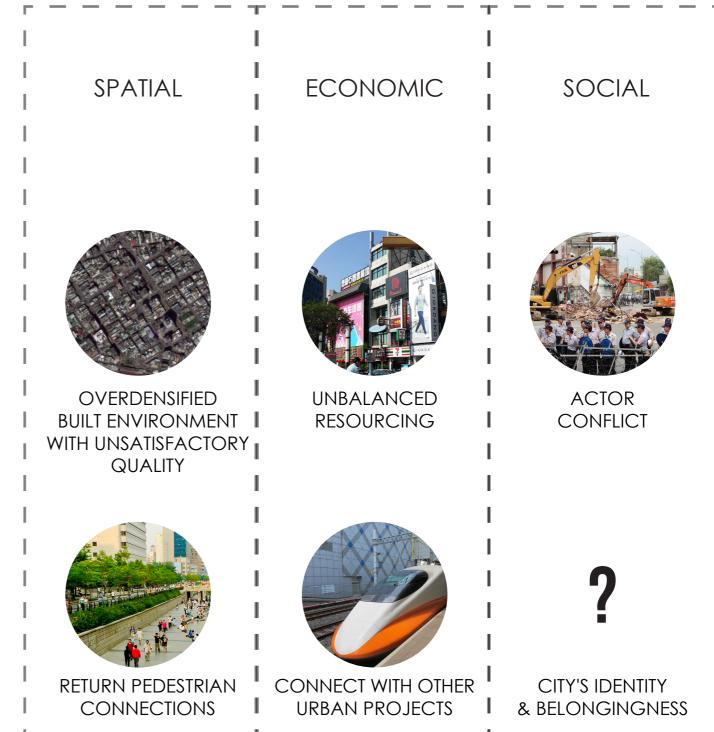


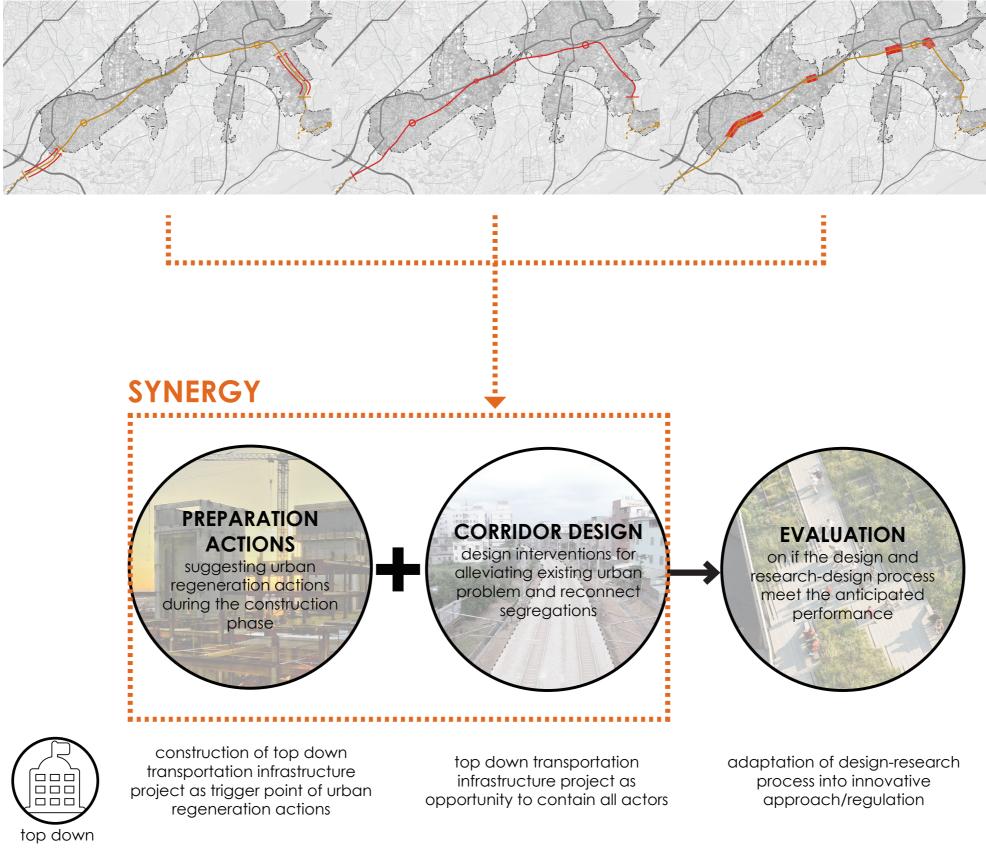




GOAL: ALLEVIATE

RECONNECT









utilizing bottom up urban regeneration actions to mitigate impacts from construction

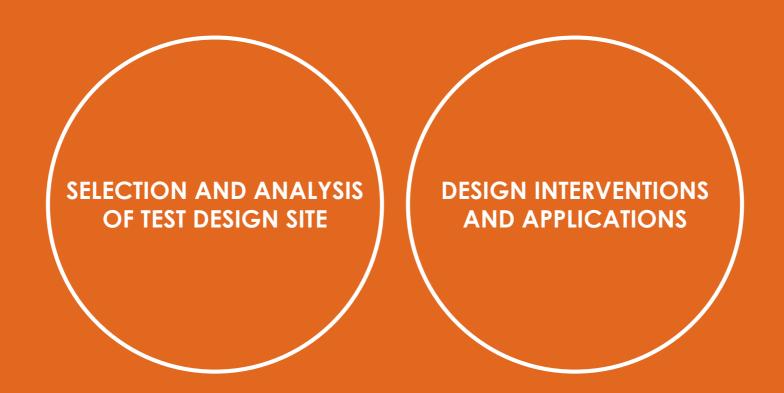
initiate design from the smallest "segment" scale

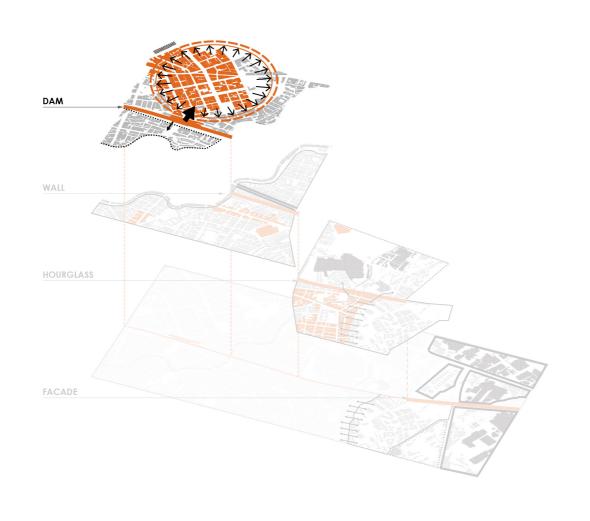
engaging all actors in every stage of decision making

THEORIES FOR OPEN SPACE AS CONTAINER FOR ALL THE ACTORS



How to apply test design that meets the integrative approach of TRA Taoyuan Project?







TEST DESIGN SITE: ZHONGLI STATION AND ADJACENT NEIGHBORHOOD















DESK ANALYSIS +

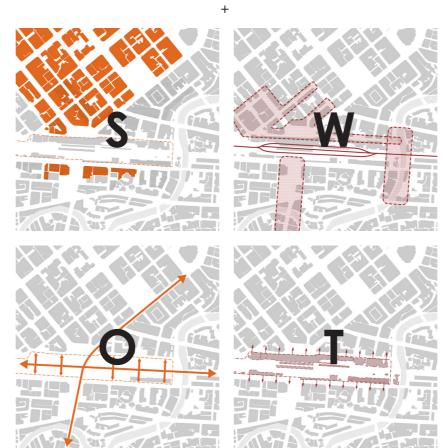




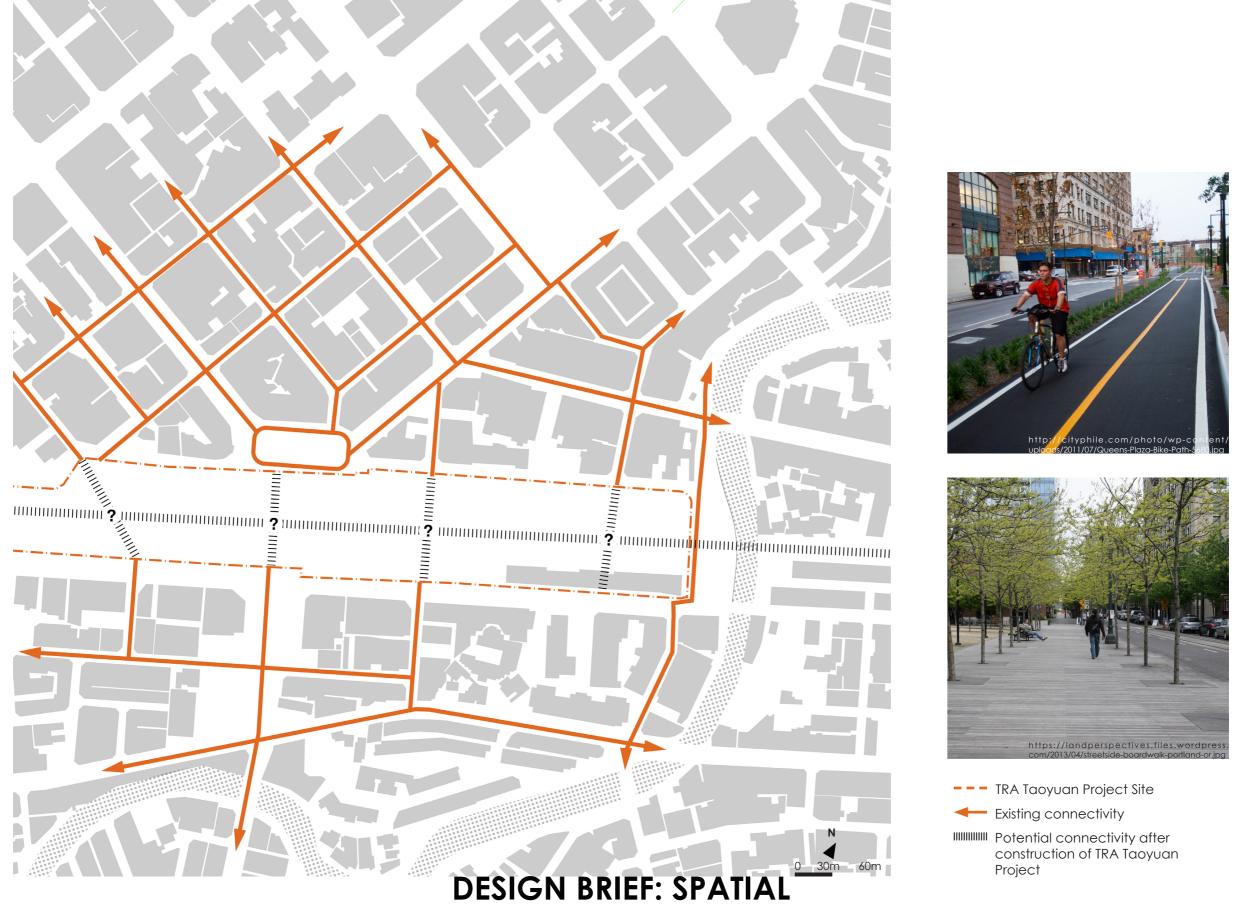




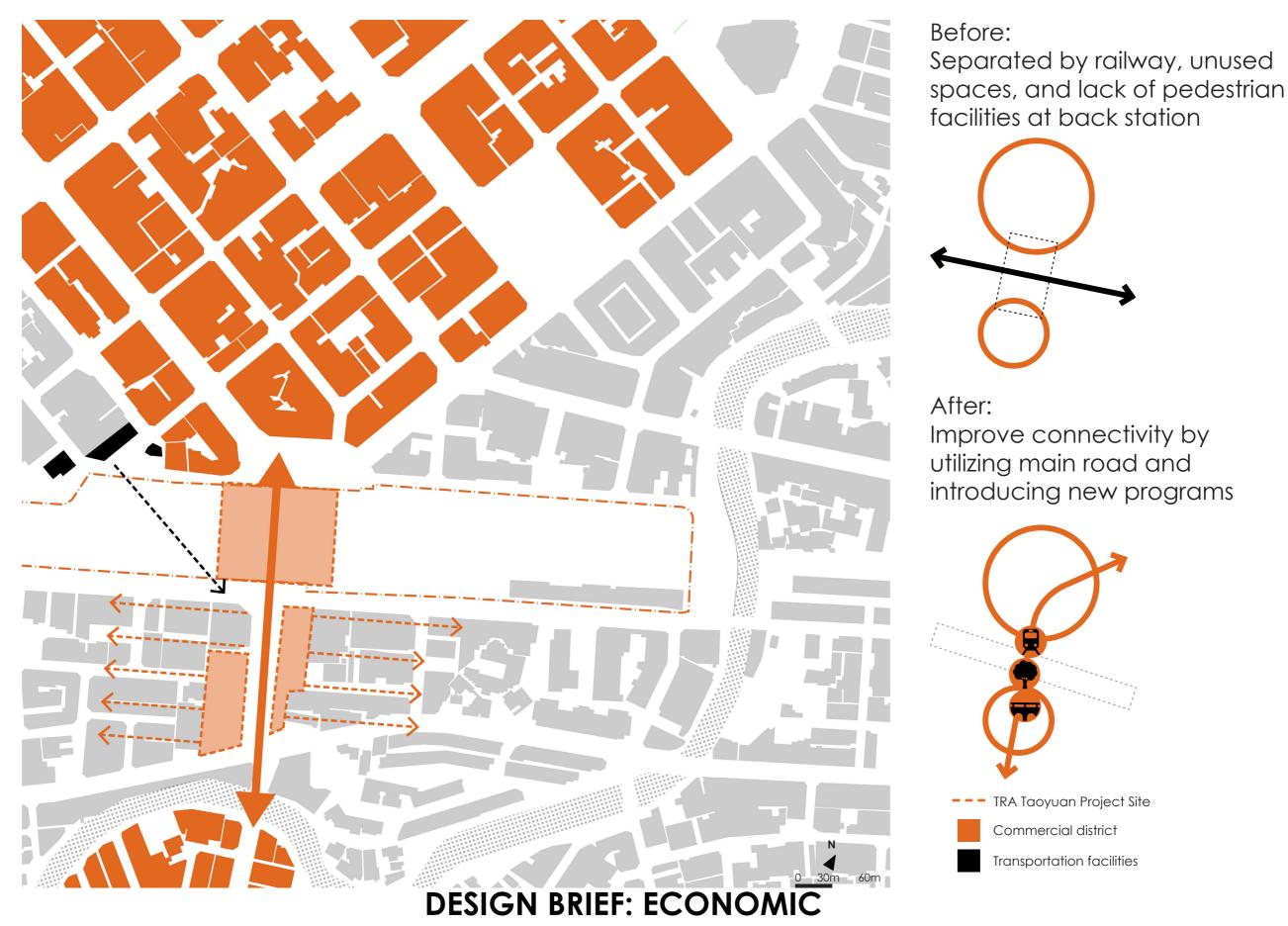
SITE WORK & OBSERVATION



SWOT ANALYSIS

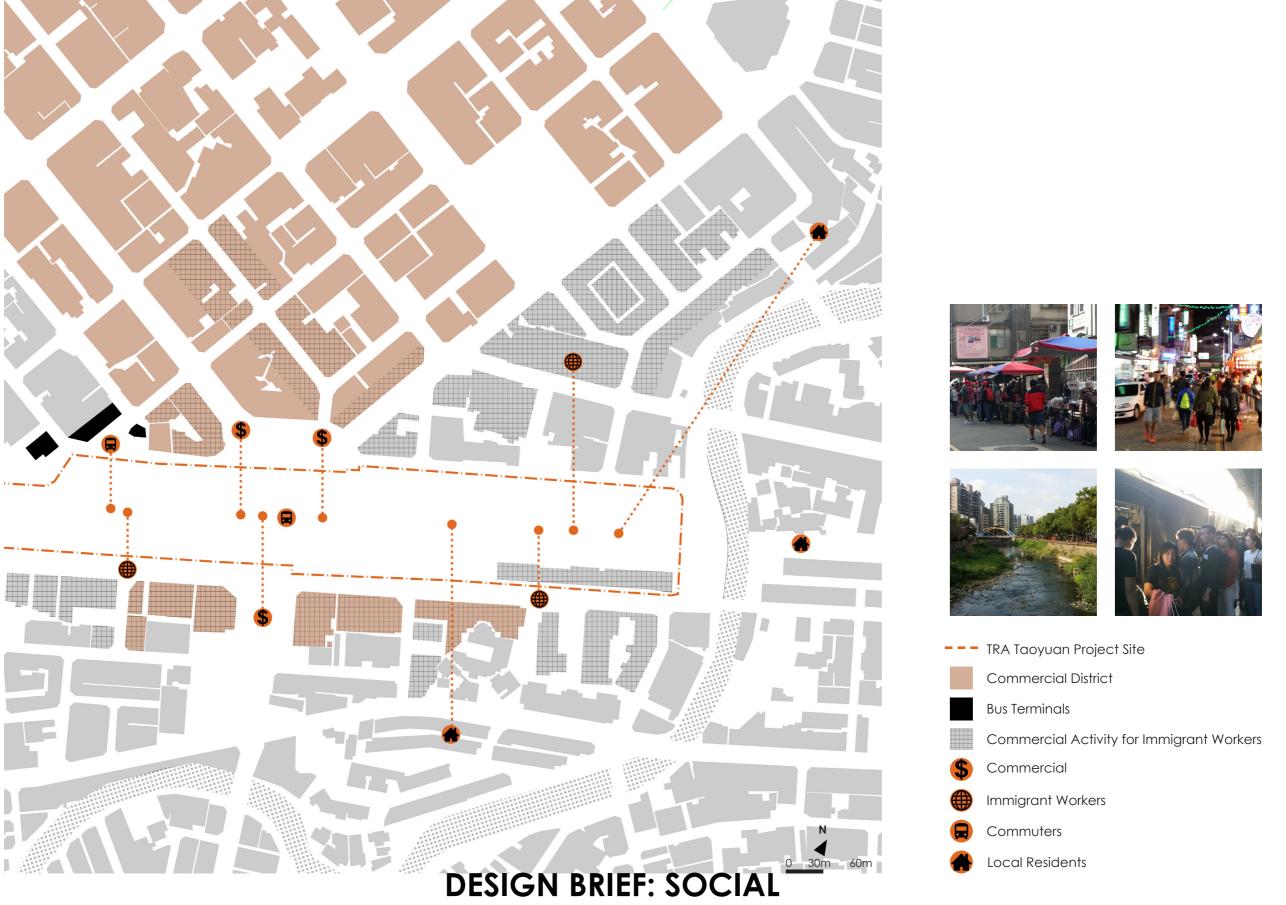


Reconnect pedestrian connectivity between front/back station via open space. Improve pedestrian accessibility of urban dwellers along the project.

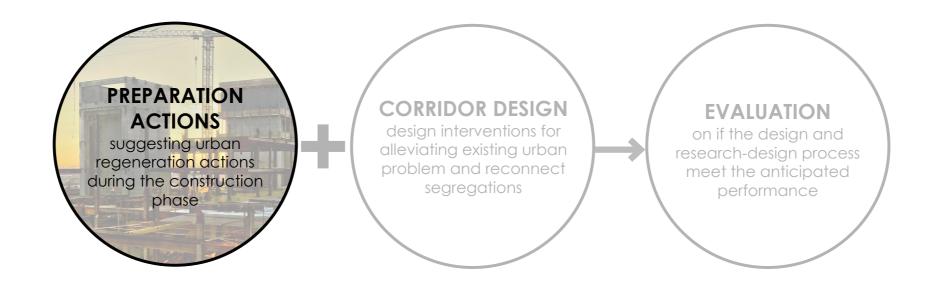


Improving back station's lack of resource by introducing new programs + connecting with other commercial districts

Alleviating stress of front station by redistributing existing facilities.



Include multiple users in the using and making of open space, especially immigrant workers Connect urban dwellers with their city by placemaking



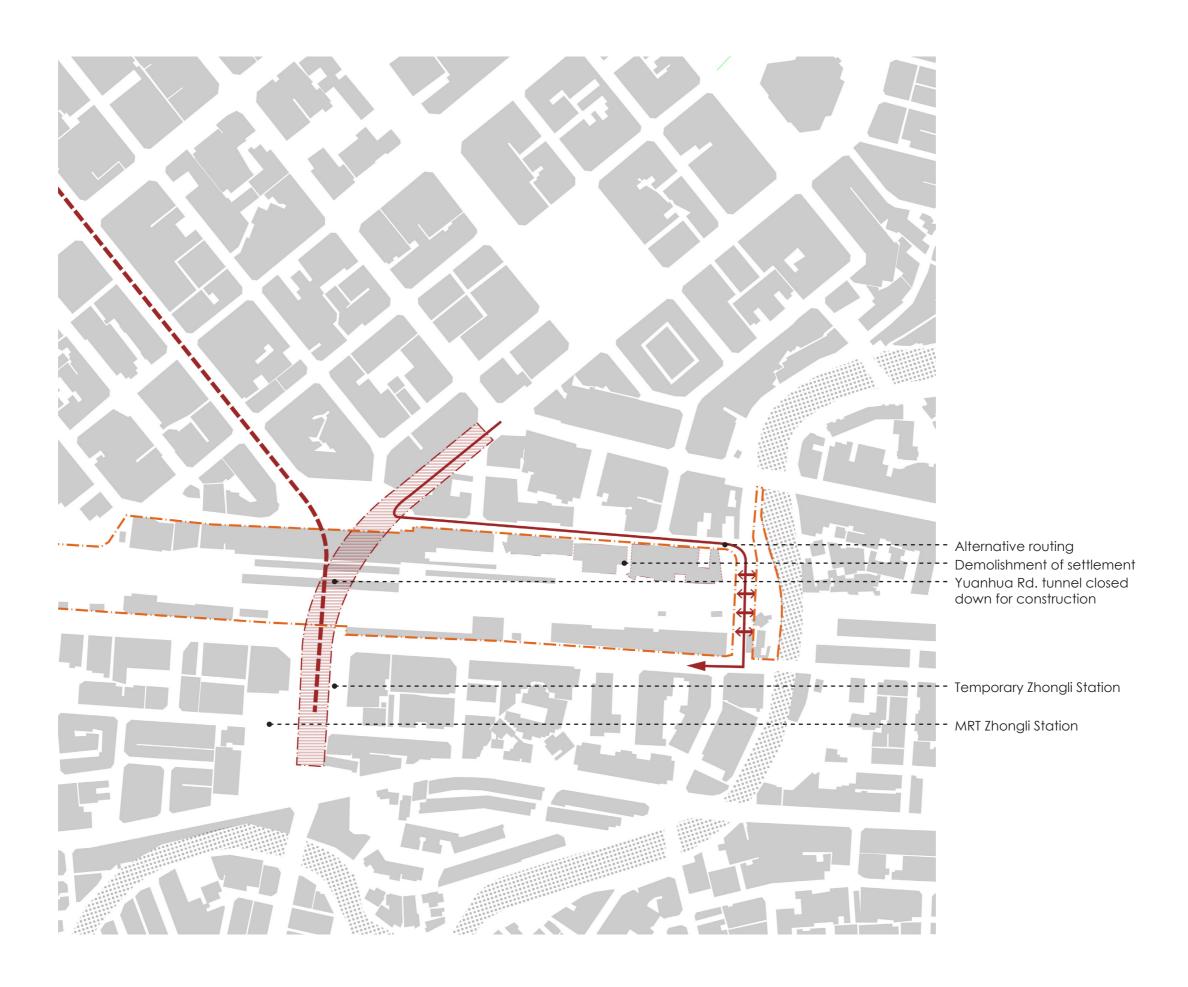


construction of top down transportation infrastructure project as trigger point of urban regeneration actions



utilizing bottom up urban regeneration actions to mitigate impacts from construction

bottom up



EXPECTED URBAN PROJECTS







STOP MOTION VIDEO







STOP MOTION VIDEO







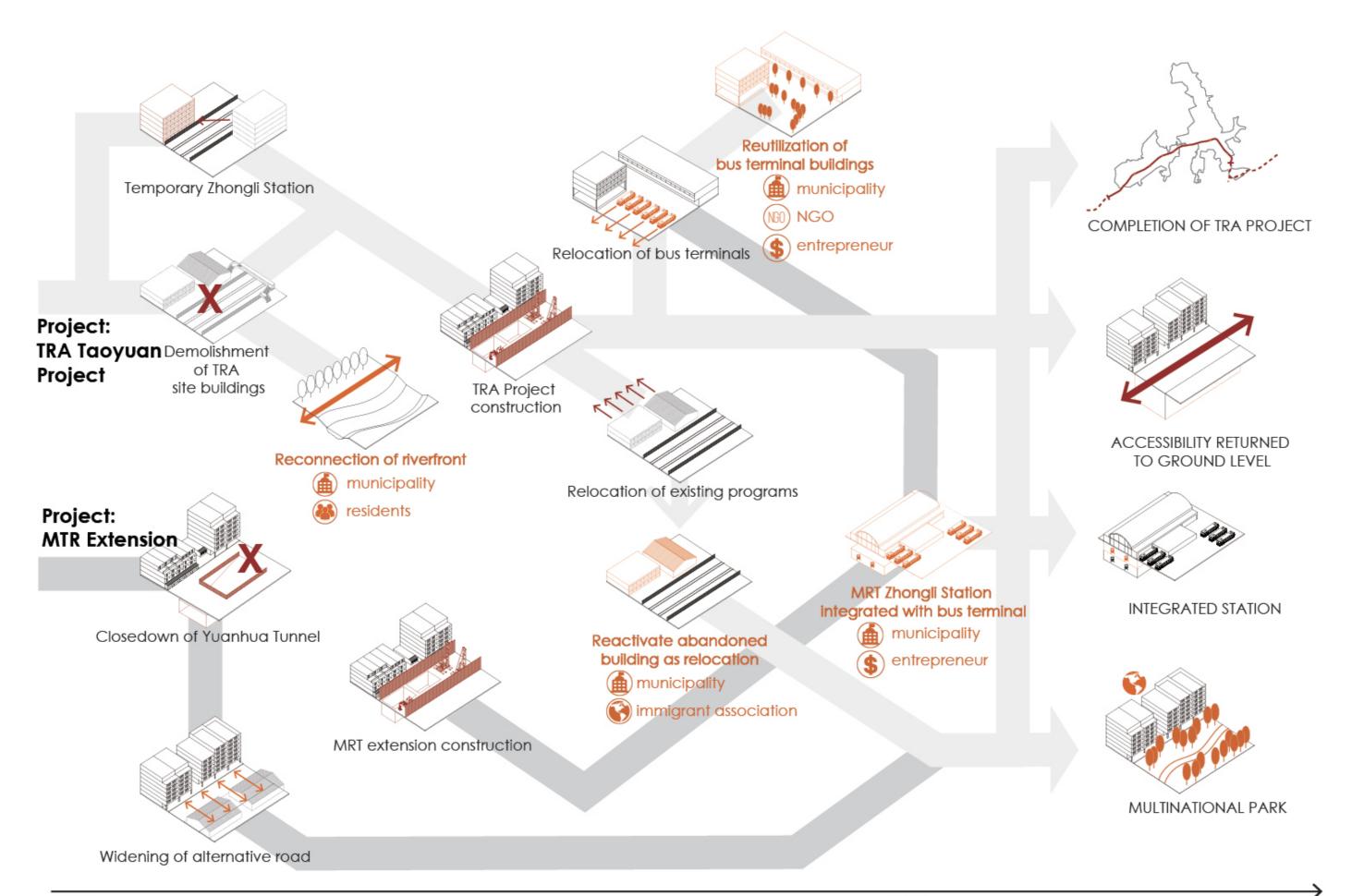
STOP MOTION VIDEO

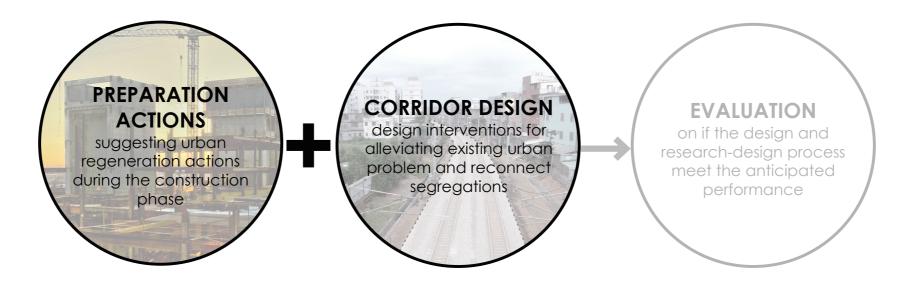






STOP MOTION VIDEO





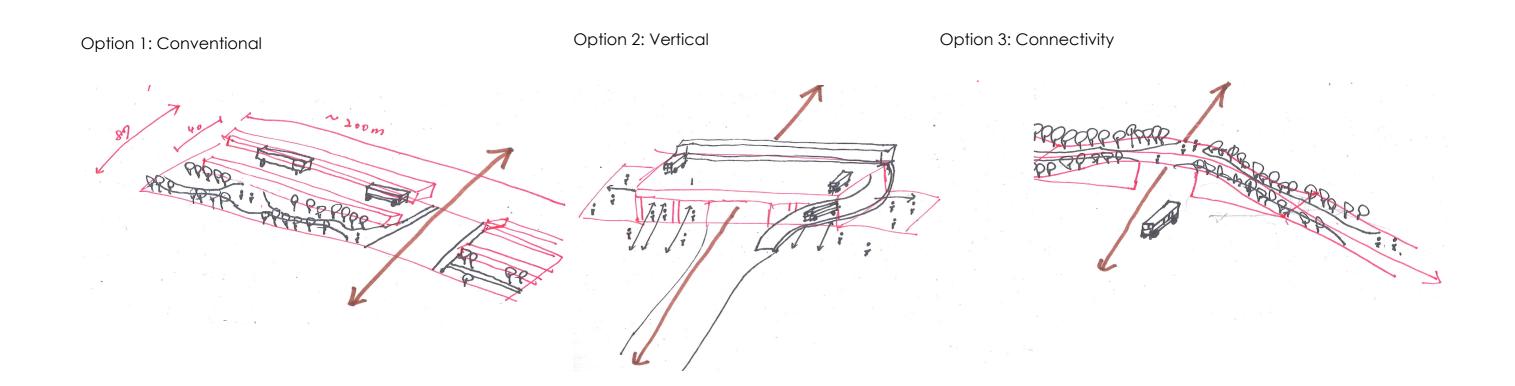


top down transportation infrastructure project as opportunity to contain all actors



initiate design from the smallest "segment" scale



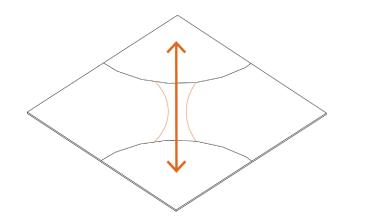


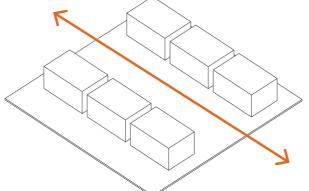
+ a section

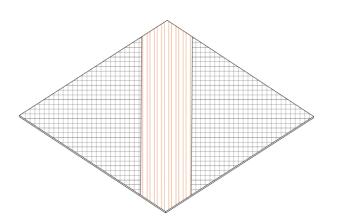
BUS TERMINAL TYPOLOGIES

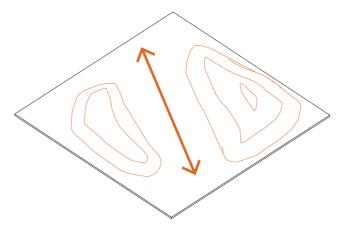


Direction Guiding









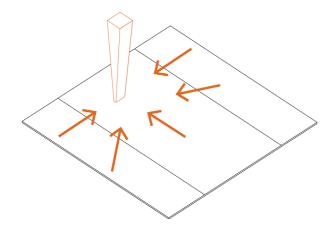
Form of Open Space

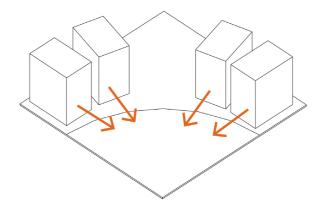
Structure

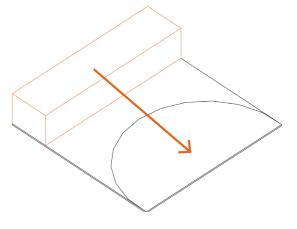
Differentiate Pavings

Landform

Gathering Space





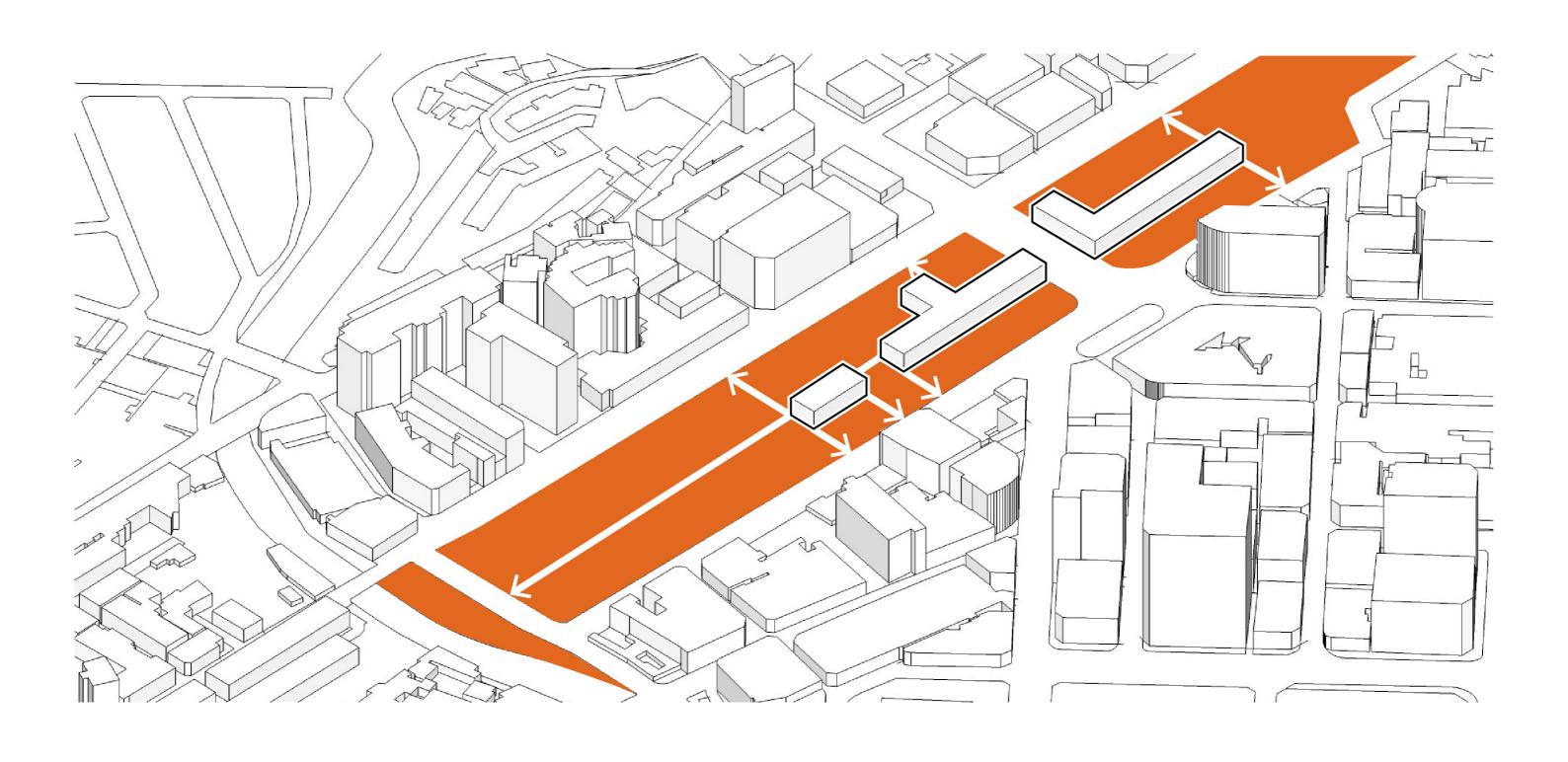


Monument as Focal Point

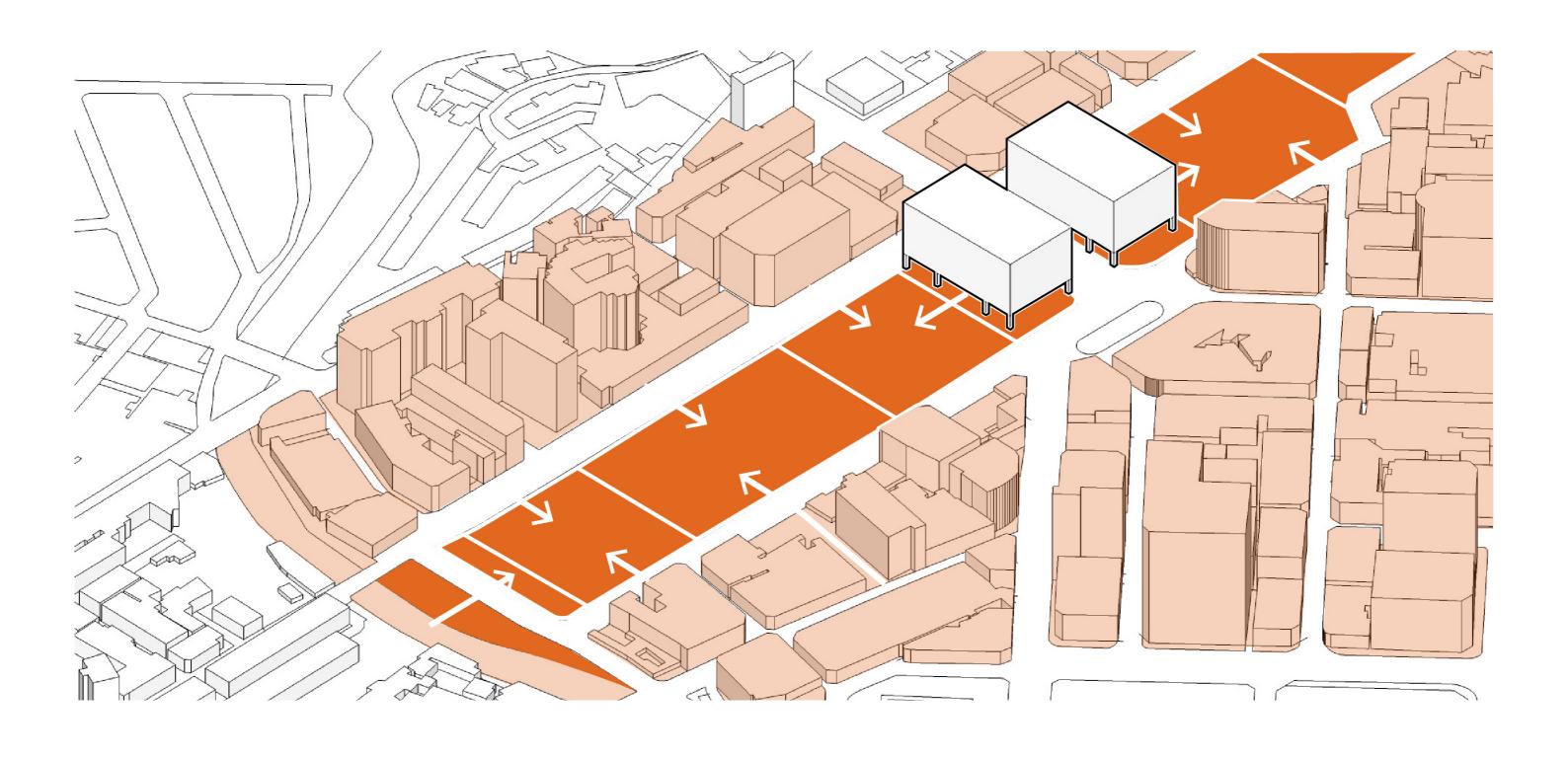
Open Space as Focal Point

Height Difference as Viewpoint

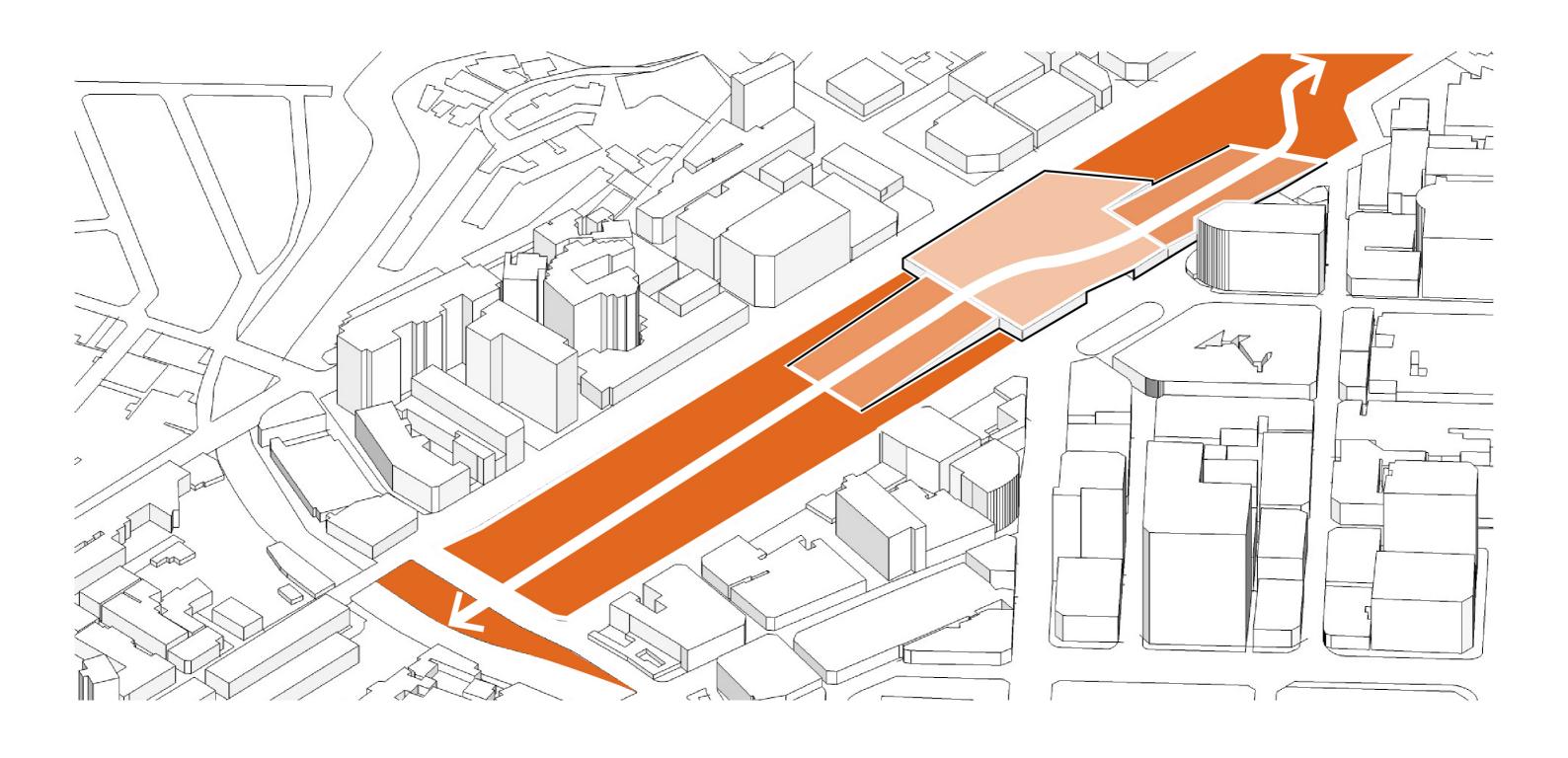
CREATION SPACE FOR DESIRED ACTIONS



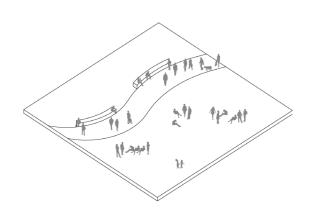
PROTOTYPE OF OPTION I: Mosiac Patterns

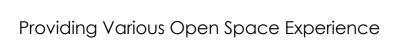


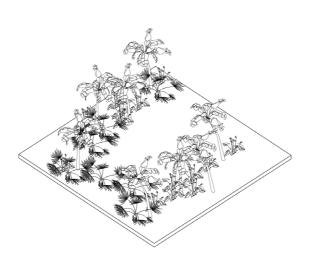
PROTOTYPE OF OPTION II: Micro-segments



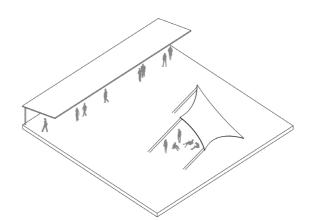
PROTOTYPE OF OPTION III: Urban Topography



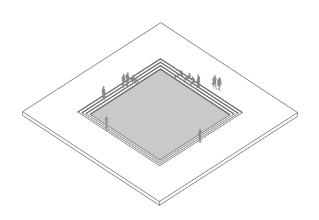




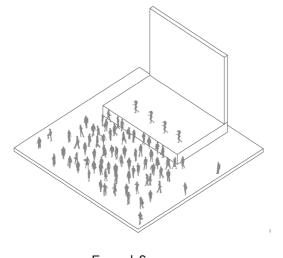
Plant Species to Form Nostalgia



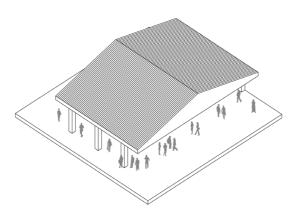
Shading Structures



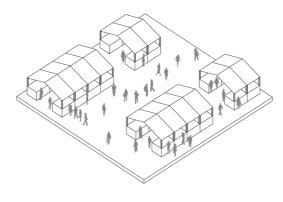
Water Feature



Event Space



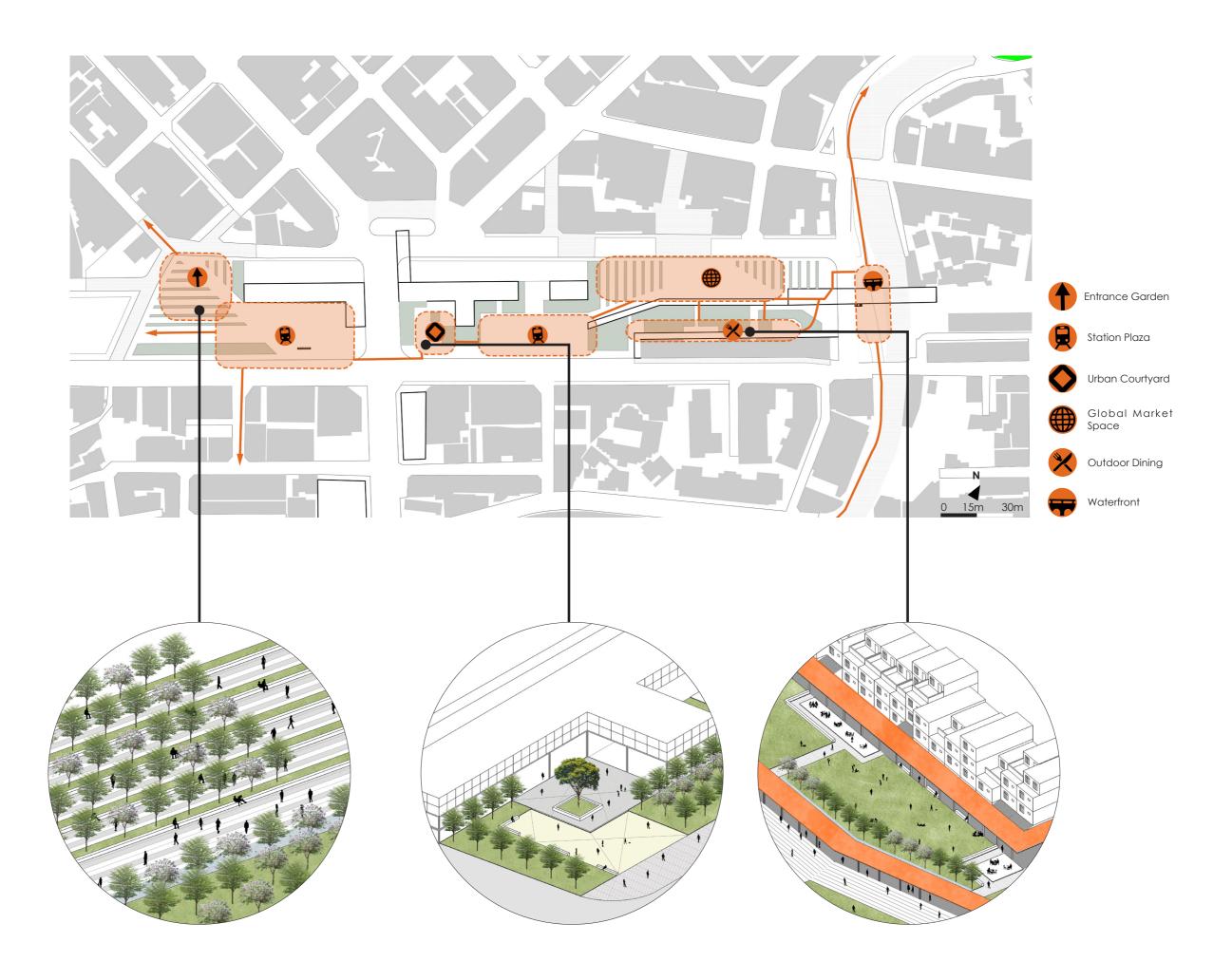
Renovation of Abandoned House



Self-organized Open Market

OTHER DESIGN INTERVENTIONS



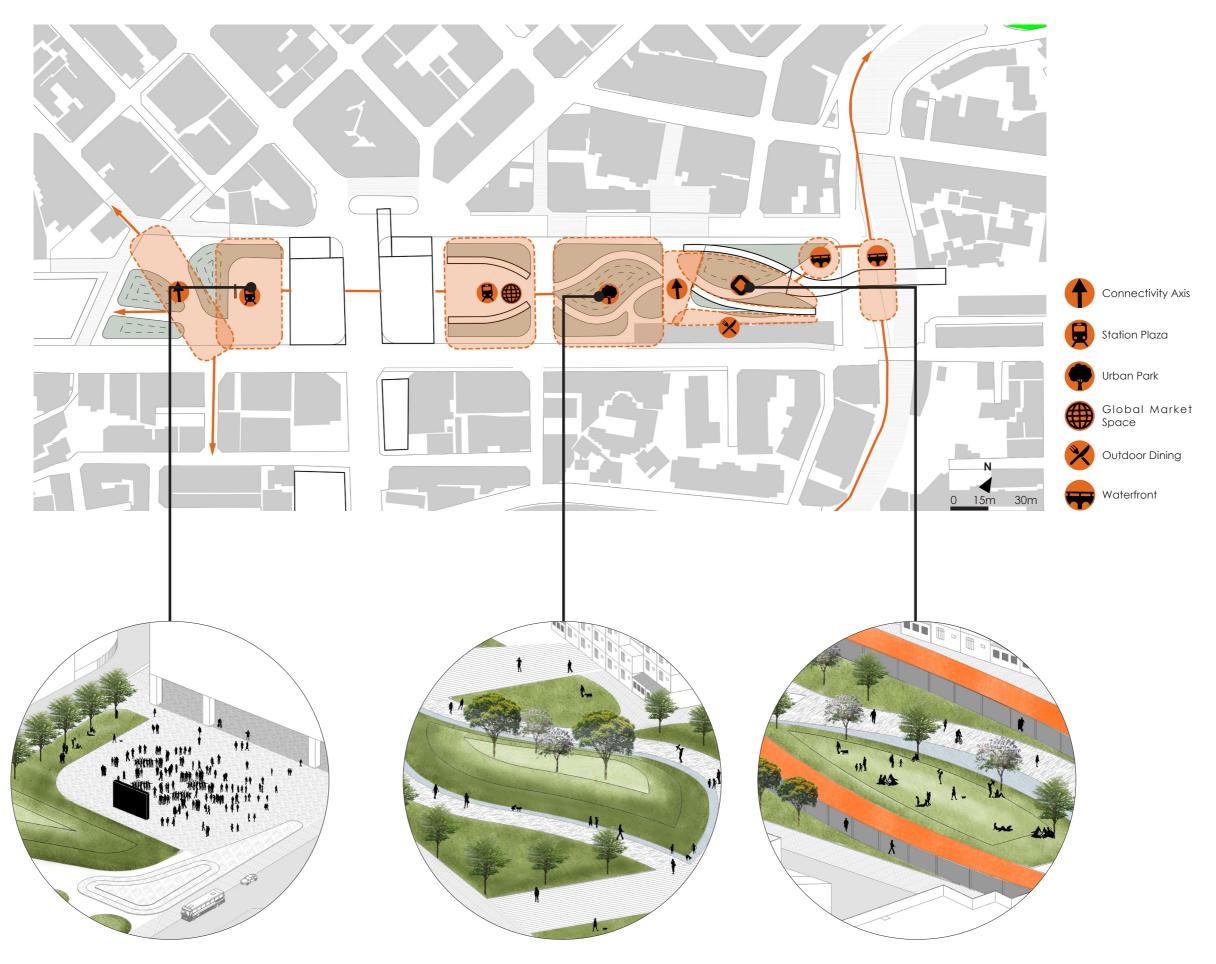


OPEN SPACE PROGRAM OF OPTION I: Mosiac Patterns



ATMOSPHERE OF OPTION I: Mosiac Patterns



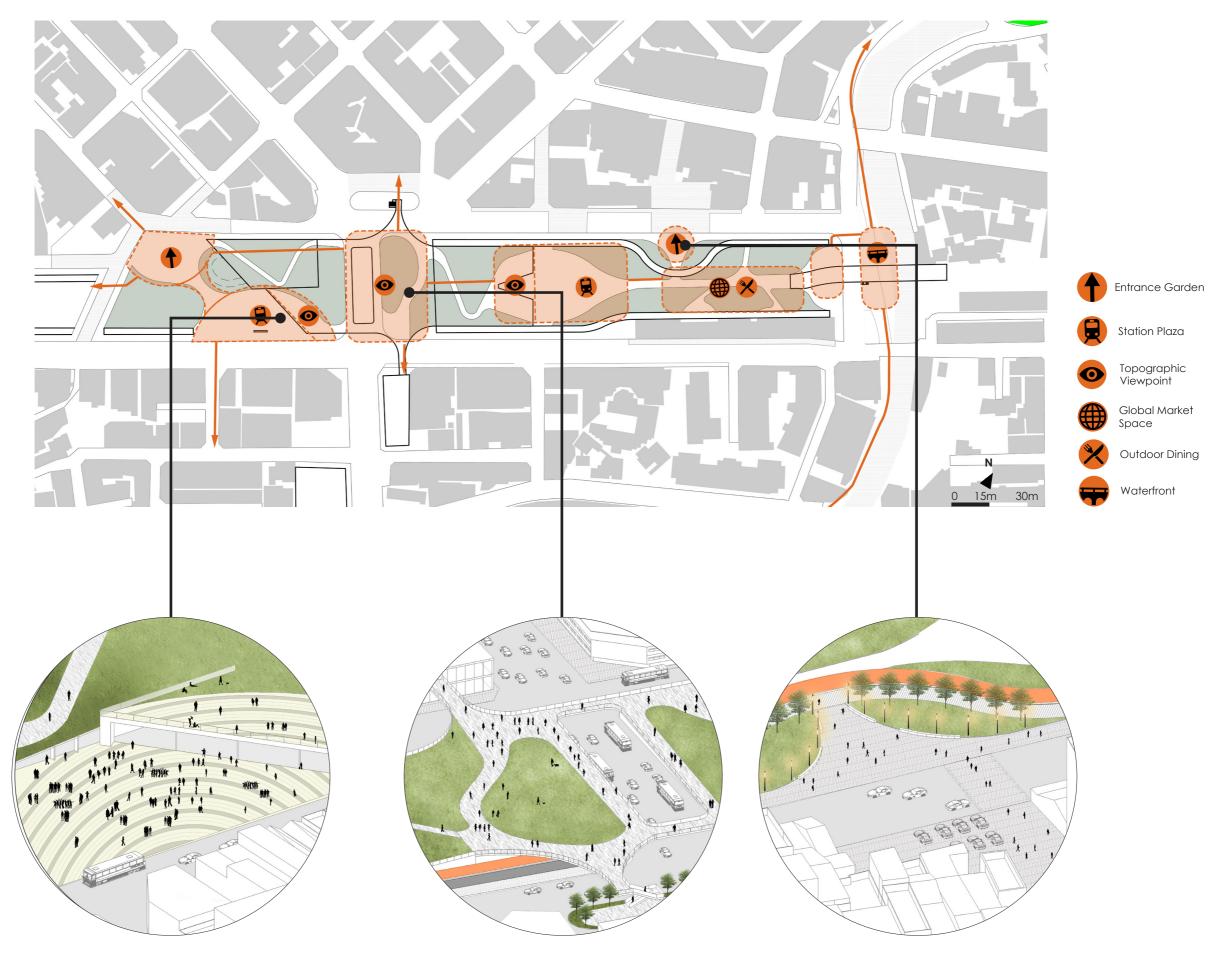


OPEN SPACE PROGRAM OF OPTION II: Micro-segments

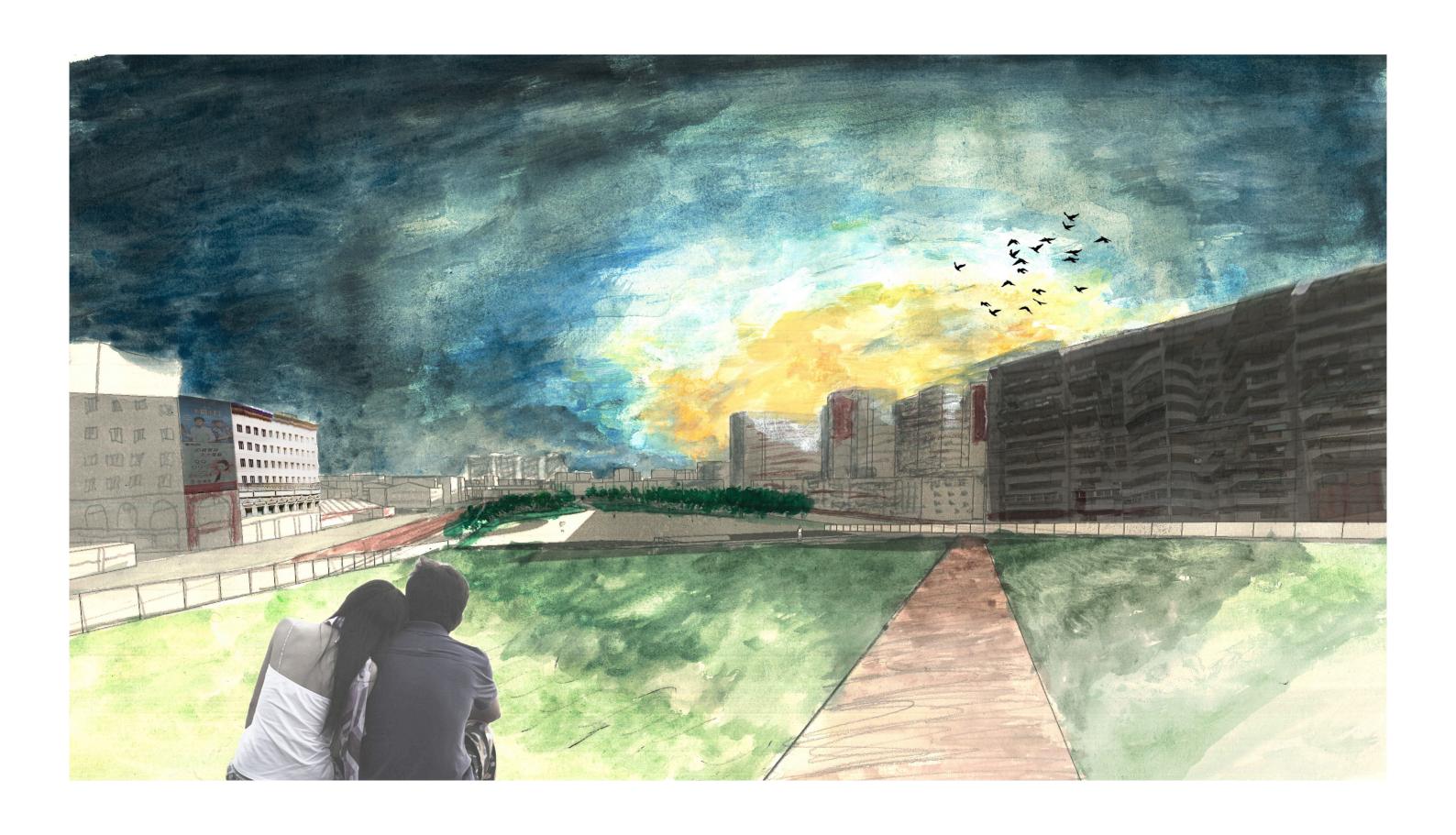


ATMOSPHERE OF OPTION II: Micro-segments





OPEN SPACE PROGRAM OF OPTION II: Micro-segments OPEN SPACE PROGRAM OF OPTION III: Urban Topography

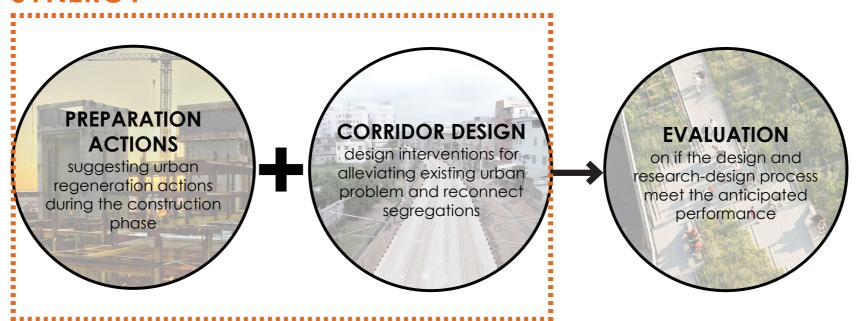


ATMOSPHERE OF OPTION III: Urban Topography

EVALUATION & REFLECTION

What could be learned and reflected from the research objective?

SYNERGY





construction of top down transportation infrastructure project as trigger point of urban regeneration actions

top down transportation infrastructure project as opportunity to contain all actors

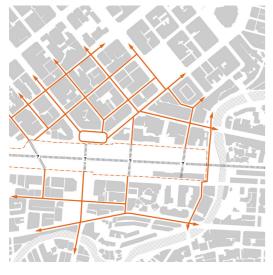
adaptation of design-research process into innovative approach/regulation



utilizing bottom up urban regeneration actions to mitigate impacts from construction

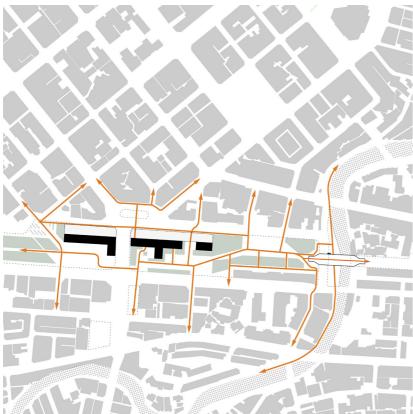
initiate design from the smallest "segment" scale

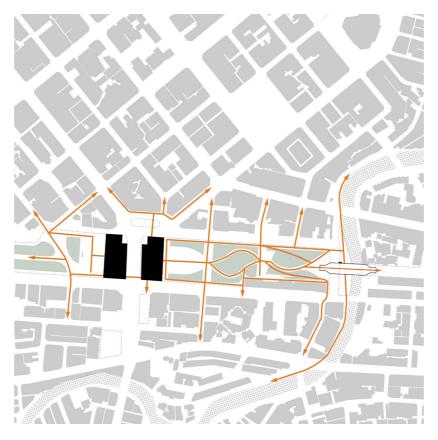
engaging all actors in every stage of decision making

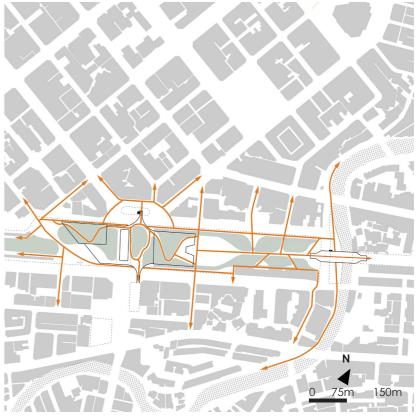


GOAL: SPATIAL

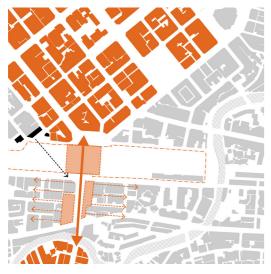
- Reconnect pedestrian connectivity between front/back station via open space.
 Improve pedestrian accessibility of urban dwellers along the project.





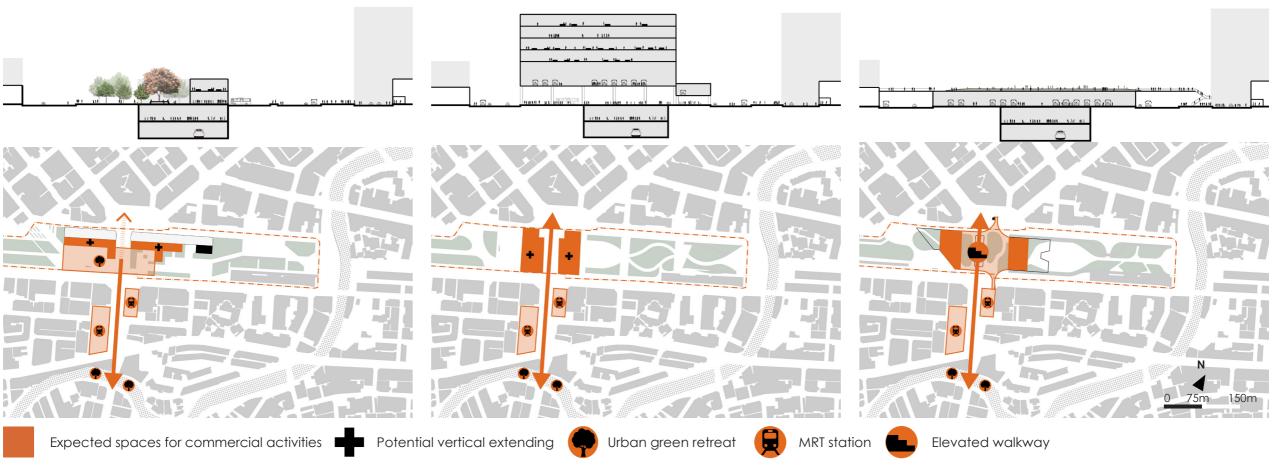


Proposed Pedestrian Connectivity

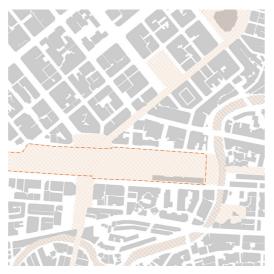


GOAL: ECONOMIC

- 1. Improving back station's lack of resource by introducing new programs
- 2. Alleviating stress of front station by introducing different urban experiences + connecting with other commercial districts





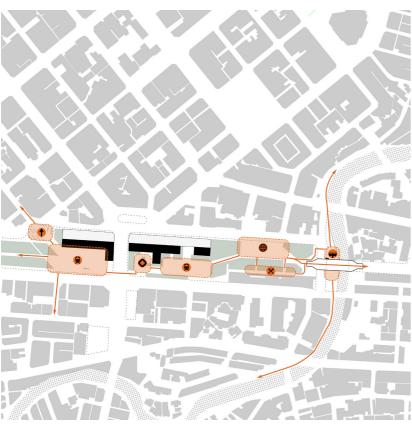


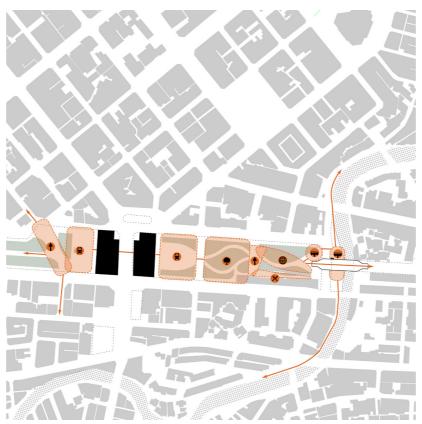
GOAL: SOCIAL

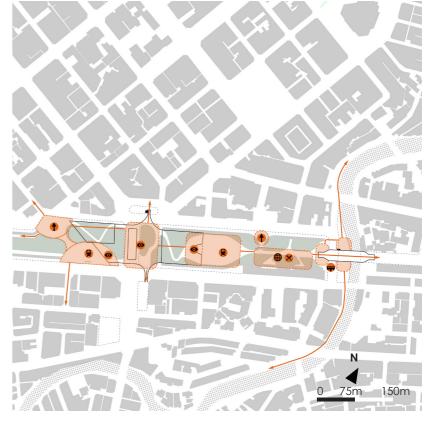
- Include multiple users in the using and making of open space, especially immigrant workers
 Connect urban dwellers with their city by placemaking

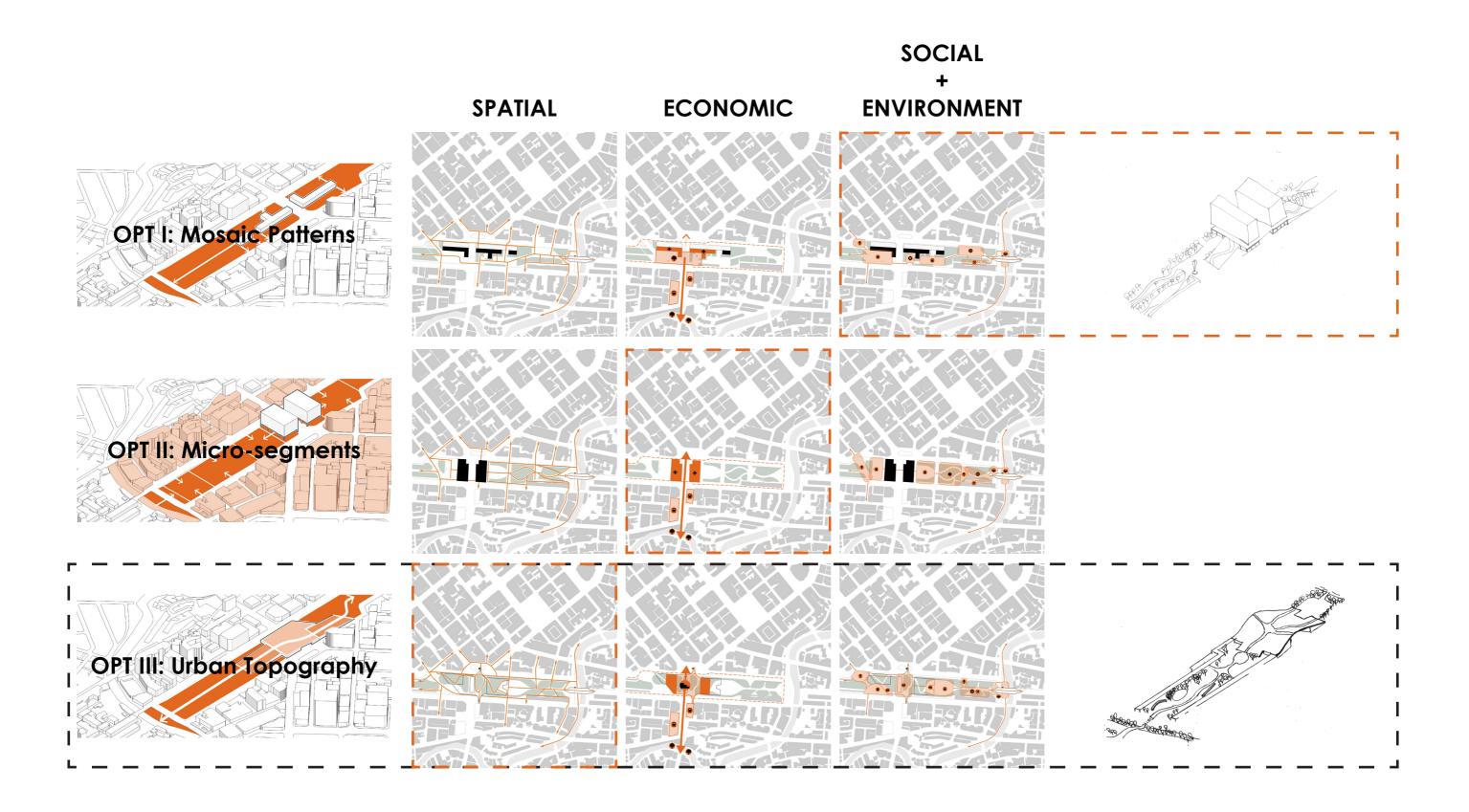
GOAL: ENVIRONMENTAL

- 1. Relieve urban stress from densily built environment and further provide diverse urban landscape experiences
- 2. Connect with existing open space assets and further serve as guide to them

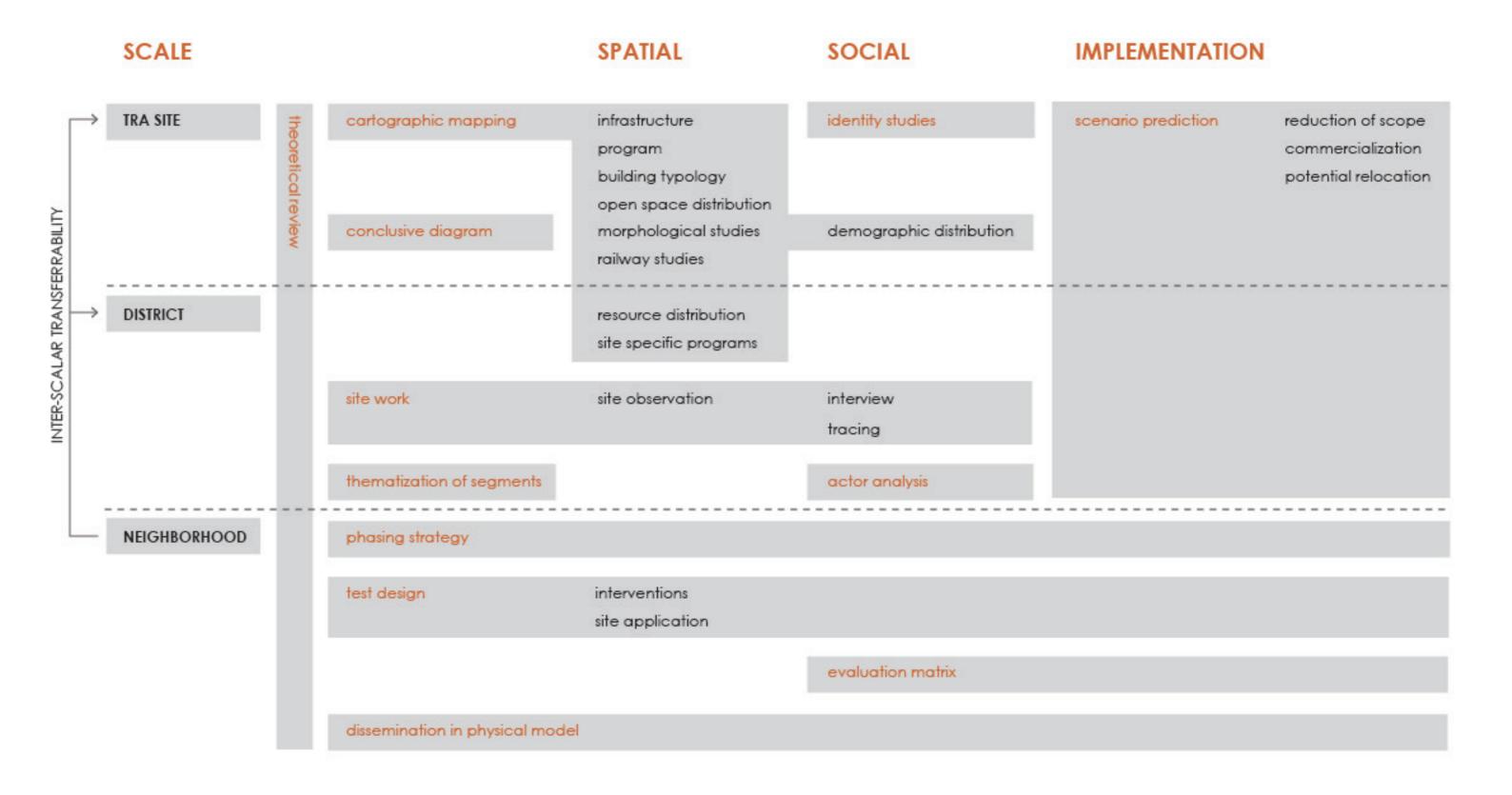


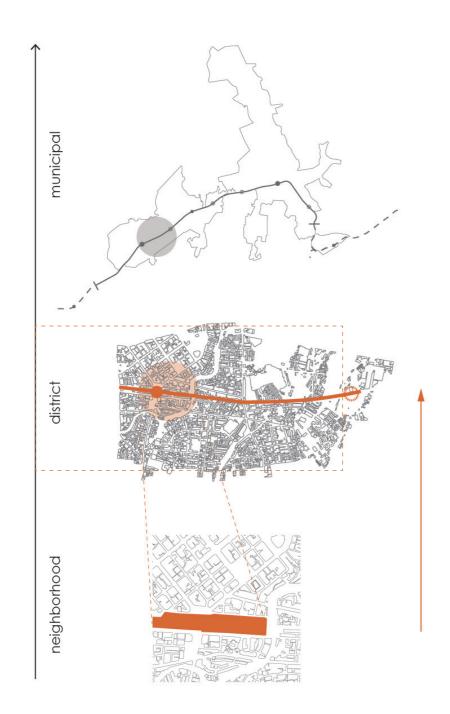




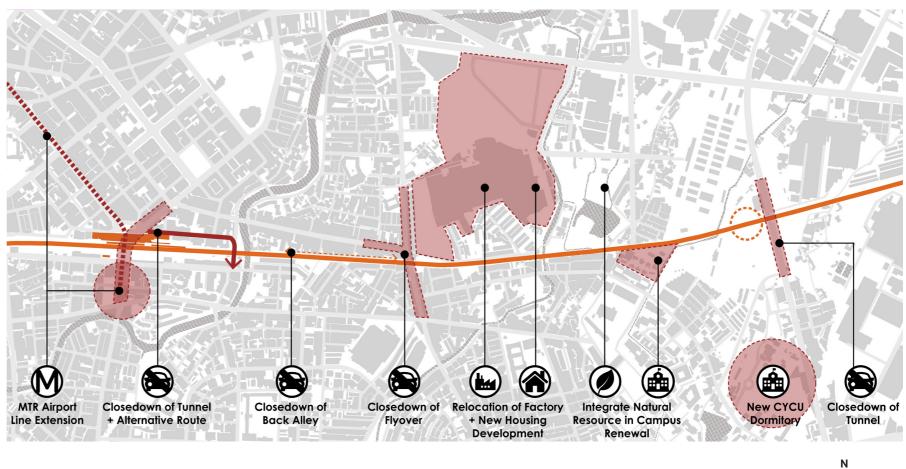


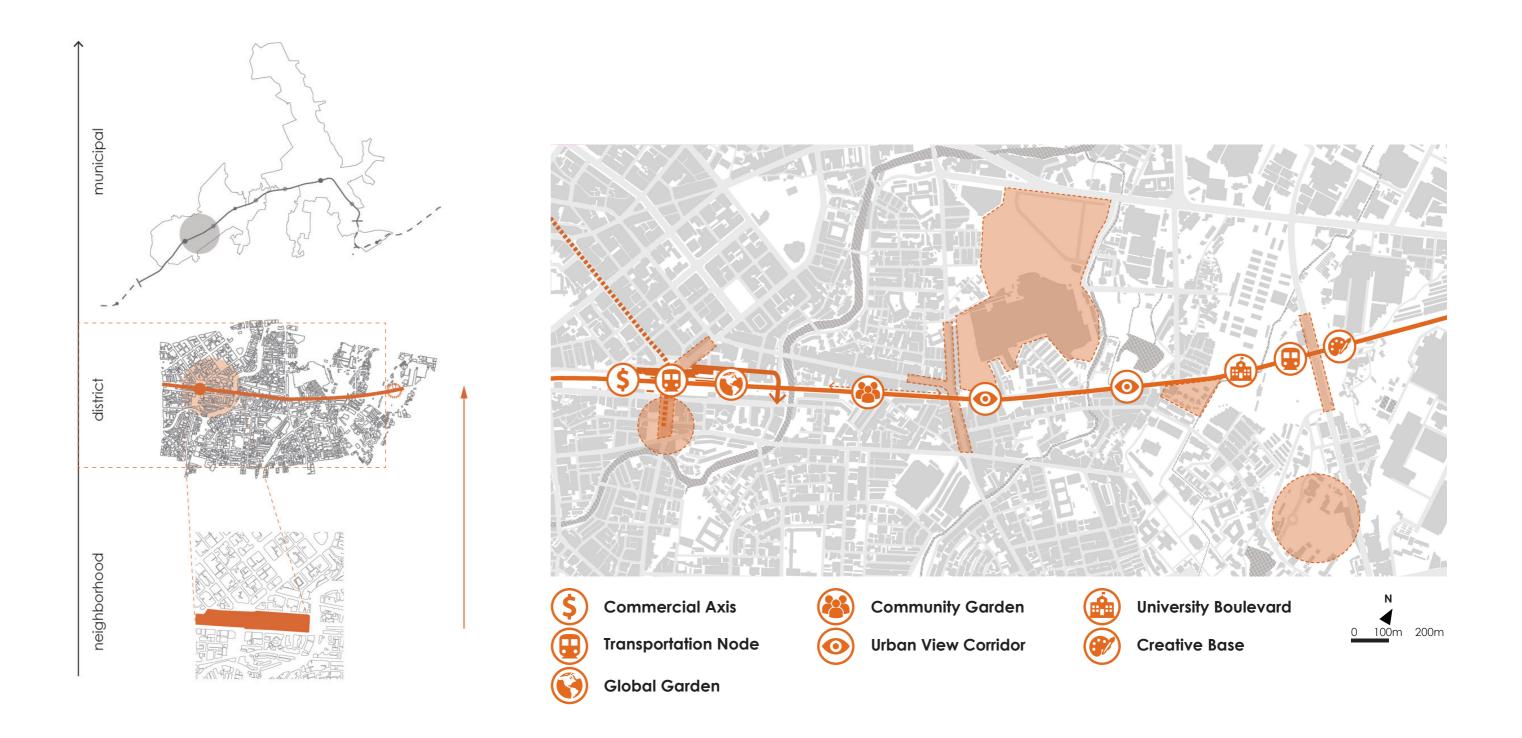
EVALUATION OF TEST DESIGNS: EVALUATION MATRIX





HOW PHASING STRATEGY, DESIGN PROCESS AND EVALUATION COULD BE DUPLICATED AND CONDUCT TO OTHER SEGMENTS

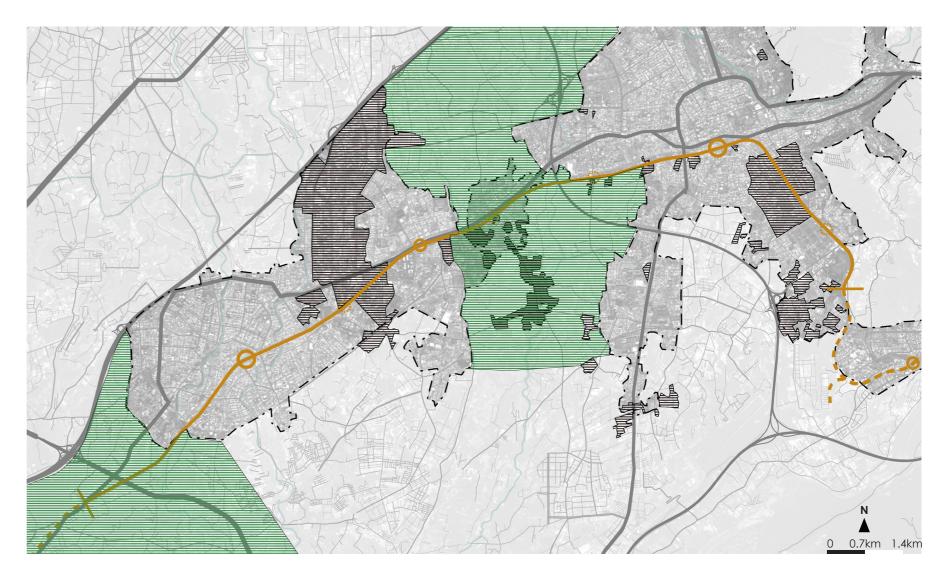




EXAMINING TRANSFERRABILITY OF METHODOLOGY

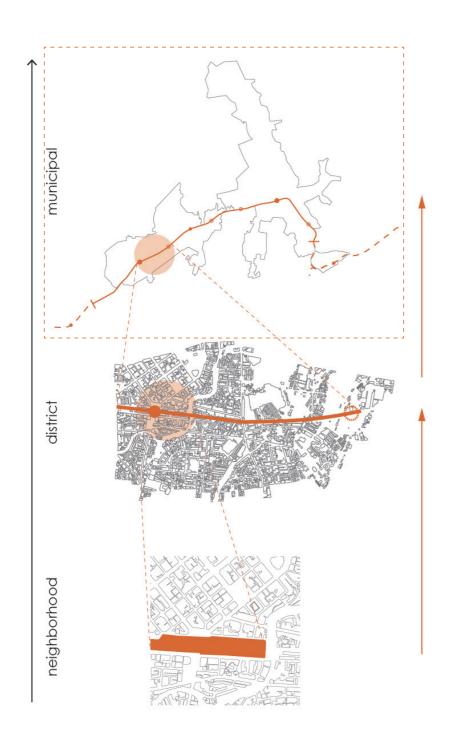
neighborhood

HOW THEMATIZATION/SEGMENT APPROACH COULD TRANSFORM FROM METHOD OF UNDERSTANDING OF SITE TO A METHOD OF APPROACHING THE DESIGN IN BIG SCALE



MORPHOLOGY MAP

EXAMINING TRANSFERRABILITY OF METHODOLOGY





NEW PROJECTS + EXISTING INFRASTRUCTURE

EXAMINING TRANSFERRABILITY OF METHODOLOGY

