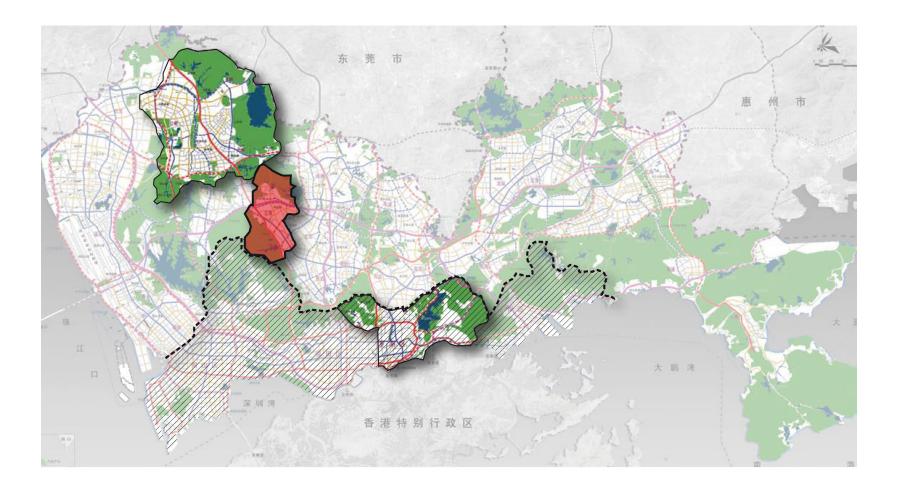
Planning in a **RESTLESS LANDSCAPE**

a,

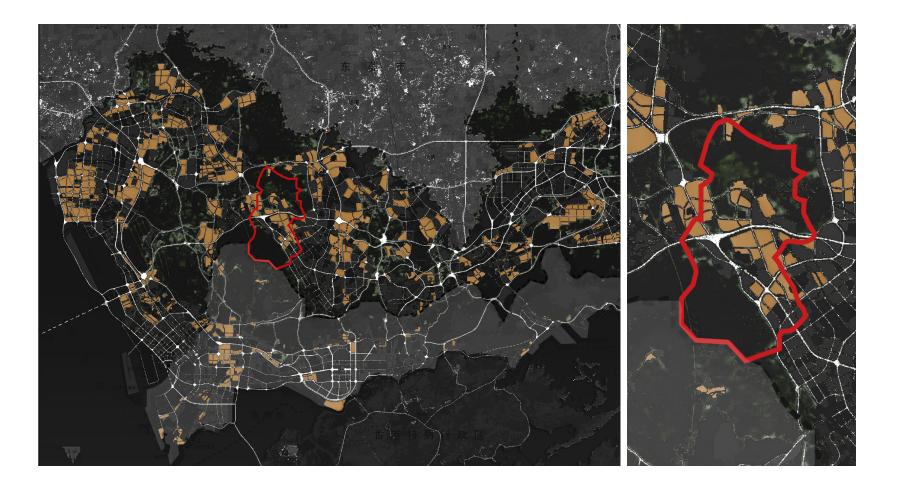
Restructuring Spaces of Mobility as framework for future development in Dalang

Peri-urban Area Population: **500,000**





Manufacturing town





Urbanized 20 years ago





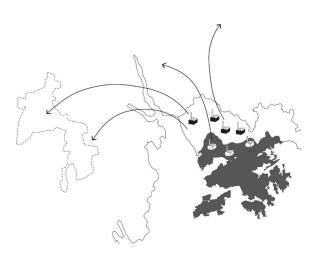
2011 Completely Urban

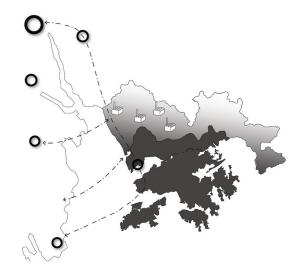
Case of rural urbanization by old villagers Capitalizing on regional flow





NOW: Factories leaving Under transition





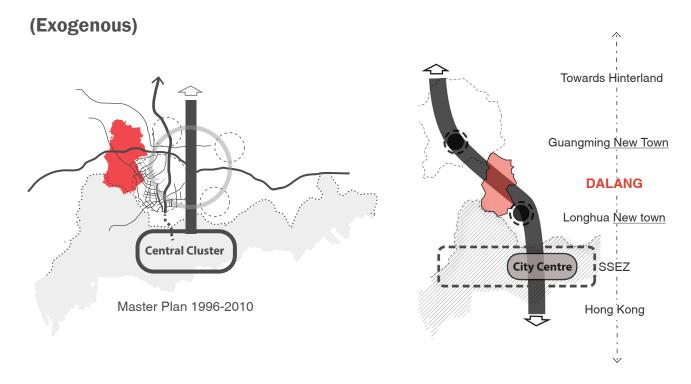


Issue: Upgradation of Industrial tissue

But how will such as tissue evolve ?

(Endogenous)

Given that is a low quality industrial tissue, will it result in complete tabula rasa? What of local population,<50% work in factories; 98% landless workers



Q1 What are the tools required to deal with this restless landscape?

Q2 How can infrastructure which has been the main agent of urban change mainly organizing flow, instead be used to form a spatial framework for future development

SHENZHEN

1st SSEZ in post reform China





Pearl river delta

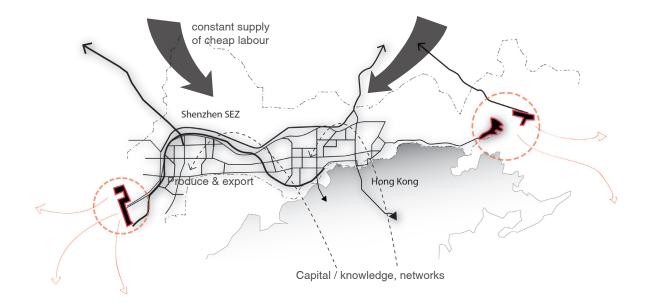
Located Next to Hong Kong

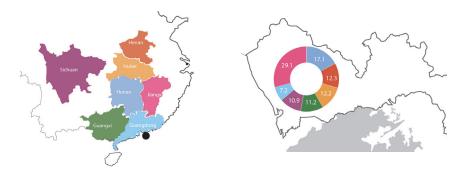




BUILT AS AN EXPORT PROCESSING ZONE

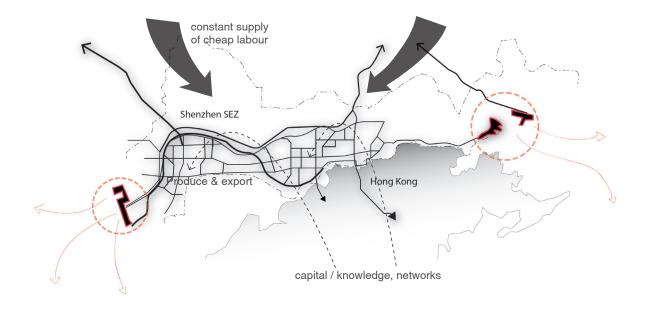
'95% population born elsewhere'80% migrants now

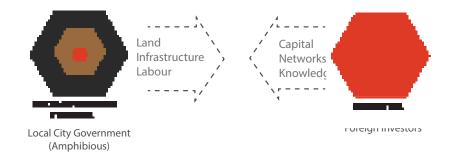




BUILT AS AN EXPORT PROCESSING ZONE

PRO-GROWTH coalition





NATURE OF URBAN DEVELOPMENT

Flexibility has been key to rapid development

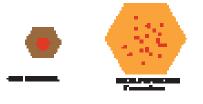


Infrastructure as frame to trigger 'INFILL' urban development

As 'FILL IN' laid to organize, control and regulate development



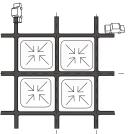




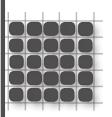




Large blocks



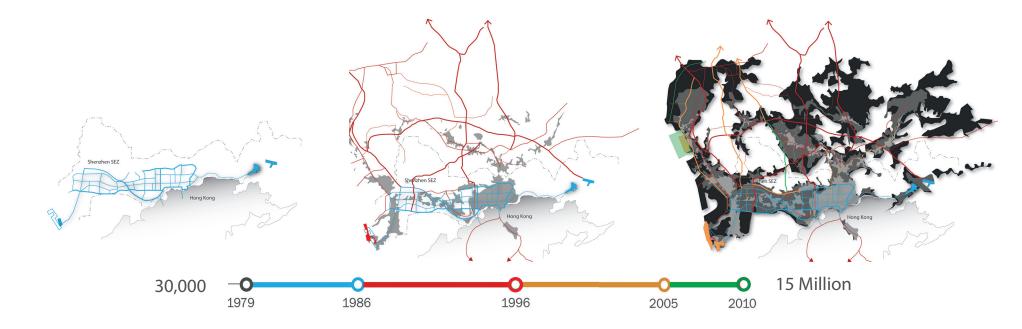
AUTO-based



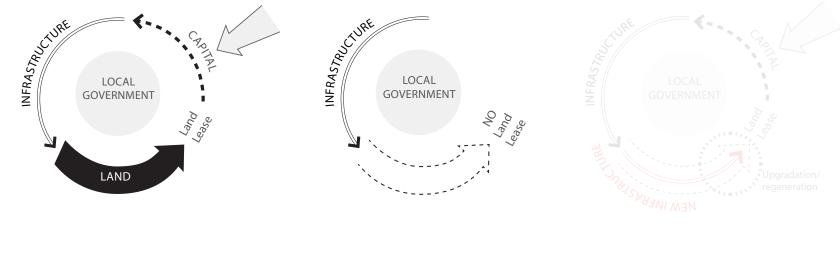
Islands structured by highways and express-ways into clusters

NATURE OF URBAN DEVELOPMENT

- Growth rate **27**% for first 26 years
- Pop. growth 30,000 to 15 million
- Area urbanized 850/1000km2

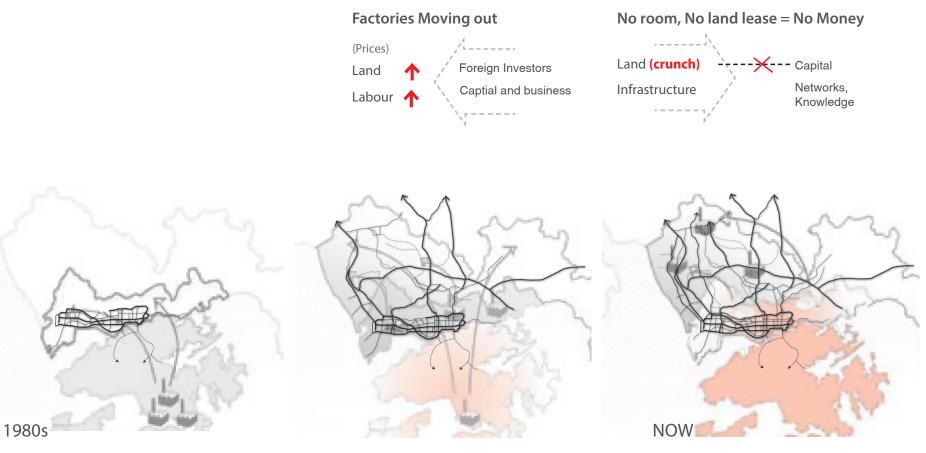


NEED FOR ECONOMIC RESTRUCTURING





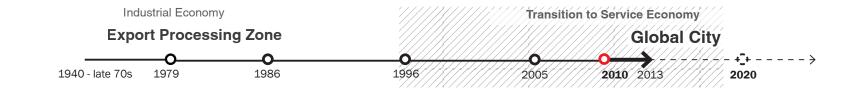
NEED FOR ECONOMIC RESTRUCTURING



Factories move from Hong Kong to Main land lured by cheaper land and labour costs

Rural industrialization Industries move from SEZ to periphery

Industries moving out of Shenzhen Shenzhen transitions to Global City

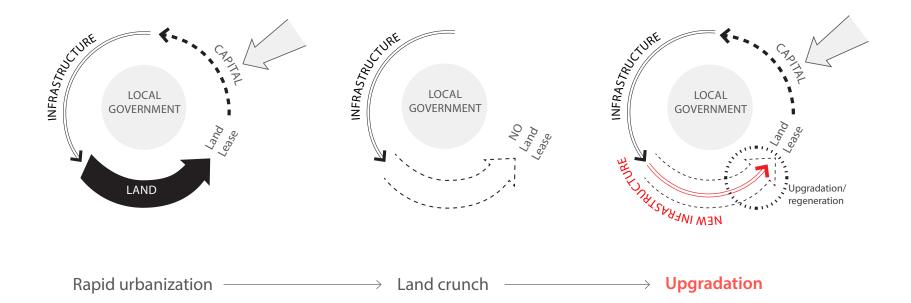


TRANSITION

On-going upgradation

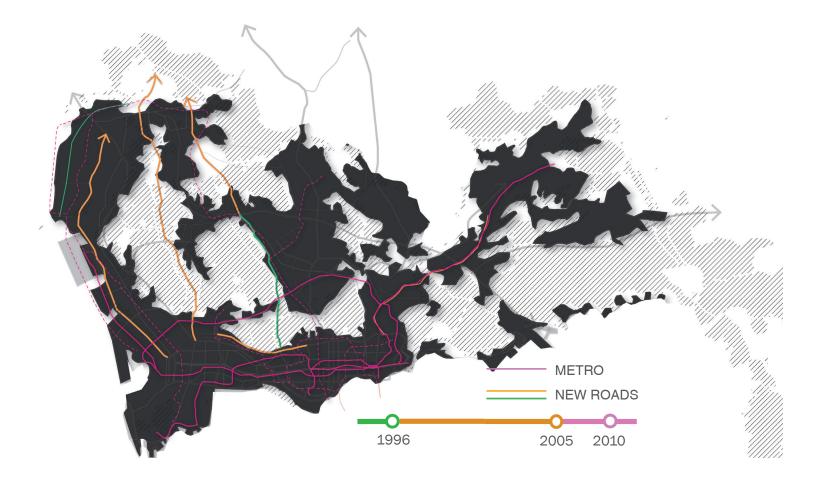
Main strategic focus:

"Planning in Shenzhen today is increasingly focused on <u>consolidation of the urban</u> <u>fabric, spatial integration of urban districts and a multi-layered development of infra-</u> <u>structure.</u>" (Zacharias & Tang, 2010)



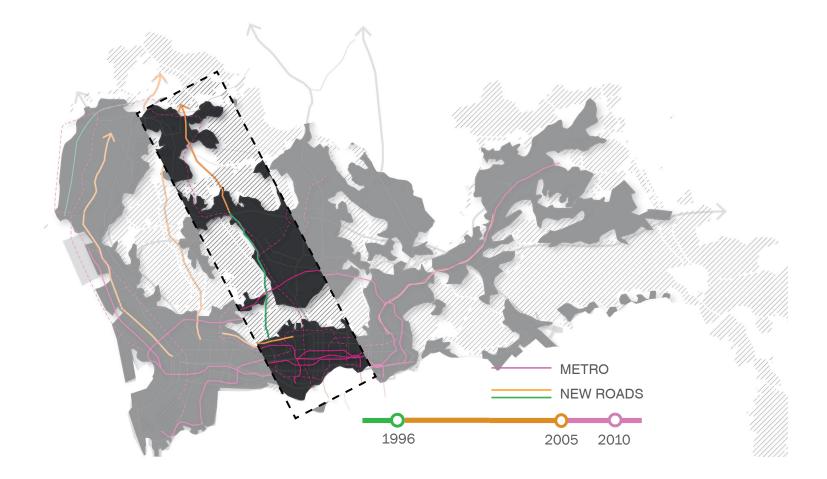
ON-GOING UPGRADATION IN THE REGION

New infrastructure



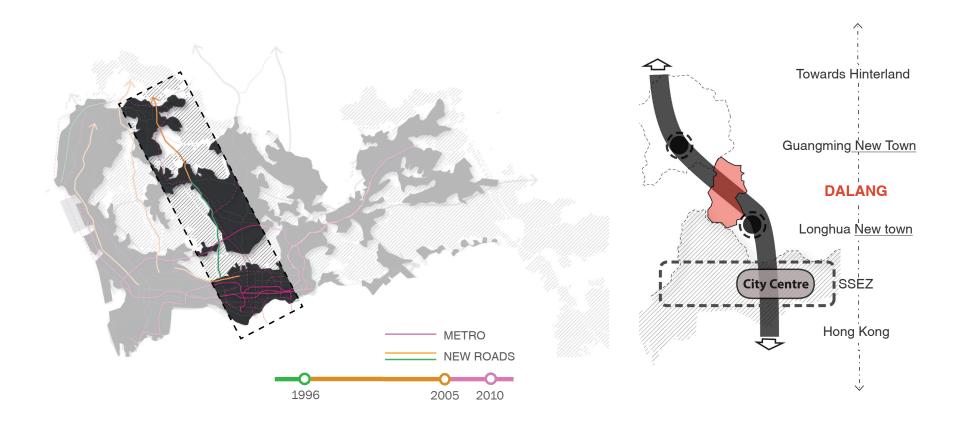
ON-GOING UPGRADATION IN THE REGION

New infrastructure



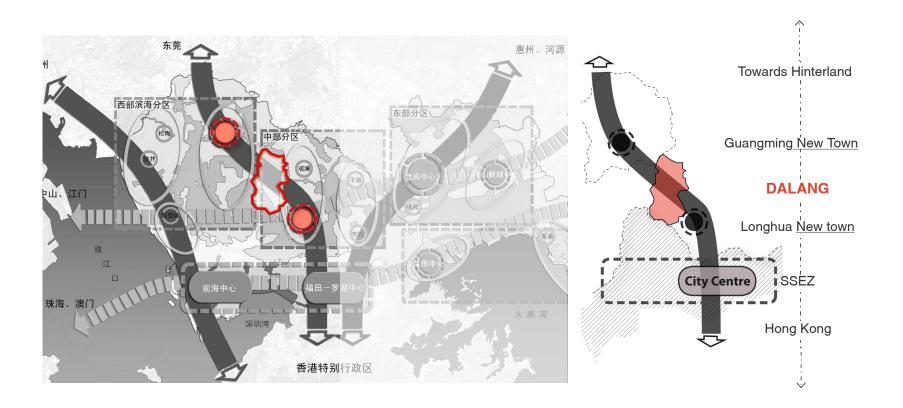
ON-GOING UPGRADATION IN REGION

New infrastructure passing through Dalang changing its regional position



ON-GOING UPGRADATION IN REGION

In line with central axis developmental corridor



ANALYSING DALANG

Rural Urbanization

Most land owned by old villagers









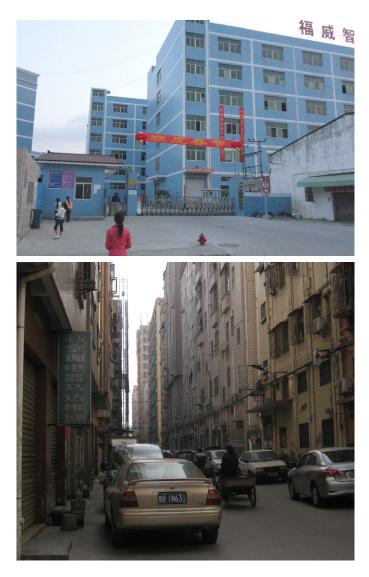


Result: Haphazard urban development Especially in mixed use areas where factories and urban $\hat{v}illages$ are developed together by the old villagers \slash turned developer



Urban Villages

Rural Urbanization





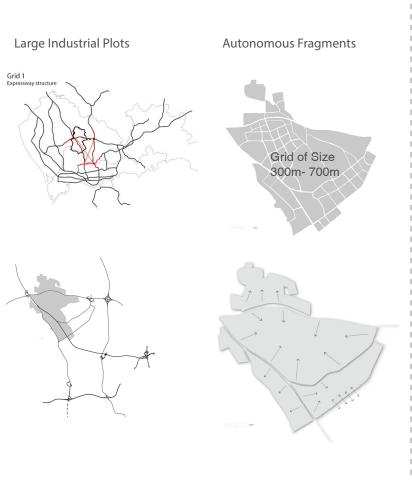


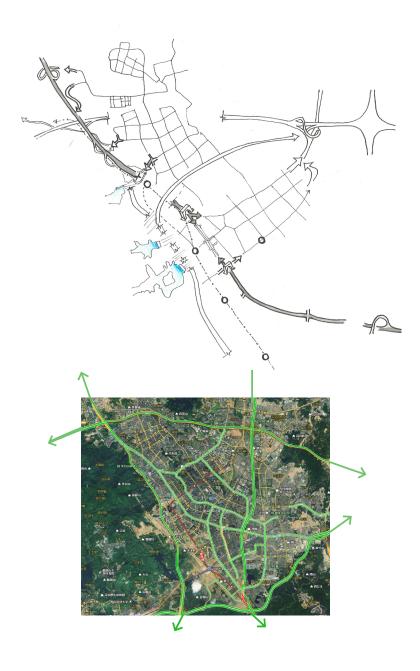
Factories and dormitories



Produce and get it out!

Large plots for maximum flexibility Infrastructure laid for efficiency of flow, Maximising access to large Industrial plots.





Lack of public space (inherent with development as manufacturing town) Over emphasis of flow



Lack of integration of green and blue landscape

No attention to incorporating green areas and open space in residential areas. Even the canal structure a legacy of the former farming landscape lies abandoned and unintegrated with the new built environment.



Green blue landscape



UPGRADATION IS REQUIRED

UPGRADATION PARAMETERS

Source: Centre of Design, Dalang (Urban Research Cell)

- Regeneration of industrial tissue for new uses
- Increasing liveability and diversity
- Better connection with region

RENEWAL OF INDUSTRIAL TISSUE:

- Redundant factory areas
- Lack of Public facilities (supply and proximity):
- Recreation, education, health care etc
- Improve quality of built environment to adapt to changing demography
- (Workers getting families* and changing post-industrial needs)

SOCIAL ECONOMIC ISSUES:

- Community Integration is low (98% migrants)
- Lack of opportunities to develop life skills
- Developing new Industry

DALANG IN THE REGION:

Improve mobility and connection with City centre

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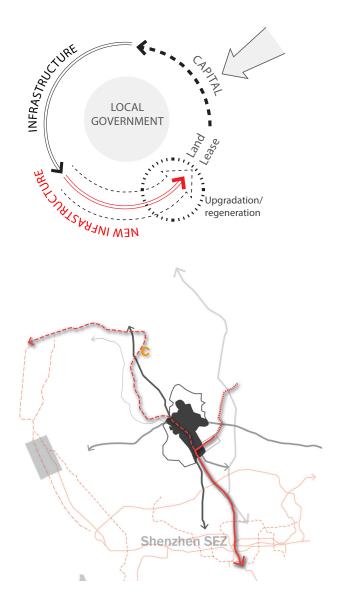
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DALANG IN THE REGION: • Improve mobility and connection with City centre

NEW CONNECTION WITH REGION



Shenzhen SEZ

North-South AXIS

A - 2008-09 New express-way

C - 2010-20 Proposed new Metro

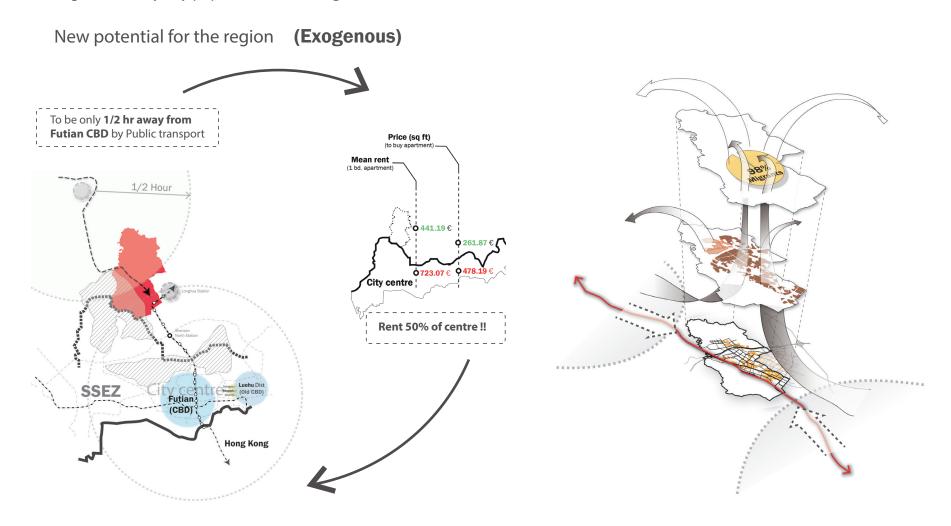
B - 2010-20 **Proposed new Highway**

URBAN CHANGE

On-going Transition (Endogenous)

• Manufacturing moving out, service industry being attracted.

• Change in a homogeneous demographic from landless low educated migrants as majority population to new higher skilled service workers.



Accelerated urban Change & Uncertainty born from it

STAKEHOLDERS





LOCAL POPULATION Power of use





LOCAL GOVERNMENT PLANNERS

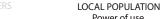


Accelerated urban Change & Uncertainty born from it

STAKEHOLDERS







MIGRANTS Historically marginalized majority

Power of use



LOCAL GOVERNMENT PLANNERS

PLANNERS

Facing challenges to balance government ambitions and economic goals vs often conflicting ground reality.

Accelerated urban Change & Uncertainty born from it

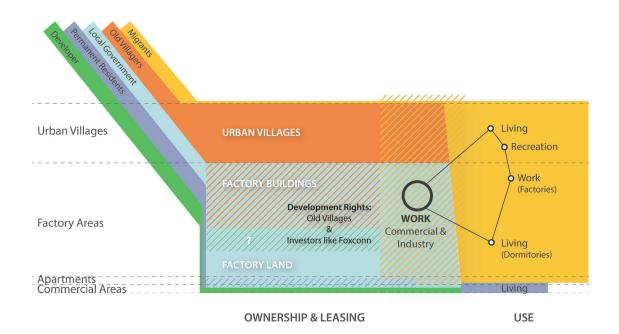
STAKEHOLDERS

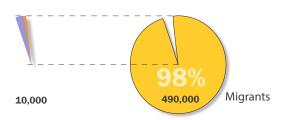


Power of use

Migrants: Uncertainty of livelihood

- Lack of skills to participate in service economy
- No land ownership to control future of on-going transformation
- Lack of social policies by government to support them.





Accelerated urban Change & Uncertainty born from it

STAKEHOLDERS



LOCAL POPULATION Power of use

Migrants: Uncertainty of livelihood

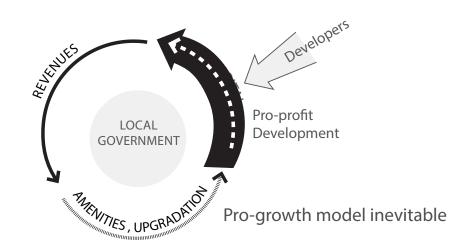
- Lack of skills to participate in service economy
- No land ownership to control future of on-going transformation
- Lack of social policies by government to support them.



LOCAL GOVERNMENT PLANNERS

Planners: How should planning respond?

- How to plan in highly dynamic reality; regulate the rapid speed to transformation on ground?
- Who to plan for with an indeterminate population ?
- How to balance social objectives/needs especially with scarce funds and land crunch forcing pro-profit strategies.





POSITION

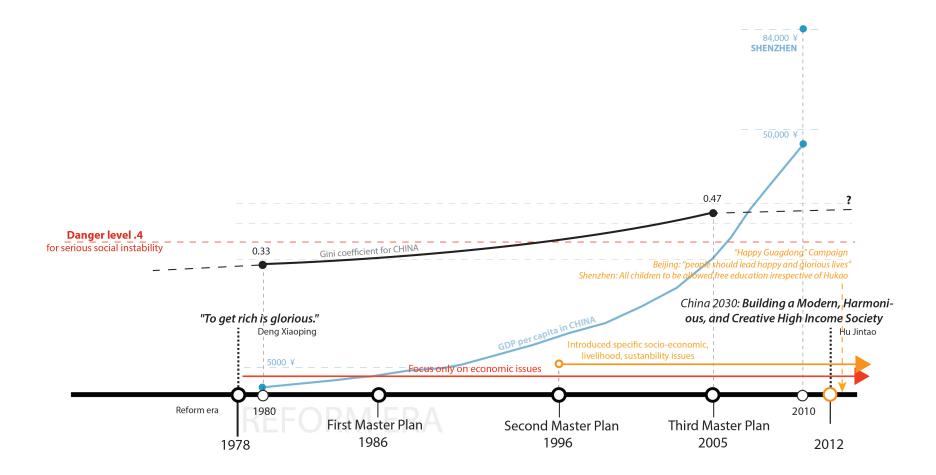
LOCAL SUB-DISTRICT PLANNER

REGION Uncertainty for planners Master plan Regional Rapid developments on ground reactive flexibility = Endogenous ≣ Potential Uncertainty about Bottom up regional dynamic neglected Ensuring local flexibility/ freedom/identity Top Down LOCAL

AIM

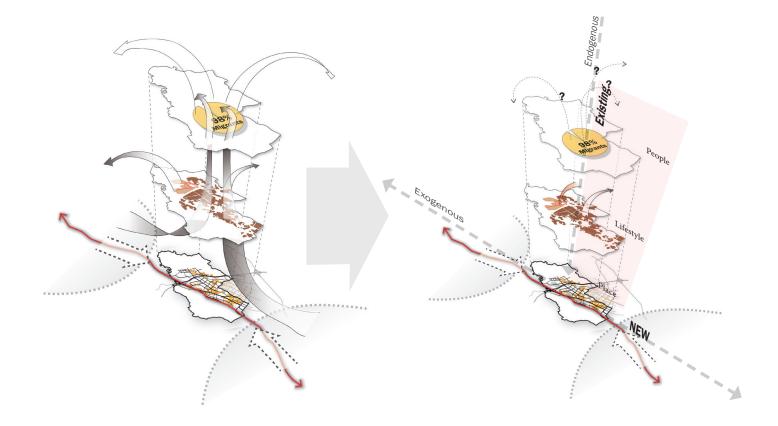
Accelerated urban development being the condition characteristic of Shenzhen

In the light of unbalanced development and deep inequalities and marginalization that has been synonymous with development in Shenzhen as an inevitable outcome.



AIM

The AIM is to build a **planning framework for make a place that allows for diversity to thrive, provides freedom and opportunity for new and existing residents.** It is also a measure to **regulate exogenous pressures and facilitate endogenous capacity**. This strategy is to improve the quality of environment, life chances for the locals and overall competitiveness.



RESEARCH QUESTION

In the 'Restless Landscape' (Lin & Wei, 2002) where people, functions, social structure are in flux. What are the planning tools required to build an inclusive, yet flexible framework for future development of Dalang in context of uncertainty that allows for an evolutionary rather than revolutionary model to future planning?

ANALYTICAL FRAMEWORK

Evolution of the restless landscape

1 ELEMENTS STRUCTURING THE LANDSCAPE. As city evolves - 1) Which will stay on; 2) Should stay on 3) Which will change

2 Identifying and investing Public/ collective value

DEVELOPING RULES TO DEFINE SPATIAL FRAMEWORKS

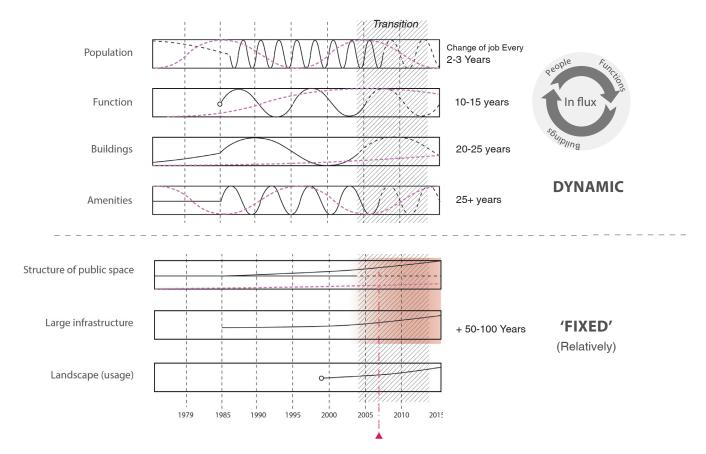
To supervise open development Allowing freedom/opportunity for change Allow for initiatives, spontaneity

Flexibility R<u>ules C</u>haos/Uncertainty

Elements structuring the landscape

1

TOOLS

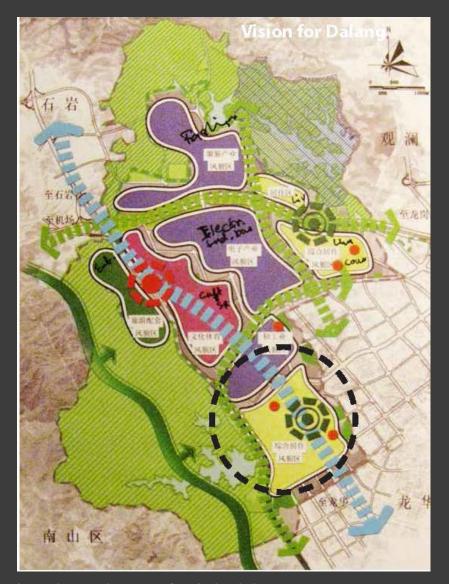


TOOLS



EVALUATING PLANNERS' TOOLS Population **Private Domain** Future dictated by Function DYNAMIC market forces Buildings 1) Land use Inevitable pro-profit **Uncertainty in** 2) Provision of Public development* = its planning amenities, open spacand realization Amenities Land crunch es, Services 3) Social housing * Structure of public space Large infrastructure FIXED 3) Infrastructure It is the only tool = Public Domain \rightarrow following the 'plan' Landscape (usage) 0-1. 1979 1985 1990 1995 2000 2005 2010 2015

VISION FOR DALANG



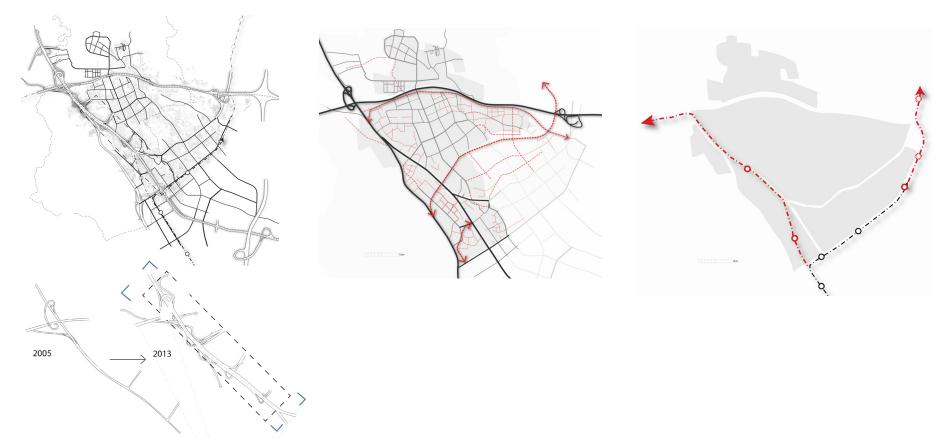
Legend as per document given by local planners

Culture and Living Craft and sports Programs related to green environment Industry

EVALUATING INFRASTRUCTURE AS A TOOL

NEW INFRASTRUCTURE BEING PROPOSED

Continuing the technocratic approach



Changes in morphology of road in its meeting with local fabric to prioritise a specific direction of flow Proposed road infrastructure merely completing master plan of 1990. Reinforcing dependency on car Proposed Metro line: despite being public transport, it is aligned with highways carrying regional flow rather than catering to Dalang as a place



REVELEVATION FROM GROUND SURVEY

Infrastructure as generator of urban form

Paul Rudolph - "... urban thorough-ways and city transport systems of all kinds should be recognized as a major generator of urban form, as meaningful even fundamental - elements of urban design"



Congregation of city functions Edges of block - fronches of urbanity

These perimeter building key to entrepreneurial ability

Restaurants and markets
 Businesses
 Clusters of micro industries

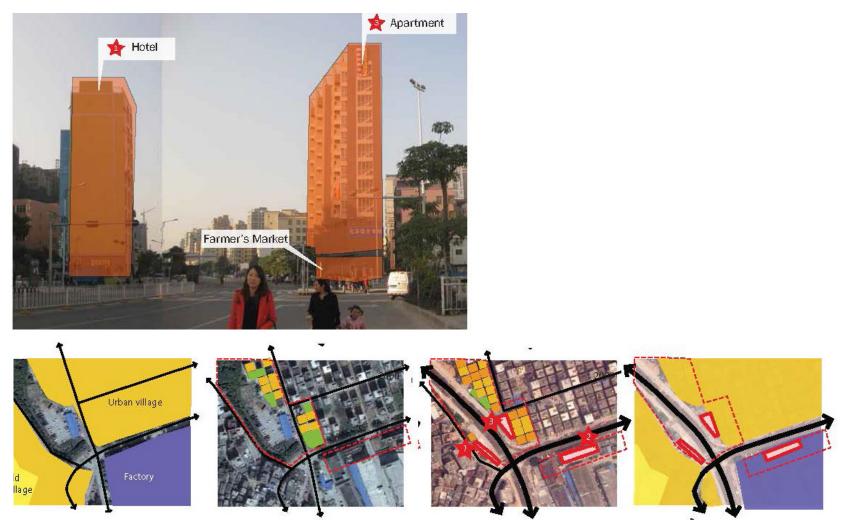




2

REVELEVATION FROM GROUND SURVEY

Places of hybridity



Place of hybridity in a rather mono-functional and fragmented landscape

REVELEVATION FROM GROUND SURVEY

Inadvertent Public Spaces

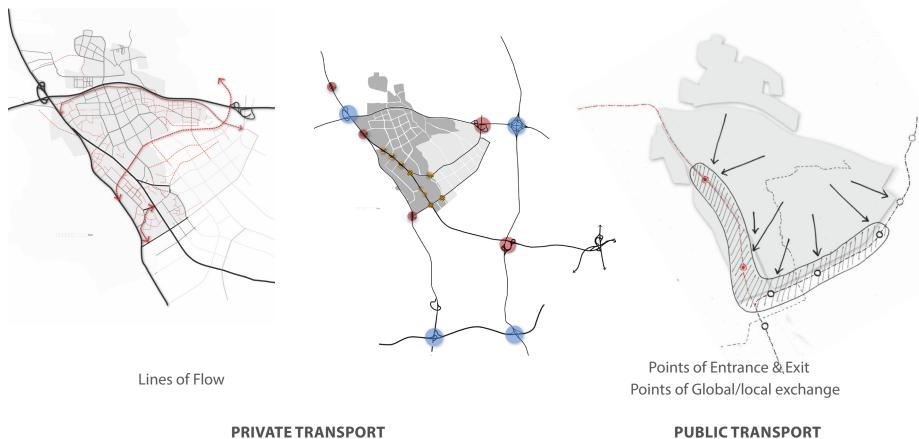
In seeing infrastructure '...not as a tube but as space'

"Infrastructures of mobility are prime candidates for becoming public spaces, or, better yet, public forms that are true and proper to the exigencies and demands of a modern urban society." (D'Hoog, 2010)





Current and future structuring to be greatly determined by infrastructure connections



PRIVATE TRANSPORT

PROJECT APPROACH

- Location of the metro
- Path of Metro Line
- Regional Node in Local Tissue
- Making of a Spatial Framework





LOCATION OF METRO Public access node to regional network in a local tissue

Accessibility: Walkability (1600km range, 800m radius of zone)

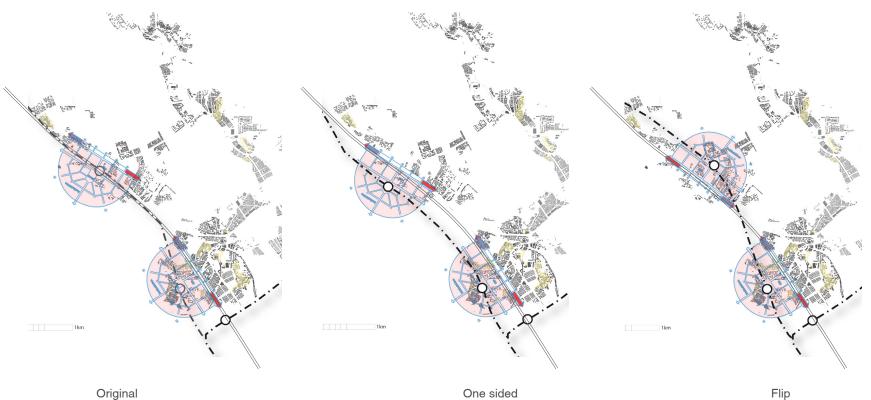


ORIGINAL PROPOSED BY GOVERNMENT ONE SIDED

FLIP

LOCATION OF METRO Public access node to regional network in a local tissue

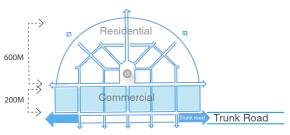
Development potential: TOD model



Proposed by government

One sided

Flip



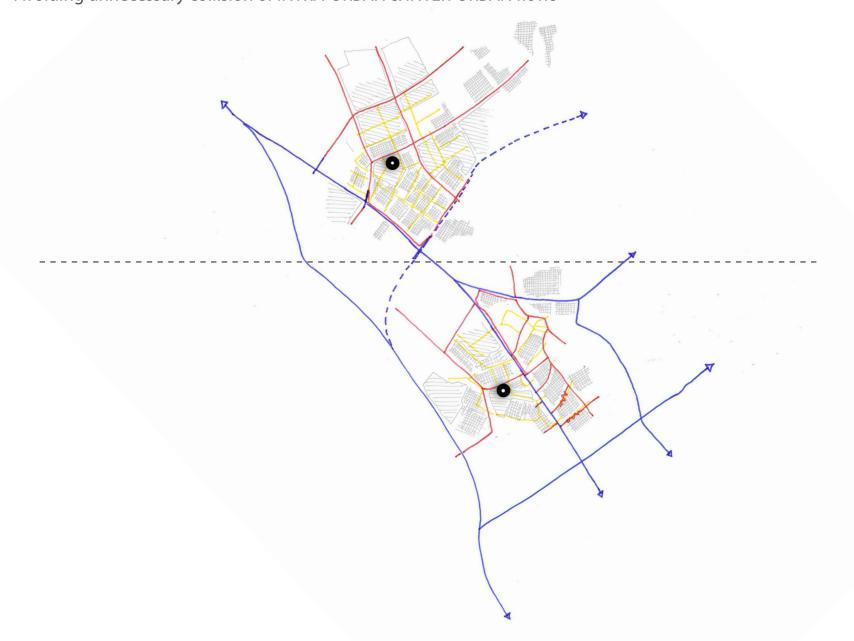
Transit oriented Development model (TOD)

Location of the metro
 Regional Node in Local Tissue
 Path of Metro Line
 Making of a Spatial Framework

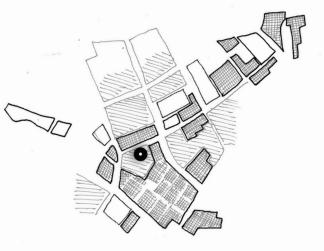
LOCATION OF METRO RULE #1

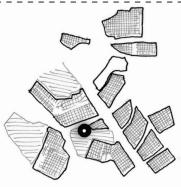
Away from the line; In the Local Tissue

Placing them within communities to lend them a natural sense of place to each station and trigger local benefits.
Avoiding unnecessary collision of INTRA-URBAN & INTER-URBAN flows

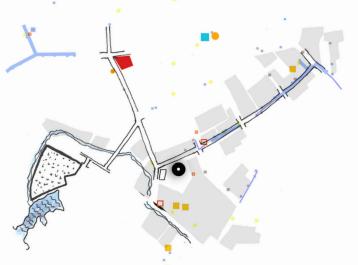


• Stations are placed with respect to critical residential mass of Urban villages to maximise benefit to otherwise marginalized community.





• Align with existing/potential public space networks, embedding them in the urban daily system.





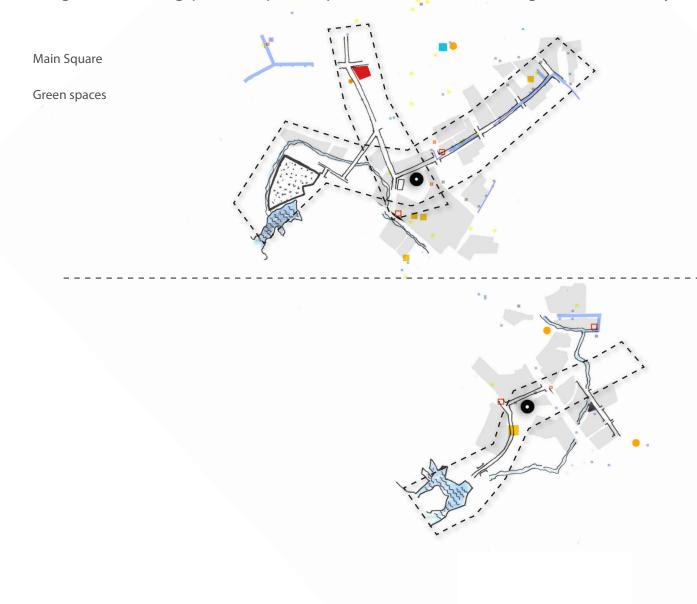
• Align with existing/potential public space networks, embedding them in the daily urban system.





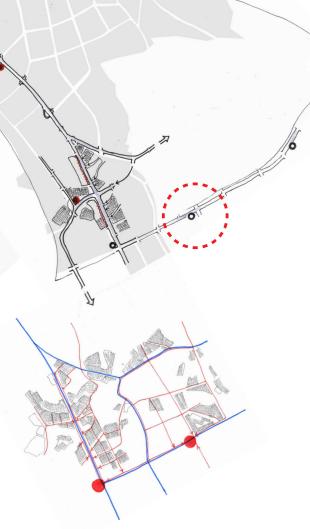
Main Square

• Align with existing/potential public space networks, embedding them in the daily urban system.





LOCATION OF METRO Proposed Location of Metro Nodes Metro nodes as per current proposal by government 17 Metro North Metro South **Regional Flow** Local vehicular Flow Pedestrian and neighbourhood level



- Location of the metro Regional Node in Local Tissue
 Path of Metro Line
 Making of a Spatial Framework









Metro nodes as per current proposal by government Station not a node. Functions and public space not concentrated as a node but scattered along the lines of flow.





Location of the metro

Regional Node in Local Tissue

TEST CASE:

New connections

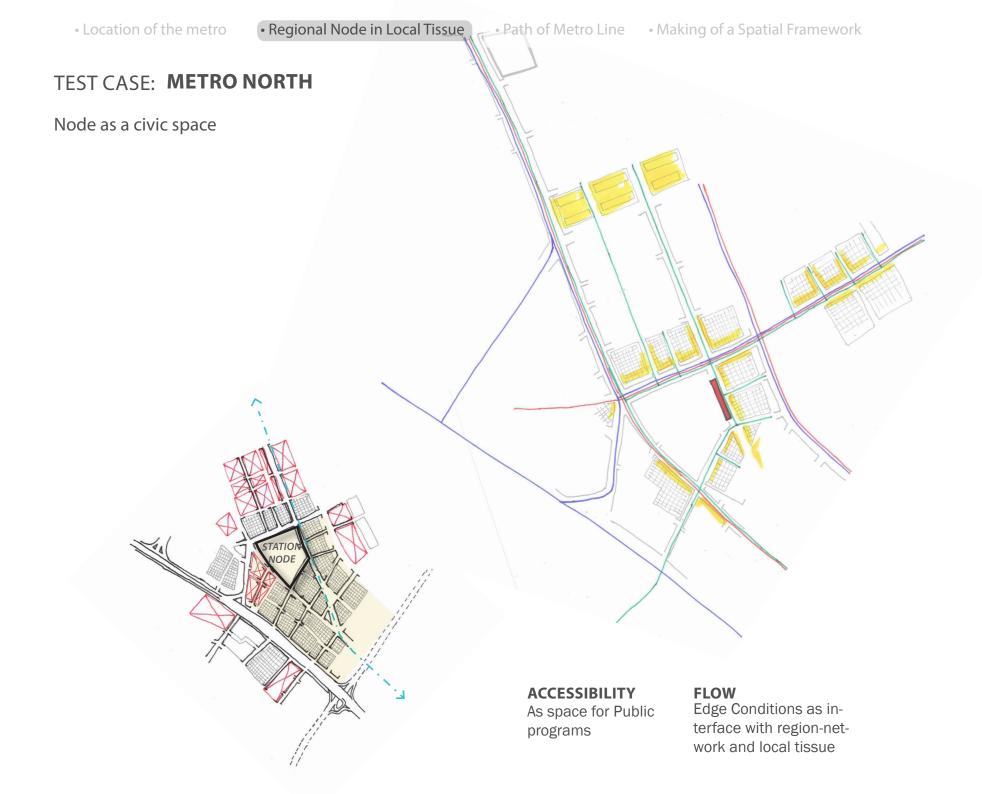
Physical connections are made with respect to -

- Commercial potential as of TOD model
- Walkability radius

Relating to mobility routes from residential areas to the node

Access to Metro-block

Main path ways from residential areas

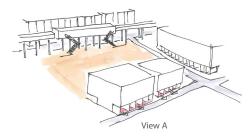


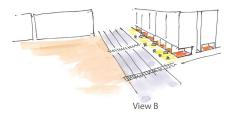
TEST CASE: METRO NORTH

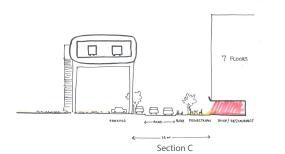
Node as a civic space

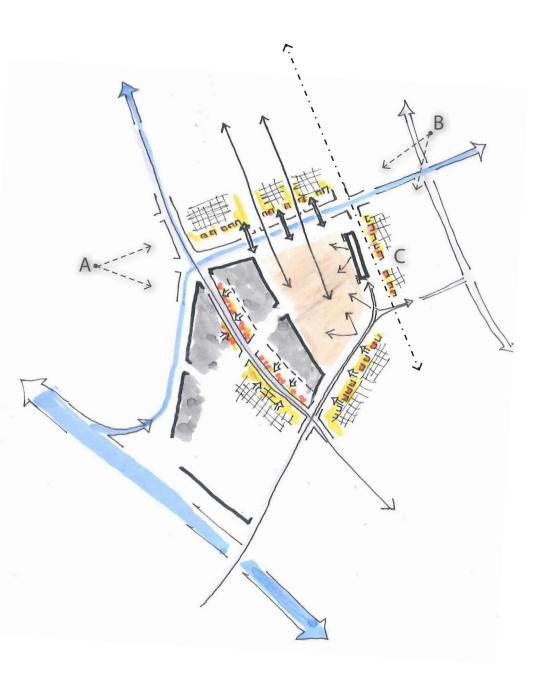
Two design criteria:

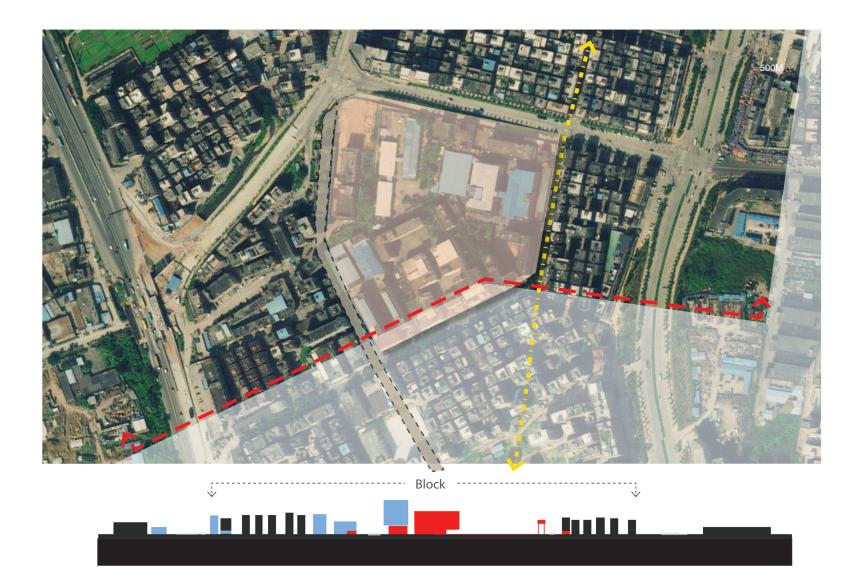
• Edges as interface











TEST CASE: METRO NORTH

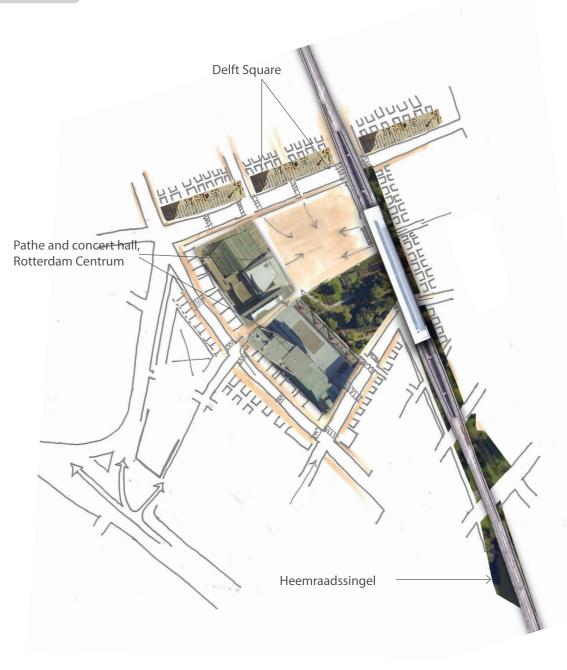
Node as a civic space

Two design criteria:

- Edges as interface
- Space for programme



HEEMRAADSSINGEL

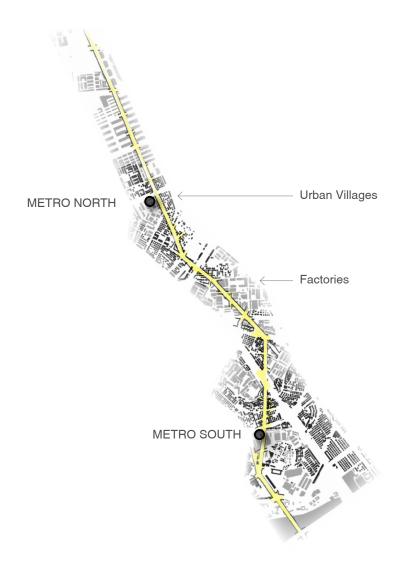




• New architectural typologies and spatial conditions



- New architectural typologies and spatial conditions.
- Sub-dividing the industrial block
- Breaking the monotonous section into bubbles of experience





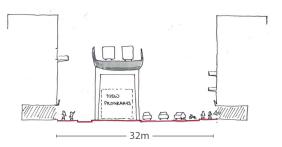
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- As an instrument to make new connections
- As a new line of orientation/ Axis Facilitating cohesiveness and visual & geometric coherence

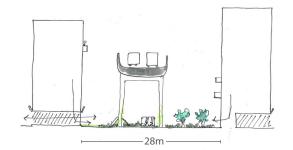


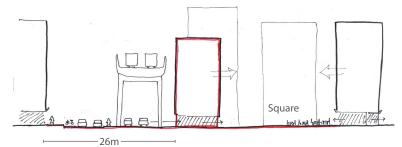
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- Facilitating cohesiveness and visual & geometric coherence
- A new geometry

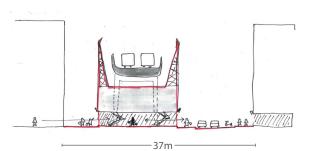








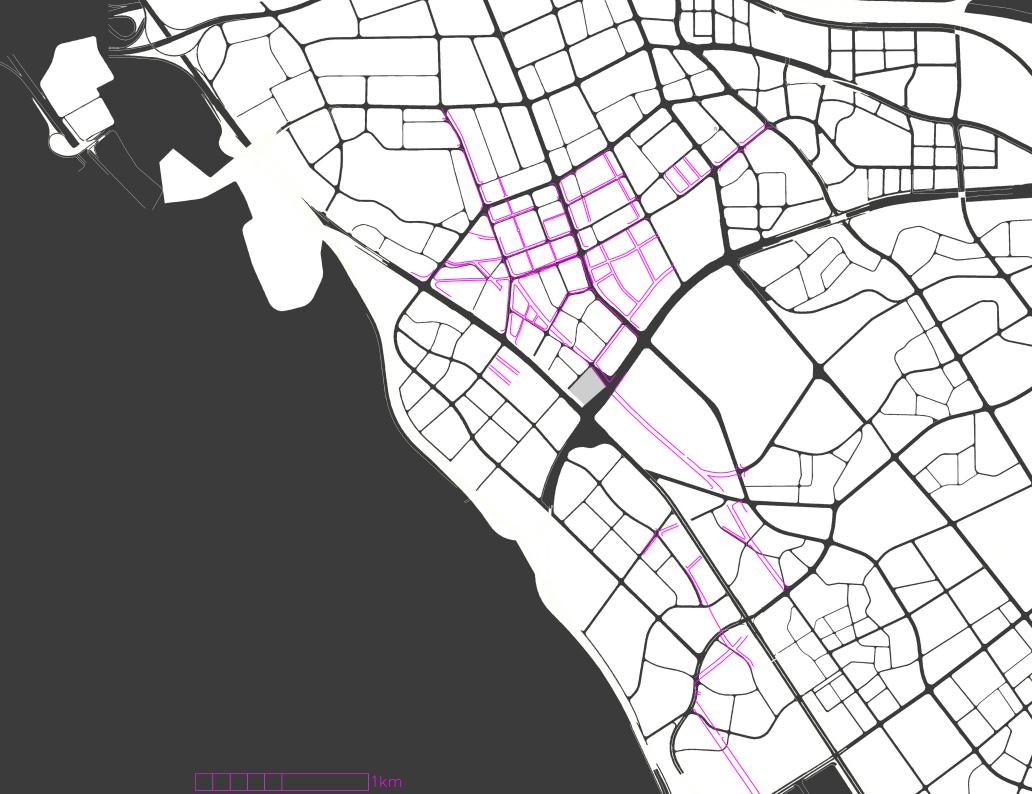














Existing Square Proposed Square New blocks as potential public spaces and Services Proposed Area for New services Land use: Housing Land use: Industrial and Commercial

*

**

Hills Existing parks

林

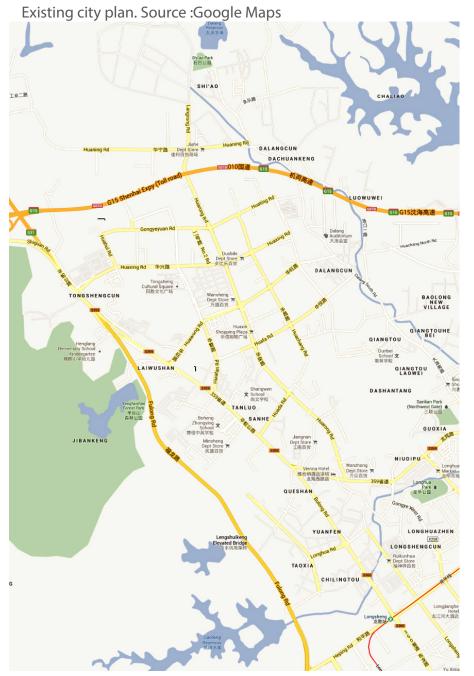
New parks proposed

Schools

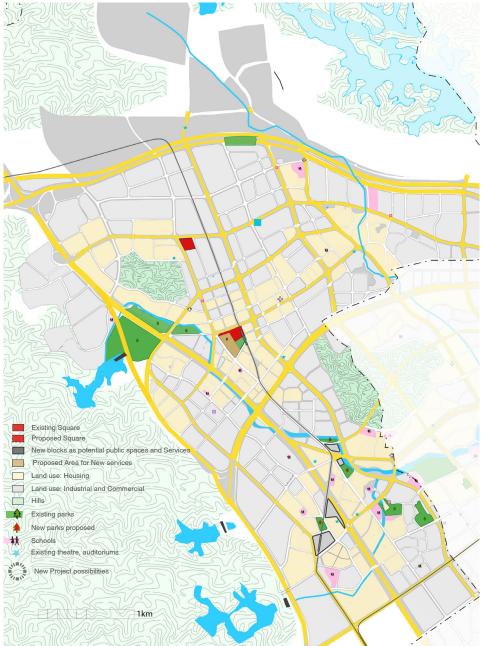
Existing theatre, auditoriums

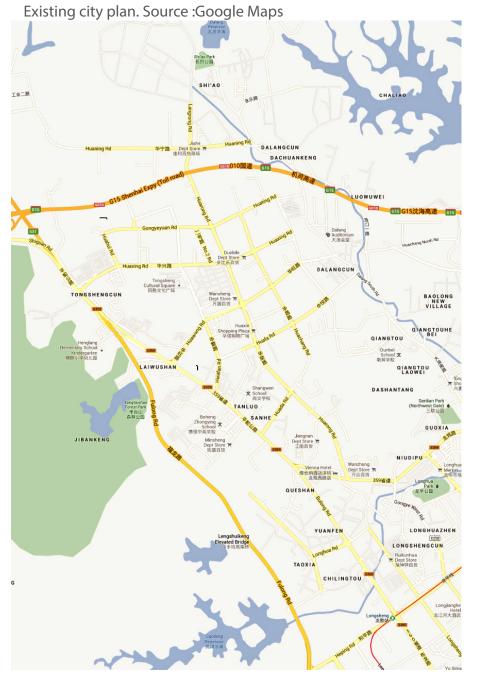
New Project possibilities

1km

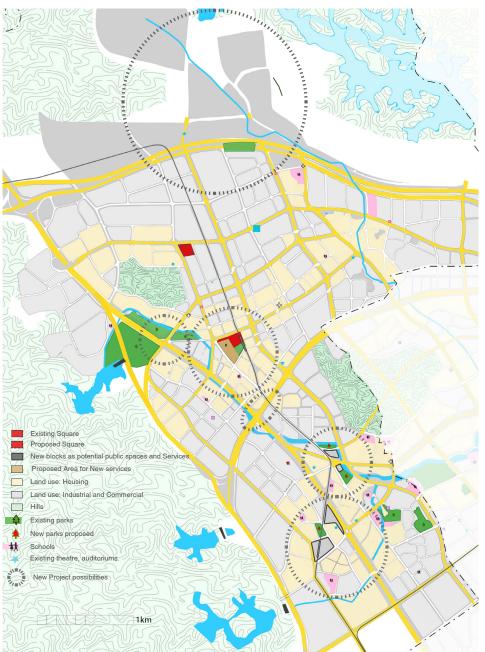


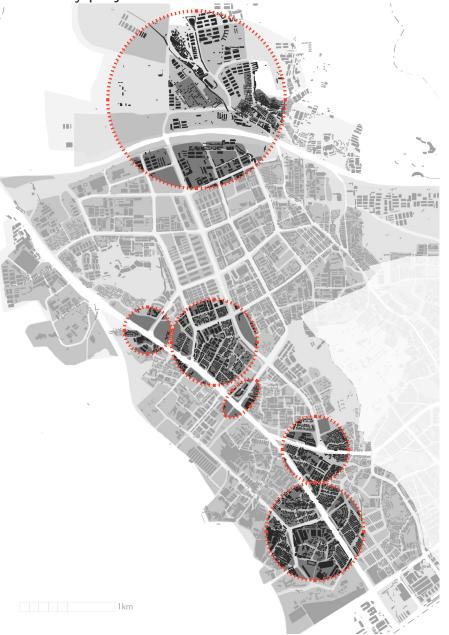
NEW CITY PLAN

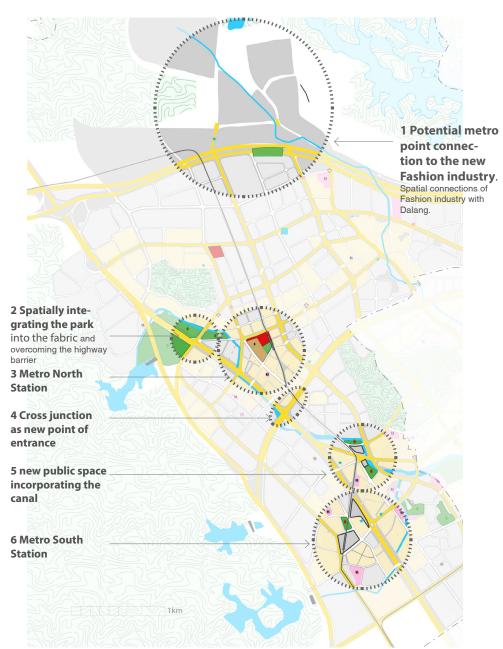




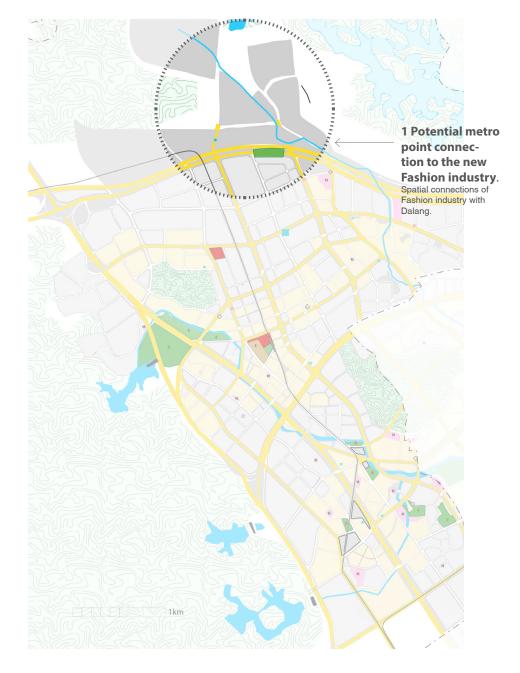
NEW CITY PLAN



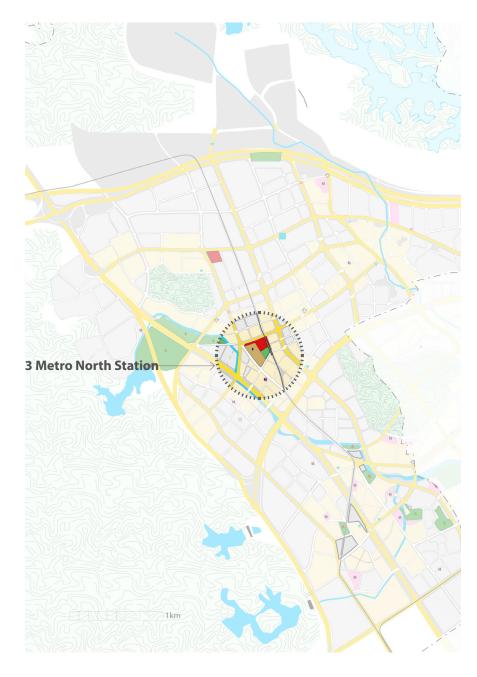


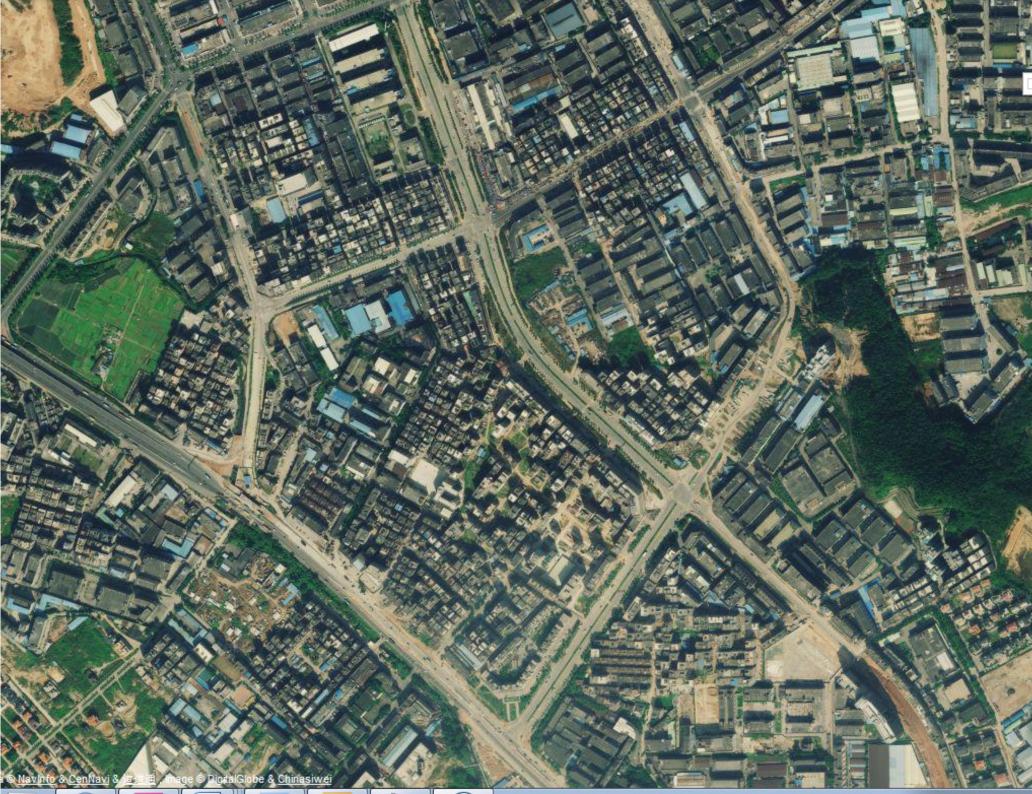


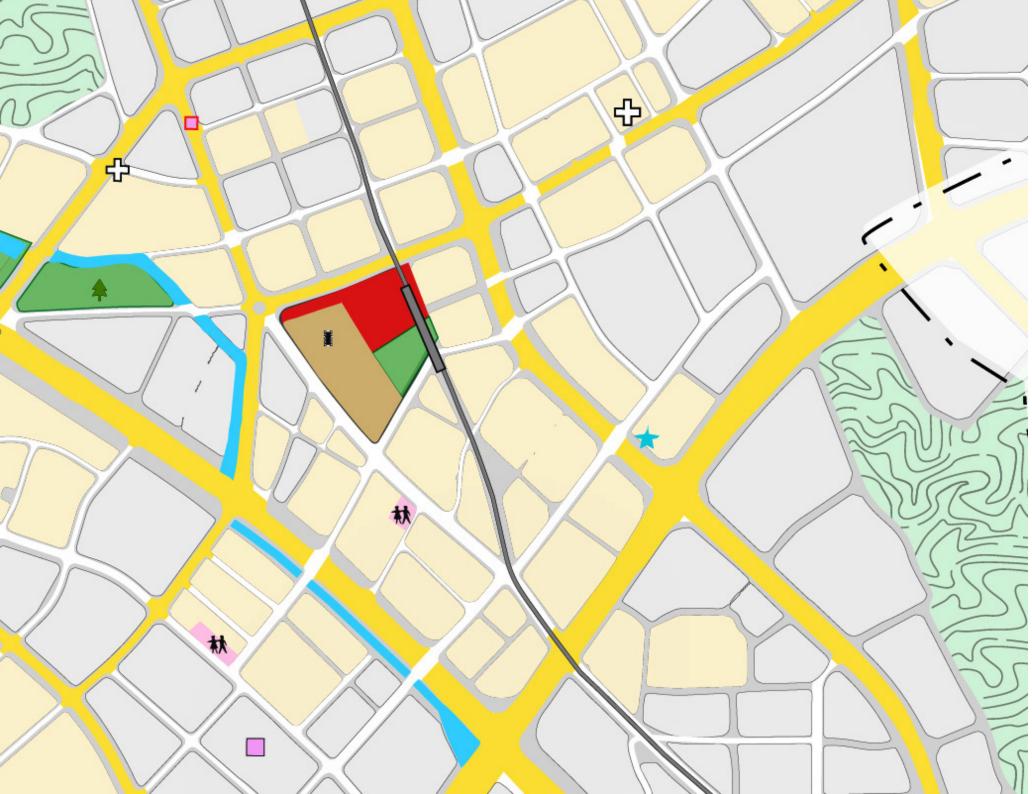






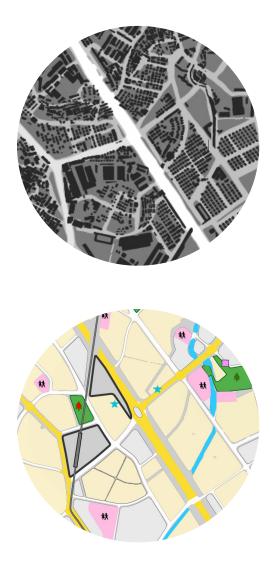






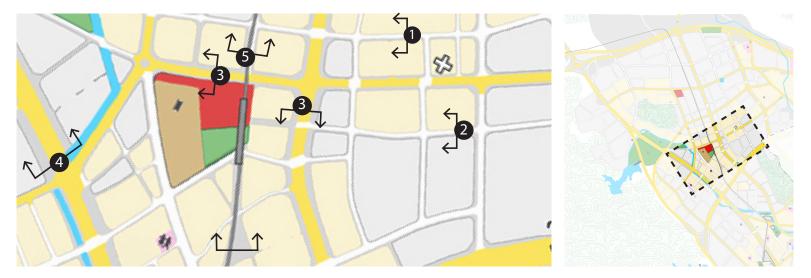




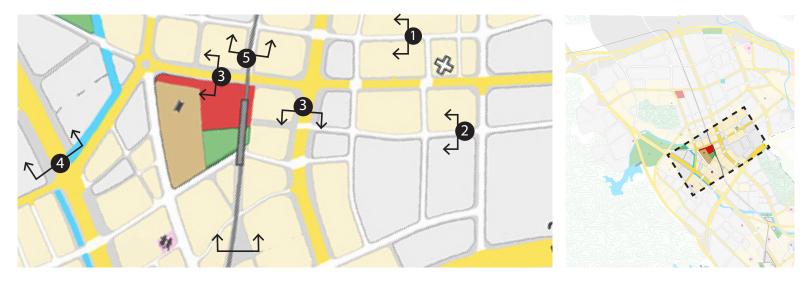




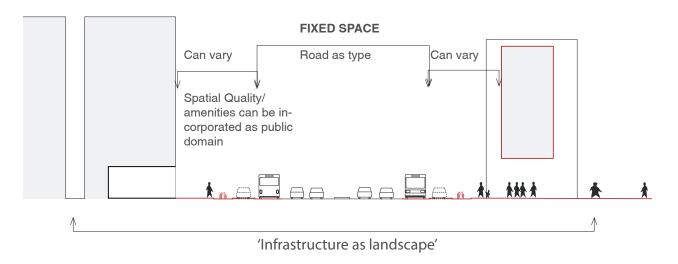
(NEW) CITY PLAN AS PLANNING FRAMEWORK Spatial typologies



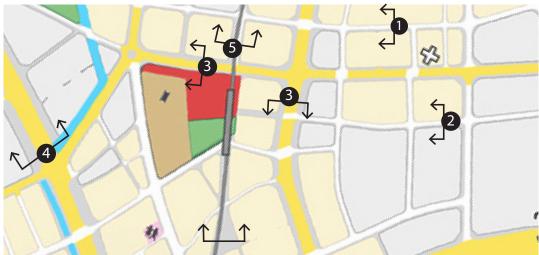
(NEW) CITY PLAN AS PLANNING FRAMEWORK Spatial typologies

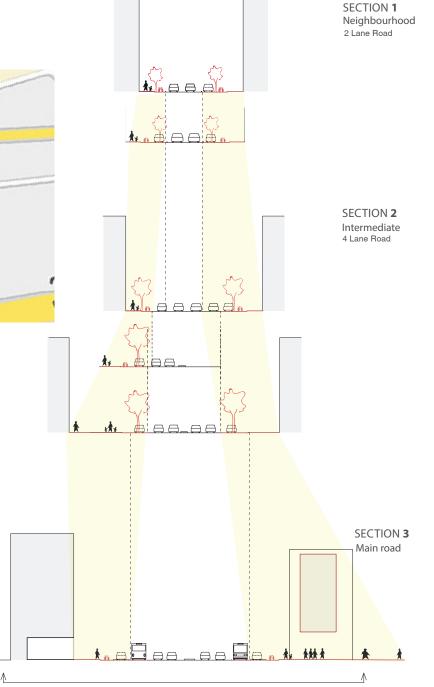


SECTION **3** Main road

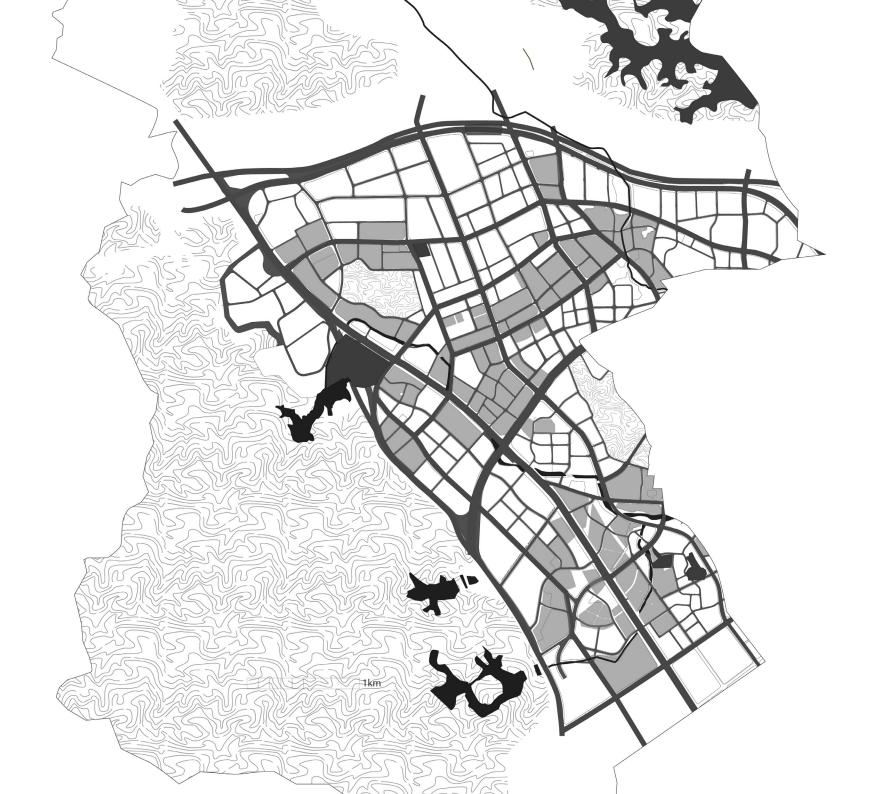


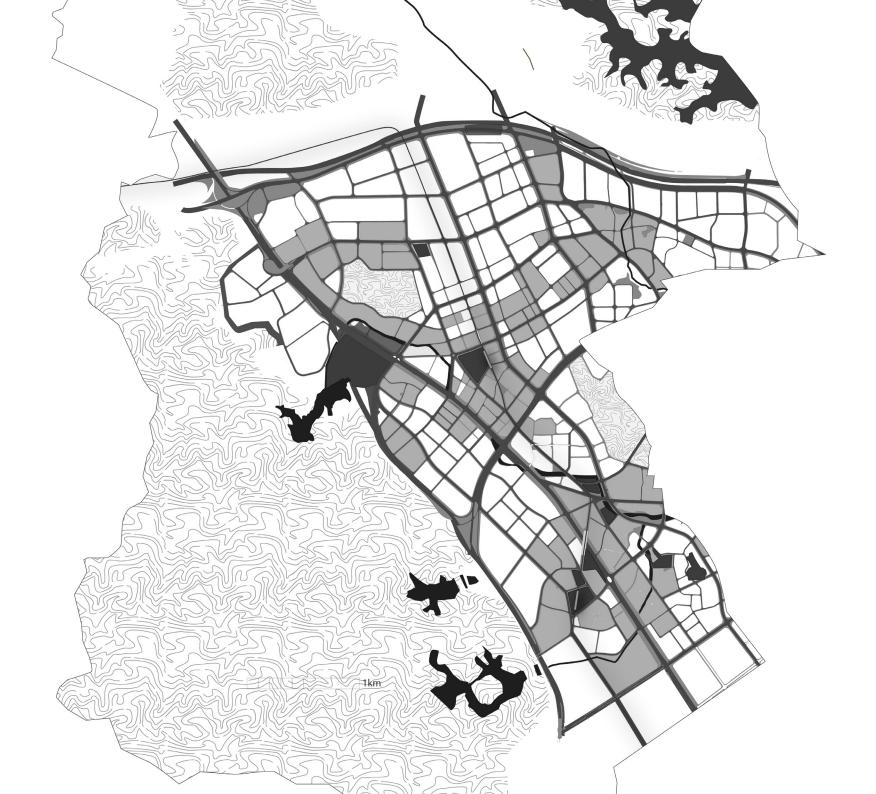
(NEW) CITY PLAN AS PLANNING FRAMEWORK Spatial typologies



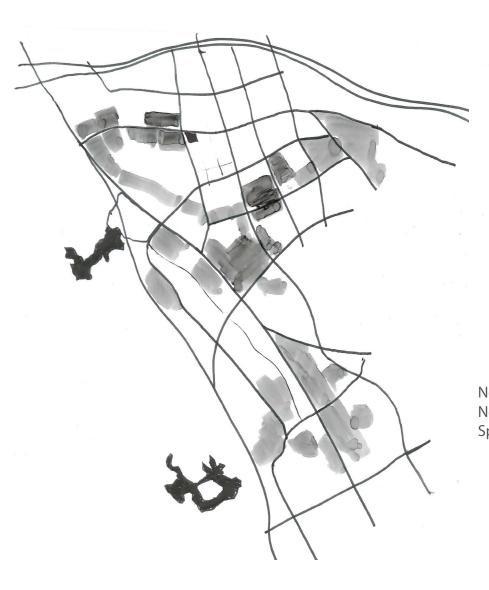


Infrastructure as landscape*





Reducing flexibility; Increasing Identity = Reducing Uncertainty Investing In fixed realm



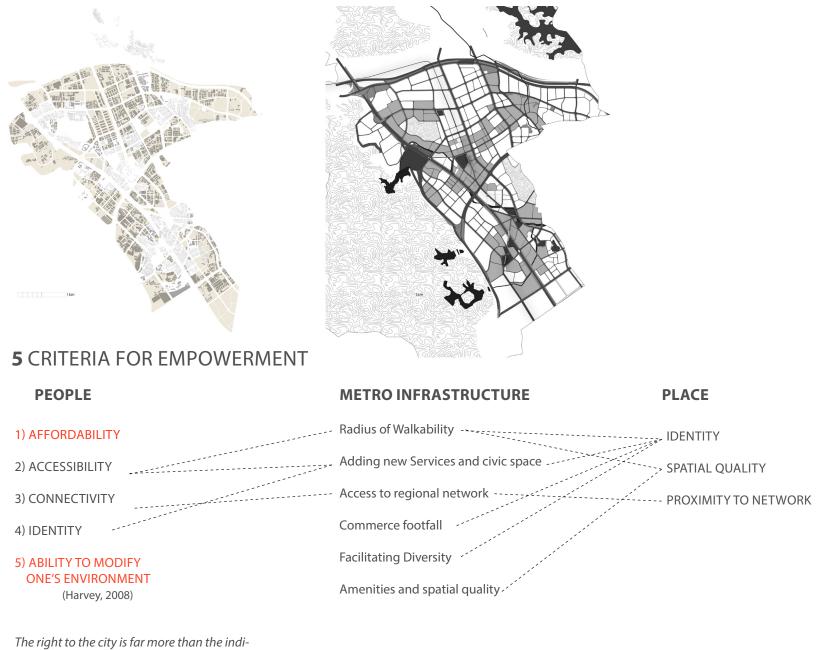
7 New connections = Finer grain New nodes = Places + services Spatial quality

INFUSING SOCIAL MEANING IN SPACE OF FLOWS

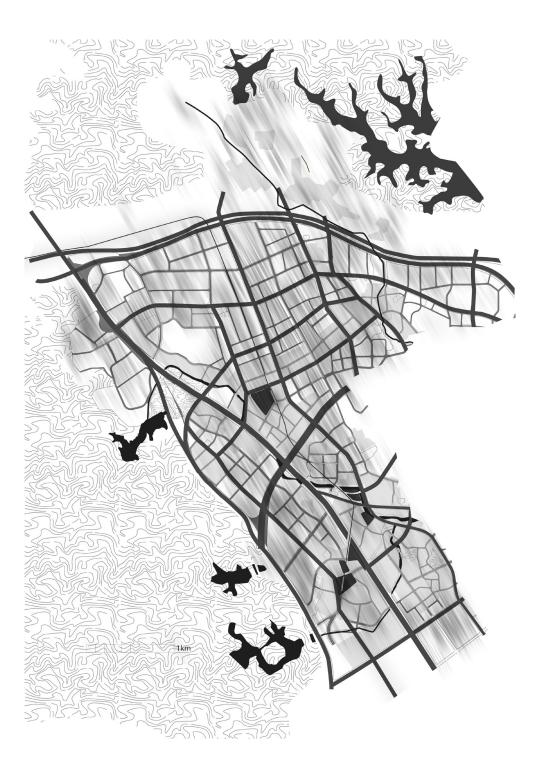


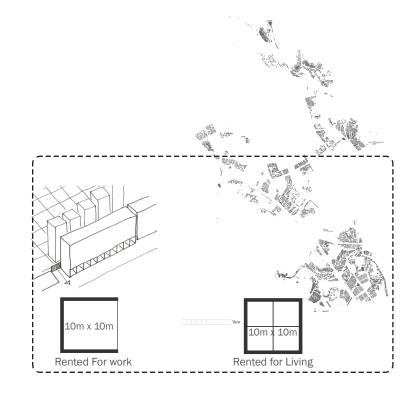
RESEARCH QUESTION

In the 'Restless Landscape' (Lin & Wei, 2002) where people, functions, social structure are in flux. What are the planning tools required to build an inclusive, yet flexible framework for future development of Dalang in context of uncertainty that allows for an evolutionary rather than revolutionary model to future planning?

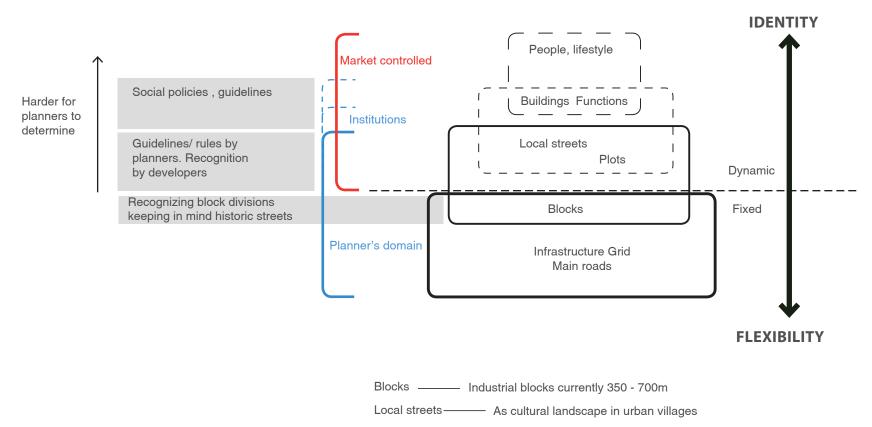


The right to the city is far more than the individual liberty to access urban resources: it is a right to change ourselves by changing the city." (Harvey, 2008)





CITY AS LANDSCAPE OF CONTAINERS



Plots _____ Unit of affordable space. The residential buildings in the urban village. 10x10m flat space divided as 4 rentable rooms



