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#### EJ BAKING STUDIO

#### Globalisation and Social Change





# Globalisation, Metropolisation and Capitalism

Changing socio-economic structures globally

Sources

Left: Eric Sanderson on humansandnature.org Right: Garcia, The Korea Times, 2010

#### EJ BAKAG STUDIO

#### Globalisation and Social Change





### Feminisation of the workforce

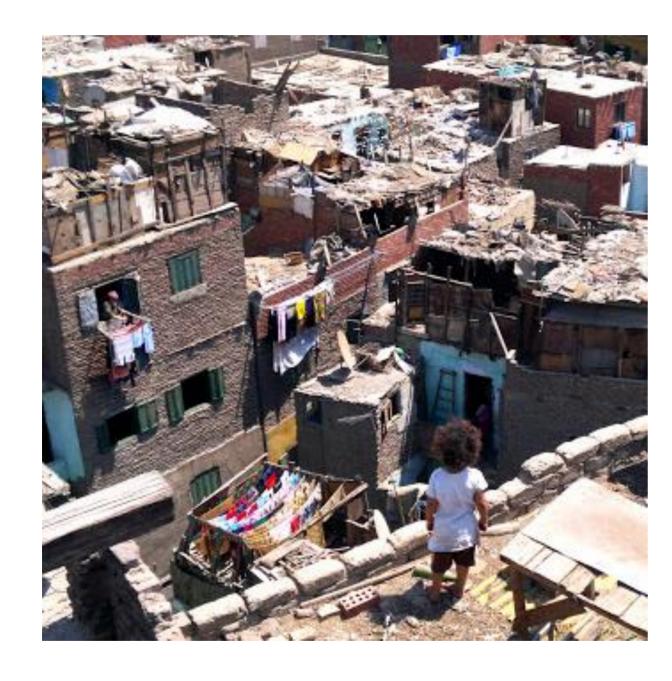
Propagated by progressing levels of globalisation and capitalism

Left: HRW

Sources Right: Filipino Times

#### EJ BAKING STUDIO

#### Gender Inequality





# Women's spaces (or lack thereof) in cities

Sources Left: Baraka Bits Right: The Guardian

#### EJ BAKNG STUDIO

### Gender Inequality





# Spatial marginalisation

Sources Left: DW Right: Korea Herald

12-07-16 | HOW TO BUILD THE PERFECT CITY

### **Women And Men Use Cities Very** Differently

Ask women and men how they, say, use transportation and you'll get very divergent answers. The women, unsurprisingly, have a much more complex relationship.

Why aren't we designing cities that work for women, not just men? Andrew Fleming and Anja Tranovich

Bad town planning can impact women's safety, movement and

even income. Research led by the people most affected should Gender perspectives often ignored inform a new approach

Submitted by Sara Eliasson on 09/01/2017 - 10:58.

in urban planning Cities Were Built for Men. Here's How To Fix That

> 'Feminist City: A Field Guide' examines how urban design has turned more than half the population into second-class citizens.



Christopher Cheung, 1 Nov 2019 | TheTyee.ca

# Your City Has a Gender and It's Male

Why city designers are increasingly thinking about the female perspective.

BY FOUAD KHAN JANUARY 11, 2018

### Cities Are Even Worse For Women Than You Might **Imagine**

The overlapping care crises of COVID-19 make the case for feminist cities clear — and more urgent.

By Diana Budds | Jul 7, 2020, 11:41am EDT

### Spatial consequences

Inefficient spatial forms and networks that do not serve majority users

Sources [L-R, T-B]

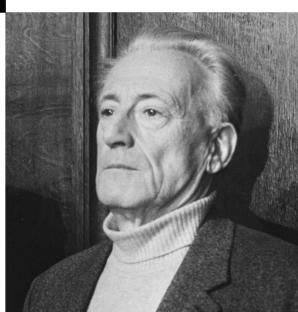
Fast Company; The Guardian; Mistra Urban Futures; The Tyee; Nautilus; Curbed 8



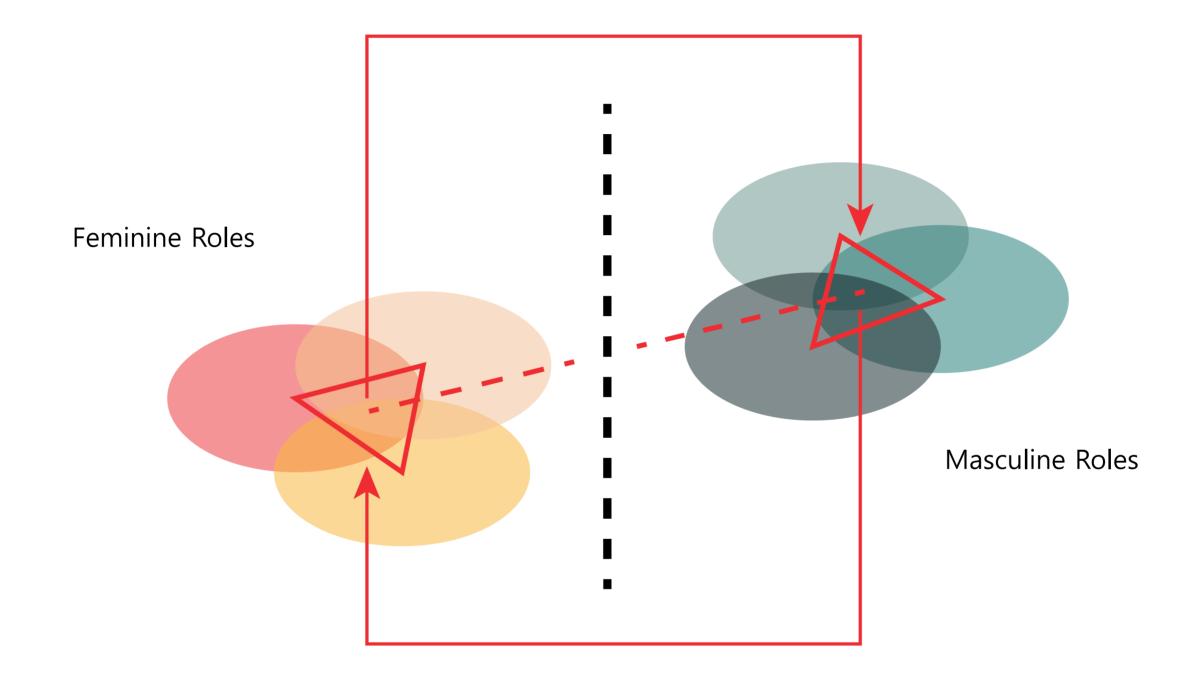


Butler Gender Performativity

Lefebvre Production of Space



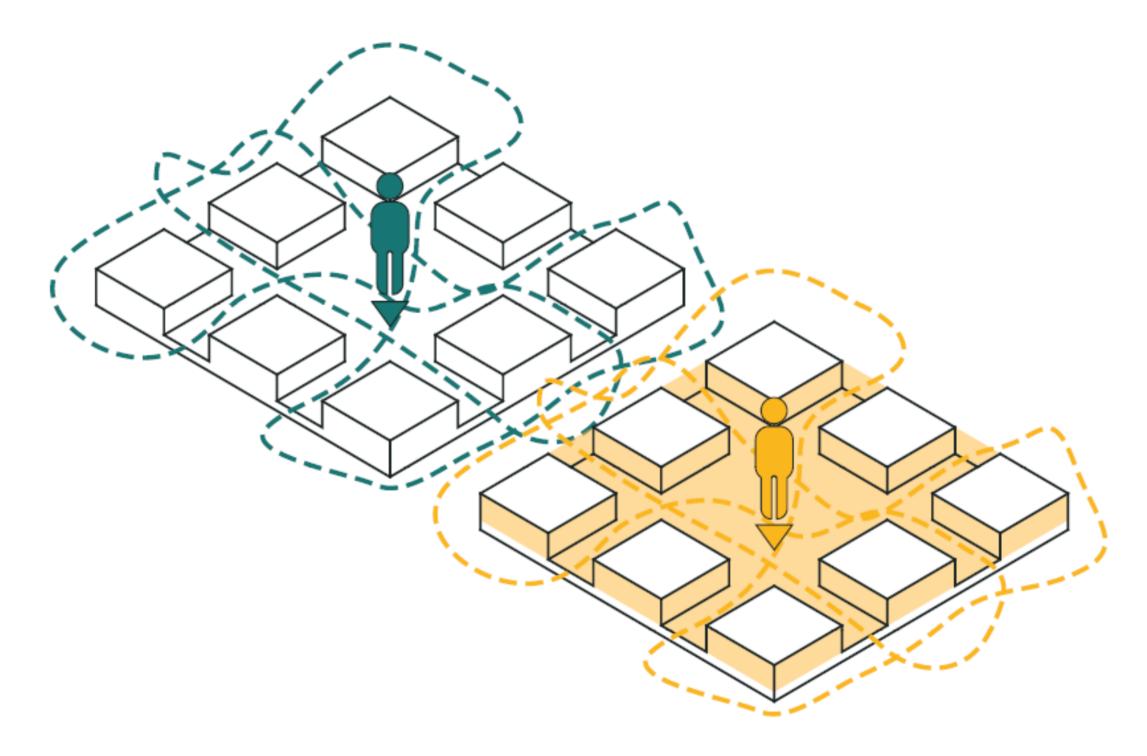
Mobility, access, and spatial experience



## Functional Associations and Spatial Separation

Difficulty in access between divided spaces associated with gendered roles

10



# Complex spatial patterns

Caused by different relationships to space

Sources

By author, from Nguyen, van Nes (2013)

EJ BAKING STUDIO

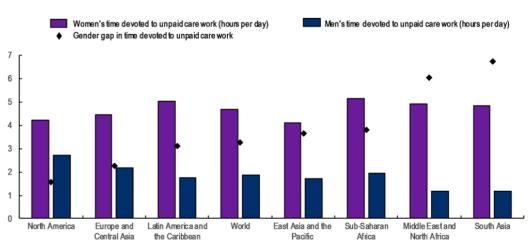
Performativity

Left: Egypt Independent

Sources Right: World Bank Data: OECD

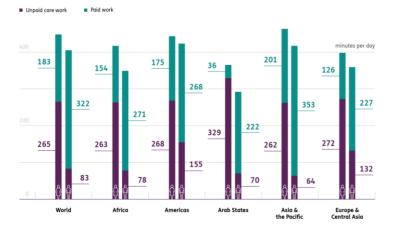
# Unpaid work





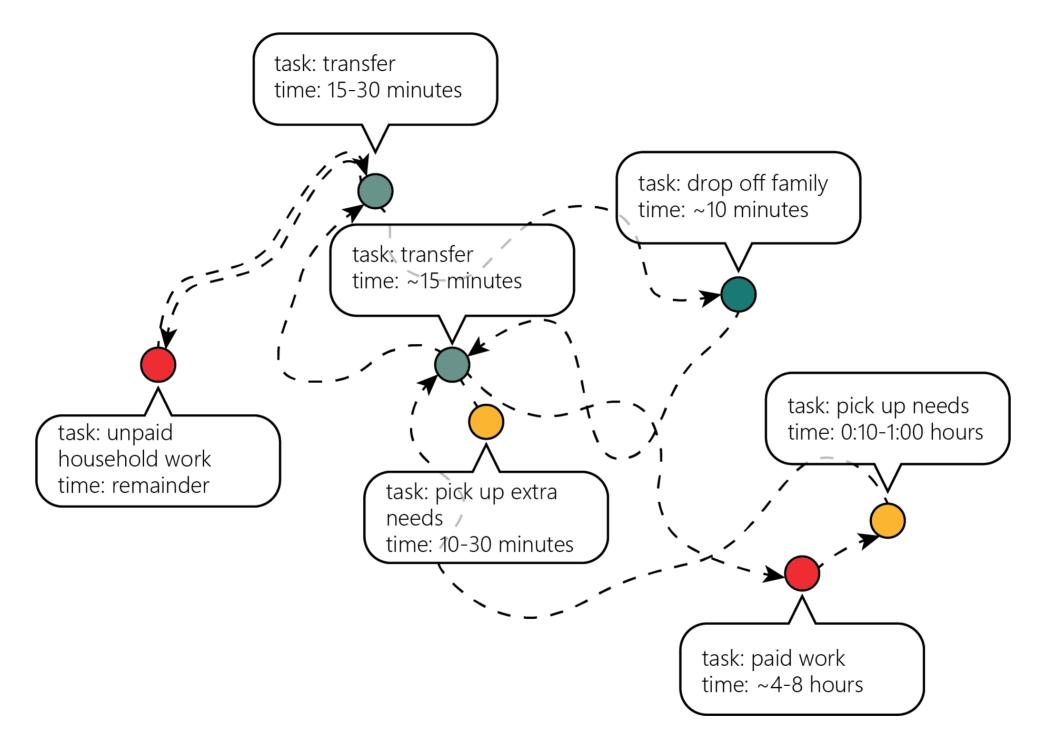
### Paid work





Problem Field

12



Time-use and spatial patterns



#### EJ BAKING STUDIO

### Performativity



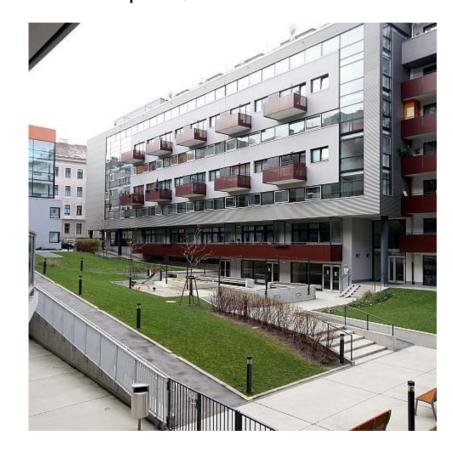


## Women's roles

Sources Left: Oxfam Right: Business Wire

#### **Example Cases**

#### Aspern, Vienna



Municipality of Vienna

Eva Kail

#### Barcelona



Collectiu Punt 6

Sara Ortiz Escalante

#### **Buenos Aires**



Buenos Aires Secretariat of Transport

Ana Falu

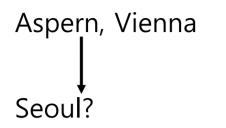
## Gender Mainstreaming

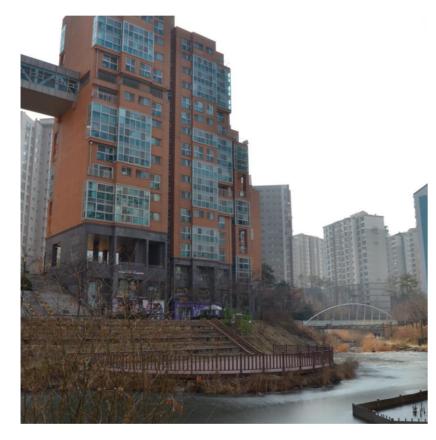
Applied across multiple scales by experts worldwide

erts worldwide Sources

Left: Urbanize Hub; Centre: Punt6; Right: Metropolis

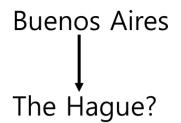
### Objective













# Cross-Cultural Application

The role of culture in planning for women's needs

Sources

Left: Urbanize Hub; Centre: Punt6; Right: Metropolis
17

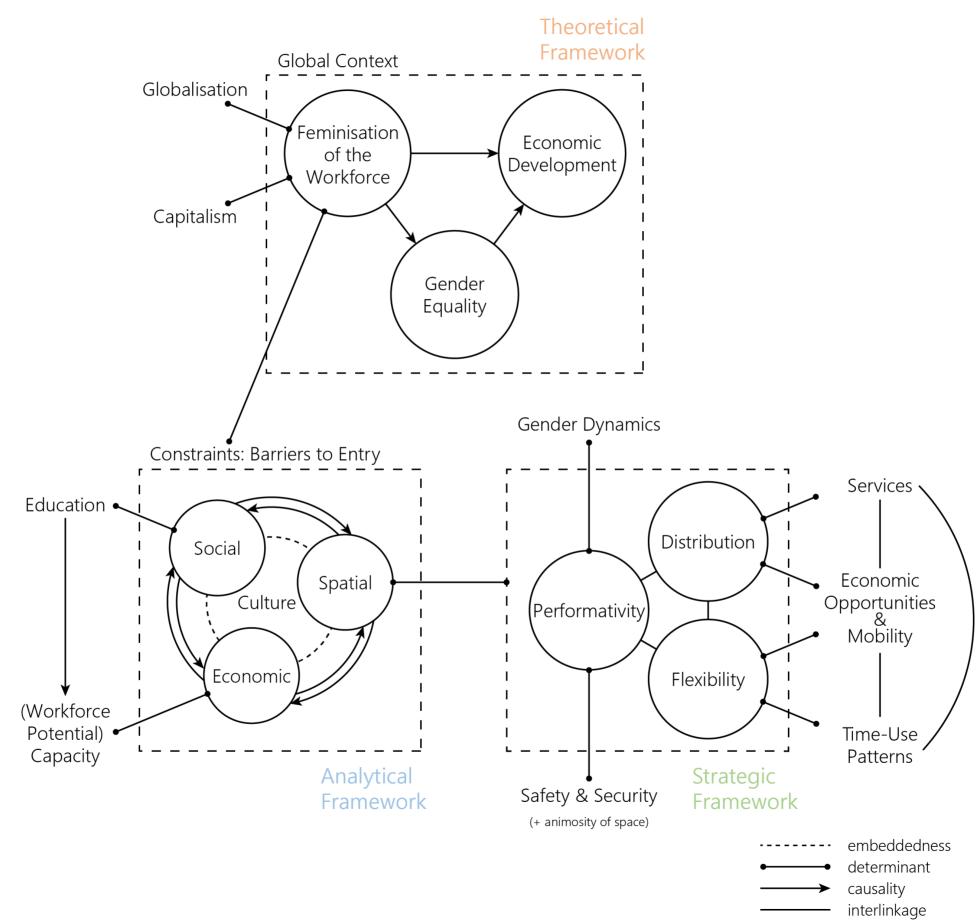
Scope

# Framework for facilitating gender-equal development

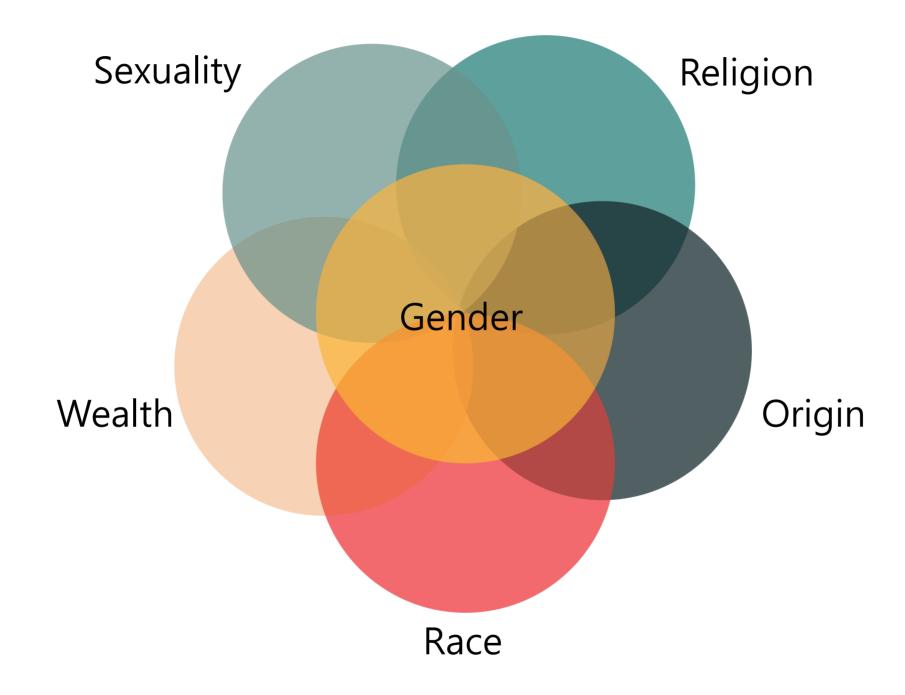
To achieve social resilience



#### Conceptual Framework



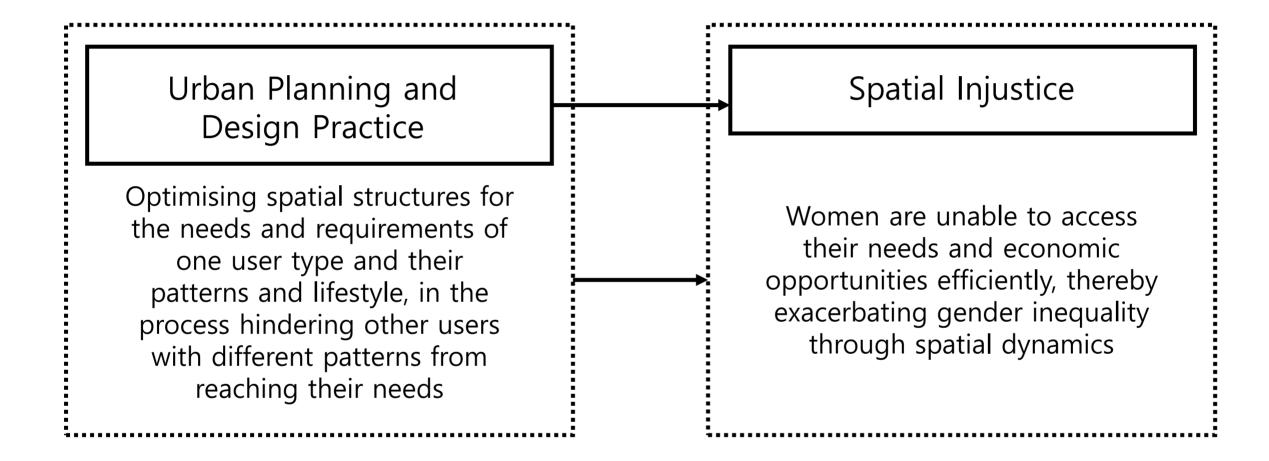
#### **Problem Statement**



# Multiplicities of Identity and Lifestyles

Inform the planned daily systems, especially with respect to mobility

#### **Problem Statement**



Strengthen the integral socio-economic system

Need to

Identify the constraints

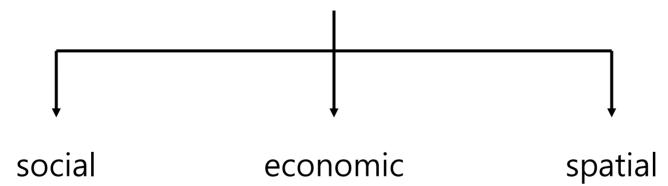
The factors limiting participation

Strengthen the integral socio-economic system

Need to

Identify the constraints

The factors limiting participation

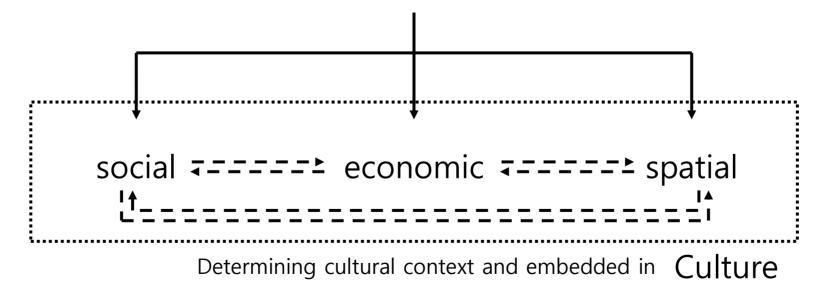


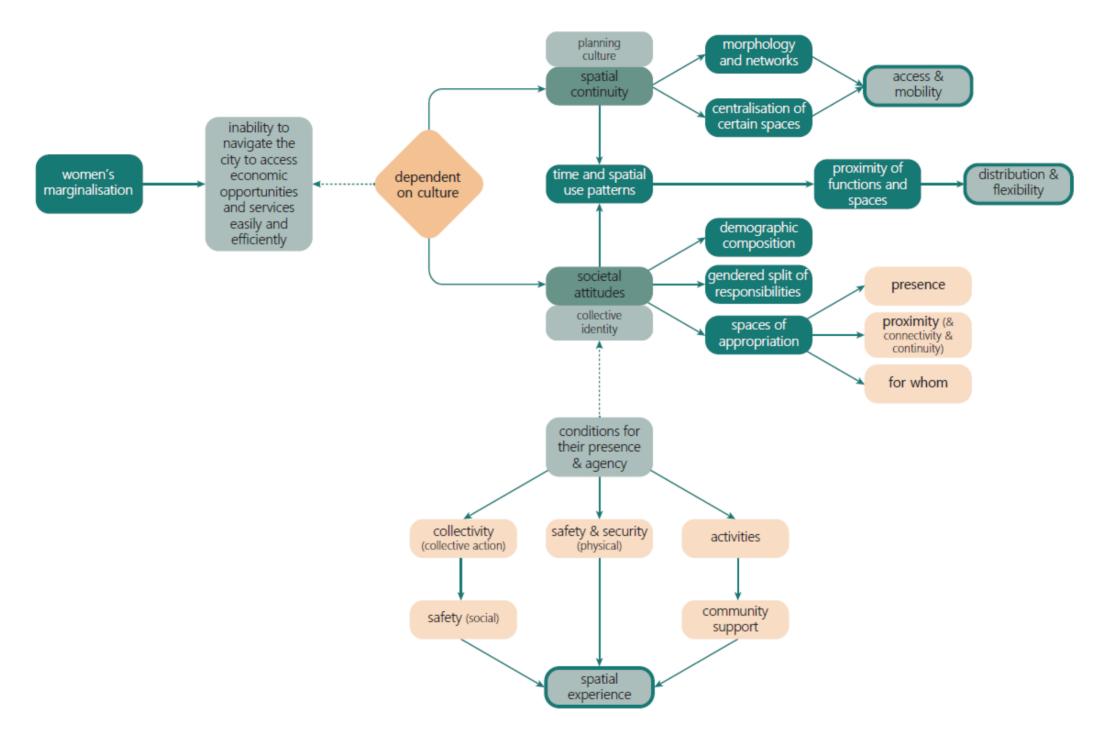
Strengthen the integral socio-economic system

Need to

Identify the constraints

The factors limiting participation



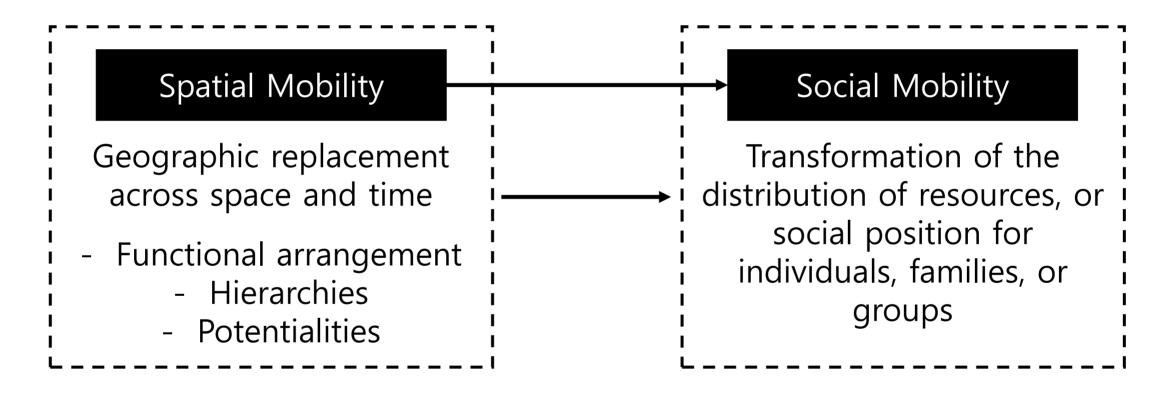


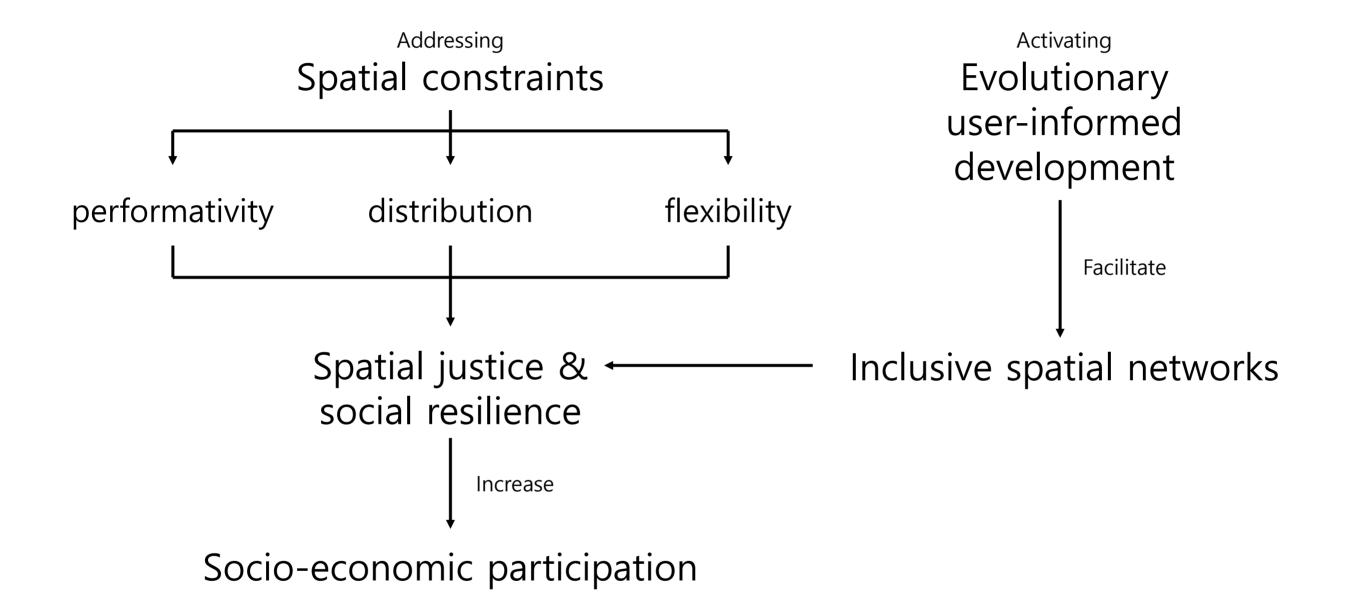
### Local cultural embeddedness

Cultural differences require implementational differences

Sources Author

#### **Mobility**





& gender equality

#### Research Questions

How can strategic planning principles be used to integrate women's time-use patterns into the spatial network of cities, to activate an evolutionary process of gender-equal access to economic opportunities?

#### Research Questions

How can strategic planning principles be used to integrate women's time-use patterns into the spatial network of cities, to activate an evolutionary process of gender-equal access to economic opportunities?

#### **Theoretical Framework**

SRQ1 What are women's roles in cities and how did urban spatial and economic changes impact them?

SRQ2 How do women's time-use patterns differ to that of men across cultures?

#### **Analytical Framework**

SRQ3 How do the urban socio-cultural conditions in the three sites constrain women's access to economic opportunities?

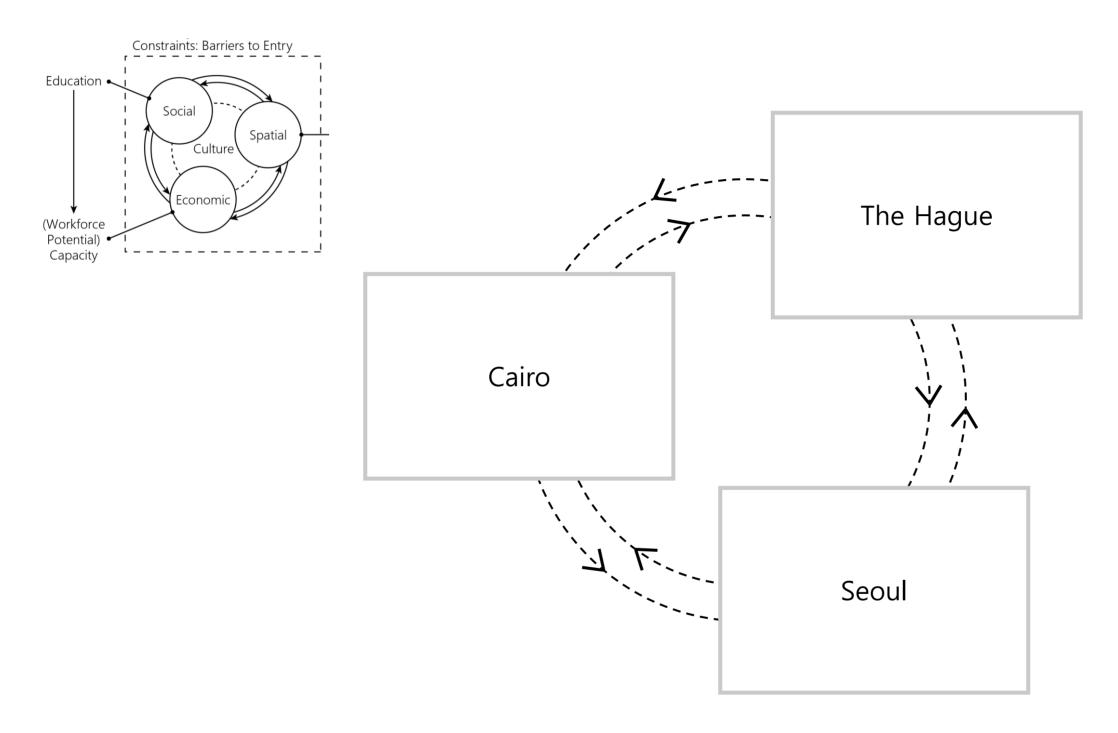
SRQ4 What spatial demands should be considered in the organisation and design of neighbourhoods and at modal transfer points?

#### **Strategic Framework**

SRQ5 What spatial principles can be applied SRQ6 Which of the principles can be used to respond to women's demands, allowing more efficient access to opportunities?

across contexts and which need cultural adaptation to be transferred?

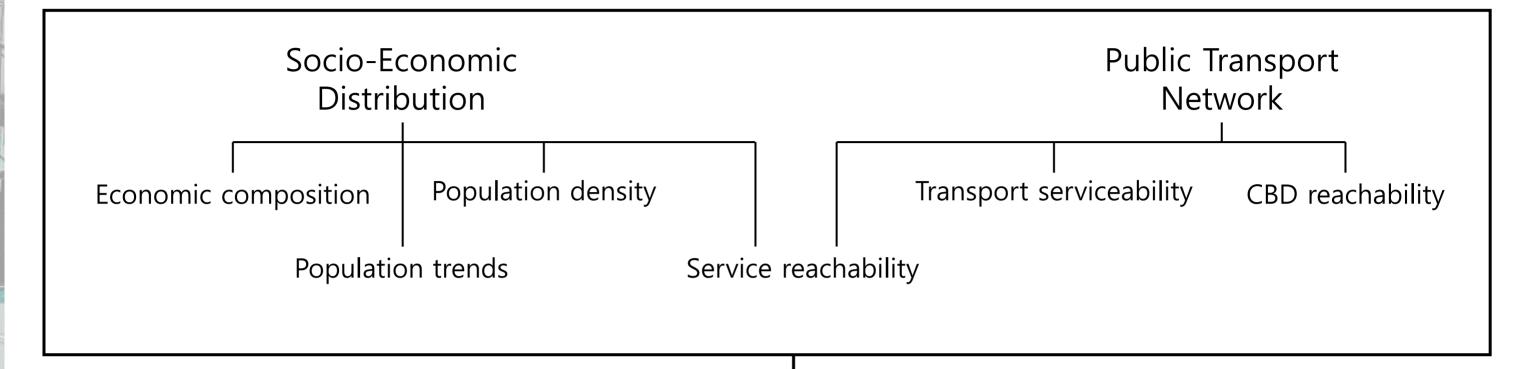
### Analytical Framework



Cross-cultural principle assessment and development

Proposed Framework

#### Analytical Framework – City Scale

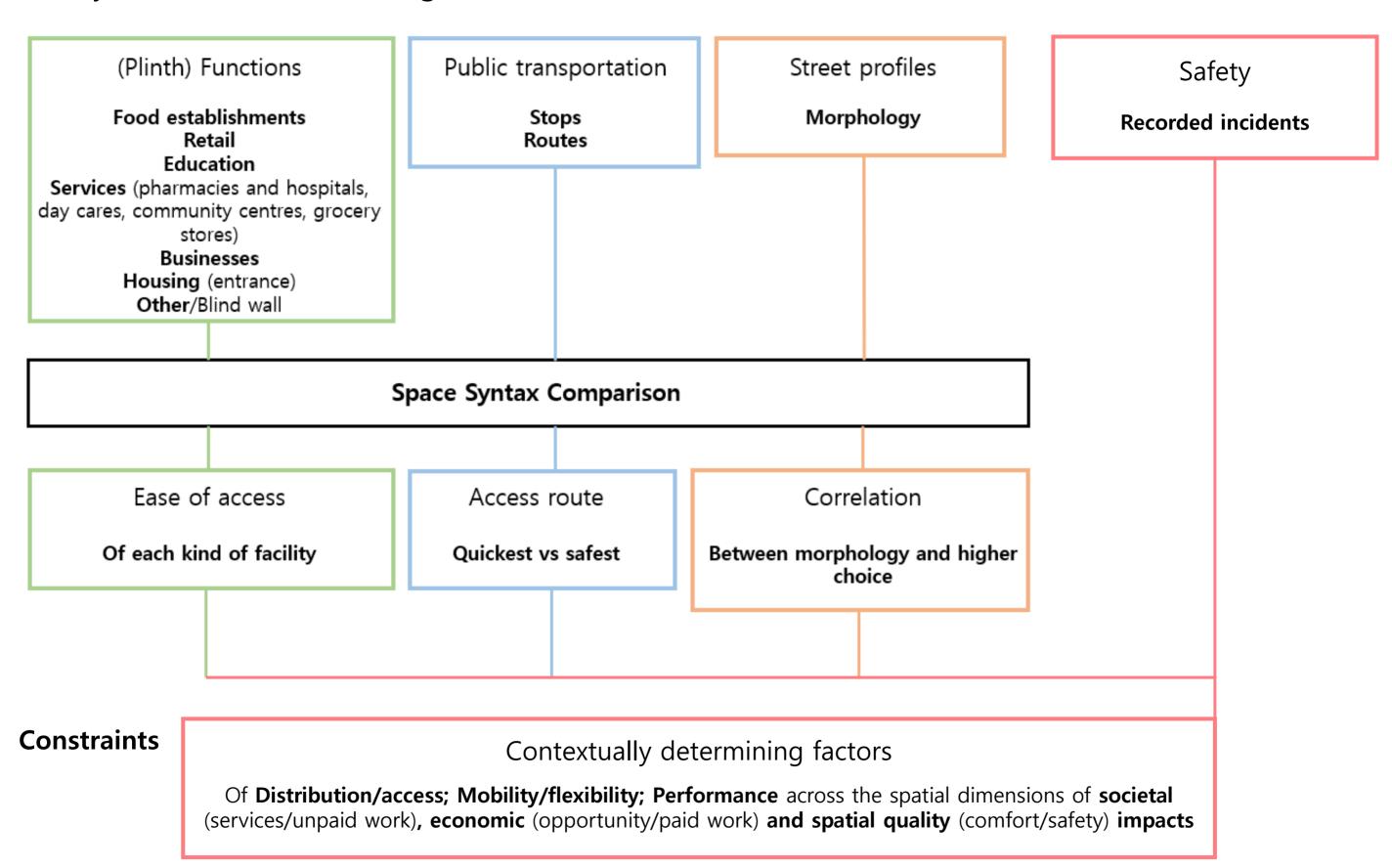


#### Neighbourhood Selection

Socio-Spatial Criteria — Wealth differences

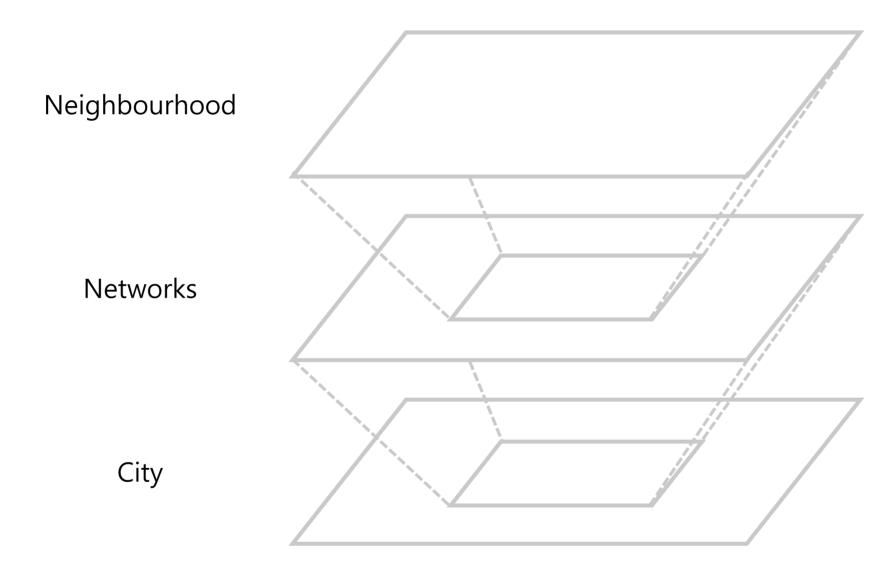
**Morphological Criteria** — Distance from CBD — Range of access to — Neighbourhood age (centrality) public transportation

#### Analytical Framework – Neighbourhood Scale



Proposed Framework

### Analytical Framework



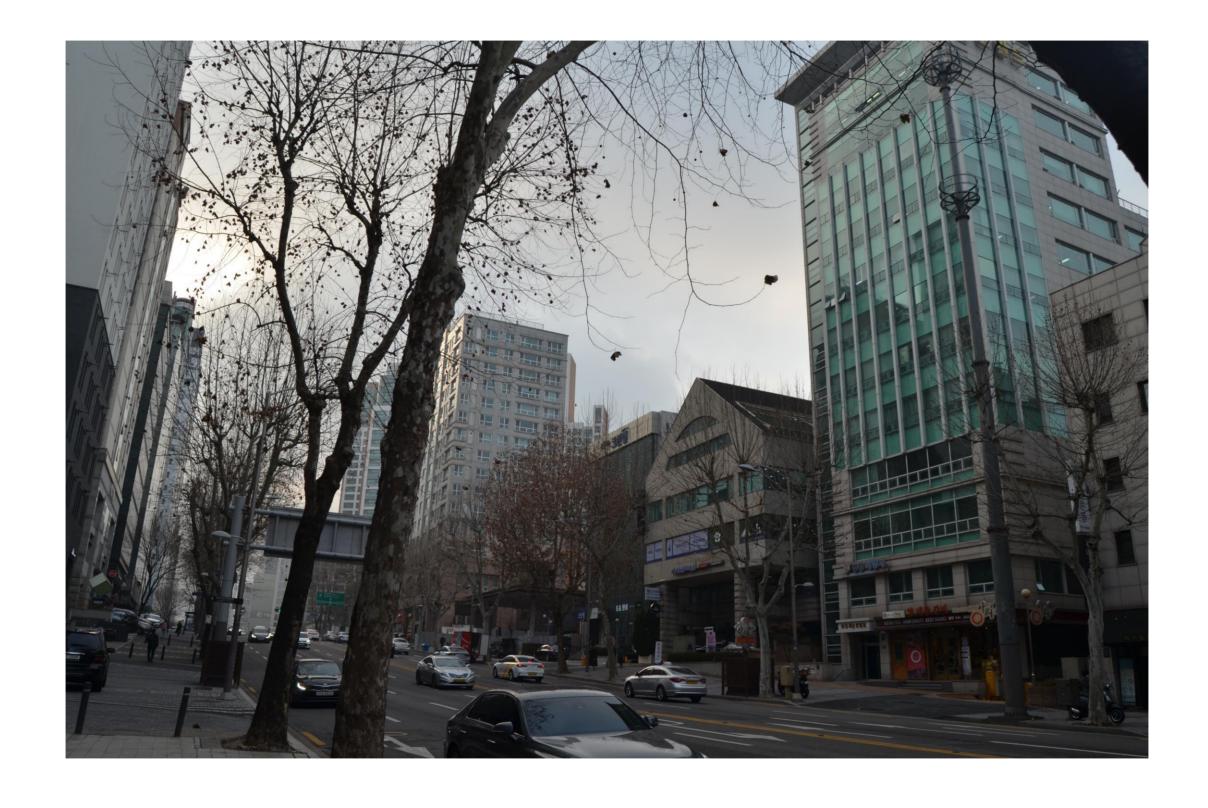
Cross-scalar analysis and relationship dynamics

## Analytical Framework

Cultural Determinants	Spatial Constraints and Needs		
	Distribution	Access	Performance
Society			
Economy			
Spatial Experience			

Proposed Framework

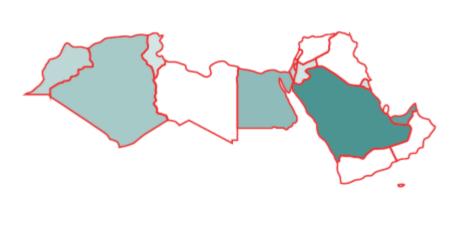
## Example: Seoul



Example: Seoul

Three Cases: WEF Global Gender Gap Index







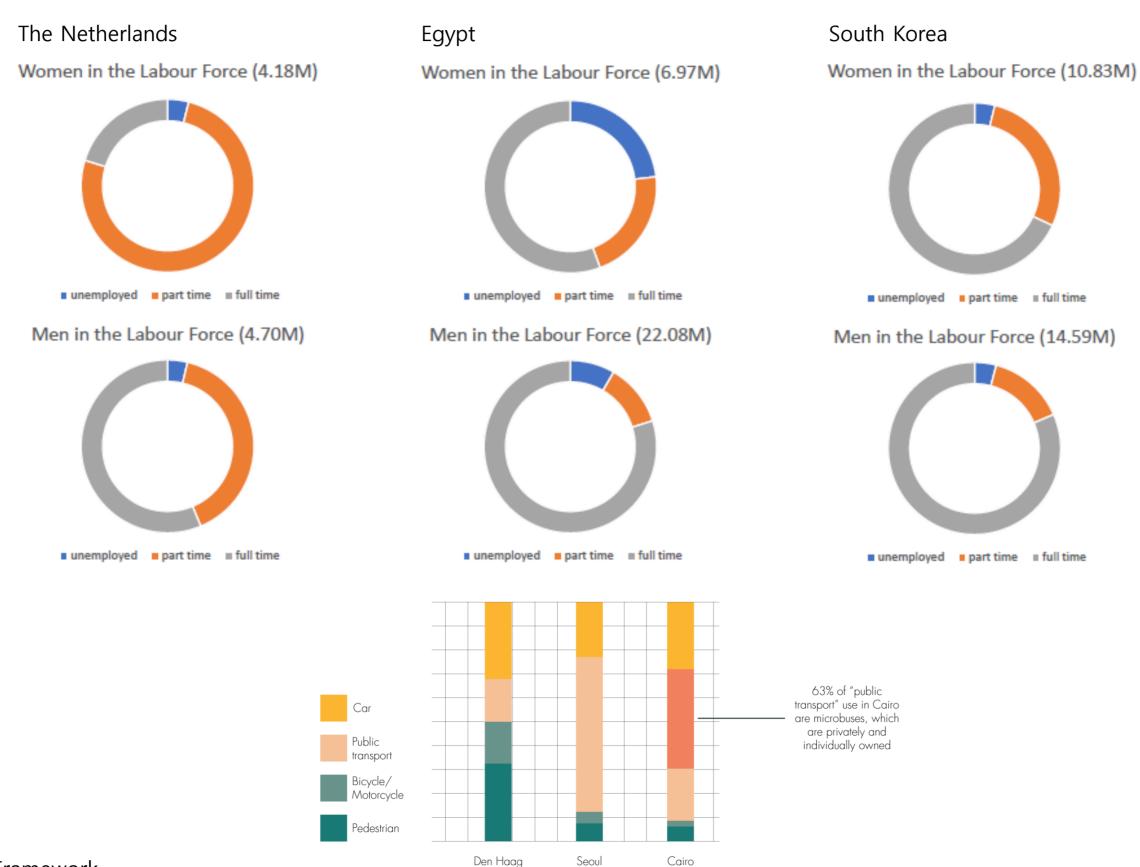




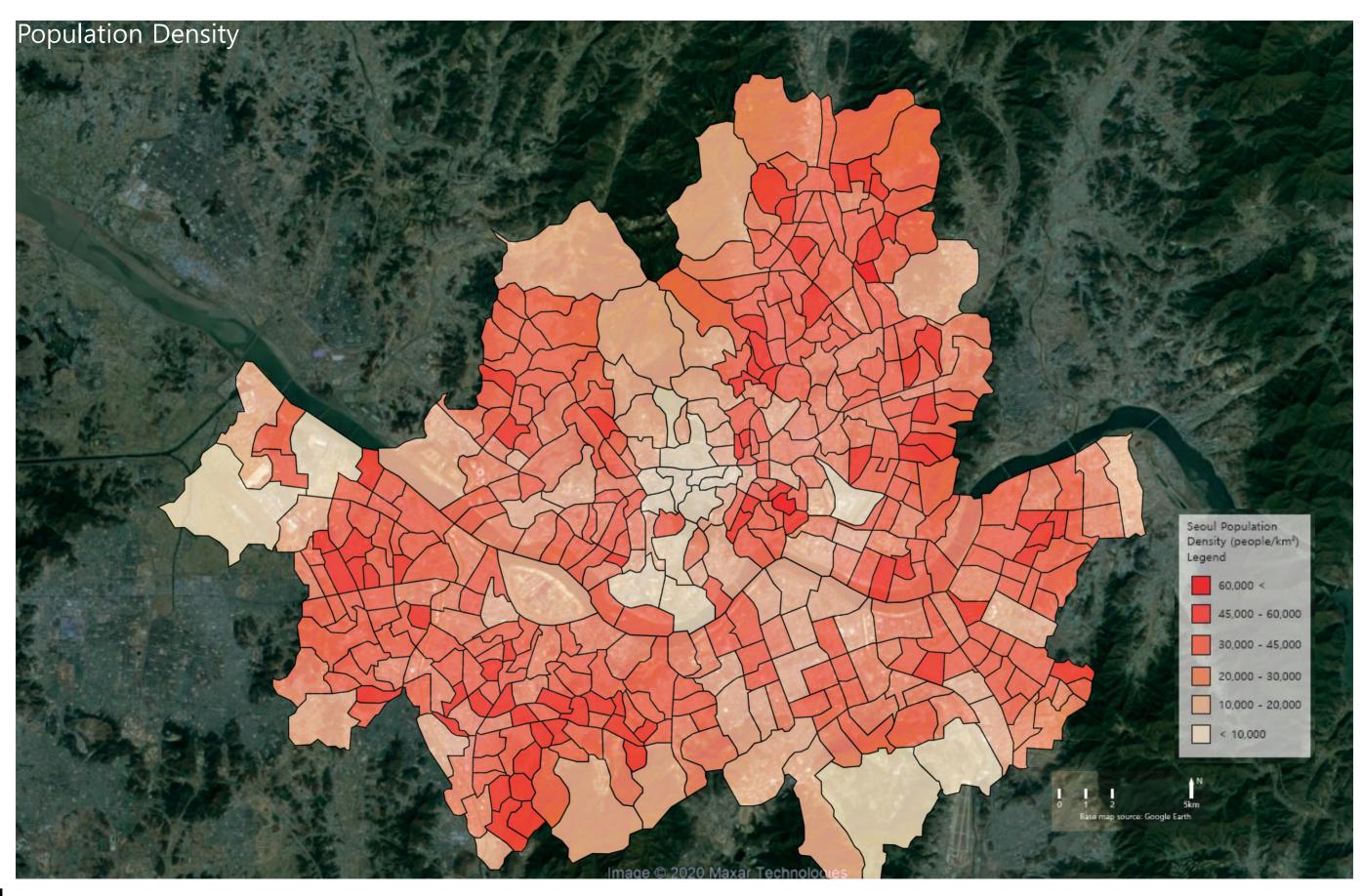
+ 0-10 + 11-20 + 21-30 + 31-40 + 41-50 + 51-60 + 61-70 + 71-80 + 81-90 + 91+ No data points

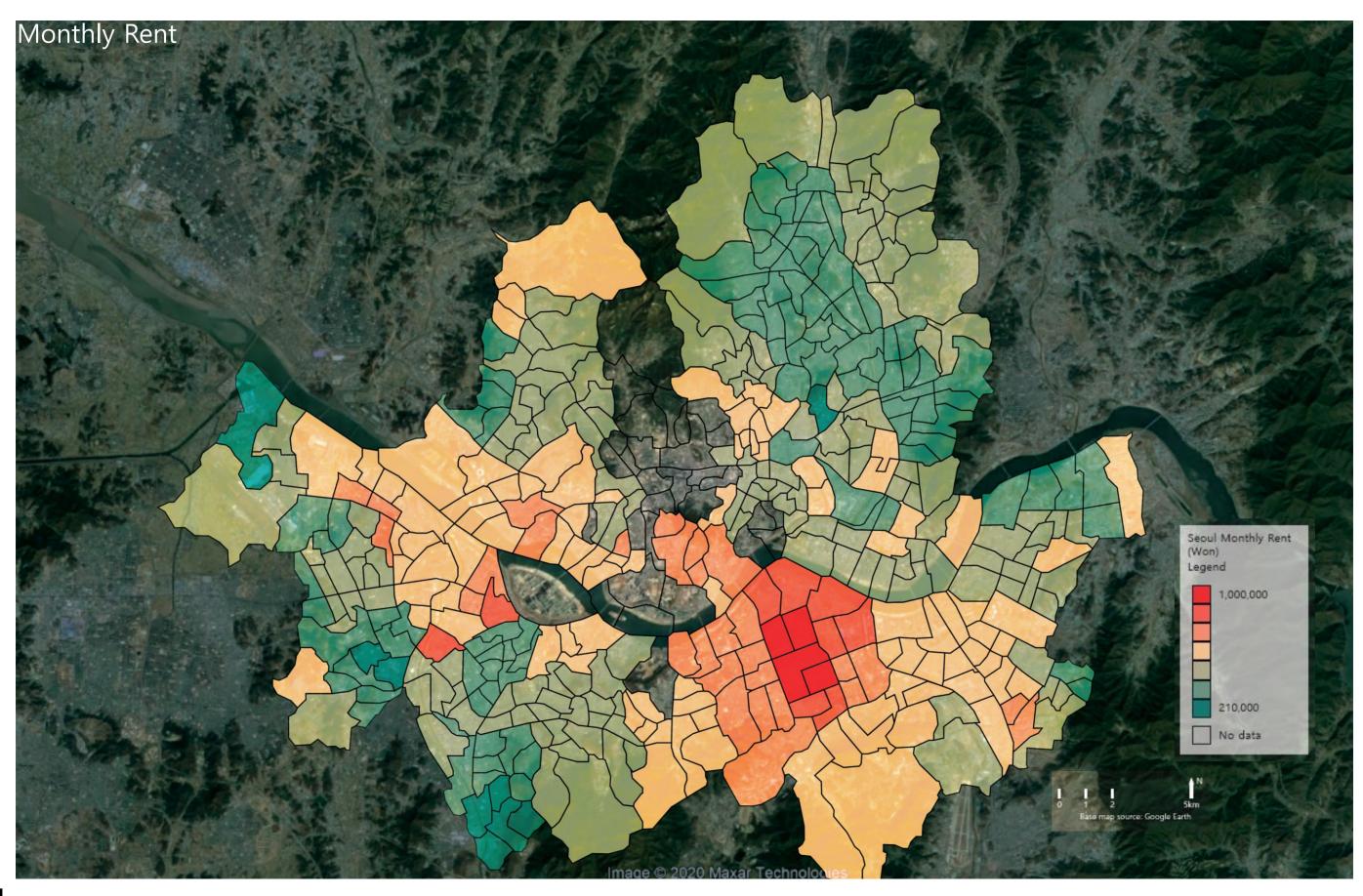
Sources World Economic Fund

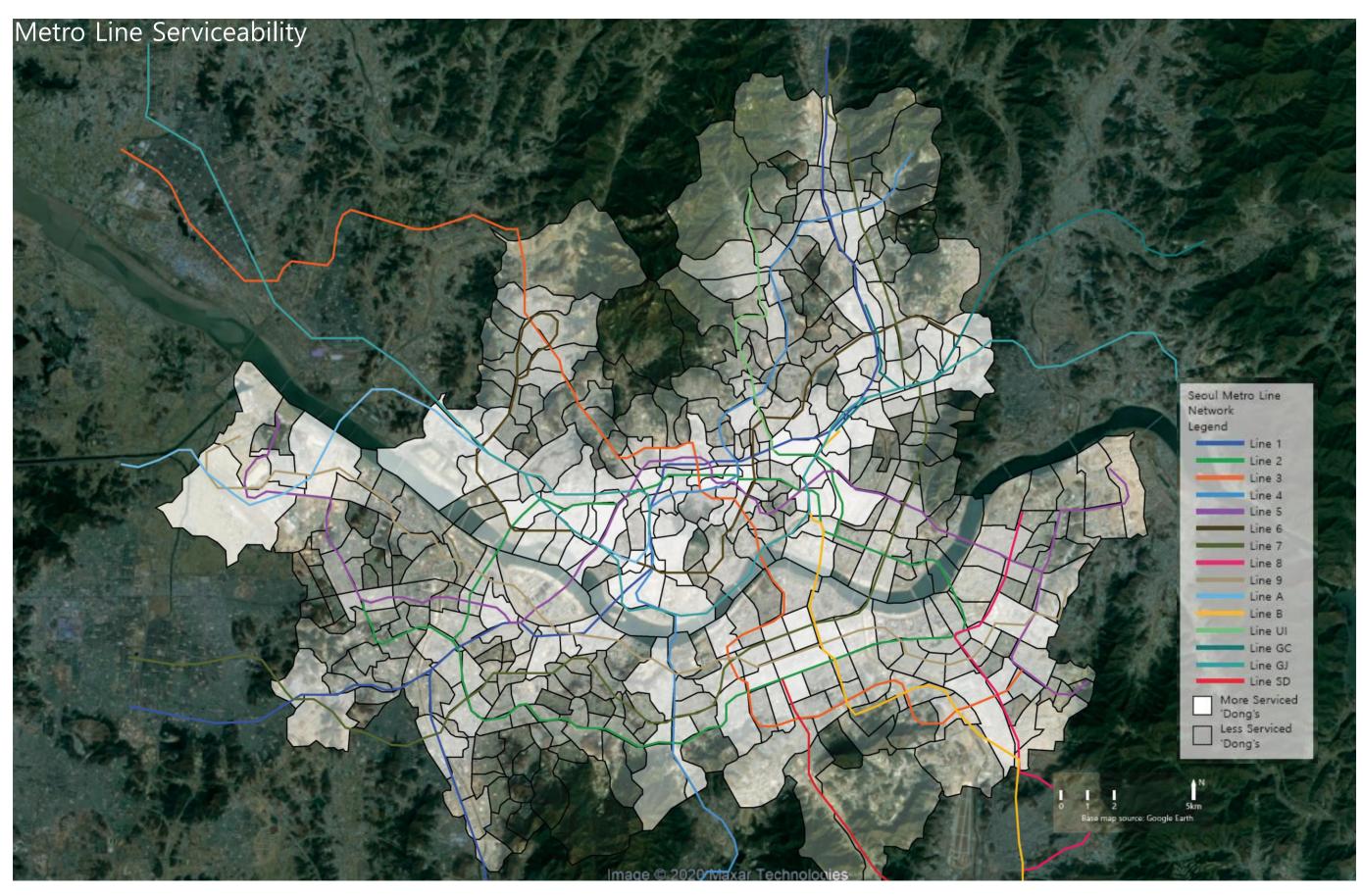
Three Cases: Workforce

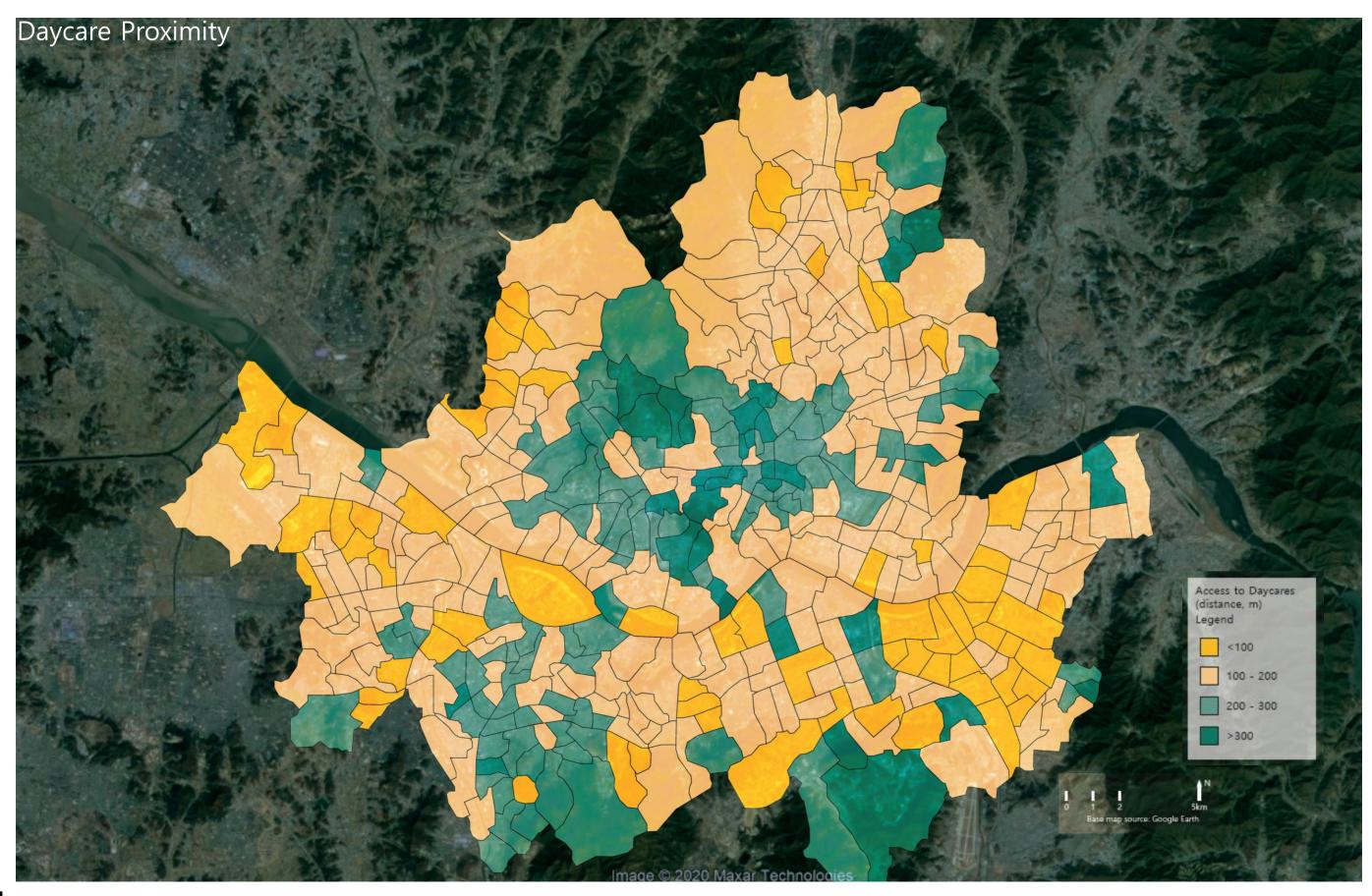




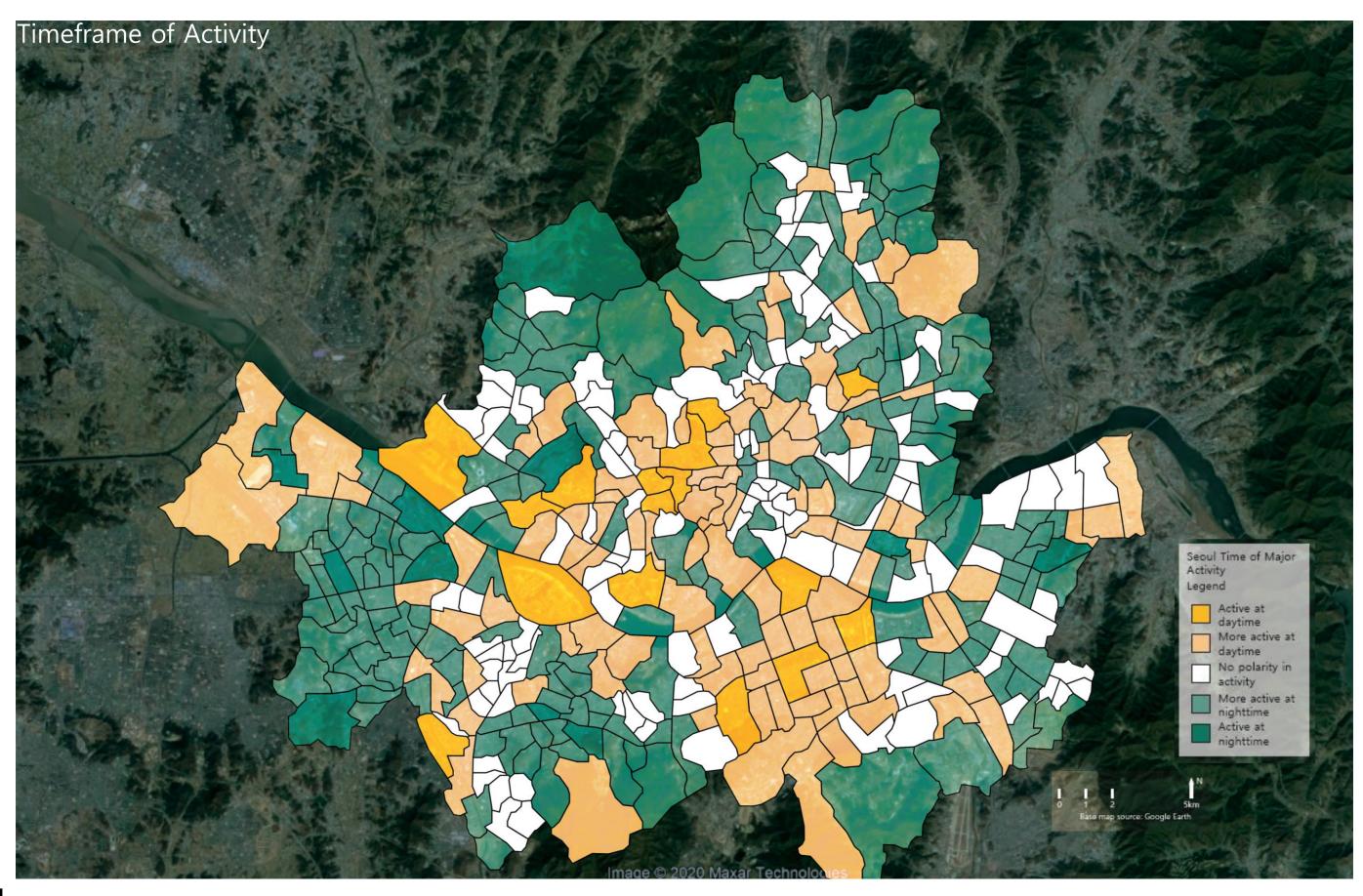


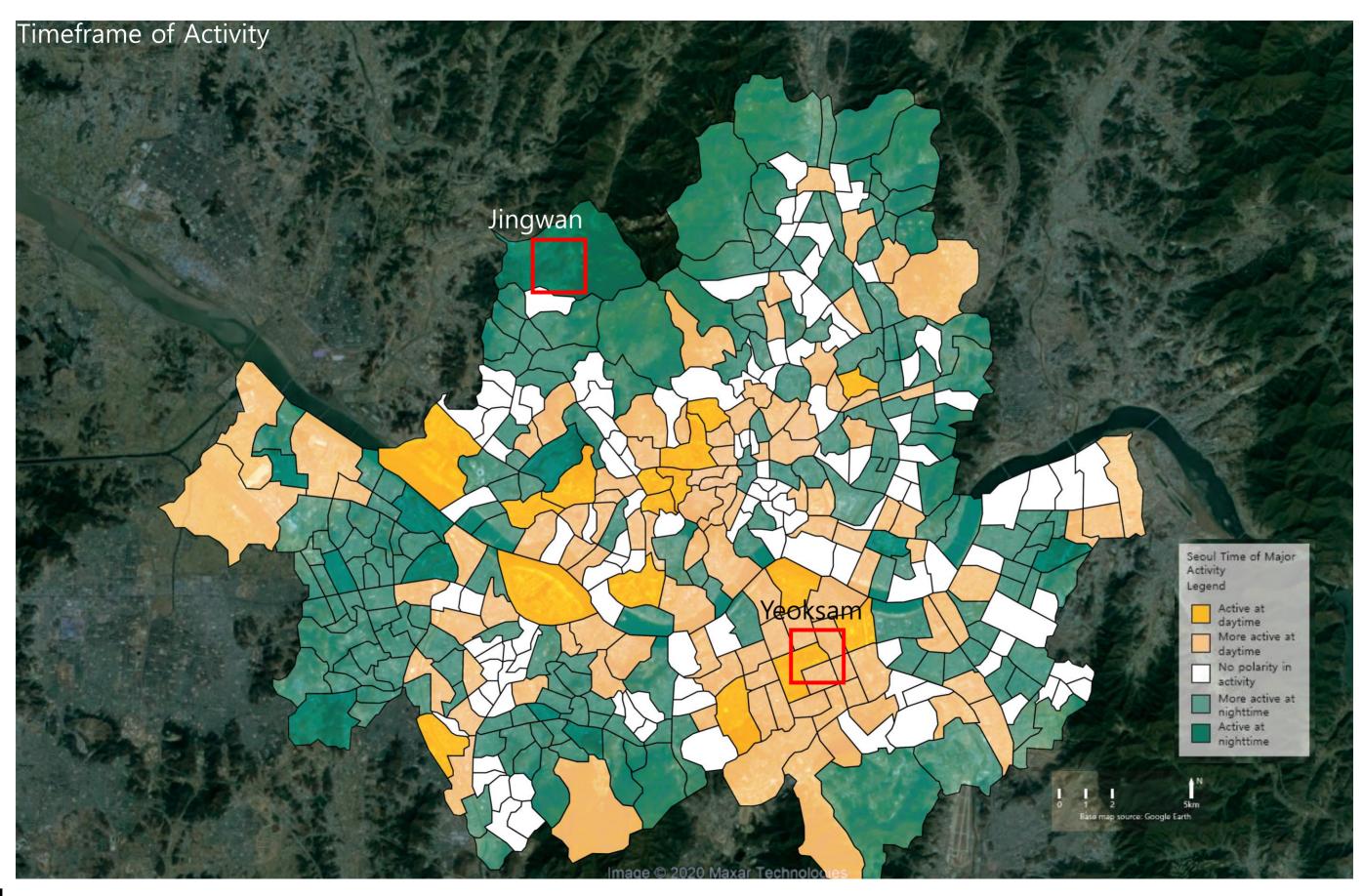


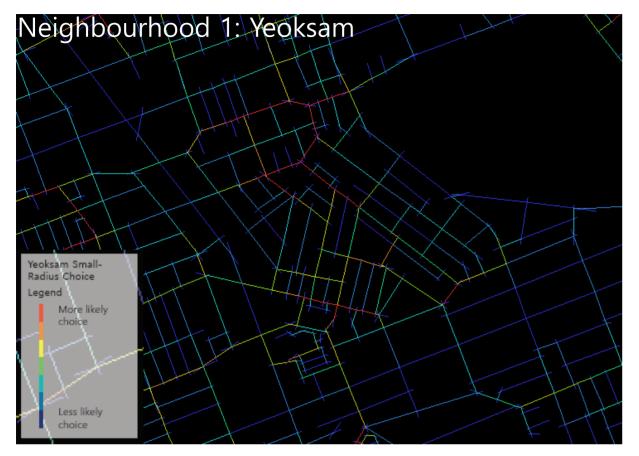




Proposed Framework 42













## Example: Seoul





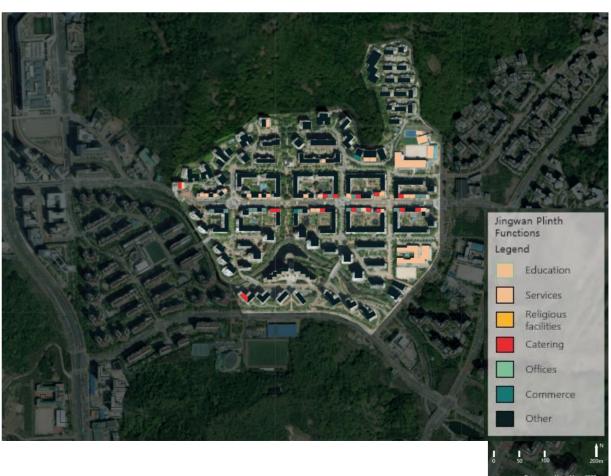


Proposed Framework



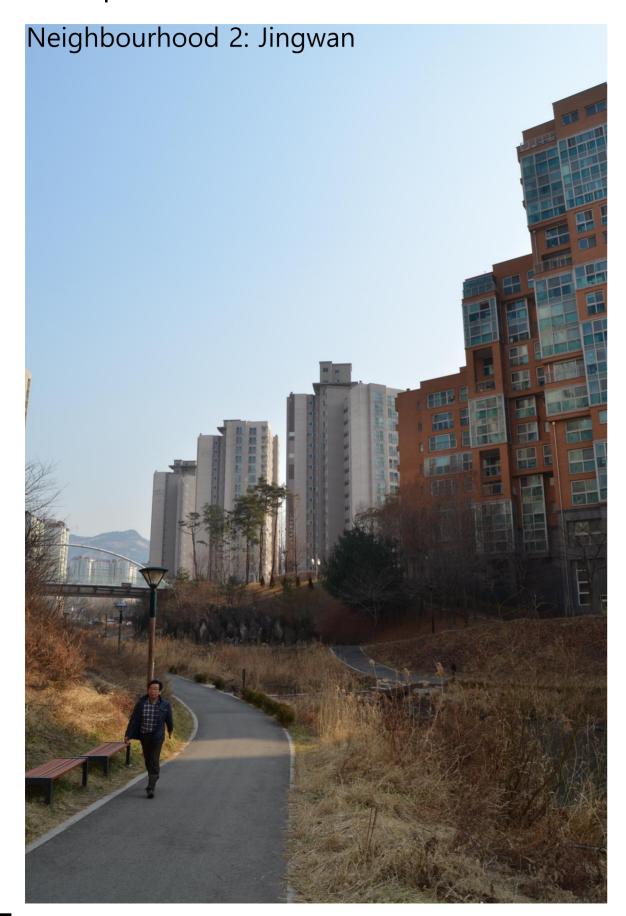






48

## Example: Seoul







Proposed Framework

### Main Observations

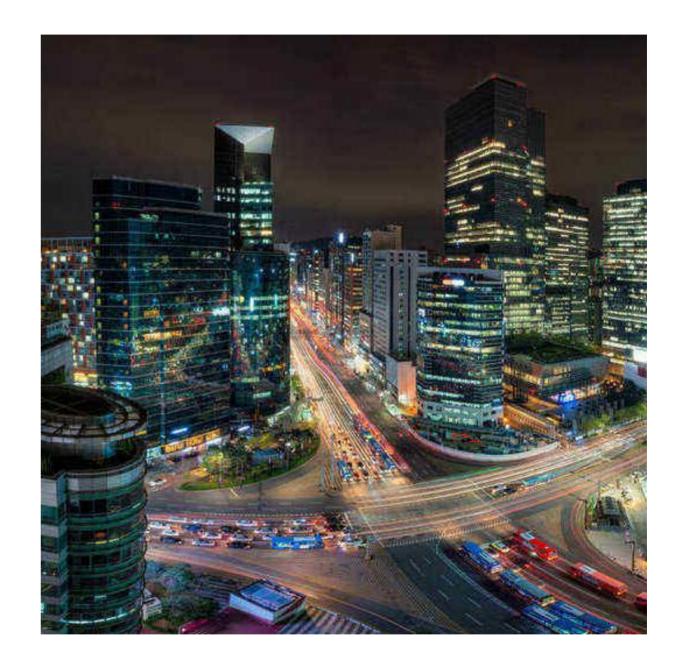
Cultural axes	Spatial Constraints & Needs						
	Distribution (flexibility)	Access (mobility)	Performance (comfort)				
Society (services)	<ul> <li>Comfortable access to services in non-central residential nhds</li> <li>Often disconnected from economic opportunity areas</li> </ul>	- In new nhds, services are clustered among smaller residential clusters	- Many service facilities nearby one another in new (peripheral) nhds but not in old (central) ones				
	1 4	1	1 4				
Economy (opportunity)	- More decentralised than the other cities, and progress is being made for increased decentralisation	<ul> <li>Transport network dense and easily connect nhds with spaces of higher opportunity</li> <li>Economic opportunities centralised around metro stations, especially along main road exits</li> </ul>	<ul> <li>Often, high-skilled jobs along main streets, so they have easy access from metro and bus stops</li> <li>Ground floor spaces in residential nhds rentable for facilitating local businesses</li> </ul>				
Spatial experience (appropriation)	- Leisure spaces abundant in new nhds (not in old ones) but not particularly appropriable; either anonymous or taken over by adjacent businesses	<ul> <li>Dense network but unsafe (much anxiety surrounding spycams)</li> <li>Long-winded access for those needing elevators (not enough present and too far from the platforms)</li> <li>3</li> <li>5</li> <li>6</li> </ul>	- Parking and entrance spaces on the plinth level abundant; while blackbox cameras provide some security, they're still not pleasant areas to walk through				

Proposed Framework 49

Example: Seoul

Main Constraints





## Distribution

Spatial efficiency of time-use connectivity

### Three Cases Comparison

The Hague



Access (mobility)

2

3

Cairo

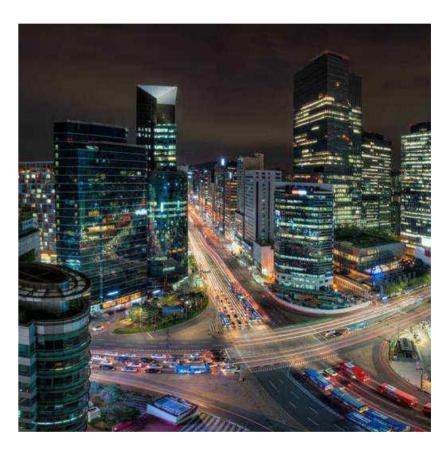


Performance (comfort)

5

6

Seoul



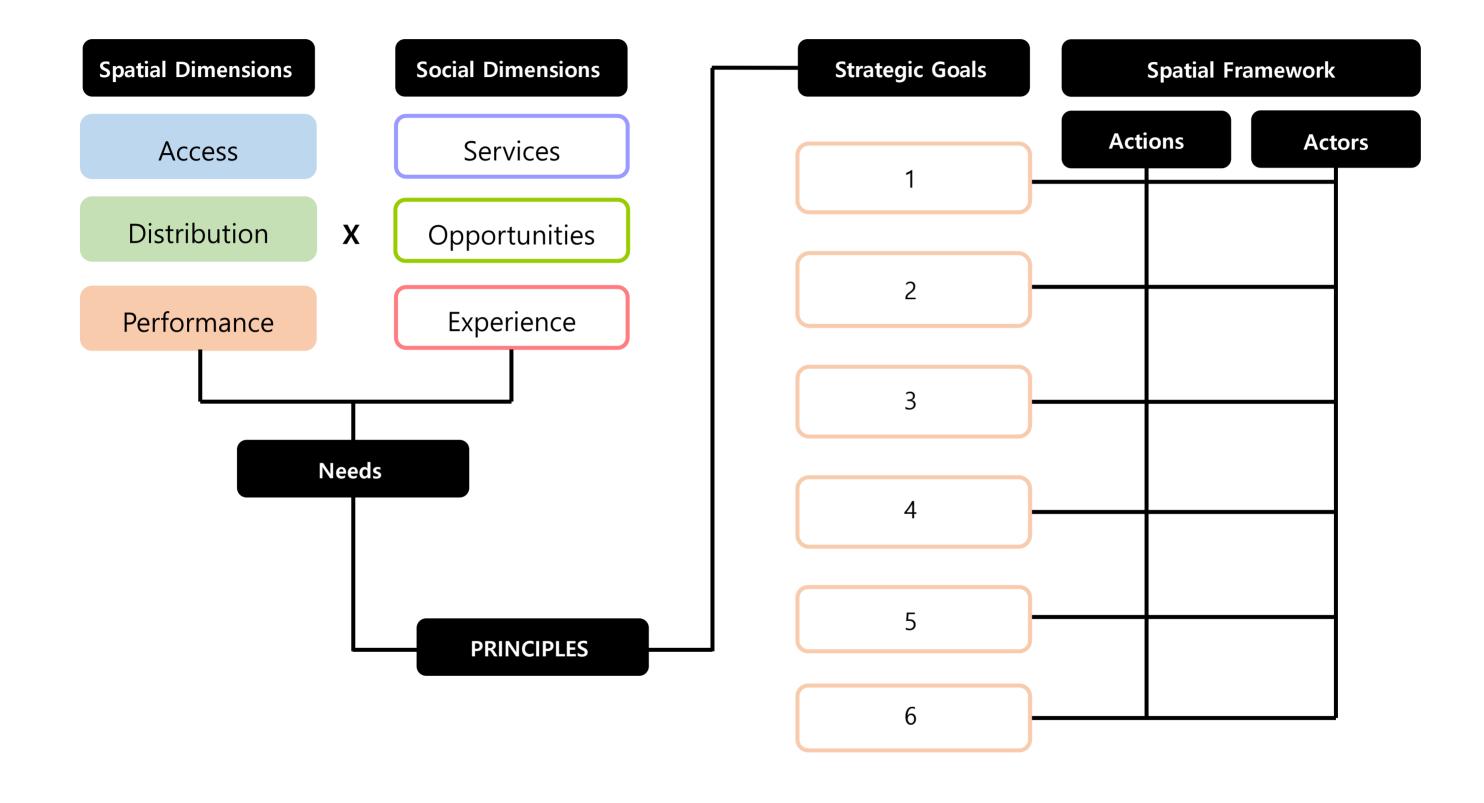
Distribution (flexibility)

1

4

Sources

Left: The Hague Online Centre: SAT7 UK Right: Pearson Korea



#### Needs Assessment

### **Spatial Dimensions**

#### Needs

### **Social Dimensions**

#### Access

Distribution

Uninterrupted pedestrian network; direct connection to services

Services available at neighbourhood scale, centralised & connected to other spaces

Walkable access from the pedestrian network, direct connection to active spaces

Direct public transport access, connected through pedestrian spaces

Decentralisation across the city into smaller clusters

Aesthetic & comfortable integration into pedestrian daily systems networks

Connection of residence, leisure, services & opportunities; multifunctional networks

Increased spaces of appropriation & community interaction throughout

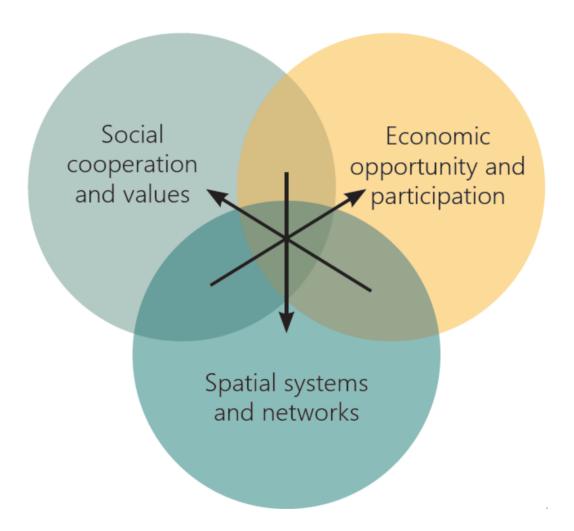
Comfortable & safe spaces that encourage appropriation & use by women

#### Services

### Opportunities

Experience

#### Performance



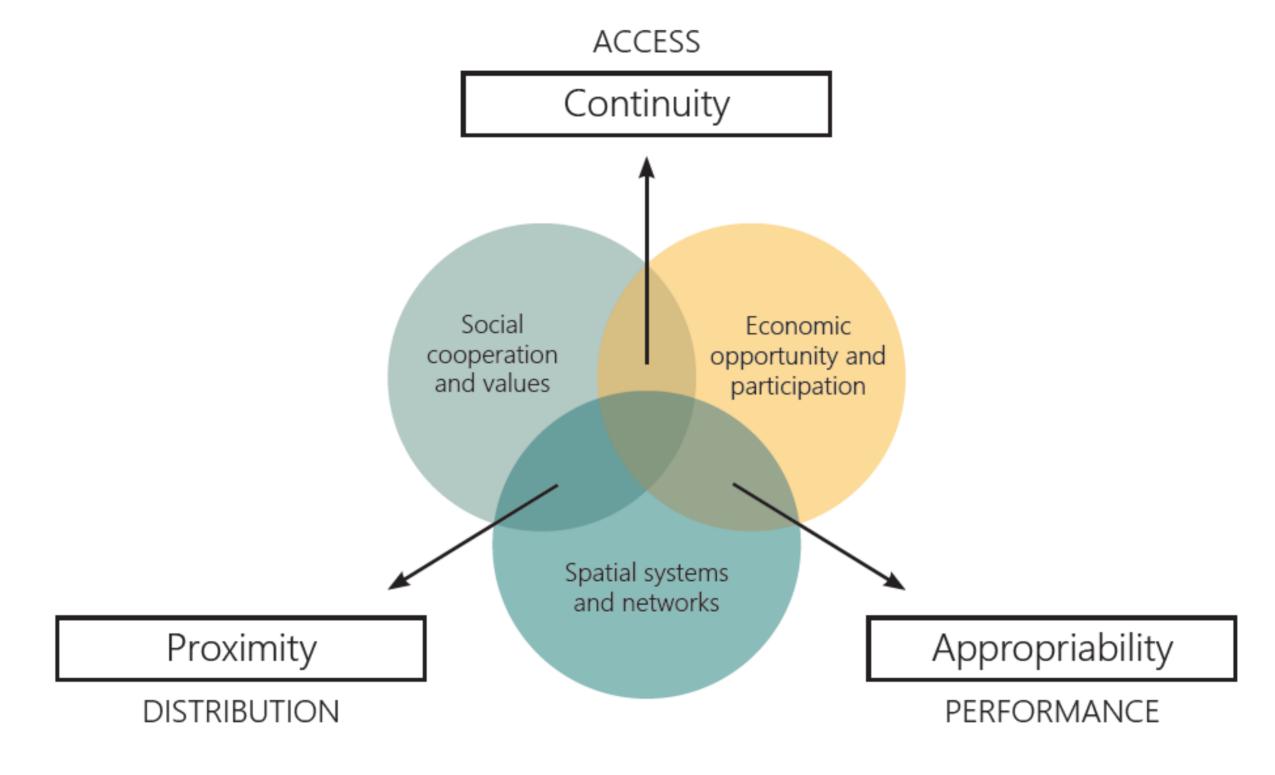
Proposed understanding of the systems:

- 1. Social spatio-economic: Social positioning in the spatial configuration of economic systems.
- 2. Economic socio-spatial: Economic positioning in the spatial manifestation of social dynamics.
- 3. Spatial socio-economic: Spatial positioning in the economic accessibility of social entities.

## Systems of Evolutionary Processes

Understanding the interrelation of the systems

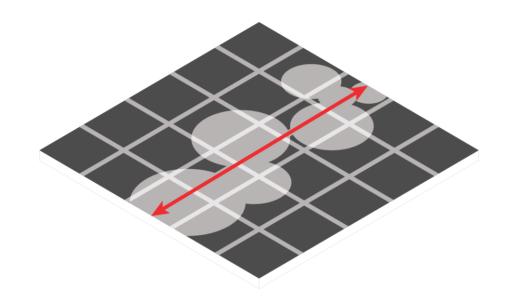
Source Author, adapted from Isaza (2020)

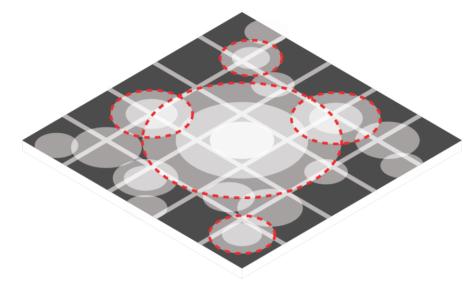


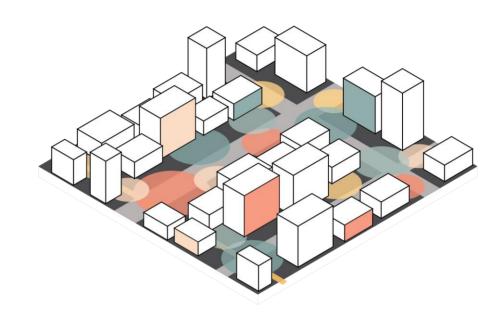
# Systems of Evolutionary Processes

**Resulting Principles** 

Source Author, adapted from Isaza (2020)







## Continuity

Counteract spatial fragmentation and barriers to access through ensuring both the spatial and visual continuity of pedestrian networks, thereby reducing safety risks in space and providing a streamlined network for access to social and economic opportunities.

## **Proximity**

Enhance economic networks in the city through poly-centrality and functional distribution, in order to optimise spatial time-use patterns, defining a physical environment in which societal patterns can be condensed and more efficient, enhancing their economic value.

## **Appropriability**

Counteract social isolation and social barriers to the use of public space networks through enabling the individual and collective appropriation of public space, to create conditions for aligning social needs for safety and co-creation to the spatial and economic networks.

## Principles

Guiding principles for evolutionary process for gender-equal development

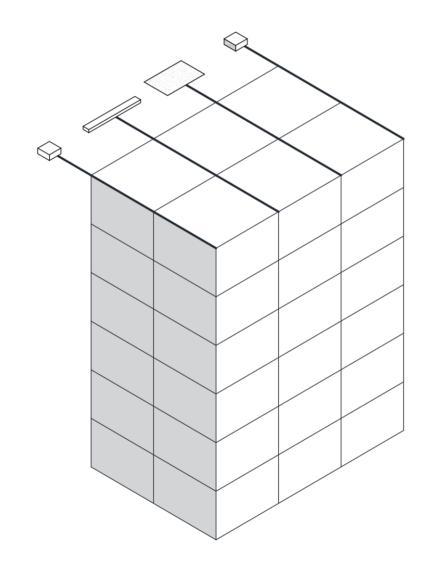
Source Author

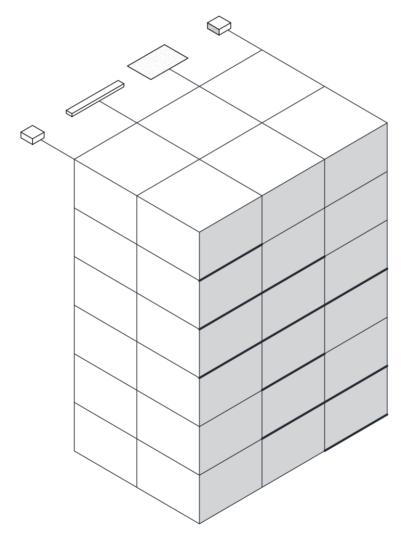
### Spatial Framework

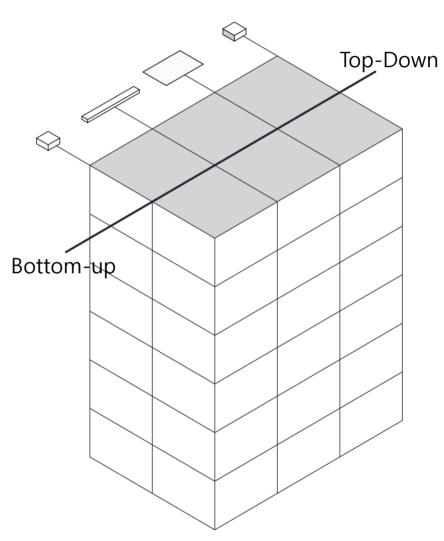
### 1 Anchoring

### 2 Interrelating

### 3 Synchronising

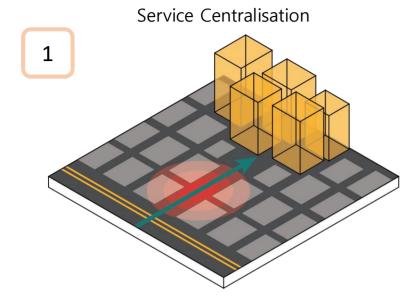




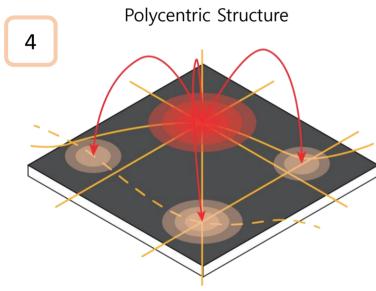


#### Goals and Actions

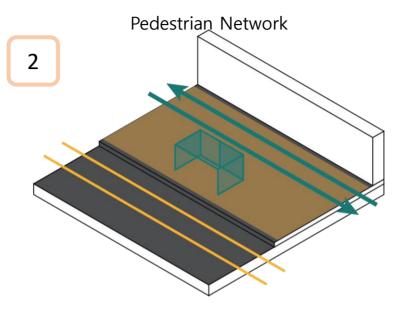
#### (1 Anchoring)



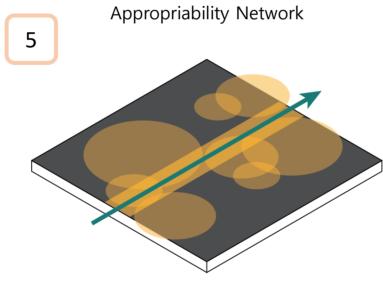
Centralise services along a continuous axis between public transport stops and employment opportunities, located within one step depth away from this axis.



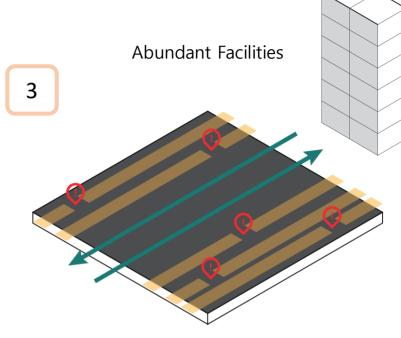
Decentralise specialised functional clusters to form a polycentric structure around (potential) public transportation hubs, within the network of daily systems.



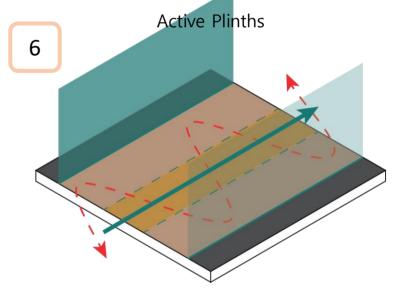
Create a continuous pedestrian public space network, ensuring that public transport stops are directly on the pavement.



Integrate appropriable spaces into the continuous public space network to create fast and safe axes.



Facilities made for ease of access for dependents (e.g. elevators and ramps) must be abundant and on a continuous network, with visual and tangible cues indicating their locations.

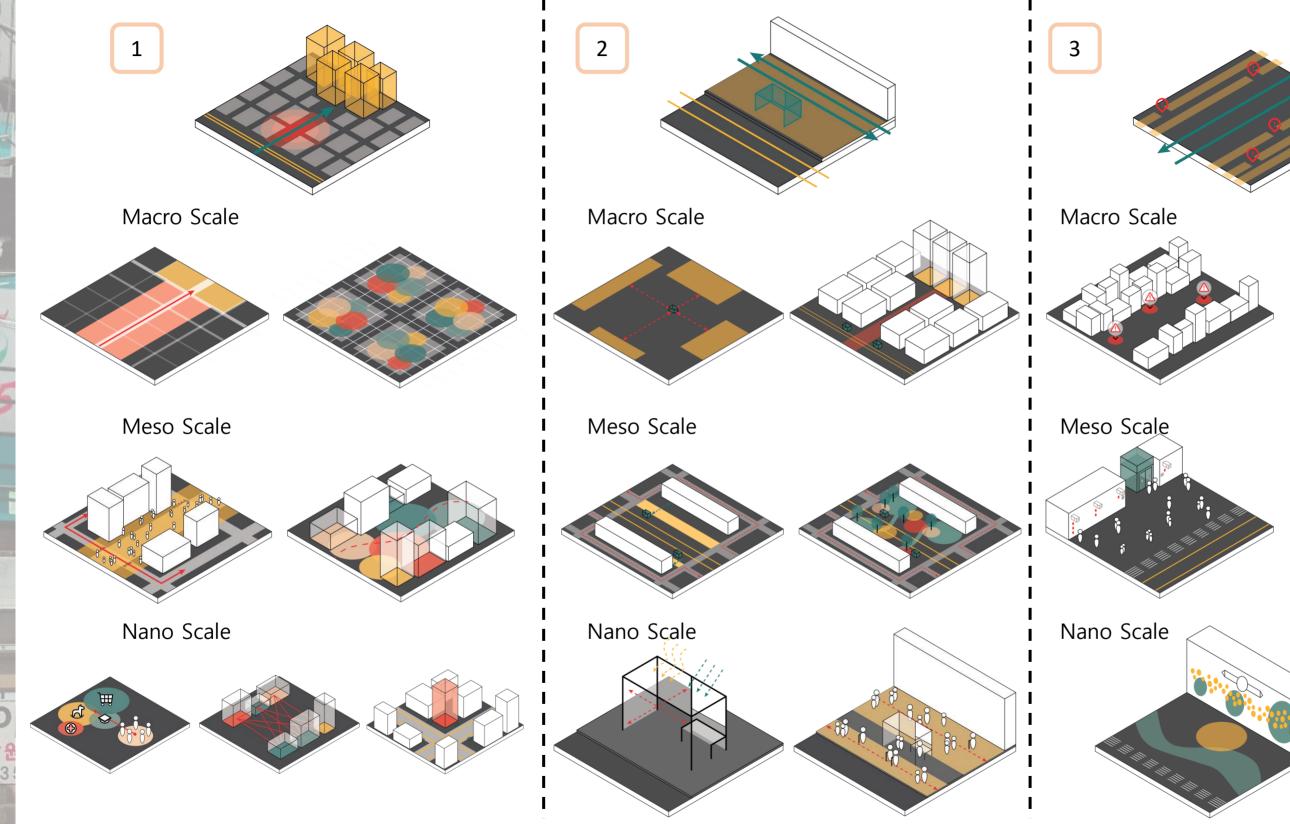


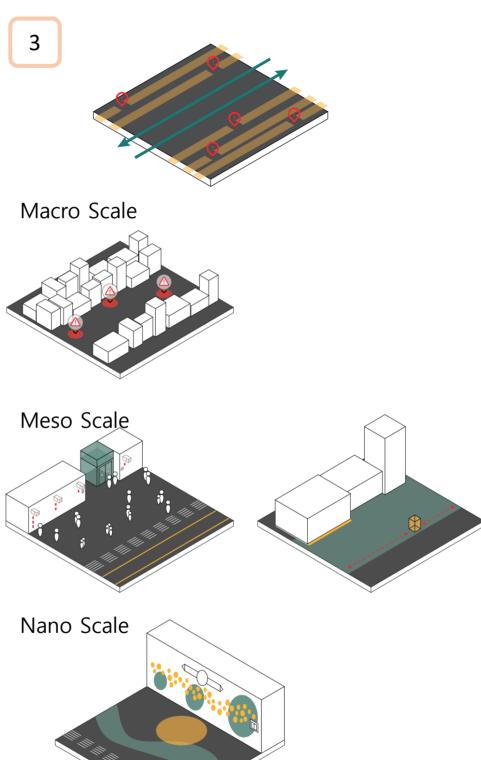
Create active plinths through the street-building relationships to increase direct access between them.

# Strategic Planning Goals

Main objectives for increasing gender-equal access, stemming from the principles

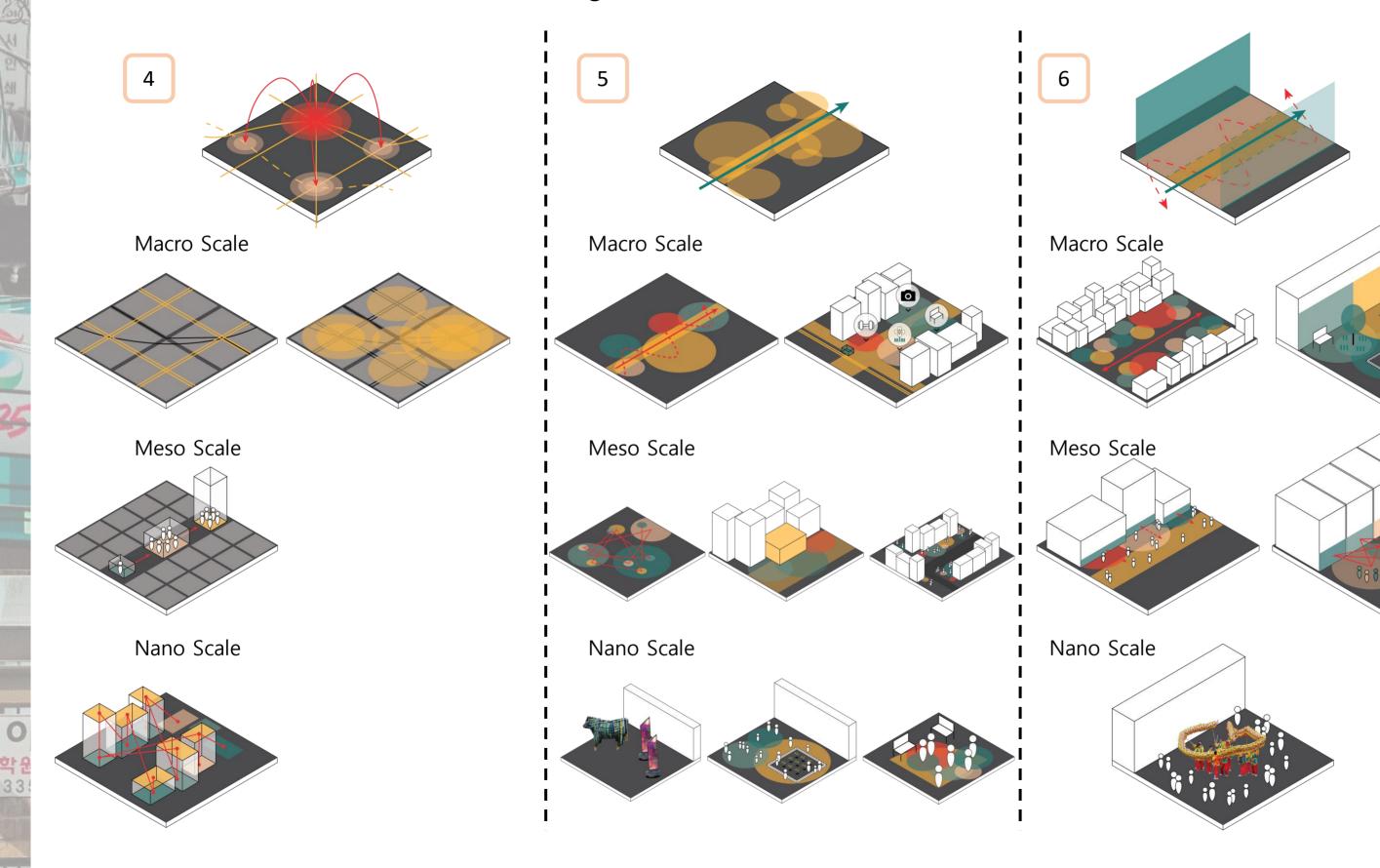
#### Goals and Actions (1 Anchoring)





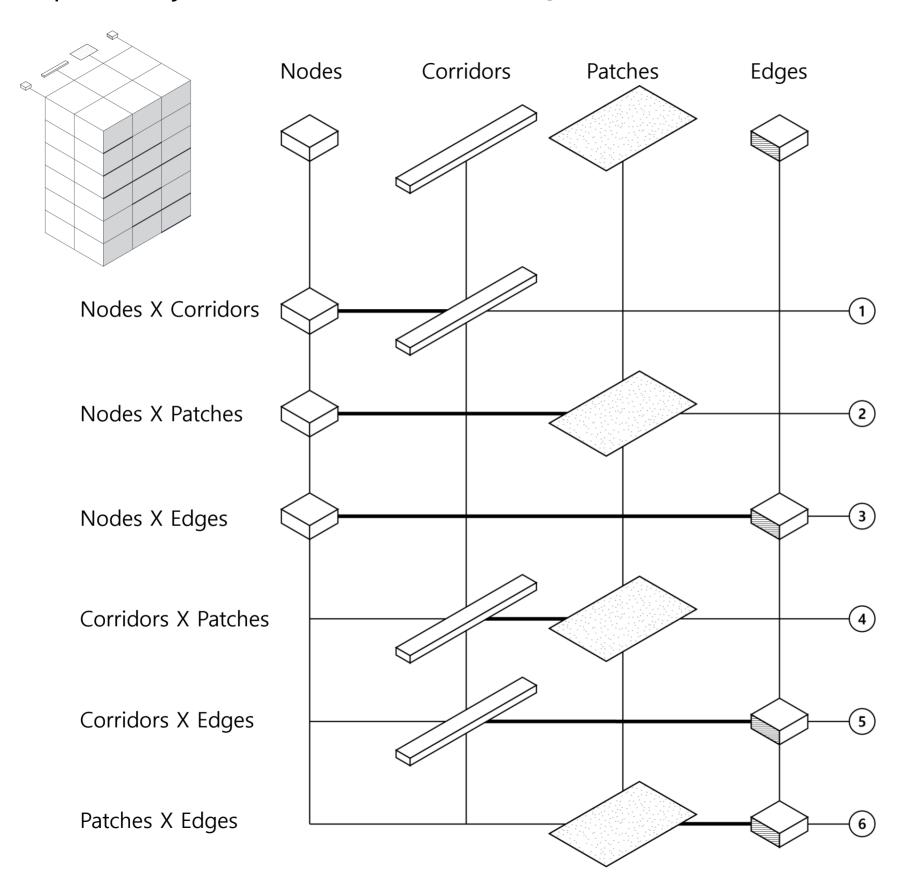
### Goals and Actions

### (1 Anchoring)



### Operability

### (2 Interrelating)



Nodes

- Local-scale appropriable spaces
  - Service provision
  - \_ Community centre
  - Public transport stops
  - \_ Facilities for dependents
- Reorientation programmes

#### Corridors

- Pedestrian network
- Visual network
- Network of appropriable spaces
  - Road network
  - Public transport network

#### Patches

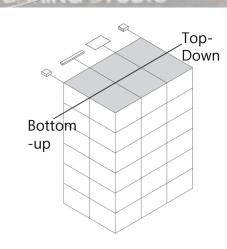
- Service clusters
- Employment hubs
- Public transportation hubs
- Community-scale appropriable spaces
  - Collaboration networks

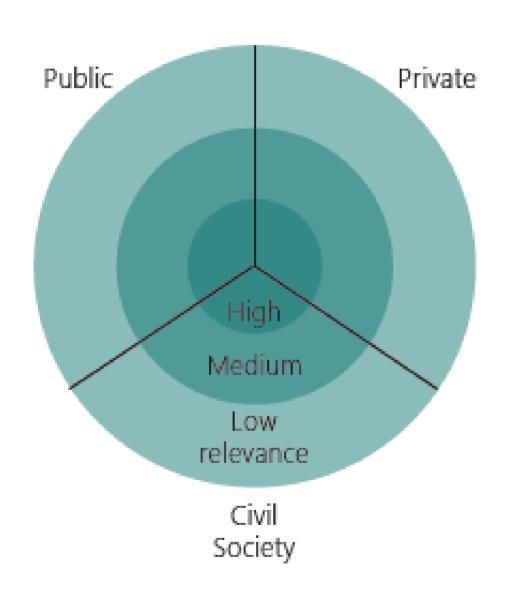
### Edges

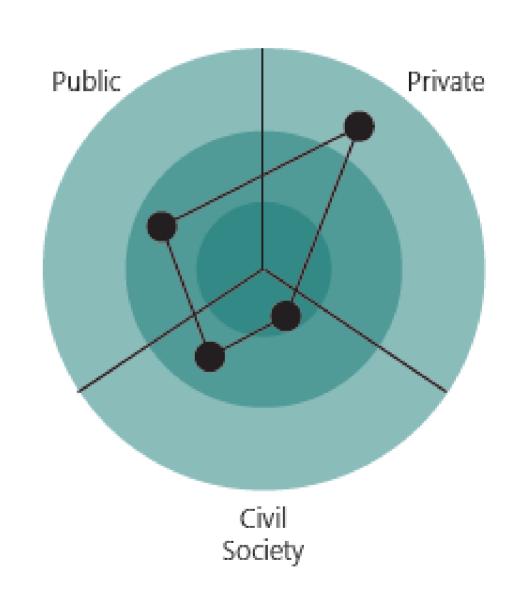
Continuous pavements
 Interaction between streets and plinths

Operability

(3 Synchronising)







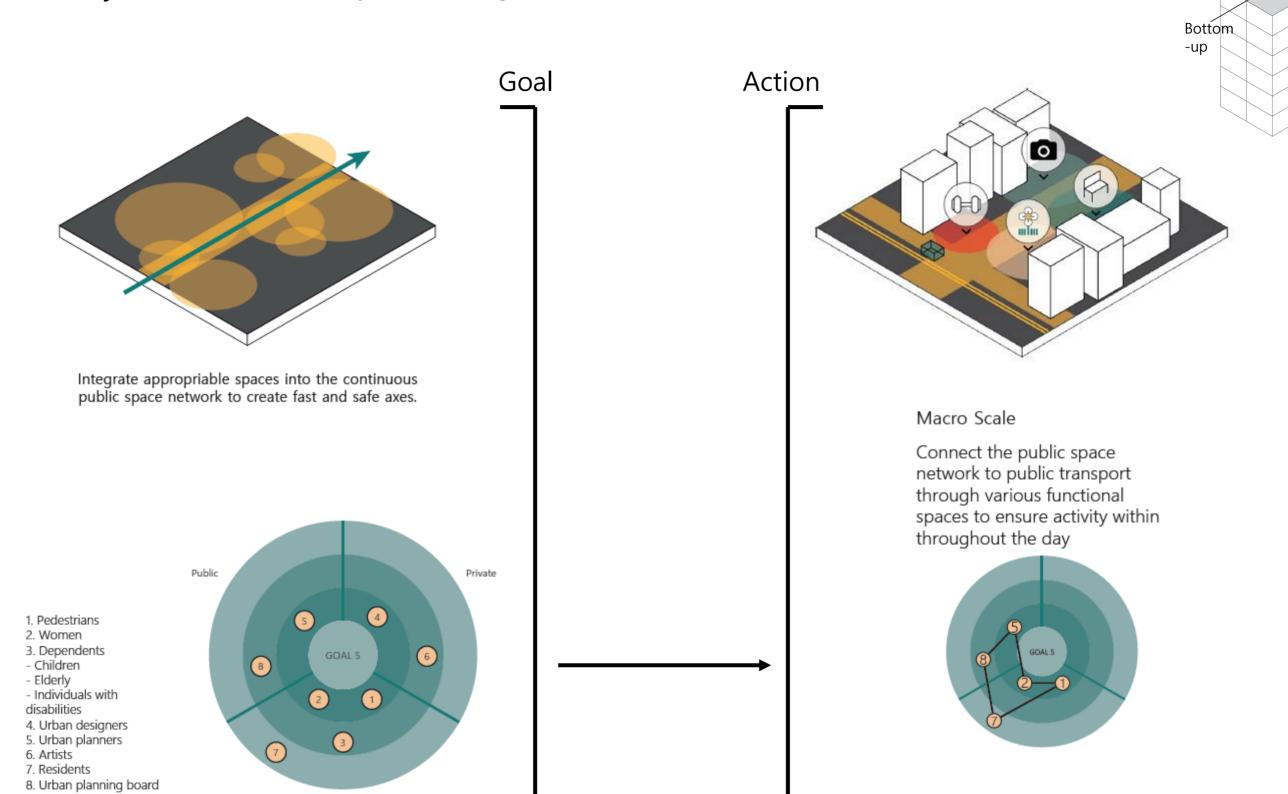
## Stakeholder Onion Scheme

Organising the stakeholders across sectors from most to least pivotal

Source Czischke (2018) Operability

(3 Synchronising)

Civic Society



Top-Down

### Conclusions

### (3 Synchronising)

Goal 1: Centralise services along a continuous axis between public transport stops and employment opportunities, located within one step depth away from this axis.

Actions	Social	Economic	Spatial	Socio- Economic	Socio- Spatial	Spatio- Economic
Plan services along streets with most pedestrian traffic, making sure they are in proximal areas to local economic hubs	 		-		-	
Ensure there is an even distribution of services across clusters, so there is no lack or overabundance in one area (through policies and cooperation)	++	+	++	+	+	+
Gradually remove motor vehicle access to create a fully pedestrian network; reroute cars if necessary			-			
Create appropriable spaces directly tied to the services, tied to one another through a visual network	++	++	++	+	+	++
Facilitate community relationship between the service clusters and their users	++	+++	+++	++	++	+++
Create collaboration framework between service providers	++	++	+++	++	++	++

Goal 2: Create a continuous pedestrian public space network, ensuring that public transport stops are directly on the pavement.

isport si	ops are	unecuy	On the	paverne	TIC.
+++	++	+	++	+	++
+	-	+	+		-
	++				-
	++	+			+
+	++	+	+		++
	 	+ + +	+ + + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + + +	+ - + +

Goal 3: Facilities made for ease of access for dependents (e.g. elevators and ramps) must be abundant and on a continuous network, with visual and tangible cues indicating their locations.

Ensure the entire network is safe for dependents through constant maintenance of the space to avoid dangerous obstacles (e.g. broken pavement, banners)	++	++	+++	++	+++	+++
Develop policies for locating facilities directly within the pedestrian networks	++	++	+	+	+	++
Develop inclusivity policies highlighting the need for visual and tangible cues at regular intervals for disabled dependents	++	+	+++	++	++	+++
Facilitate collaboration between dependents and artists for the appropriation of the visual and tangible space leading to the facilities they need	++	+	+++	-		+

Feasibility framework for possible operability given dimensional constraints

### Conclusions

- Integrate women's voices
- Cross-cultural frame of reference
  - Assess progress

#### Recommendations

- Research with local participation
- Management methods in informality
- Different stakeholder dynamics across cultural contexts
- Redefining (not retrofitting) the framework to mitigate specific local constaints

