



Pasar Baroe, Bandoeng.

# FUTURE INNER-CITY LIVE-WORK TYPOLOGIES FOR BANDUNG



# SHARED HERITAGE LAB - BANDUNG



HOW TO EVOLVE **IMPORTANT HERITAGE STRUCTURES** AND AREAS OF BANDUNG, IN ORDER TO REALISE **INCLUSIVE, THRIVING AND HEALTHY** ENVIRONMENTS FOR **WORKING, LIVING AND LEISURE?**

# INTRODUCTION

## LOCATION



BANDUNG, JAVA

BANDUNG - CAPITAL OF WEST-JAVA

Cities

# Goodbye, Jakarta? Indonesia's president suggests new capital

Idea of unhitching country's administrative centre from its megacity has a long history - but experts are sceptical



THE GUARDIAN - 30<sup>th</sup> APRIL 2019

# INTRODUCTION

## ABANDONING THE HISTORIC CENTRE



JAKARTA, JAVA

JAKARTA, CAPITAL OF INDONESIA

# INTRODUCTION

## ABANDONING THE HISTORIC CENTRE

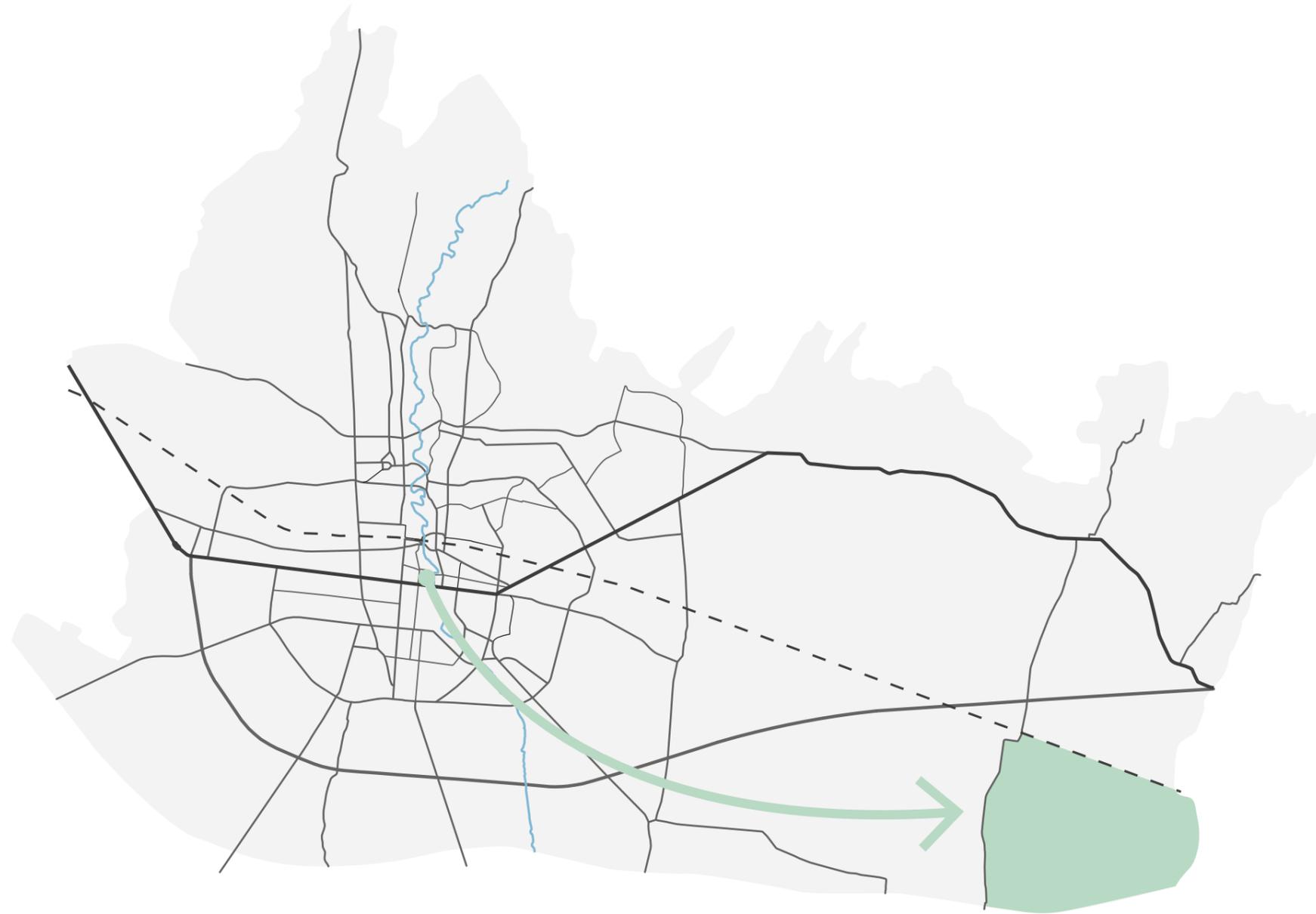


PALANGKARAYA, KALIMANTAN

PALANGKARAYA - POTENTIAL CAPITAL OF INDONESIA

# INTRODUCTION

## ABANDONING THE HISTORIC CENTRE



GEDEBAGE

GEDEBAGE - NEW CITY CENTRE OF BANDUNG

# INTRODUCTION

## ABANDONING THE HISTORIC CENTRE



GRAND MOSQUE AT ALUN ALUN & NEW GRAND MOSQUE AT GEDEBAGE

## INTRODUCTION

### ABANDONING THE HISTORIC CENTRE

WHY !?

## INTRODUCTION

### ABANDONING THE HISTORIC CENTRE

- SINKING CITY
- TRAFFIC
- POLLUTION
- OVERPOPULATION
- PRESTIGE

INTRODUCTION  
AMBITION

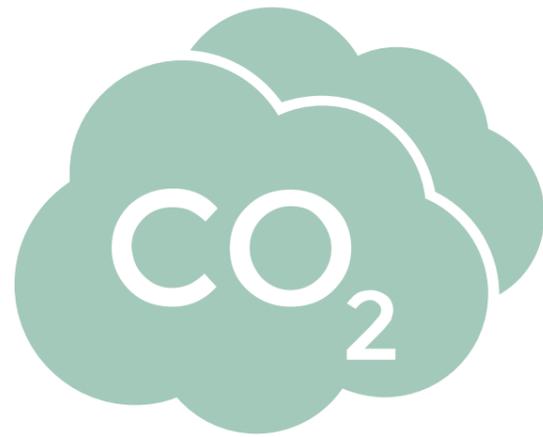
WHAT IS HAPPENING IN THOSE CITIES AND WHAT CAN WE DO ABOUT IT?

# INTRODUCTION

## AMBITION

WHAT IS HAPPENING IN THOSE CITIES AND WHAT CAN WE DO ABOUT IT?  
**WHAT CAN I AS AN ARCHITECT DO ABOUT IT ?**

**INTRODUCTION**  
AMBITION



CLIMATE CHANGE



URBAN DENSIFICATION



LACK OF TRADITIONAL  
FAMILIARITY

# INTRODUCTION

## STRUCTURE OF THE PRESENTATION



### RESEARCH & ANALYSIS

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BANDUNG

PASAR BARU



### THEMATIC RESEARCH

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FASCINATION

STRUCTURE

QUESTION

RESULTS

CONSLUSION



### DESIGN

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QUESTION & OBJECTIVE

URBAN GUIDELINES

IMPLEMENTATION

CONCLUSION

REFLECTION

# RESEARCH & ANALYSIS



## RESEARCH & ANALYSIS

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# RESEARCH & ANALYSIS

## BANDUNG

### LOCATION



BANDUNG, JAVA

THE LOCATION OF BANDUNG

# RESEARCH & ANALYSIS

BANDUNG

DE GROOTE POSTWEG



THE GROOTE POSTWEG - 1810

## RESEARCH & ANALYSIS

BANDUNG

DE GROOTE POSTWEG

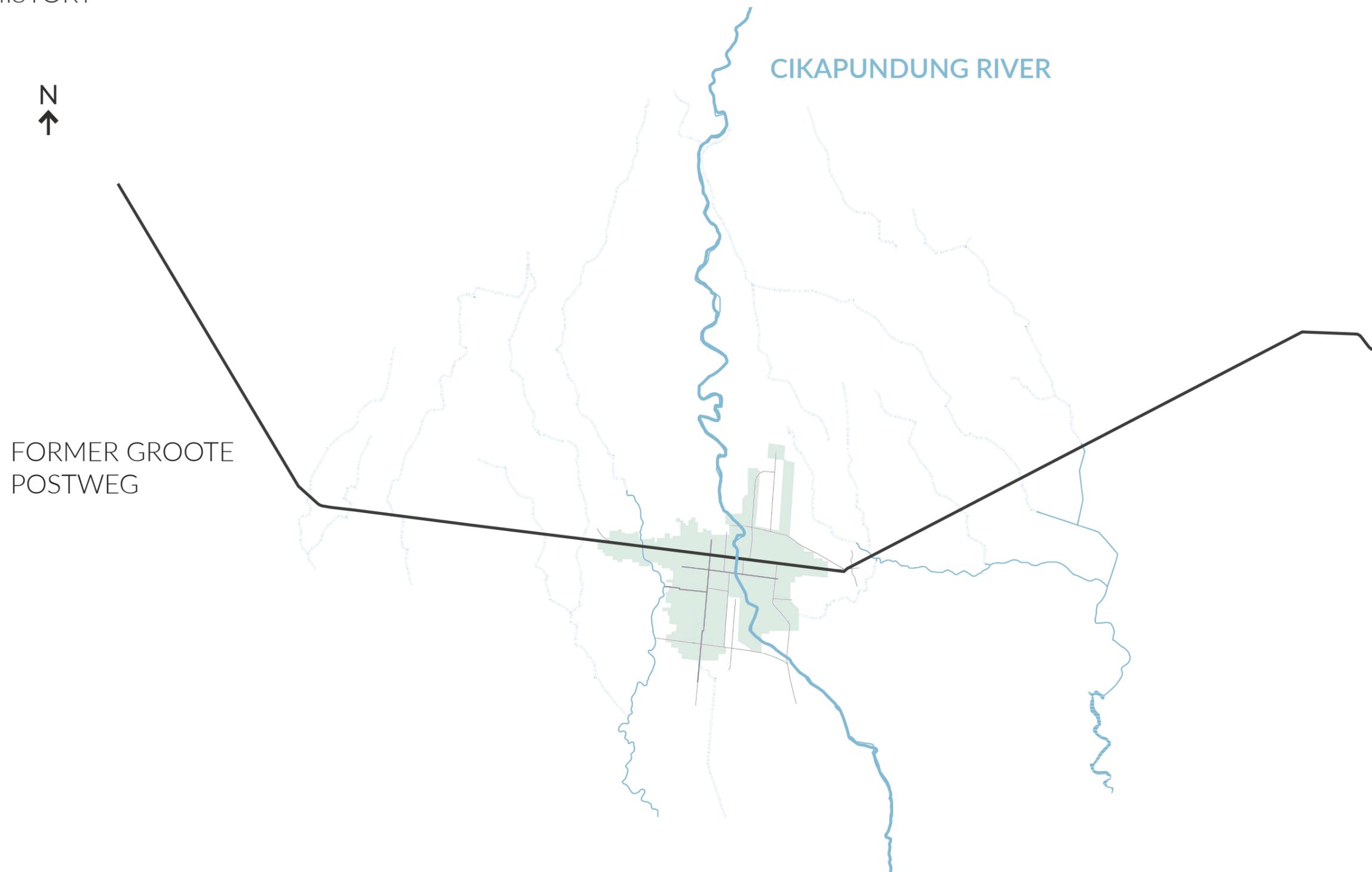


THE GROOTE POSTWEG - 1810

# RESEARCH & ANALYSIS

## BANDUNG

### HISTORY

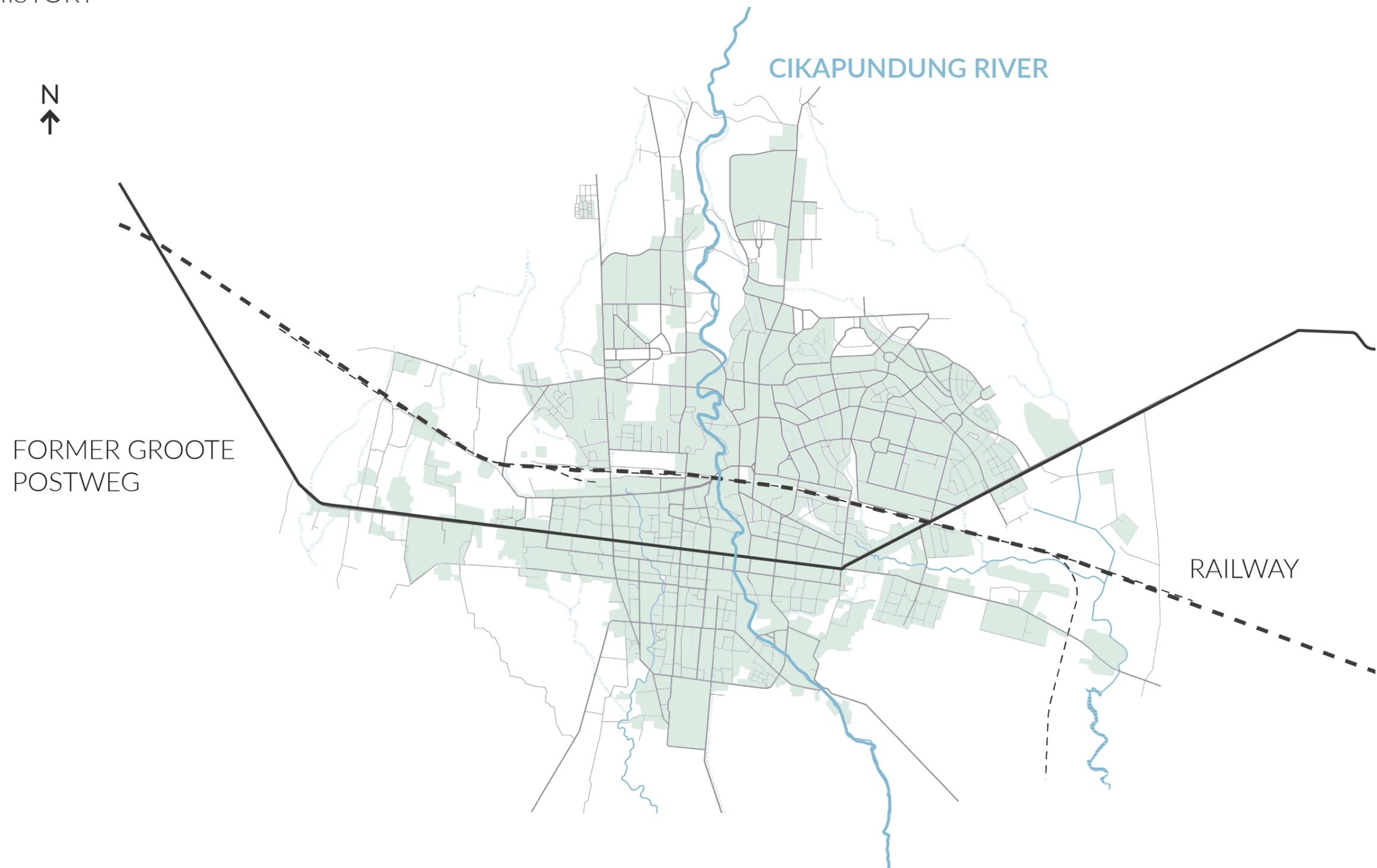


BANDUNG - 1825

# RESEARCH & ANALYSIS

## BANDUNG

### HISTORY



BANDUNG - 1930

# RESEARCH & ANALYSIS

## BANDUNG

### BACKBONES



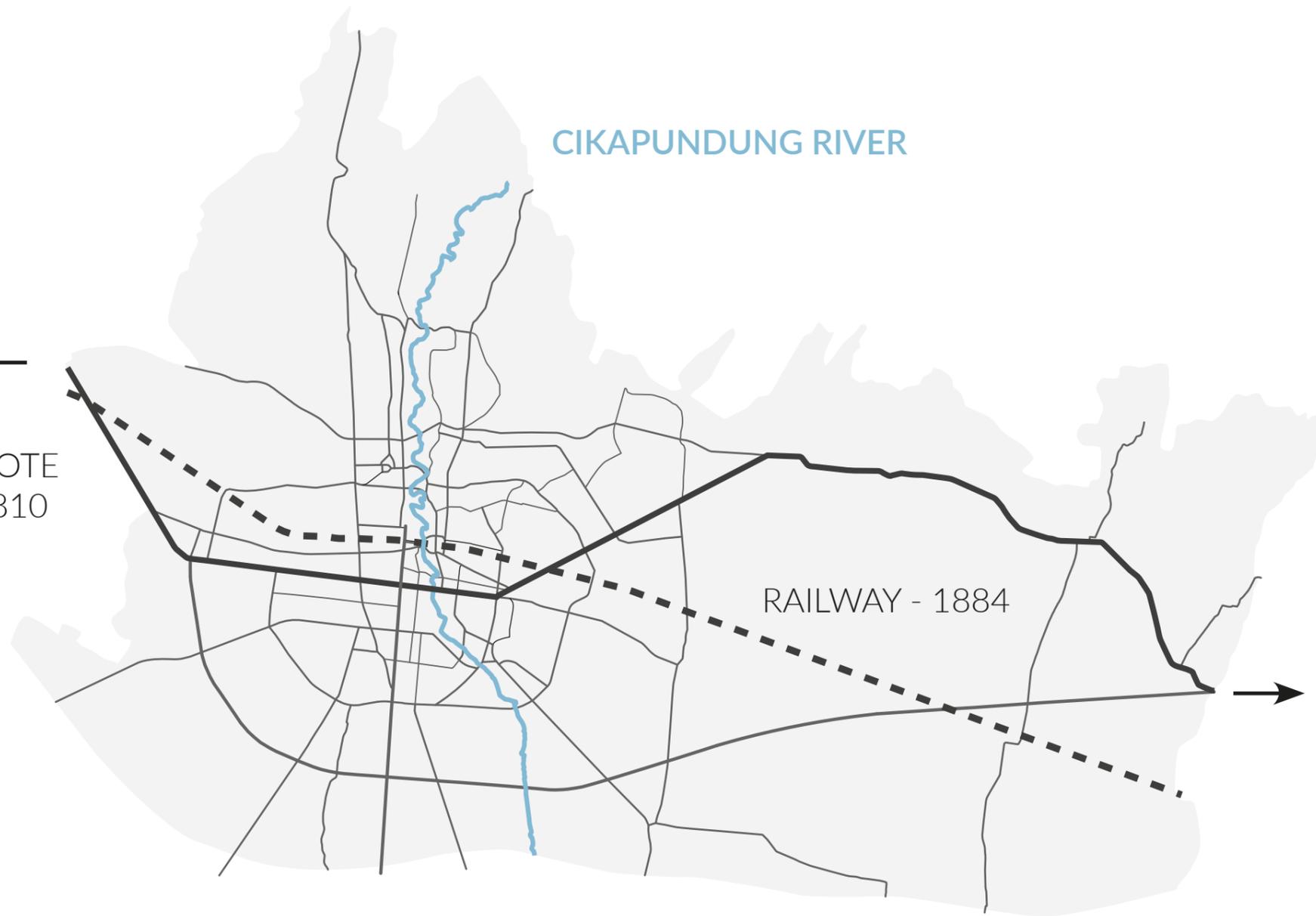
CIKAPUNDUNG RIVER

JAKARTA  
(BATAVIA) ←

FORMER GROOTE  
POSTWEG - 1810

RAILWAY - 1884

→ SURABAYA



BACKBONES OF BANDUNG

# RESEARCH & ANALYSIS

BANDUNG

BUFFERZONE

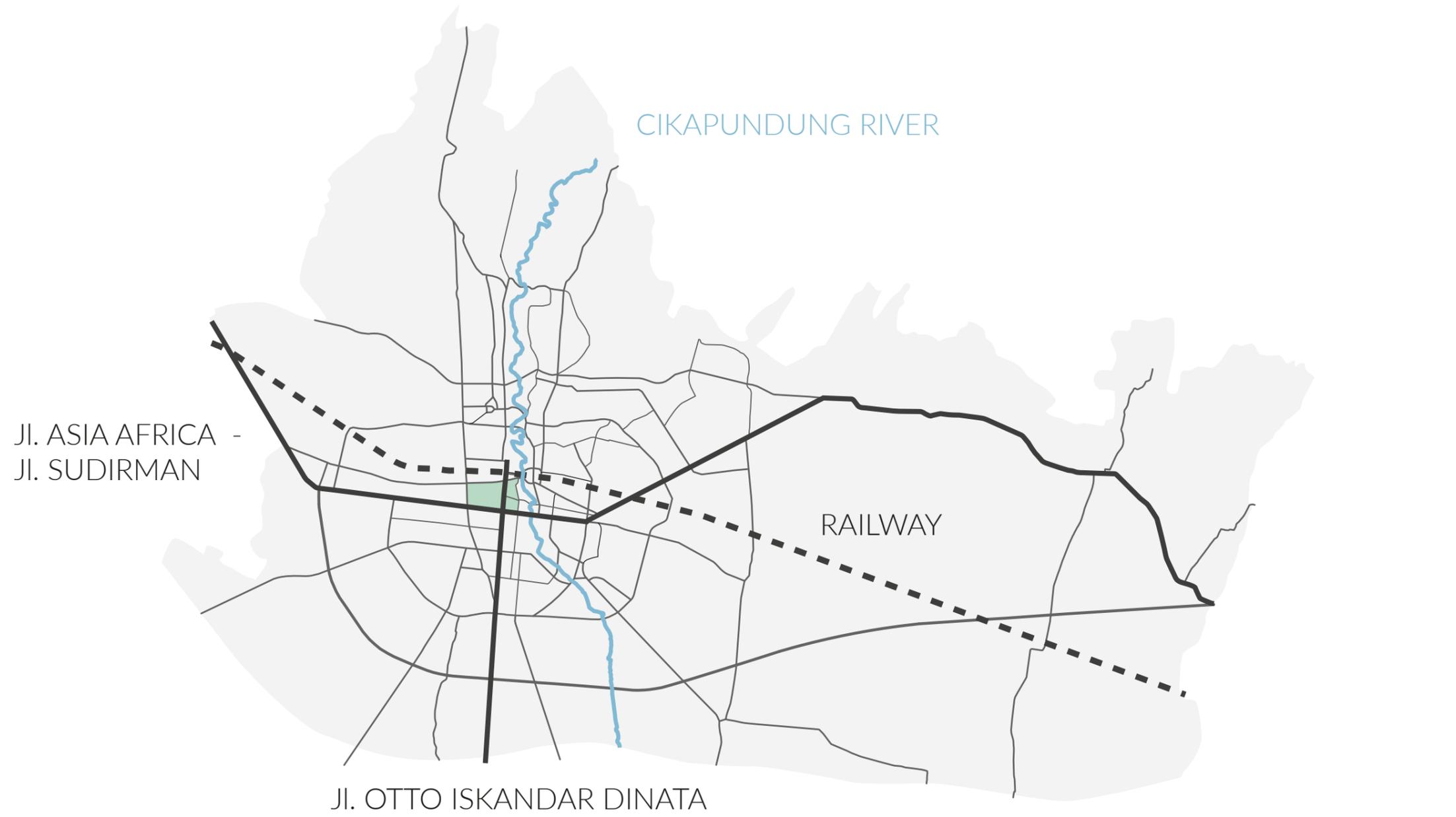


BUFFERZONE IN BANDUNG

# RESEARCH & ANALYSIS

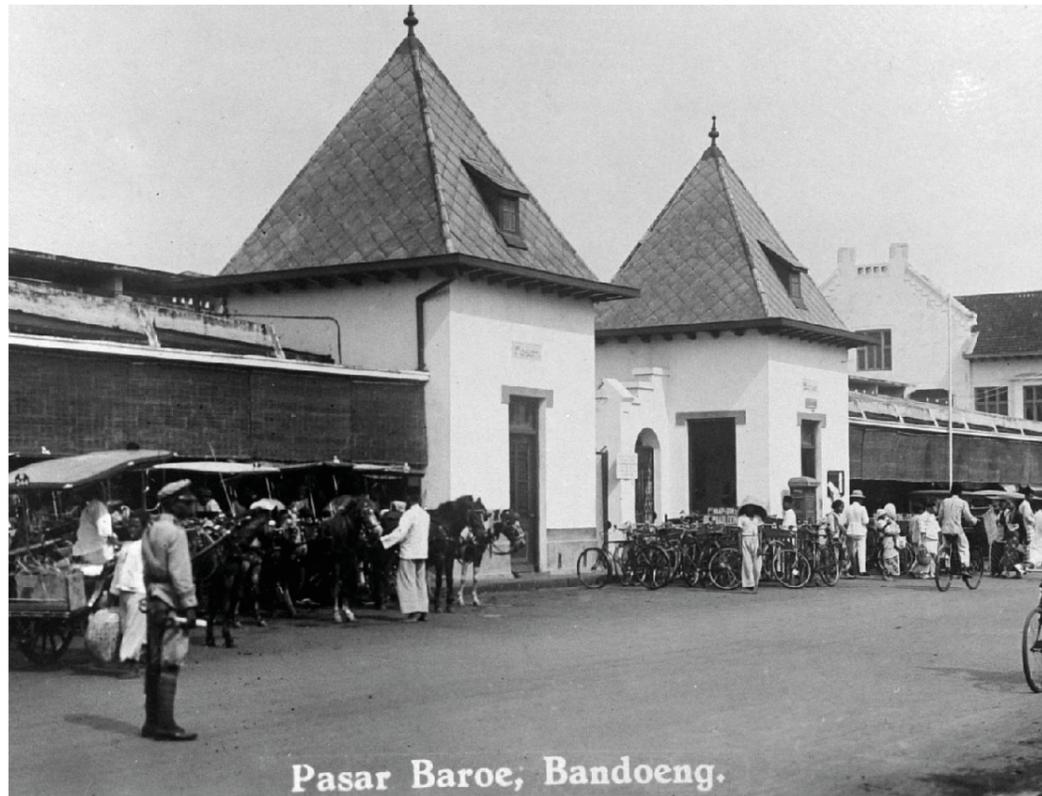
## BANDUNG

### PASAR BARU AREA



EMBEDDING OF THE PASAR BARU AREA

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
HISTORICAL CHARACTER



PASAR BARU BUILDING - 1920

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
HISTORICAL CHARACTER



SHOPHOUSES IN THE PASAR BARU AREA - 1920

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER

WHAT IS THE CONTEMPORARY CHARACTER OF THE PASAR BARU AREA?

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



MR. GAGAN -  
SHOPOWNER



MR. FIRMAN -  
STREET VENDOR



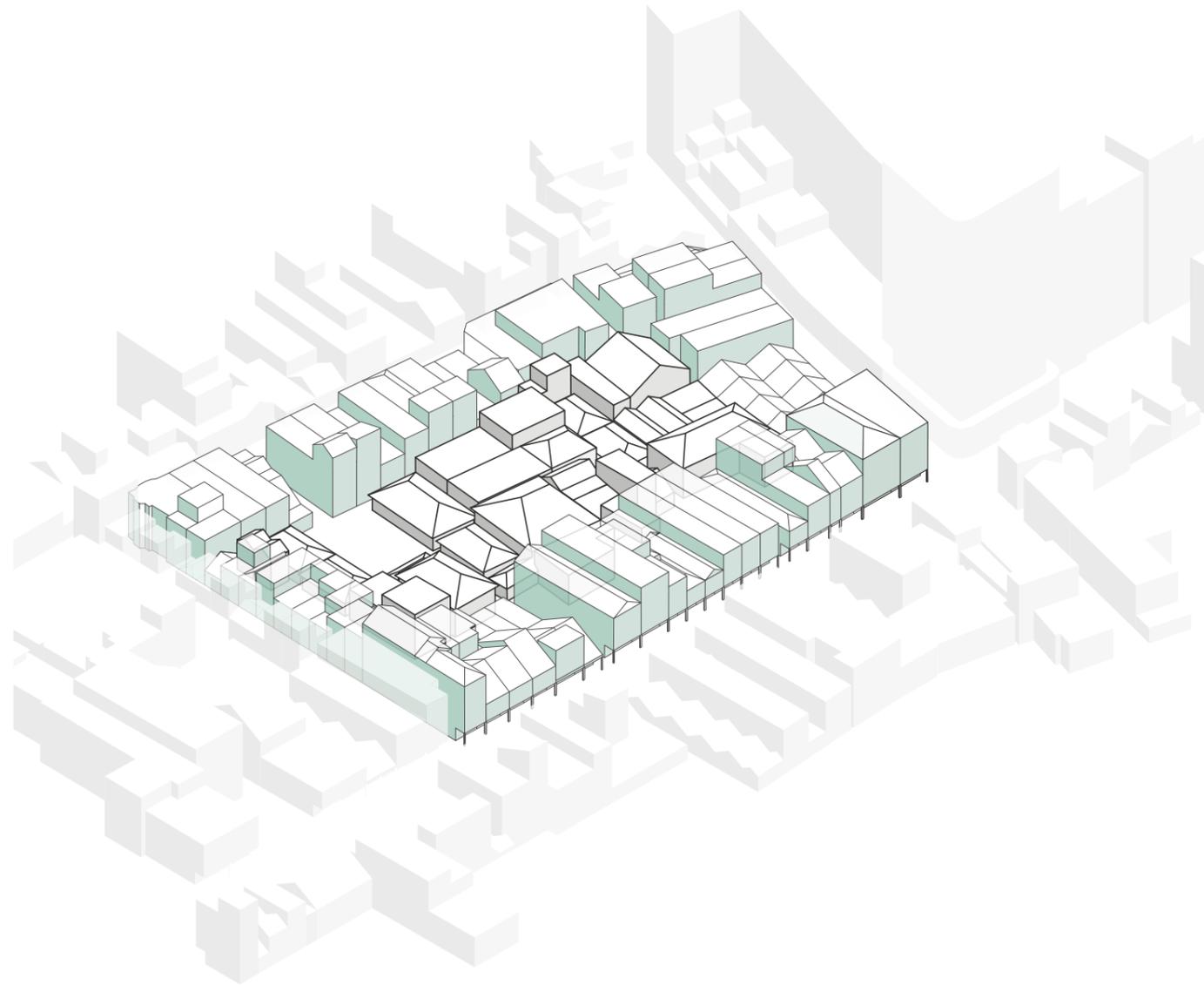
MS. KIRANA -  
CUSTOMER



MRS. ENOK -  
RESIDENT OF THE  
URBAN POCKET

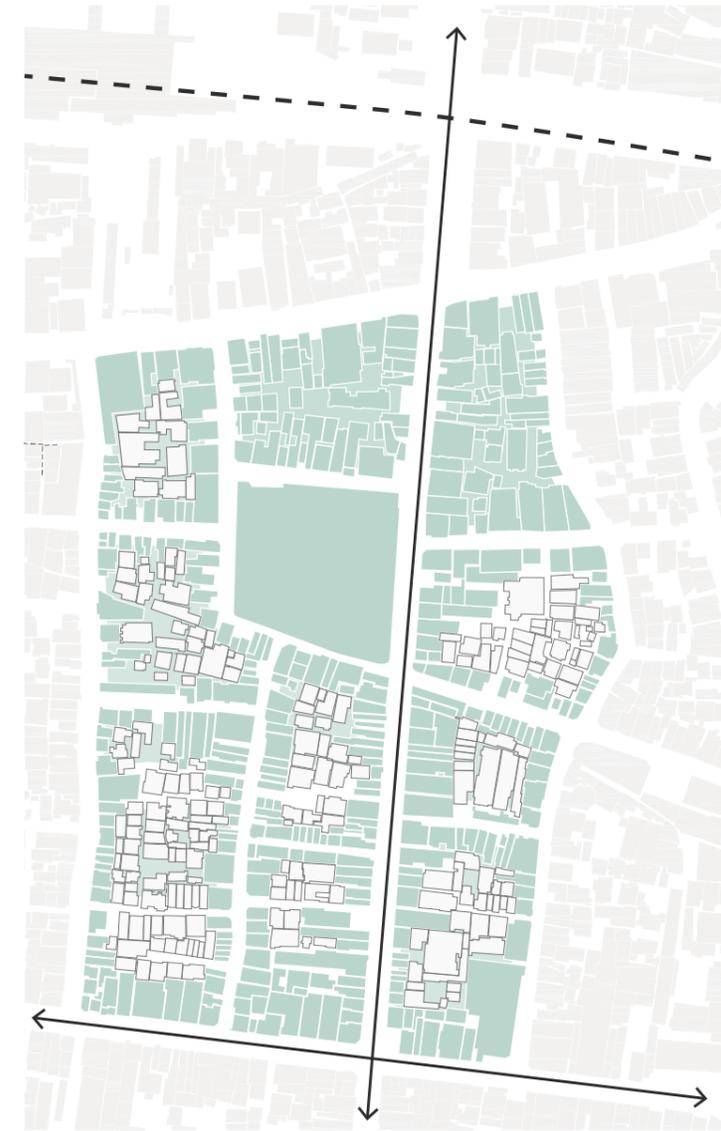
COMMUNITY OF THE PASAR BARU AREA

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



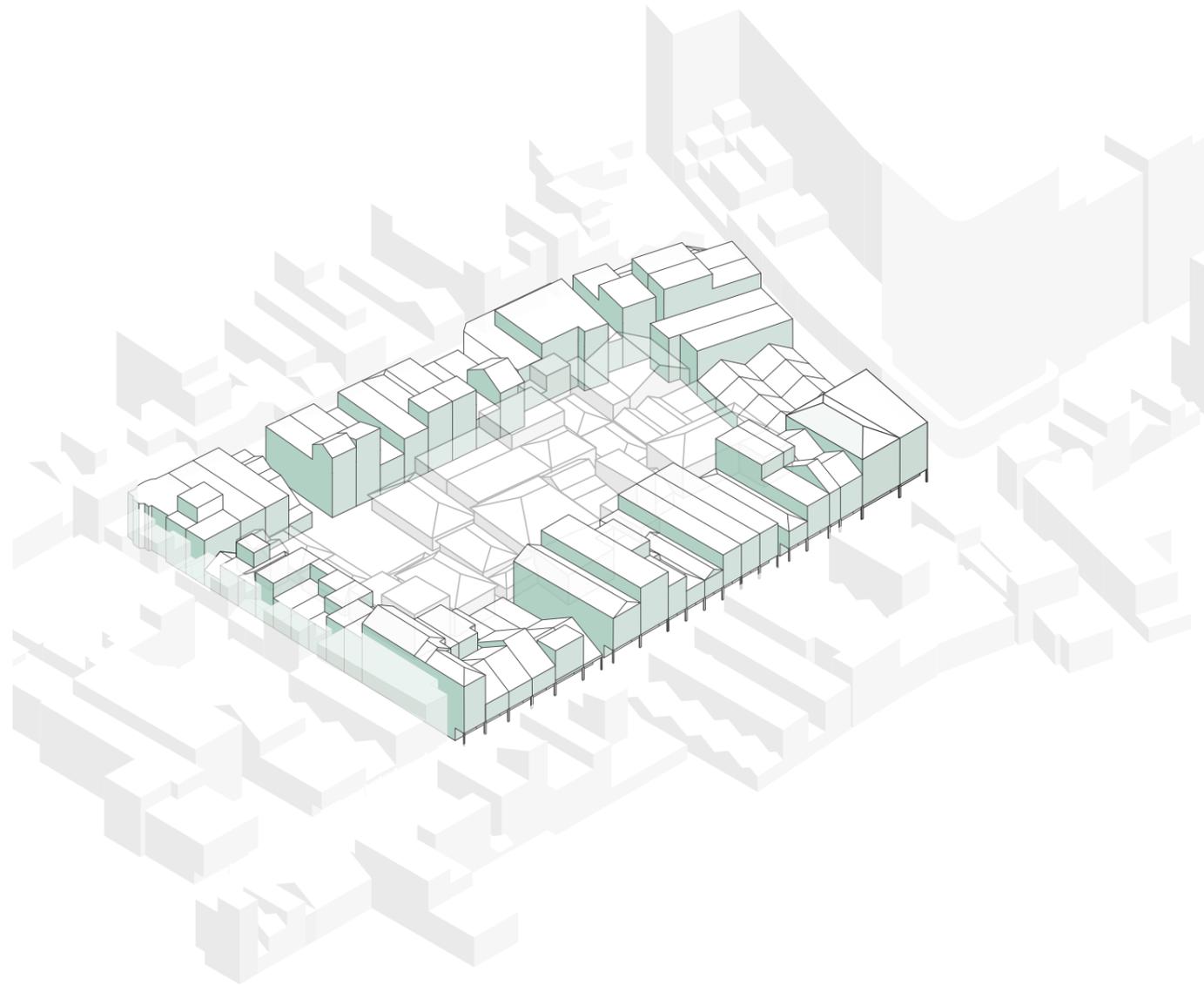
LEGEND

SHOPHOUSE PERIPHERY  
URBAN POCKET



SPATIAL DEVELOPMENT OF THE PASAR BARU AREA

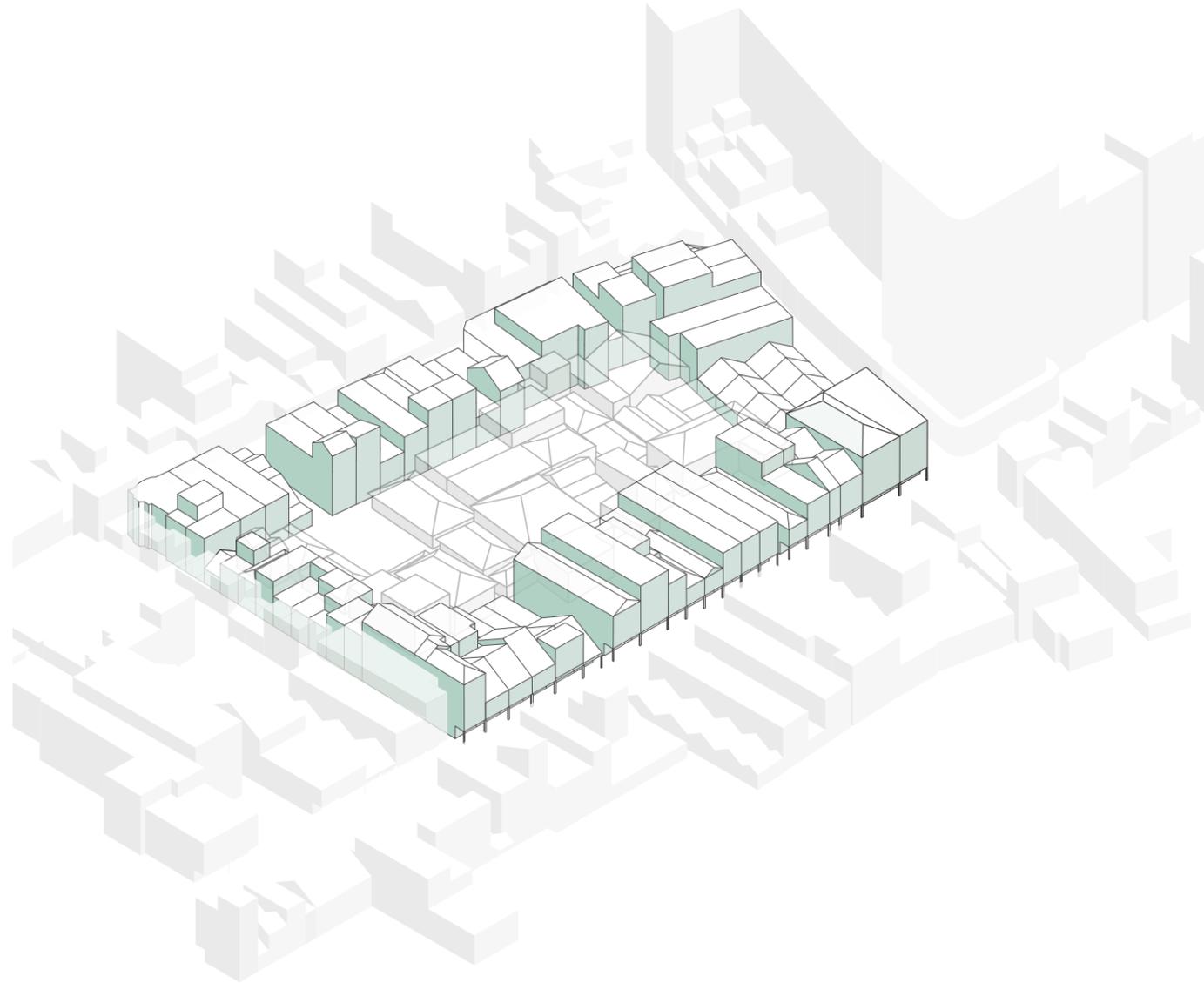
**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



MR. GAGAN -  
SHOPOWNER

THE SHOPOWNER

RESEARCH & ANALYSIS  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



THE PERIPHERY OF THE CITY BLOCK

RESEARCH & ANALYSIS  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



SHOPHOUSE ARCHITECTURE  
IN DECAY



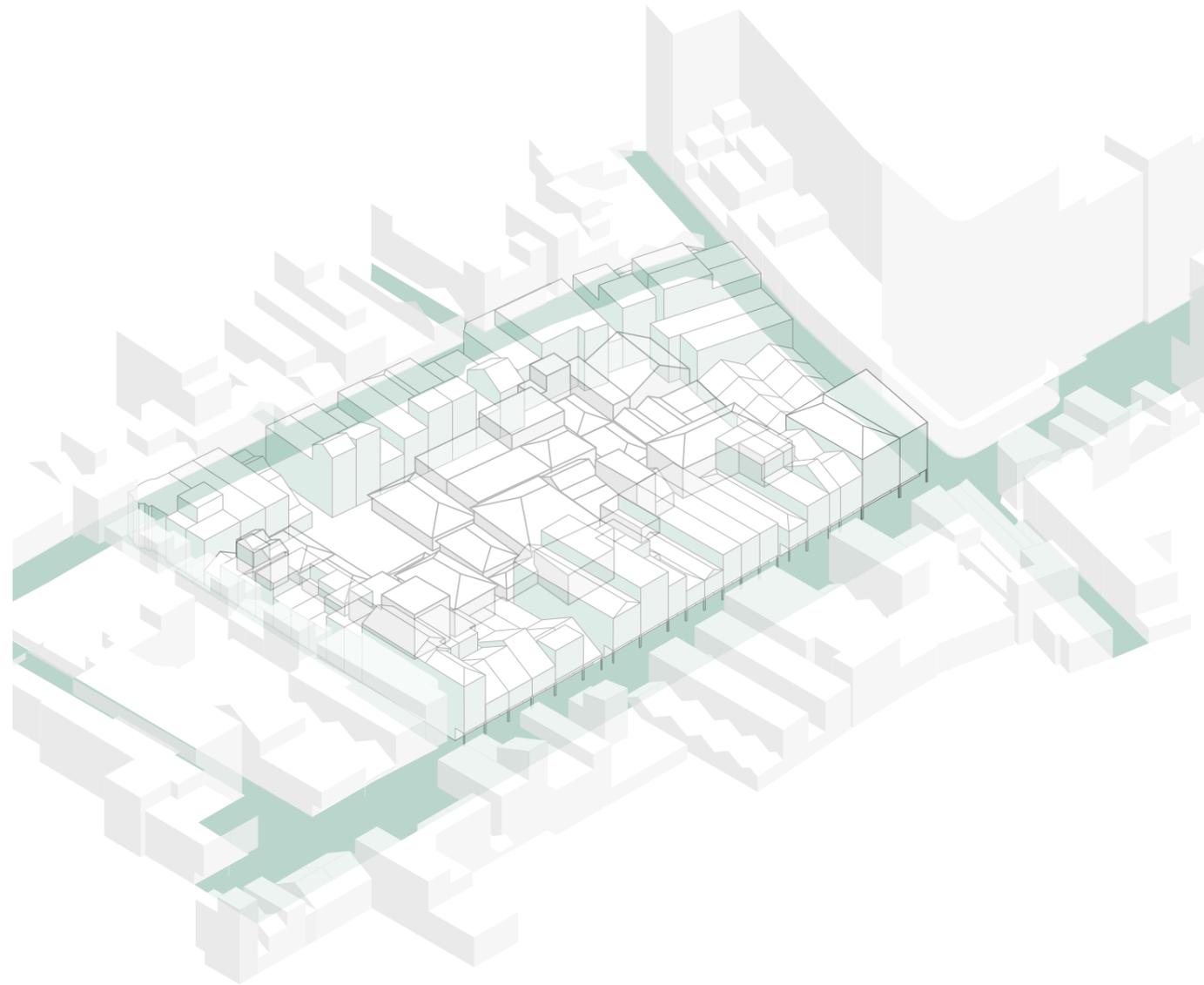
NO PUBLIC GREEN SPACE FOR  
FAMILIES



DENSIFICATION

CHALLENGES & OPPORTUNITIES

RESEARCH & ANALYSIS  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



MR. FIRMAN -  
STREET VENDOR

THE STREET VENDOR

# RESEARCH & ANALYSIS

## PASAR BARU AREA

### CONTEMPORARY CHARACTER



THE PUBLIC REALM IS THEIR WORKINGPLACE



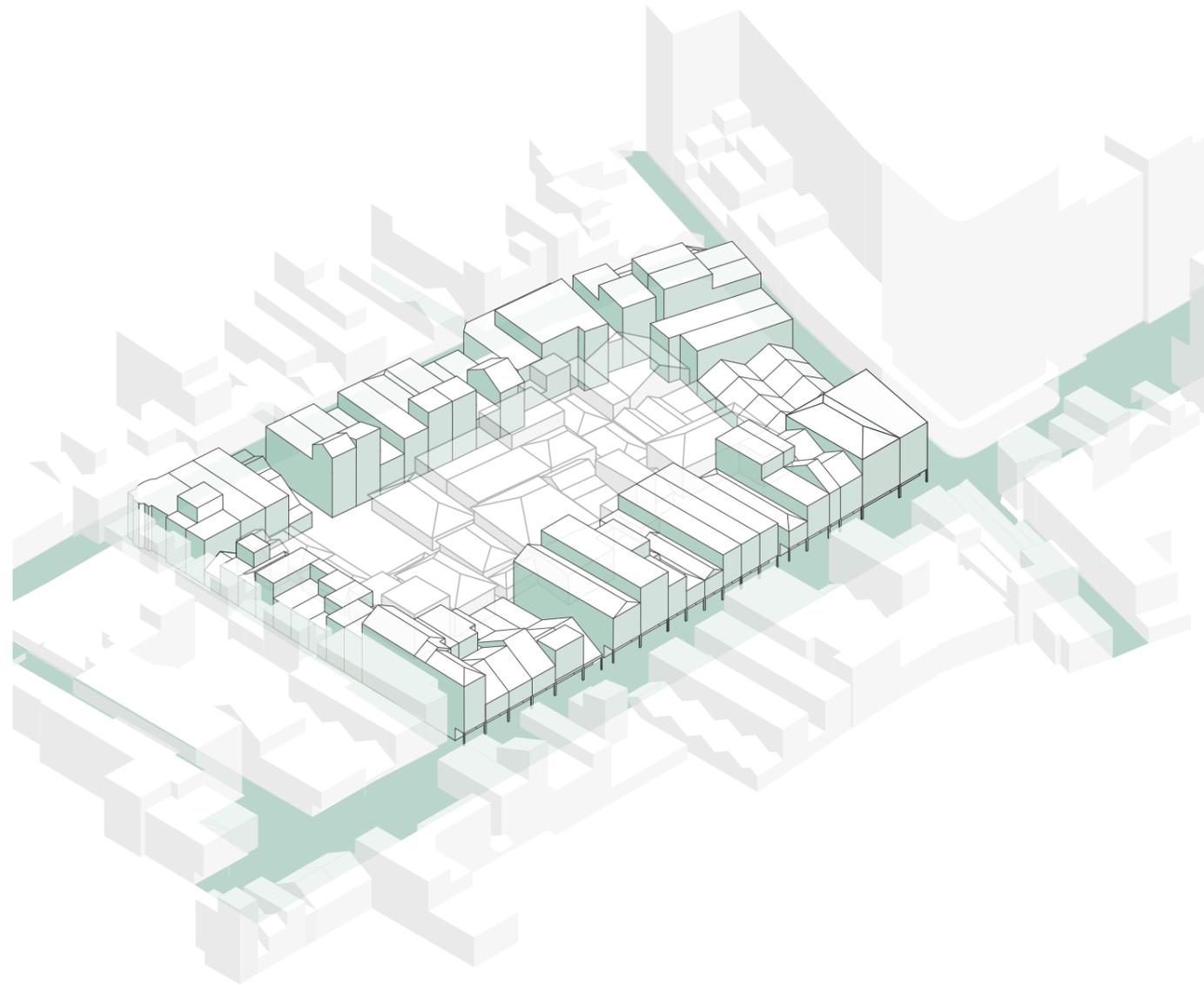
THE STREET ECONOMY OBSTRUCTS THE PUBLIC ENVIRONMENT



DENSIFICATION

CHALLENGES & OPPORTUNITIES

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



MS. KIRANA  
CUSTOMER

THE CUSTOMER

RESEARCH & ANALYSIS  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



SHOPHOUSE ARCHITECTURE  
IN DECAY



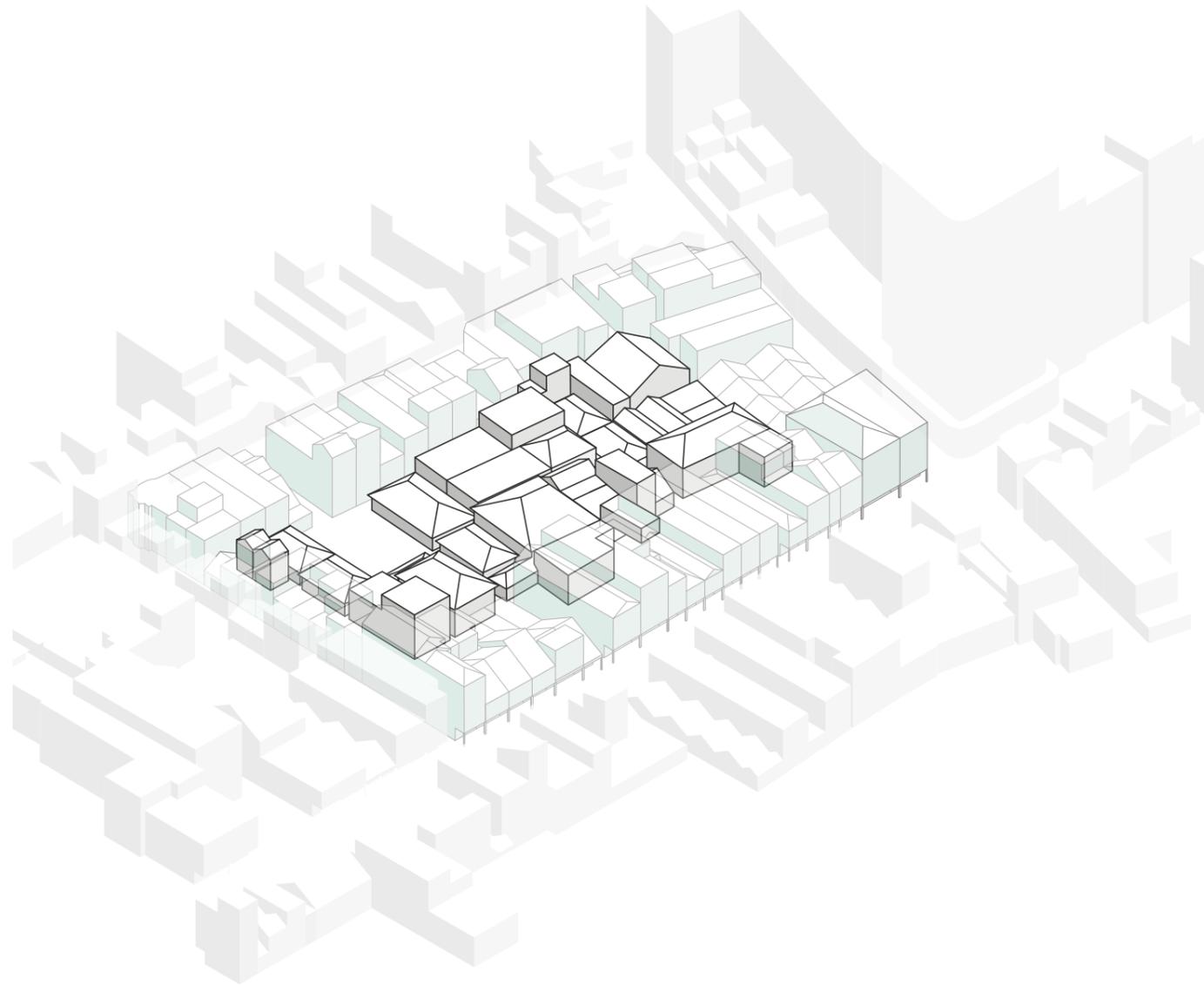
GOOD QUALITY PRODUCTS



TRAFFIC AND STREET VENDORS  
OBSTRUCT THE PUBLIC SPACE

CHALLENGES & OPPORTUNITIES

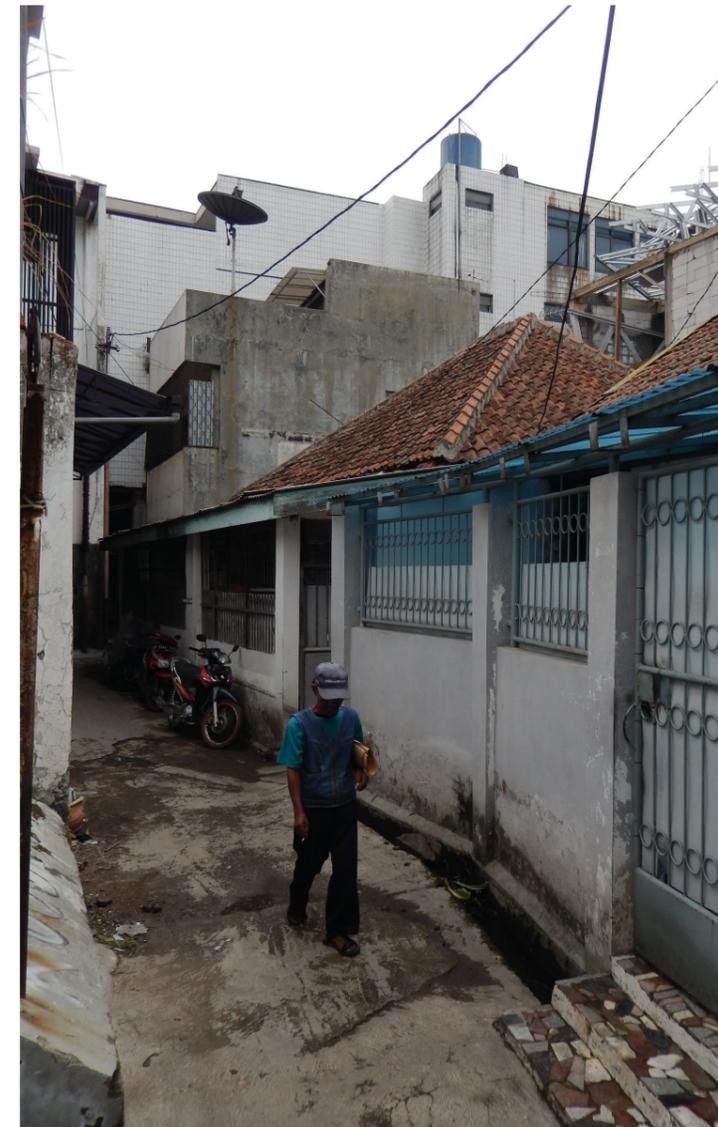
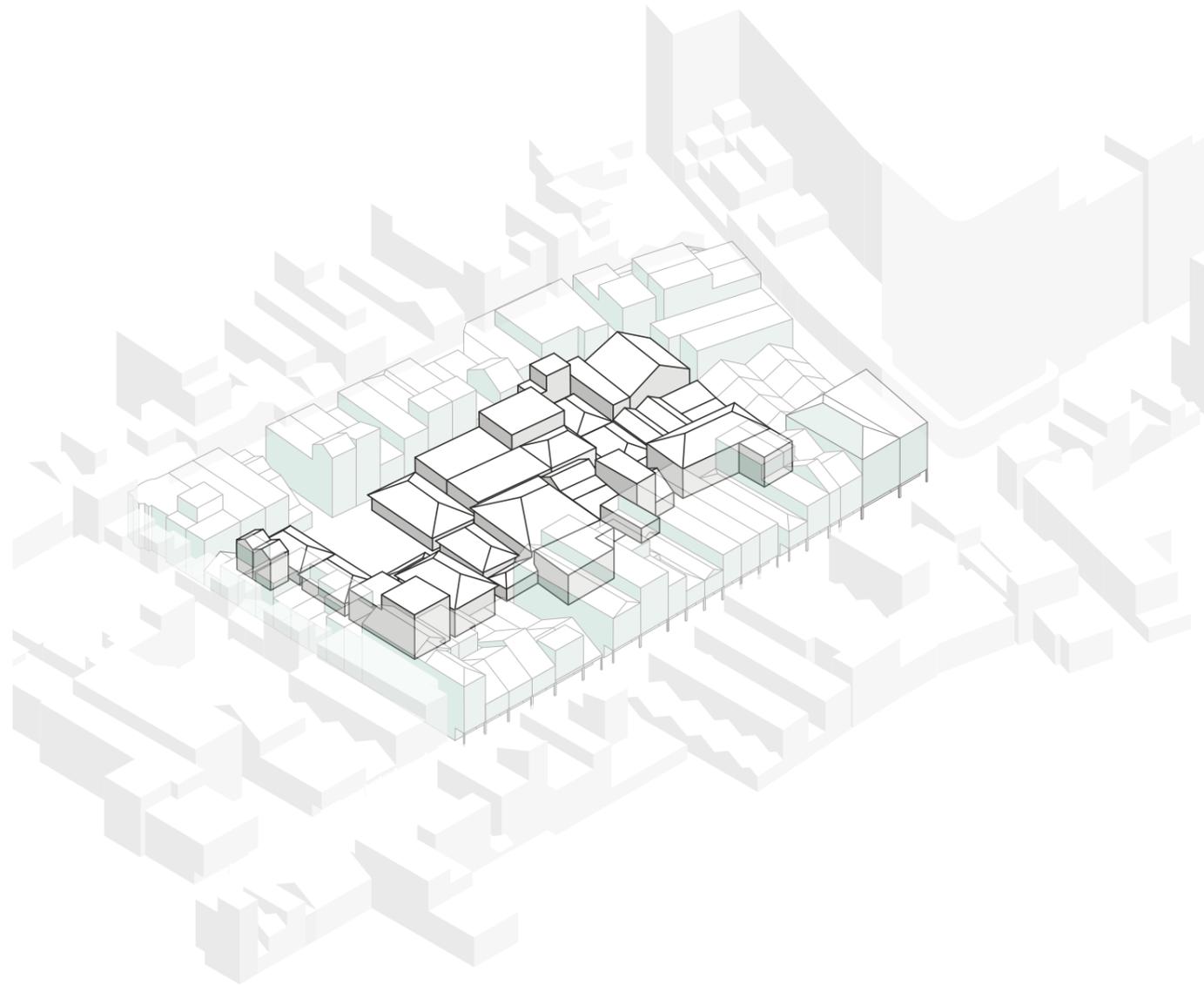
**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



MRS. ENOK  
RESIDENT OF THE  
URBAN POCKET

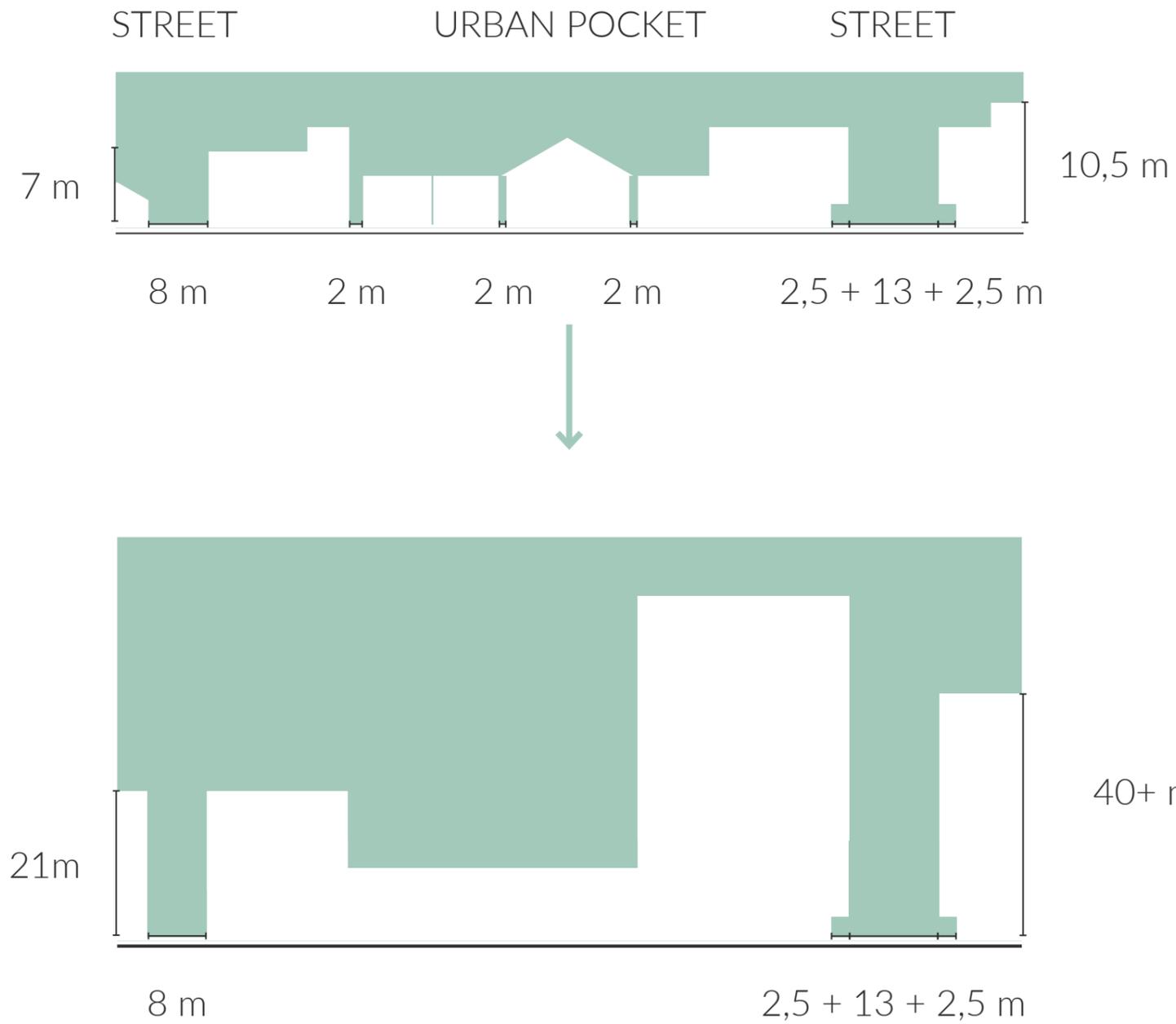
THE URBAN POCKET RESIDENT

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



THE URBAN POCKET

**RESEARCH & ANALYSIS**  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



CHALLENGES & OPPORTUNITIES

RESEARCH & ANALYSIS  
PASAR BARU AREA  
CONTEMPORARY CHARACTER



USE OF PUBLIC SPACE BY THE  
COMMUNITY



STONE ENVIRONMENT



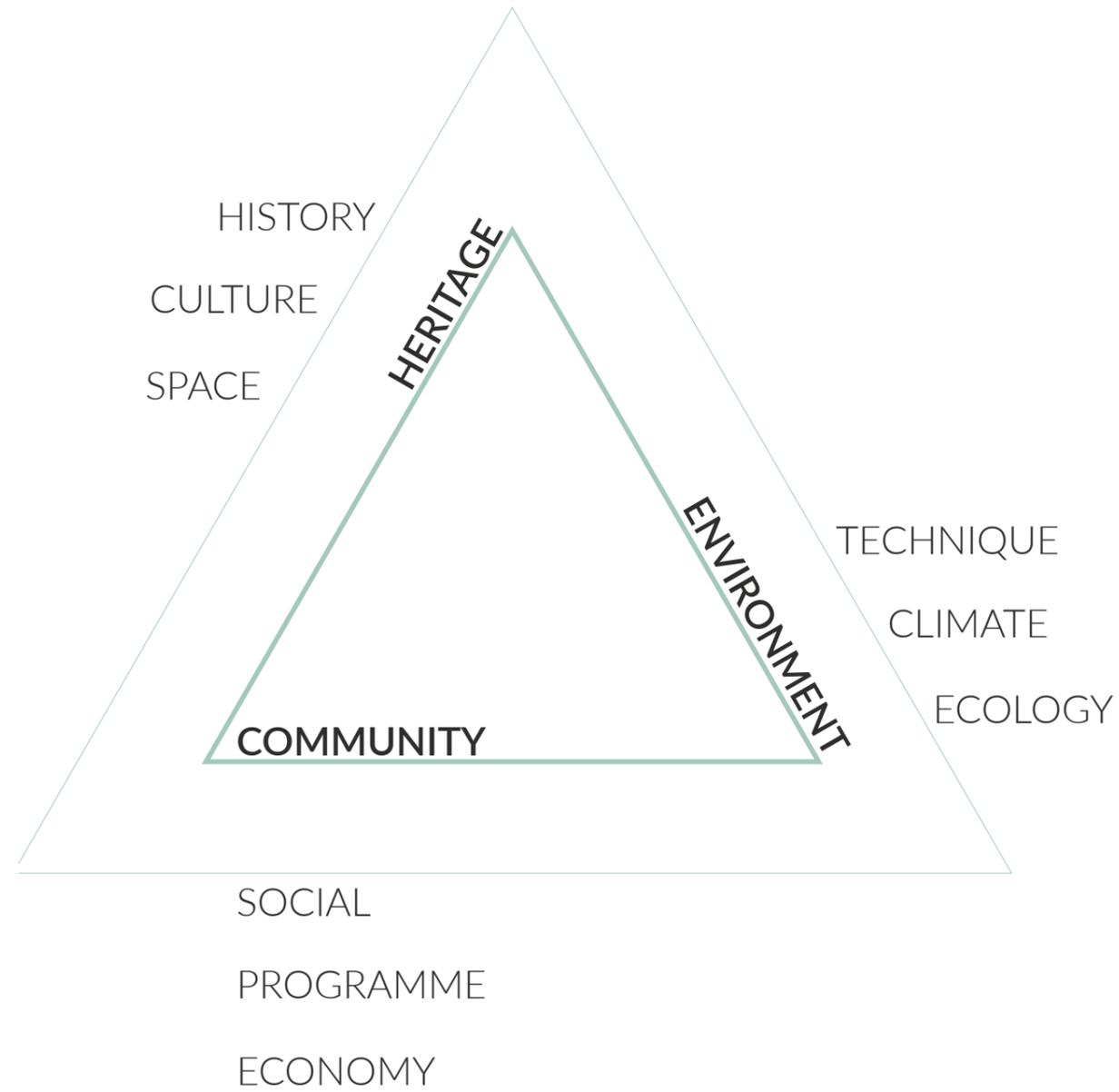
DISCONNECTION BETWEEN  
THE URBAN POCKET AND THE  
SHOPHOUSES

CHALLENGES & OPPORTUNITIES

# RESEARCH & ANALYSIS

## CONCLUSIONS

HERITAGE, COMMUNITY & ENVIRONMENT



CONCLUSION

## RESEARCH & ANALYSIS

CONCLUSIONS

PROBLEMSTATEMENT

### PROBLEM STATEMENT

THE VALUES OF **THE HERITAGE, THE COMMUNITY AND THE ENVIRONMENT** OF THE PASAR BARU AREA ARE IN **DECAY**, CAUSED BY THE **TYOLOGICAL SHIFT** FROM A MULTIFUNCTIONAL SHOPPING AND RESIDENTIAL TYPOLOGY TO A MONOFUNCTIONAL COMMERCIAL TYPOLOGY, GENERATED BY THE PRESSURE OF **EXPANDING COMMERCIAL ACTIVITIES**, AN **OVERCROWDED** PUBLIC SPACE, **POLLUTION**, UNBALANCED **DENSIFICATION** AND THE POOR QUALITY OF THE **ARCHITECTURE**

# THEMATIC RESEARCH



## RESEARCH & ANALYSIS

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BANDUNG

PASAR BARU



## THEMATIC RESEARCH

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FASCINATION

STRUCTURE

QUESTION

RESULTS

CONSLUSION



## DESIGN

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QUESTION & OBJECTIVE

URBAN GUIDELINES

IMPLEMENTATION

CONCLUSION

REFLECTION

# THEMATIC RESEARCH

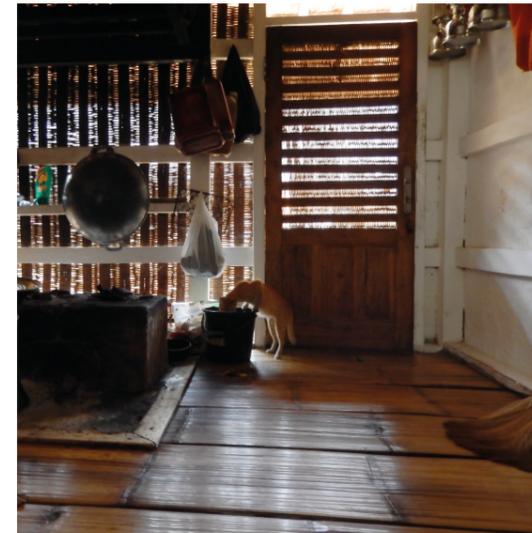
## FASCINATION



PROBLEM IN THE PASAR BARU AREA

# THEMATIC RESEARCH

## FASCINATION



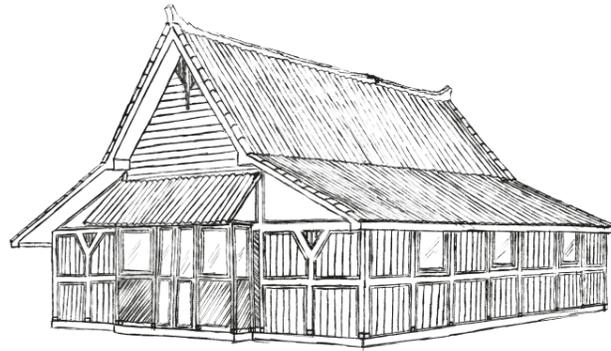
# THEMATIC RESEARCH

## RESEARCH STRUCTURE

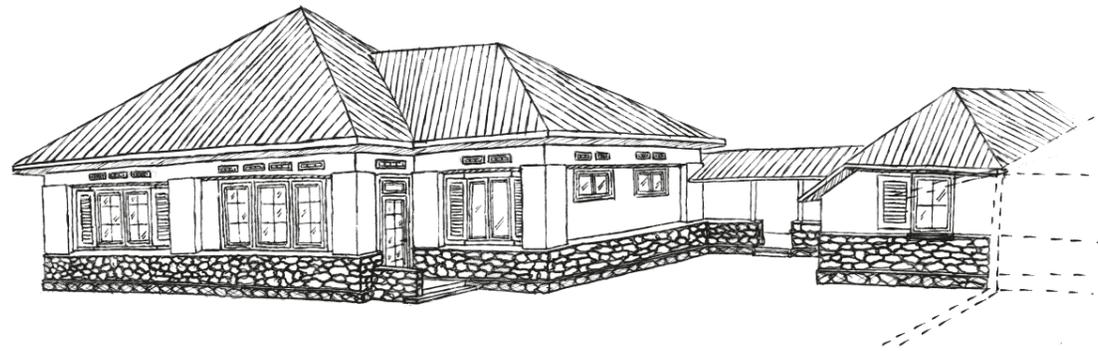
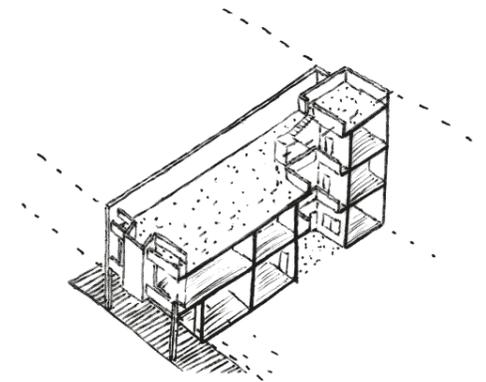
SUNDANESE  
VERNACULAR  
ARCHITECTURE



COLONIAL  
ARCHITECTURE



CONTEMPORARY  
SHOPHOUSE  
ARCHITECTURE



RESERACH STRUCTURE

## THEMATIC RESEARCH RESEARCH QUESTION

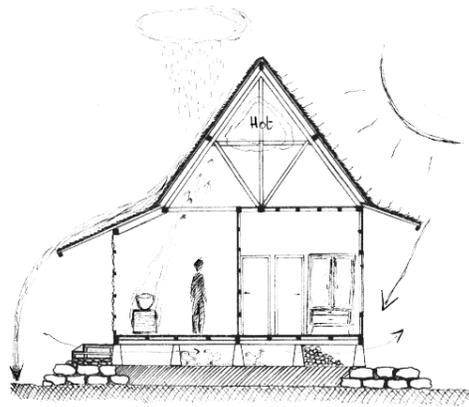
### RESEARCH QUESTION

WHICH UNDERLYING CULTURAL, MATERIAL AND TECHNOLOGICAL BUILDING PRINCIPLES CAN BE DERIVED FROM A HISTORICAL UNDERSTANDING OF THE RESIDENTIAL BUILDING CULTURE ON WEST-JAVA AND HOW CAN AN UNDERSTANDING OF THOSE CONTRIBUTE TO THE ESTHABLISHMENT OF PRINCIPLES FOR A CONTEMPORARY LOCALLY FOUNDED RESIDENTIAL ARCHITECTURE?

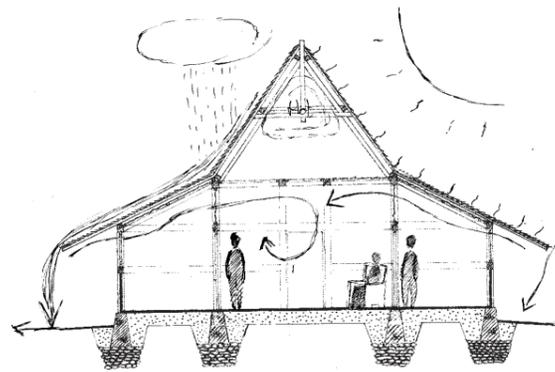
# THEMATIC RESEARCH

## RESEARCH RESULTS

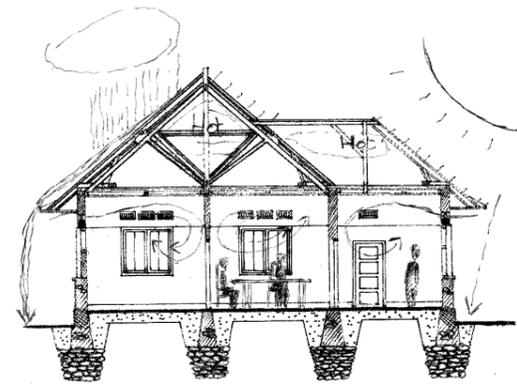
VERNACULAR



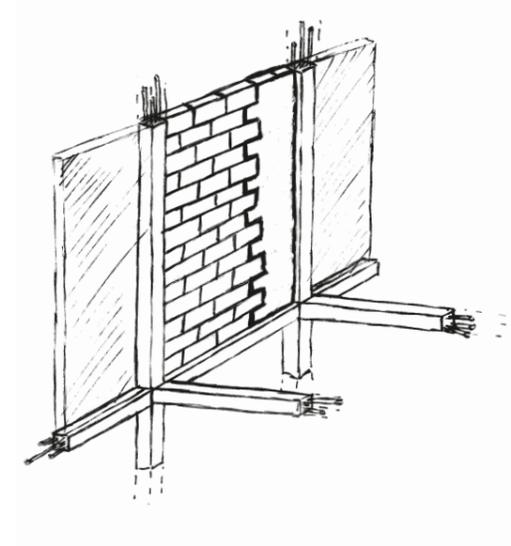
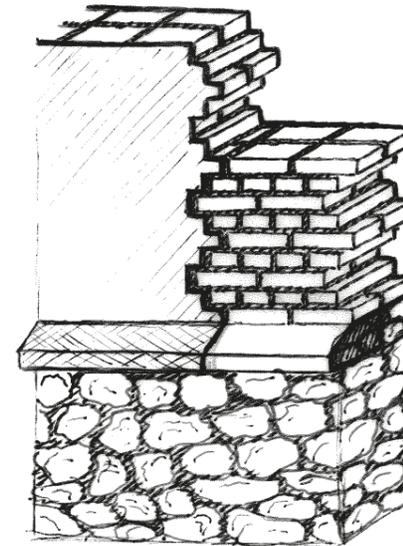
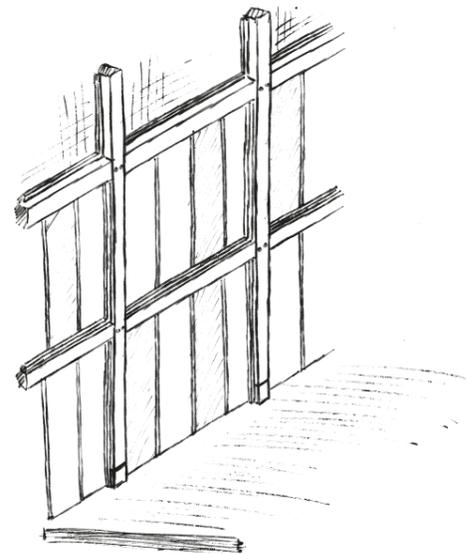
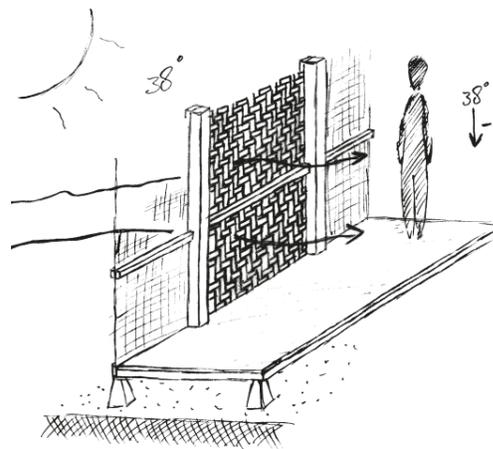
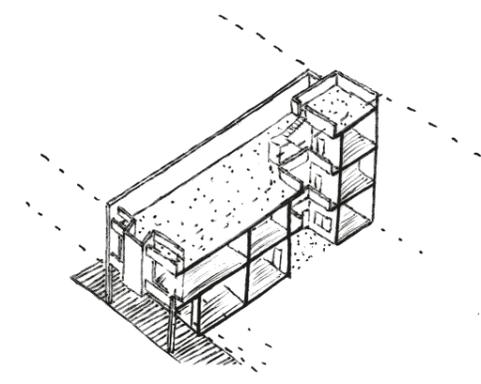
COLONIAL  
NATIVE HOUSING



COLONIAL  
EUROPEAN HOUSING



CONTEMPORARY  
SHOPHOUSE

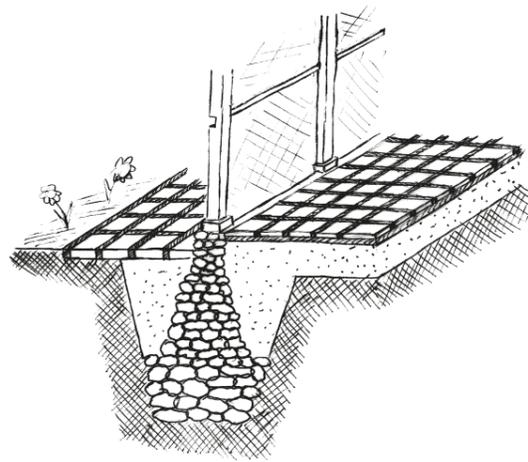
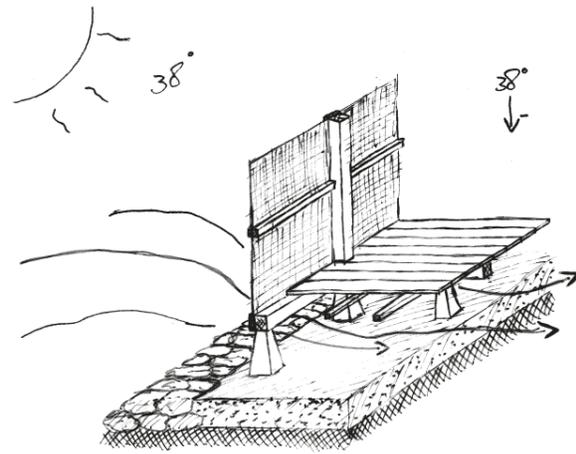


HISTORICAL DEVELOPMENTS

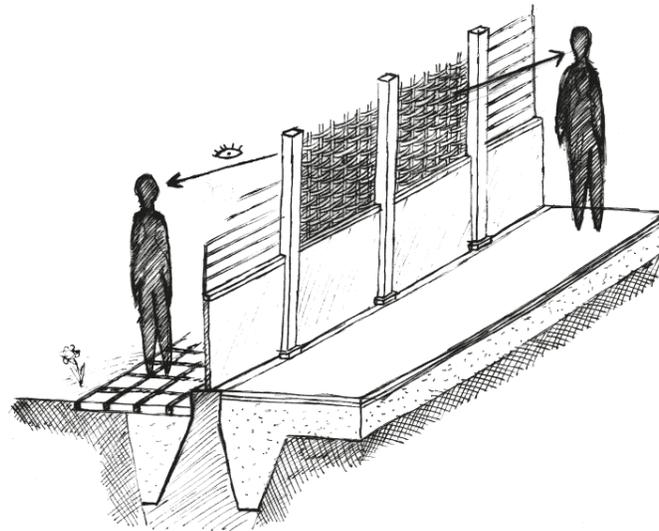
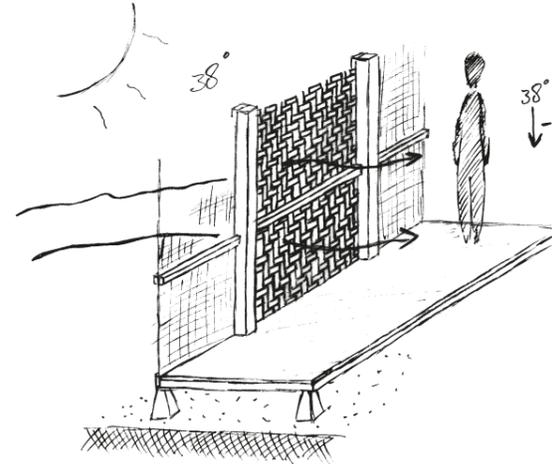
# THEMATIC RESEARCH

## RESEARCH RESULTS

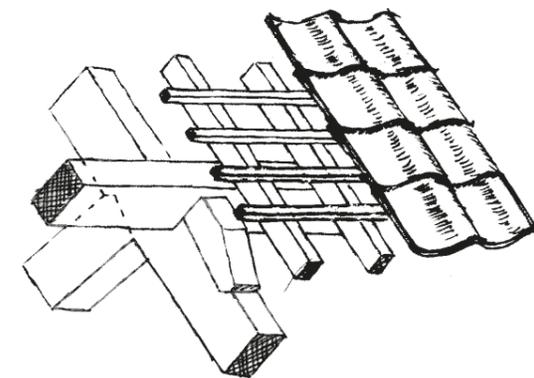
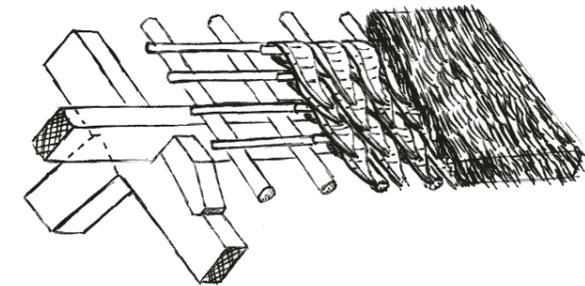
FOUNDATION & FLOOR



WALL



ROOF

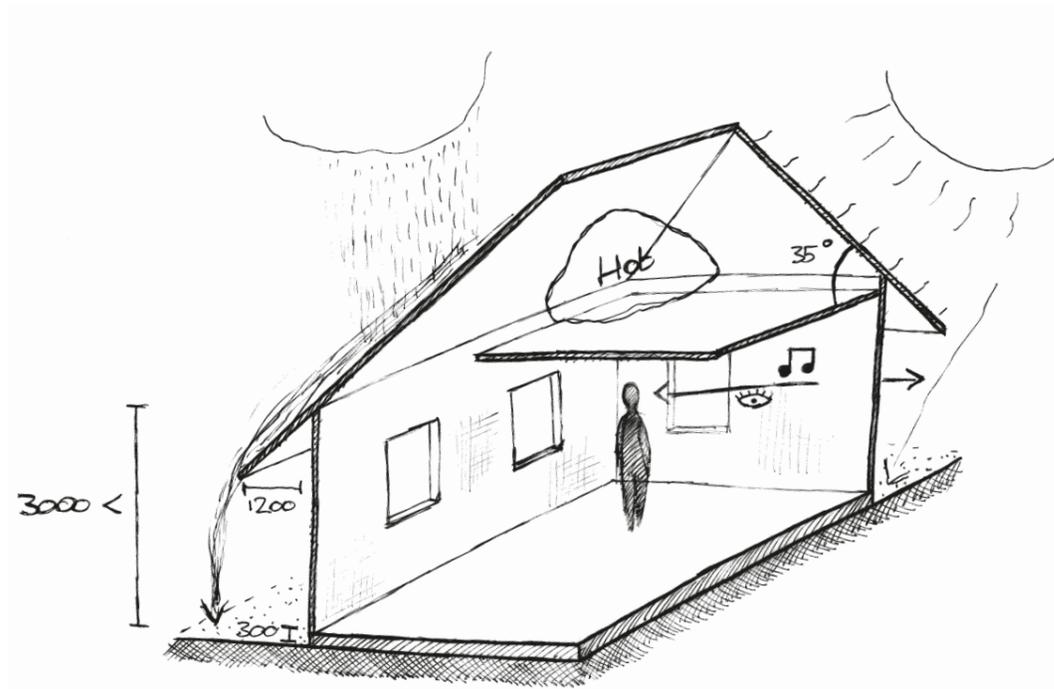


CONCLUSIONS FUTURE PRINCIPLES

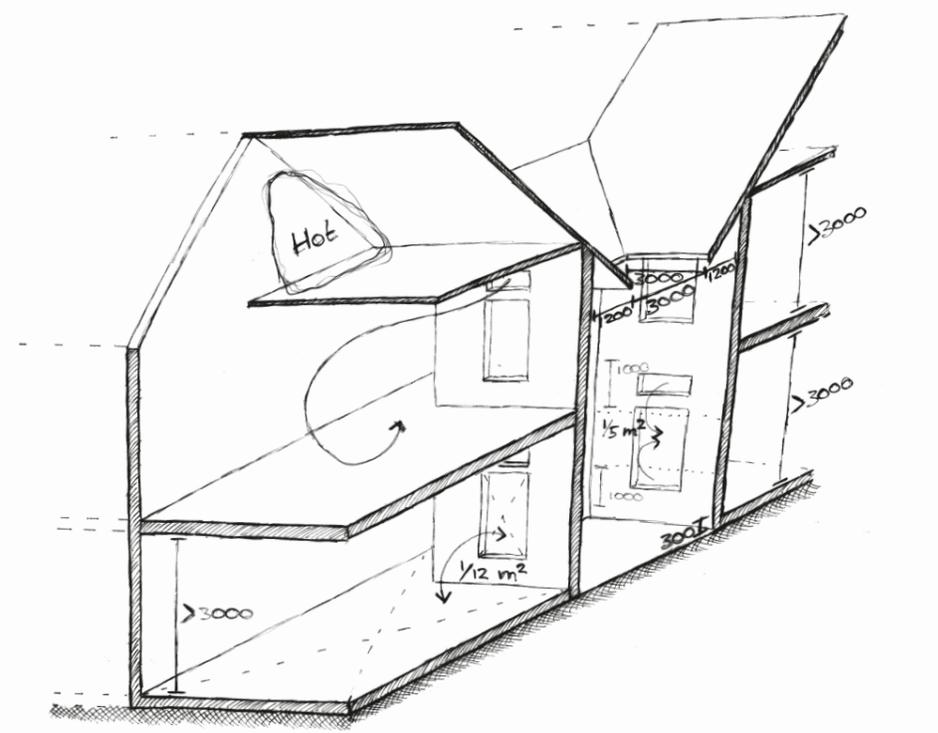
# RESEARCH & ANALYSIS

## CONCLUSION

SINGLE HOUSE -  
LIGHTWEIGHT BUILDING  
METHOD



TERRACED HOUSE -  
STONE BUILDING METHODS



CONCLUSIONS FUTURE PRINCIPLES

# DESIGN



## RESEARCH & ANALYSIS

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BANDUNG

PASAR BARU



## THEMATIC RESEARCH

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FASCINATION

STRUCTURE

QUESTION

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CONSLUSION



## DESIGN

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QUESTION & OBJECTIVE

URBAN GUIDELINES

IMPLEMENTATION

CONCLUSION

REFLECTION

## DESIGN

### QUESTION & OBJECTIVE

#### OBJECTIVE

THE OBJECTIVE IS TO **REVITALISE THE VALUES OF HERITAGE, COMMUNITY AND ENVIRONMENT**, THROUGH THE DEVELOPMENT OF AN **URBAN AND ARCHITECTURAL STRATEGY**, BASED ON **NEW LIVE-AND-WORK TYPOLOGIES** FOR THE PASAR BARU AREA, IN ORDER TO CREATE A **PLEASANT INNER-CITY LIVE-AND-WORK ENVIRONMENT** AND TO STOP THE PROCESS OF DECAY

#### DESIGN QUESTION

HOW CAN THE **DESIGN OF NEW INNER-CITY LIVE-WORK TYPOLOGIES** FOCUSED ON THE VALUES OF HERITAGE, COMMUNITY AND ENVIRONMENT CREATE A **PLEASANT INNER-CITY LIVE-AND-WORK ENVIRONMENT** AND TO STOP THE PROCESS OF DECAY IN THE PASAR BARU AREA?

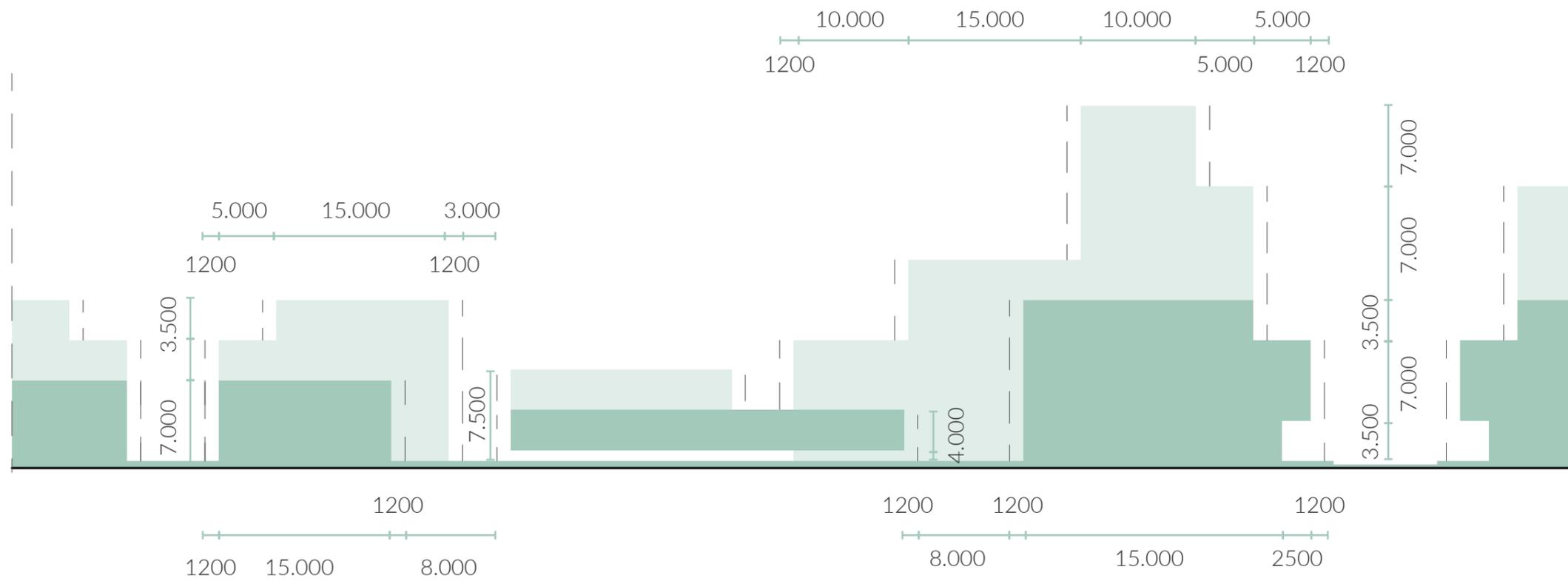
# DESIGN

## URBAN GUIDELINES BUILDING ENVELOPE

SHOPPING STREET

URBAN POCKET

ARCADE  
BOULEVARD



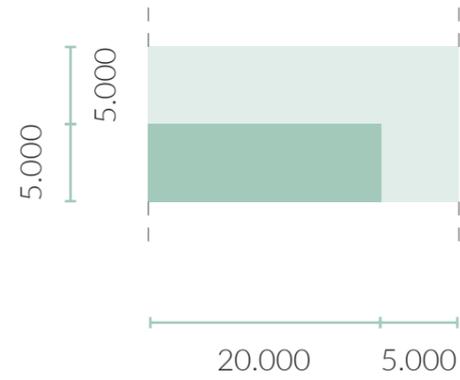
■ MIN. VOLUME  
■ MAX. VOLUME

URBAN GUIDELINES FOR THE DENSIFICATION IN SECTION

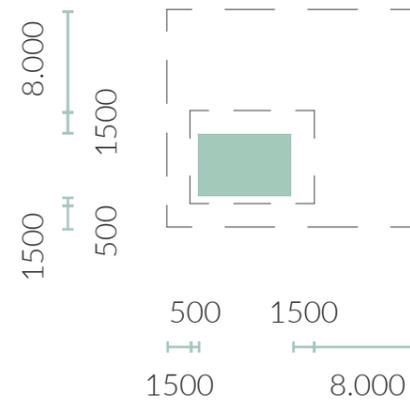
# DESIGN

## URBAN GUIDELINES BUILDING ENVELOPE

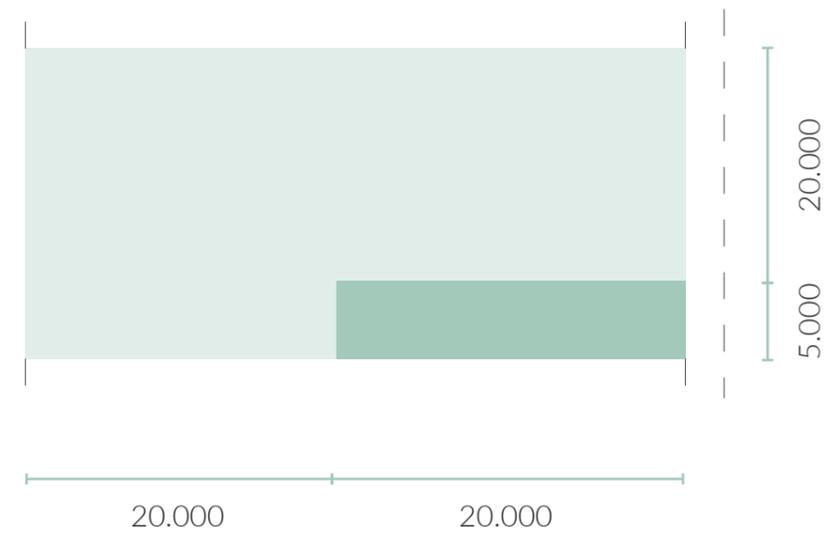
SHOPPING STREET



URBAN POCKET



ARCADE  
BOULEVARD



TERRACED BUILDING

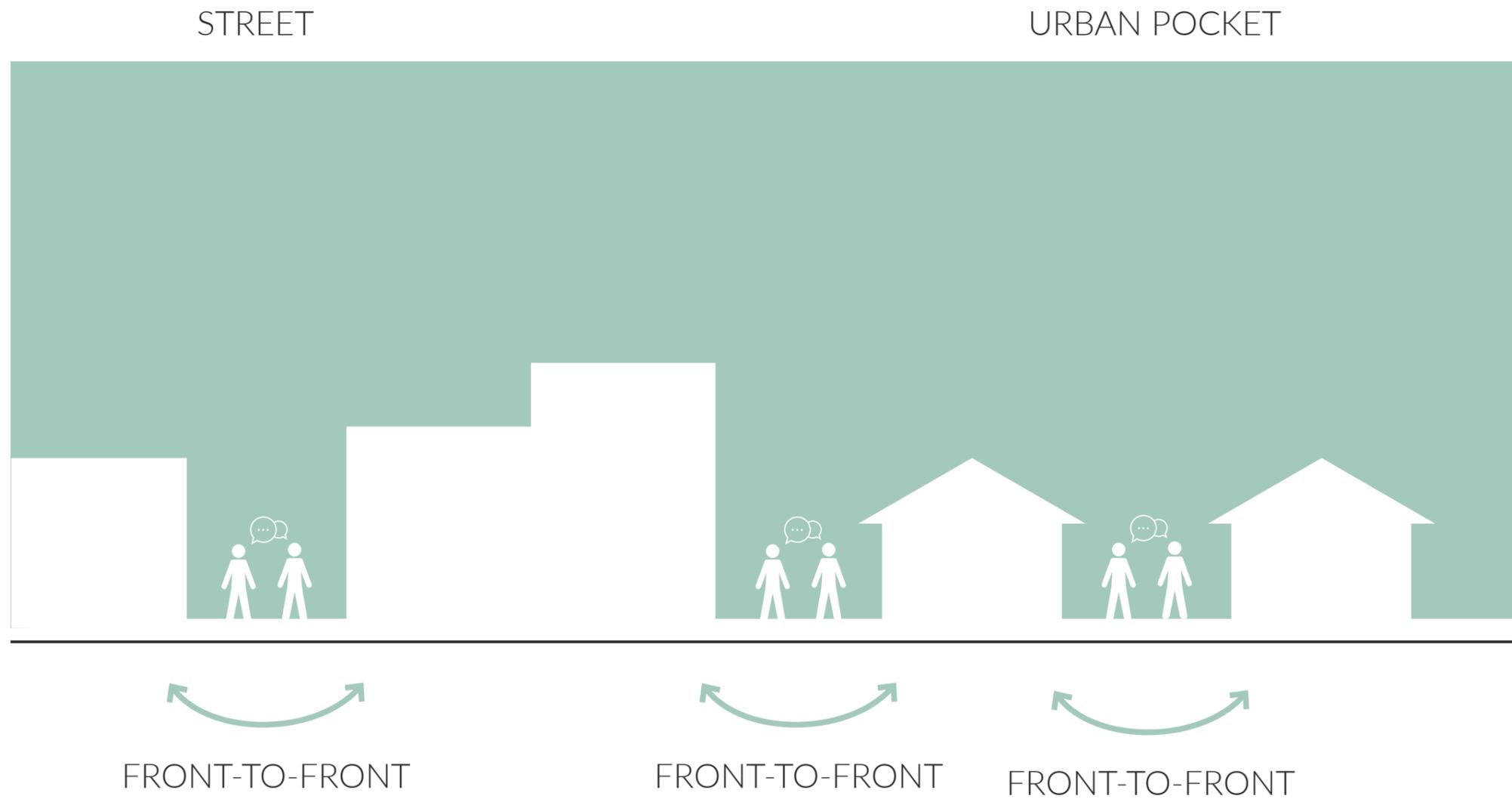


SINGLE  
HOUSE,  
MIN. 24 M<sup>2</sup>

TERRACED  
BUILDING

# DESIGN

## URBAN GUIDELINES SOCIAL INTERACTION



DESIGN FRONT-TO-FRONT TYPOLOGIES AND STIMULATE SOCIAL INTERACTION

## DESIGN

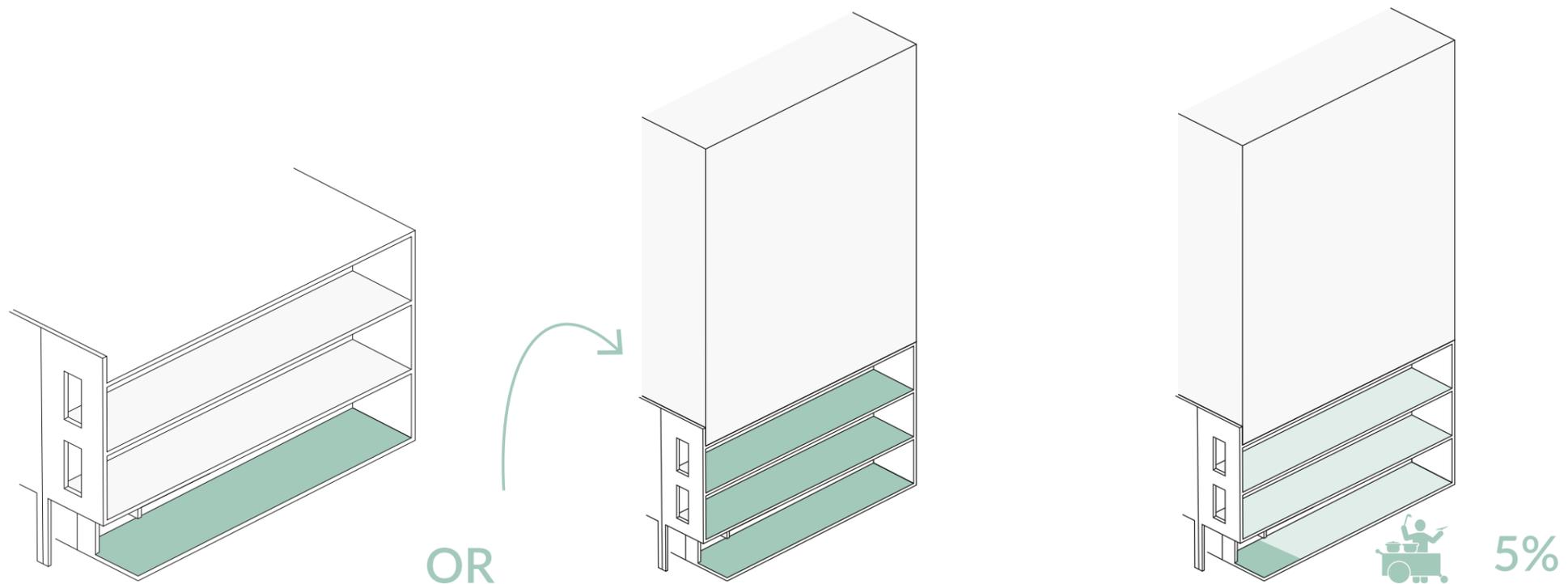
### URBAN GUIDELINES

#### COMMERCIAL & RESIDENTIAL FUNCTIONS

1. 50% HOUSING & 50% RETAIL  
AT THE STREET SIDE

2. 100% HOUSING IN THE  
URBAN POCKET

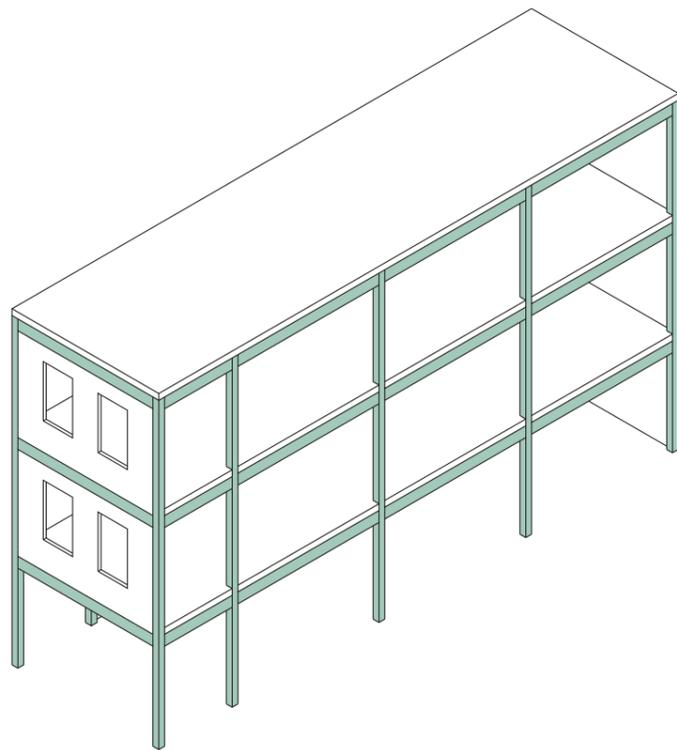
3. CREATE SPACE FOR STREET  
VENDORS



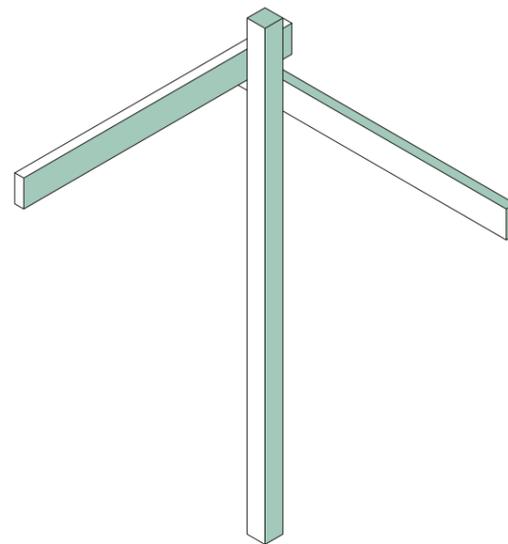
## DESIGN

### URBAN GUIDELINES TECHNIQUE & CLIMATE

1. MAINTAIN EXISTING  
STRUCTURES



2. CONSTRUCT SIMPLE,  
BUT ARCHITECTONICALLY  
EXPRESSIVE STRUCTURES



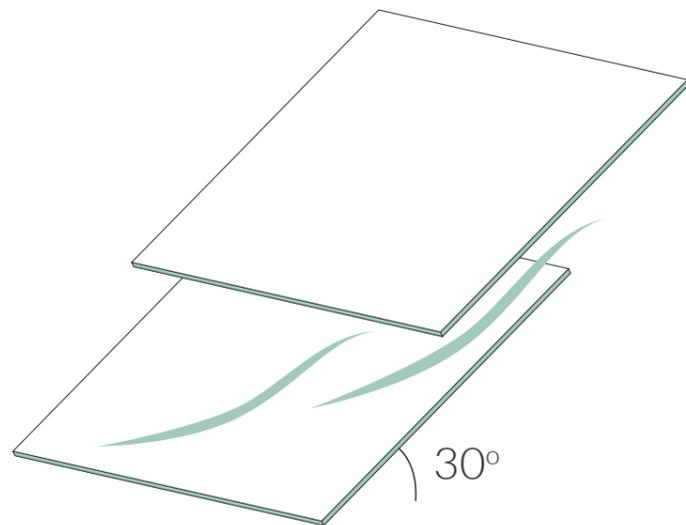
3. USE NATURAL BUILDING  
MATERIALS



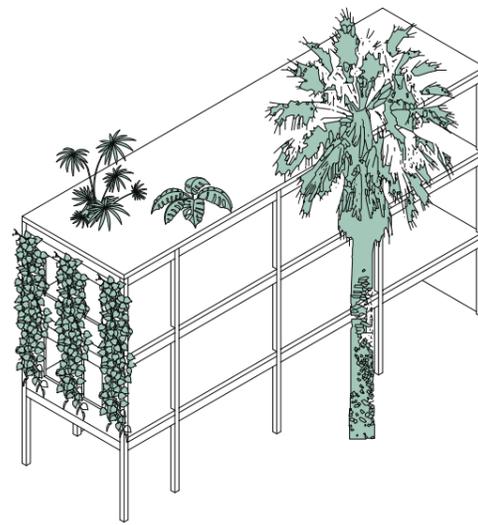
## DESIGN

### URBAN GUIDELINES TECHNIQUE & CLIMATE

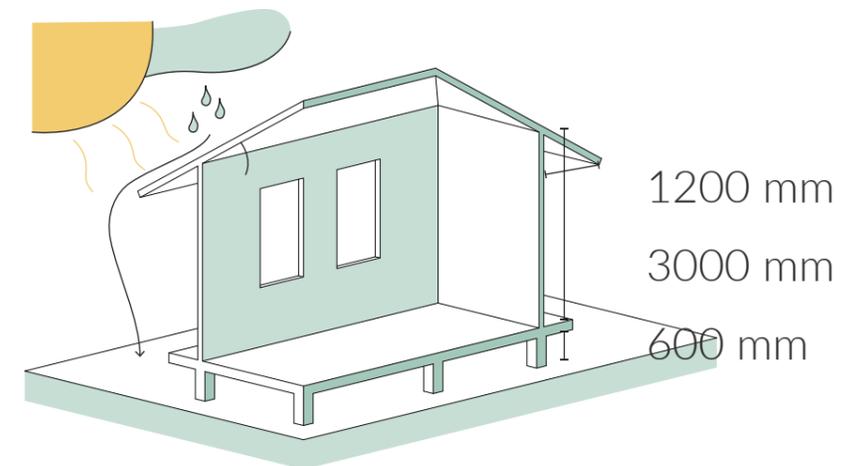
1. THE ROOF SHOULD  
STIMULATE NATURAL  
VENTILATION



2. IMPLEMENT PLANTS AND  
GRASSES INTO THE SKIN OF  
THE BUILDING AND THE PUB-  
LIC SPACES



3. APPLY MINIMUM SIZES TO  
CREATE A HEALTHY INDOOR  
ENVIRONMENT



DESIGN  
IMPLEMENTATION



3D SECTION OF THE DESIGN

**DESIGN**  
IMPLEMENTATION  
MR. GAGAN



MR. GAGAN -  
SHOPOWNER



MR. FIRMAN -  
STREET VENDOR



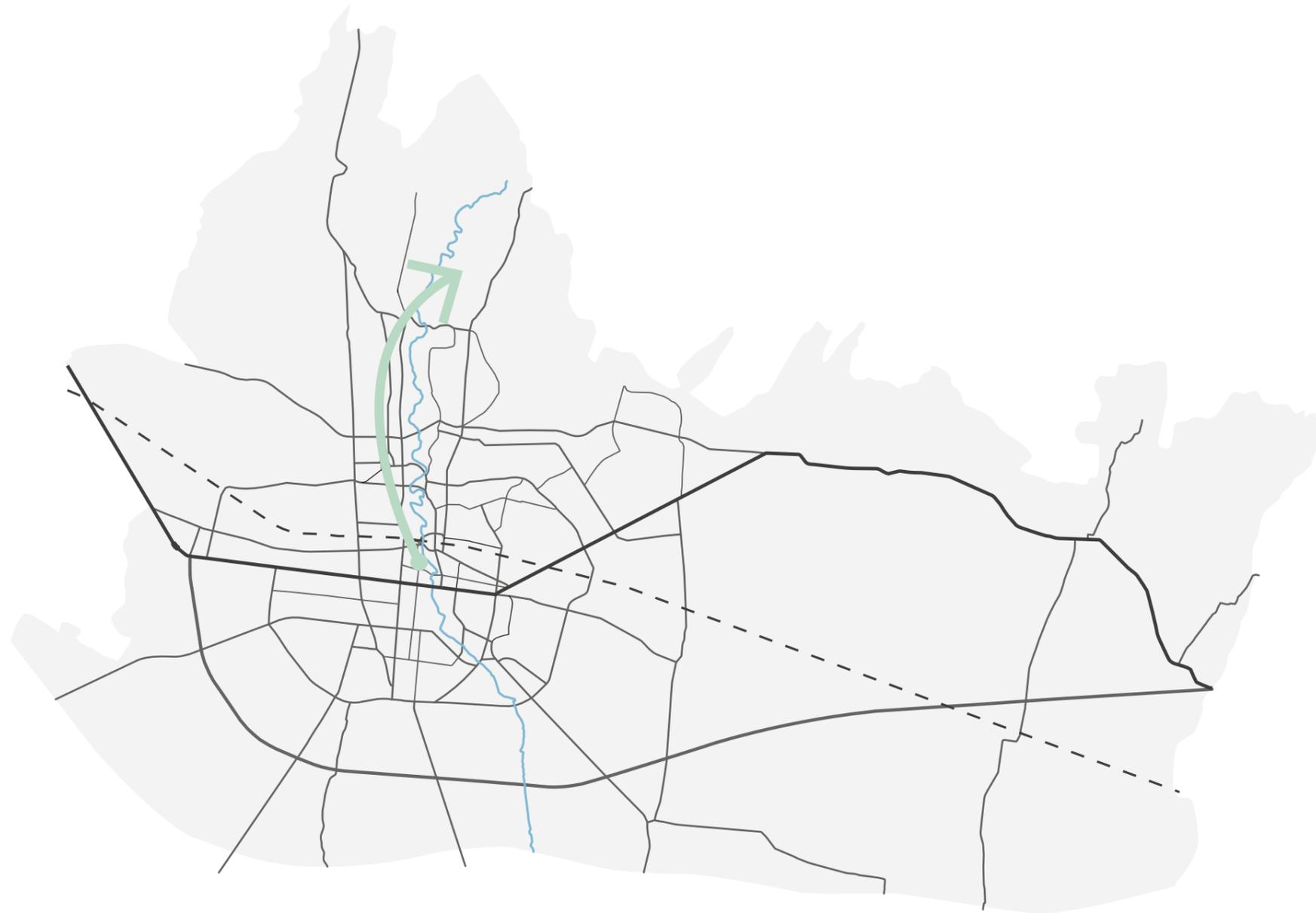
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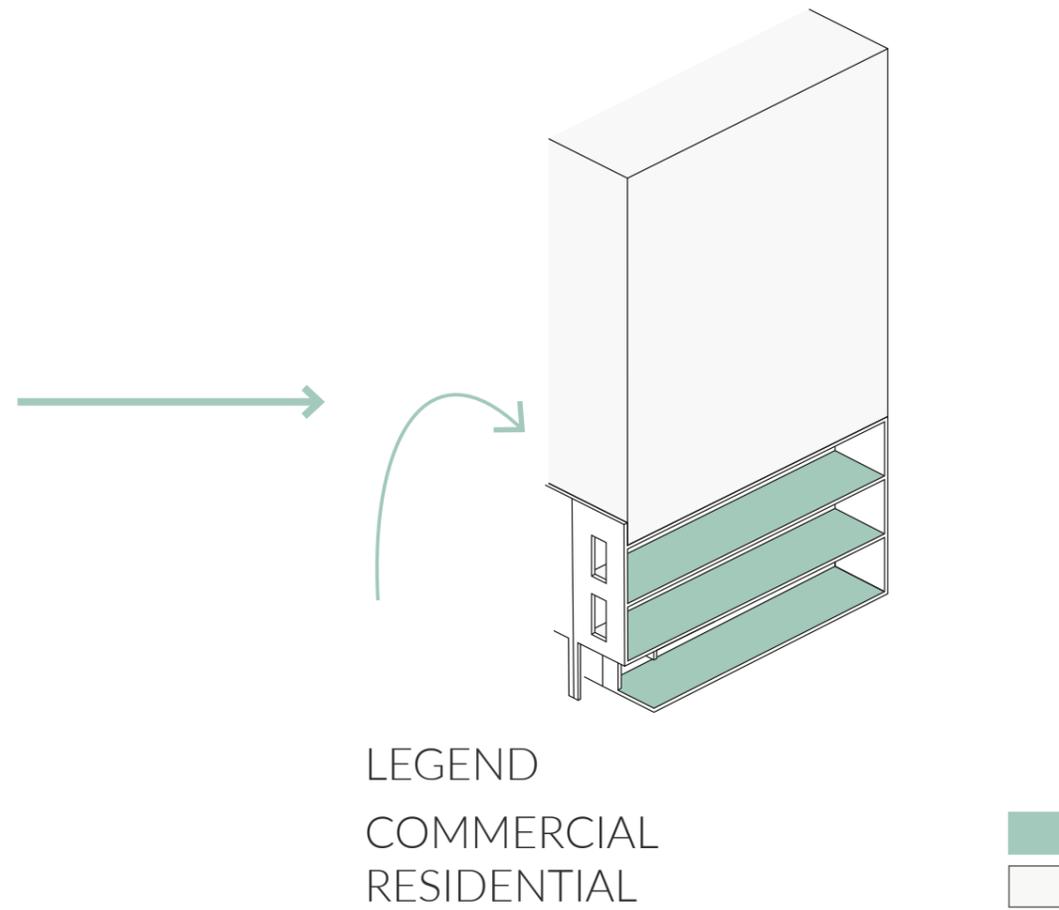
FROM THE PERSPECTIVE OF MR. GAGAN

DESIGN  
IMPLEMENTATION  
MR. GAGAN



MR. GAGAN LEAVES THE PASAR BARU AREA

DESIGN  
IMPLEMENTATION  
MR. GAGAN

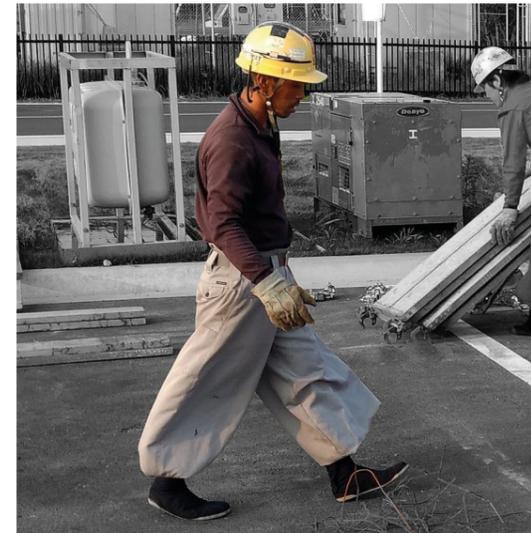


INVESTMENT IN APARTMENTS

DESIGN  
IMPLEMENTATION  
LATIFAH & MR. JOKO



LATIFAH -  
RECENTLY GRADUATED  
FROM UNIVERSITY



MR. JOKO -  
LABOUR IMMIGRANT

NEW INHABITANTS OF THE PASAR BARU AREA

## DESIGN

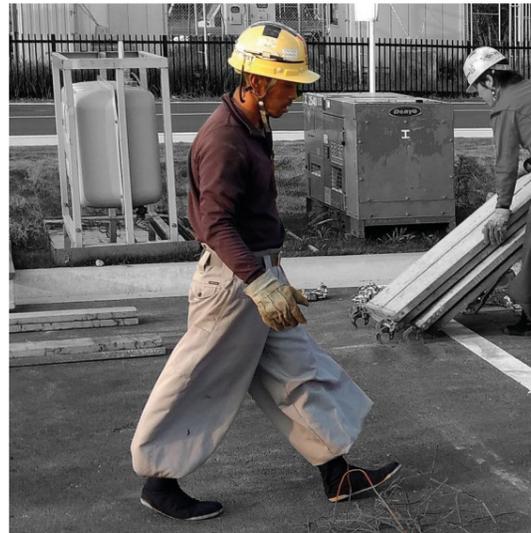
## IMPLEMENTATION

LATIFAH & MR. JOKO



LATIFAH

APARTMENT IN THE CITY  
CENTRE, WHERE SHE  
CAN RAISE A FAMILY



MR. JOKO

SMALL HOUSING  
CLOSE TO HIS  
WORK



MR. FIRMAN

SPACE FOR  
STREET VENDING



MR. GAGAN

MAINTAIN THE  
SHOP

THE INHABITANTS AND THEIR PREFERENCES

DESIGN  
IMPLEMENTATION  
THE MINI-MARKET



3D SECTION OF THE MINI-MARKET

# DESIGN

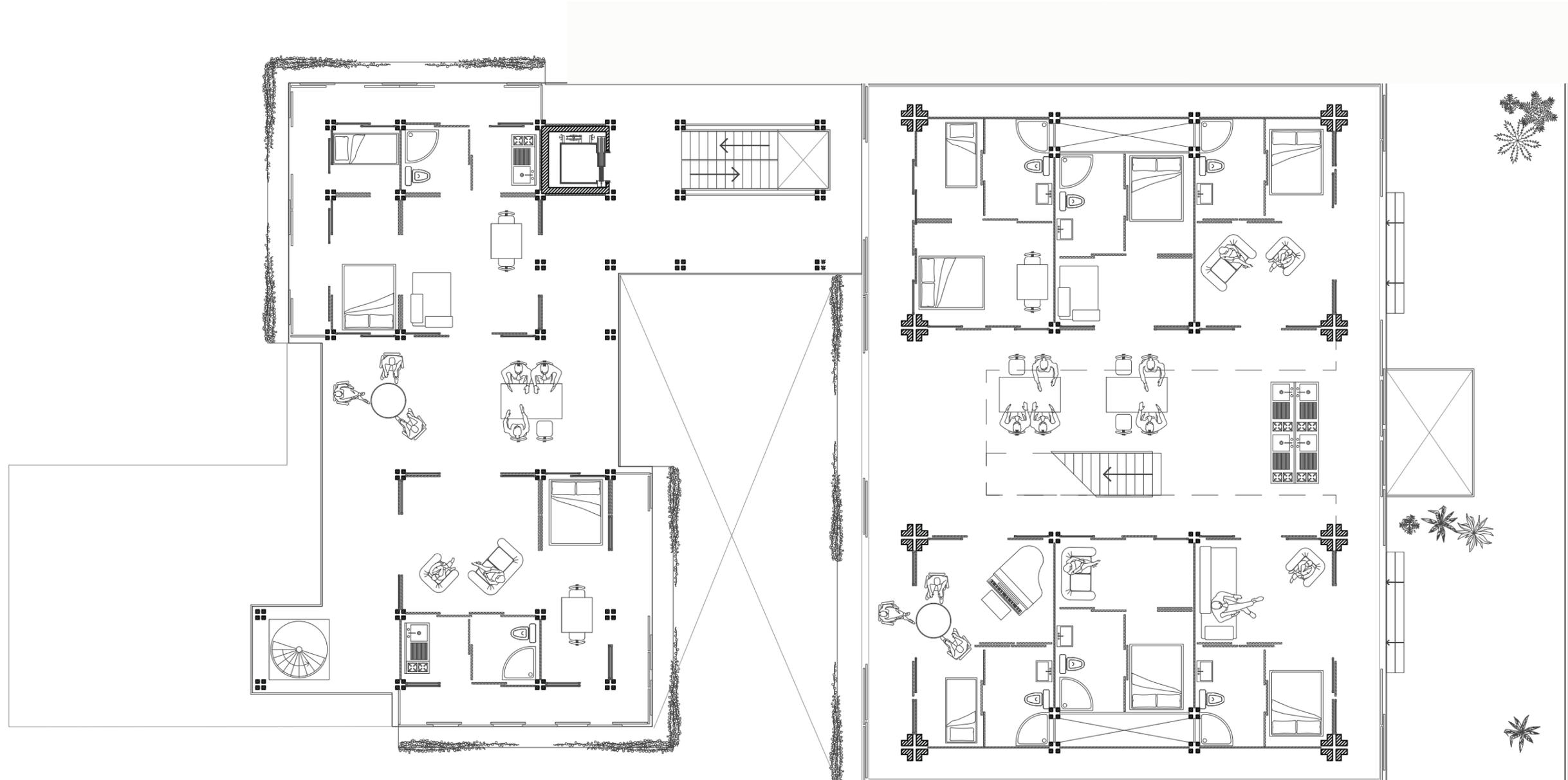
## IMPLEMENTATION THE RESIDENTIAL TOP-UP



3D SECTION OF THE MINI-MARKET & THE APARTMENTS

# DESIGN

## IMPLEMENTATION RESIDENTIAL FLOOR PLAN



THIRD FLOOR OF THE RESIDENTIAL BUILDING

DESIGN  
IMPLEMENTATION  
TECHNIQUE



3D SECTION OF THE MINI-MARKET & THE APARTMENTS

DESIGN  
IMPLEMENTATION  
TECHNIQUE



3D SECTION OF THE MINI-MARKET

DESIGN  
IMPLEMENTATION  
TECHNIQUE

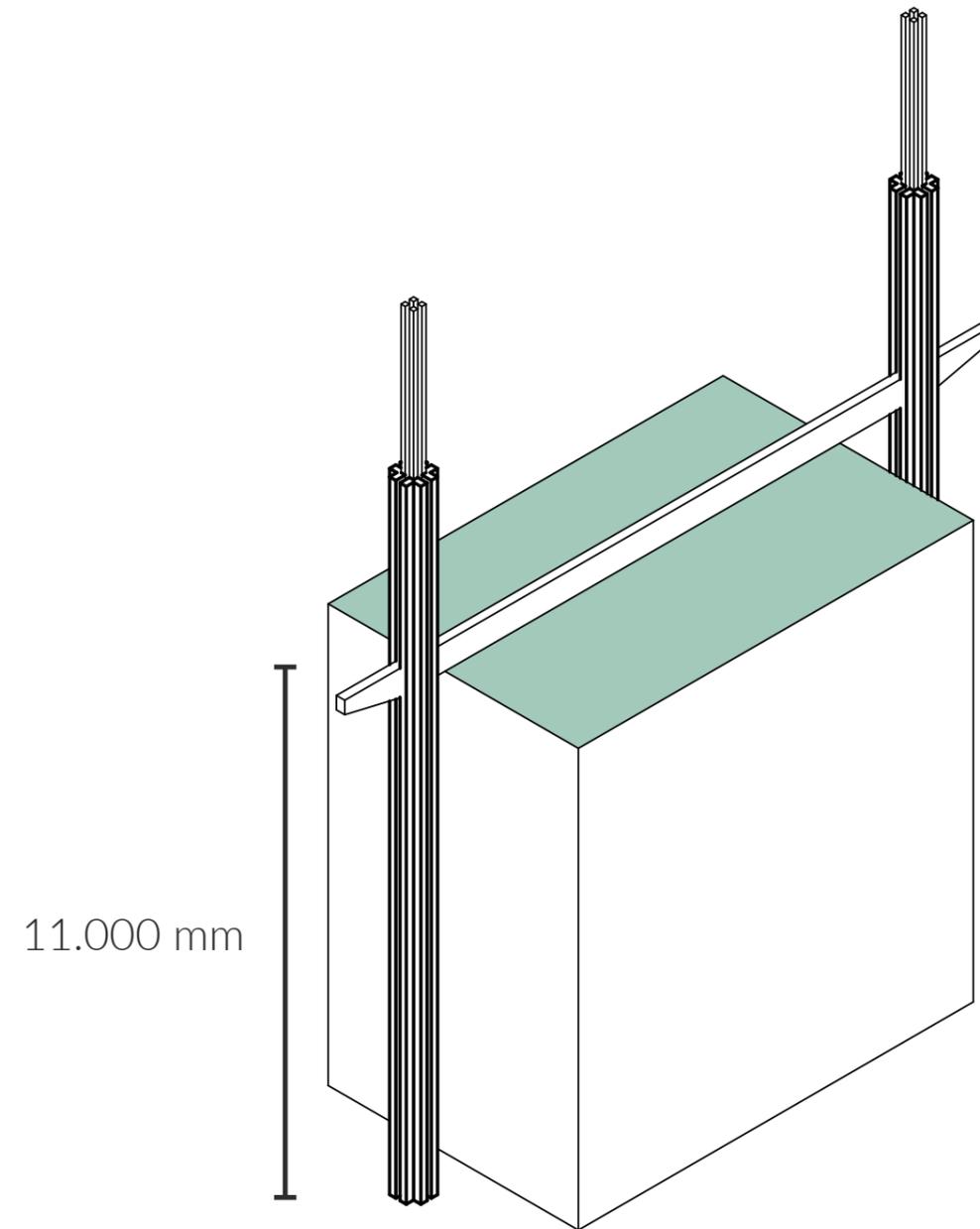


3D SECTION OF THE APARTMENTS

DESIGN  
IMPLEMENTATION  
TECHNIQUE

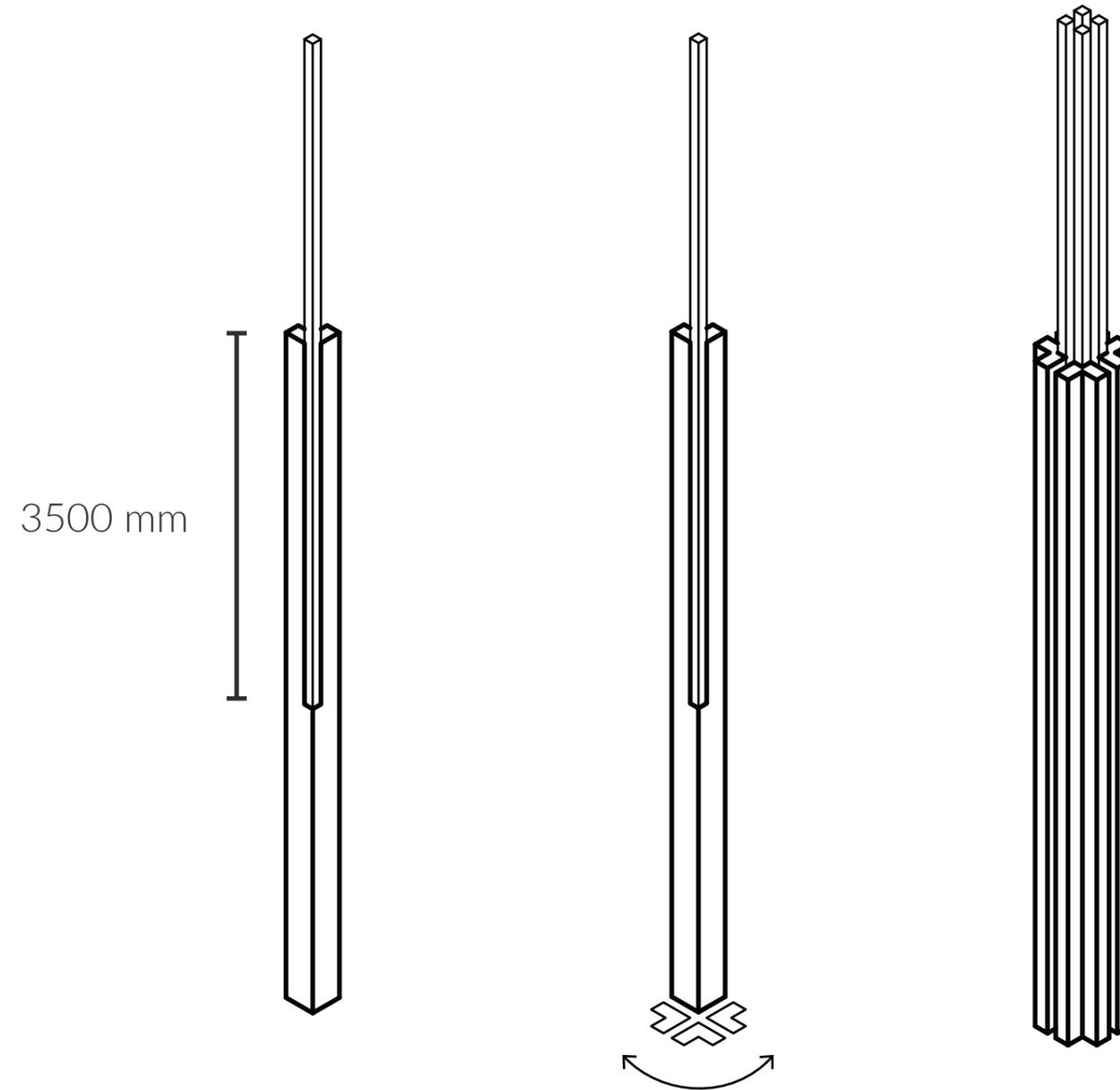


DESIGN  
IMPLEMENTATION  
TECHNIQUE



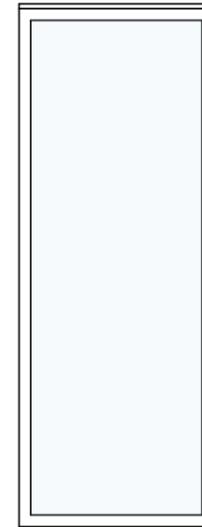
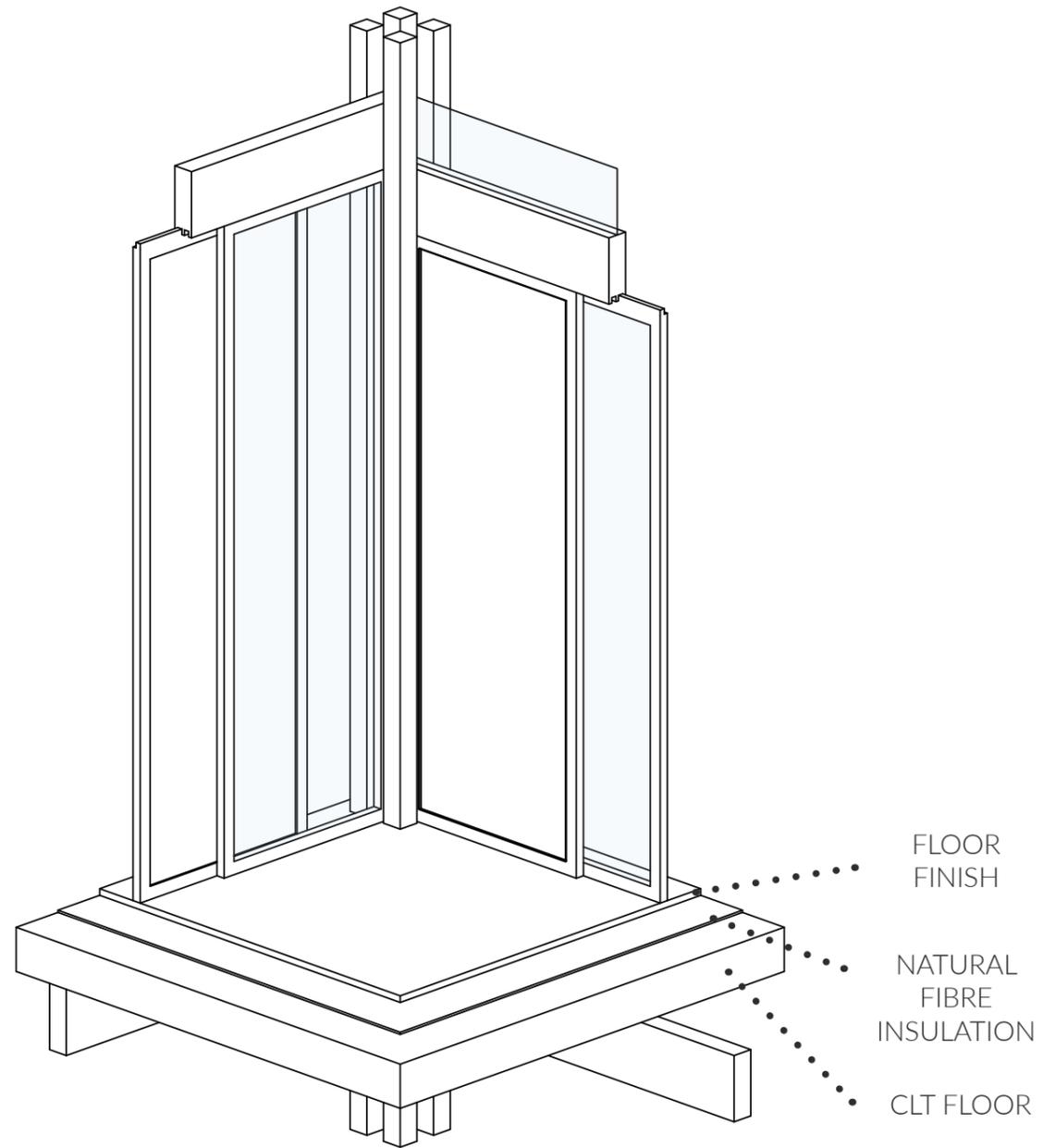
DESIGN OF THE LAMINATED TIMBER COLUMN

**DESIGN**  
IMPLEMENTATION  
TECHNIQUE



STRUCTURE OF THE LAMINATED TIMBER COLUMN

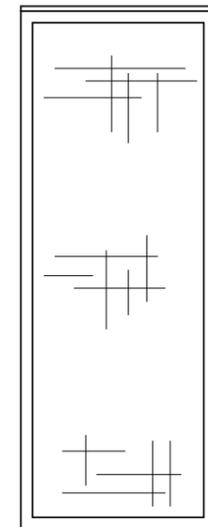
DESIGN  
IMPLEMENTATION  
TECHNIQUE



GLASS

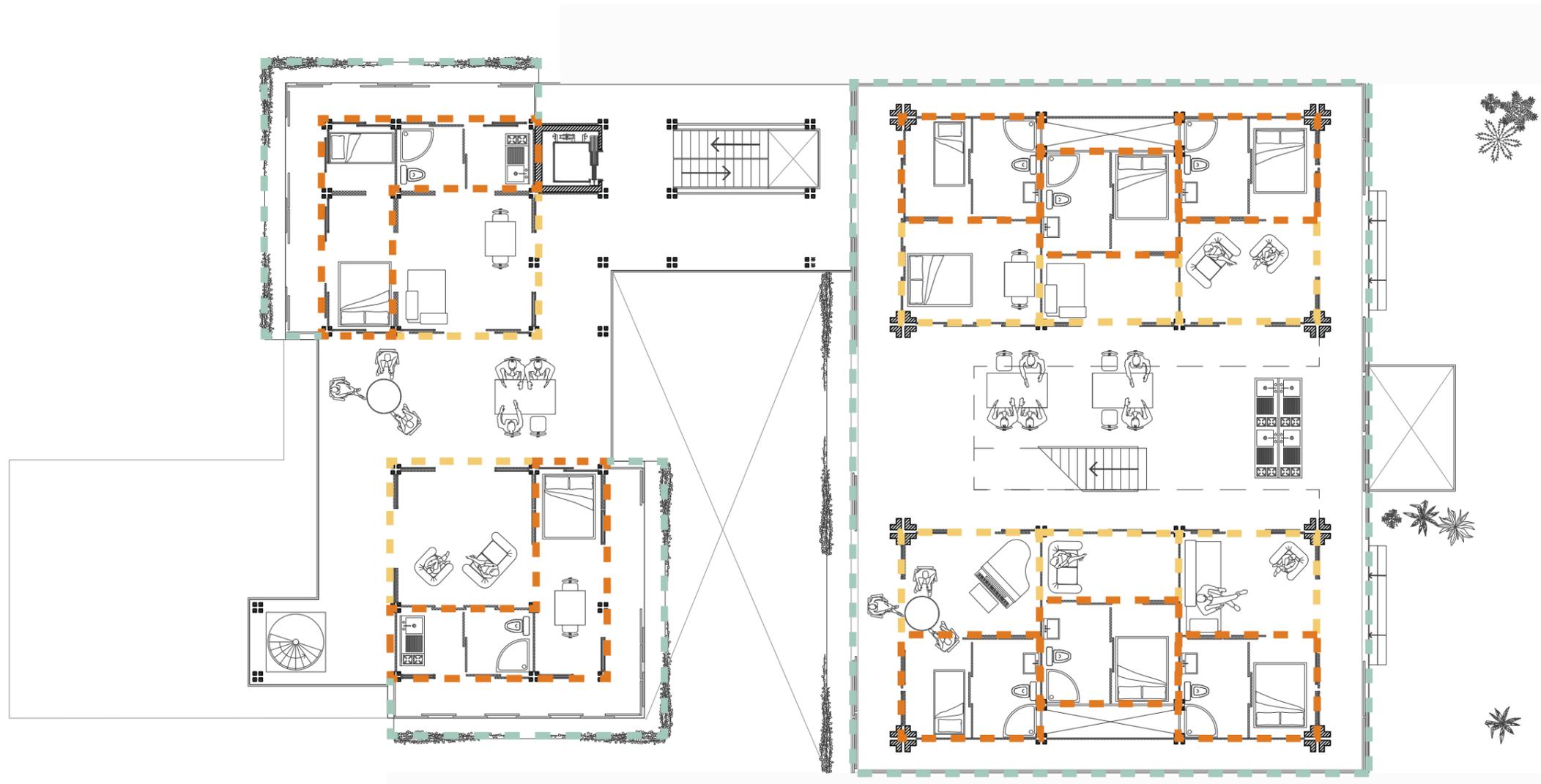


PLYWOOD



FELT

DESIGN  
IMPLEMENTATION  
TECHNIQUE



 CLIMATICALLY OPEN     POTENTIALLY CLOSED     PRIVACY

ZONES OF COMFORT IN THE RESIDENTIAL SECTION

# DESIGN

## IMPLEMENTATION

FACADE JI. OTTO ISKANDAR DINATA

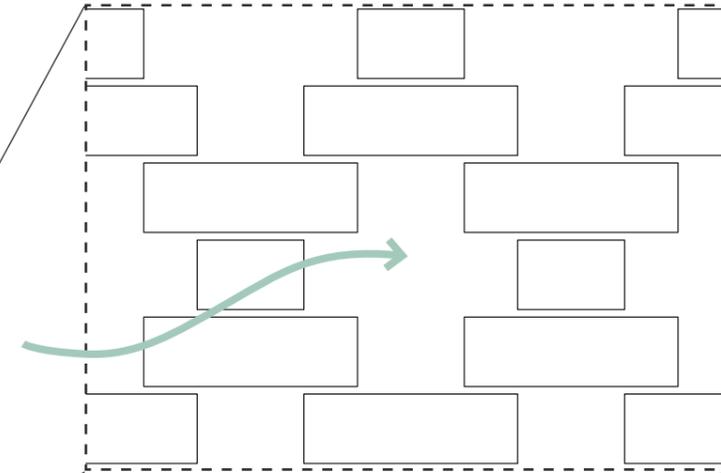


FACADE OF THE TIMBER TOP-UP

# DESIGN

## IMPLEMENTATION

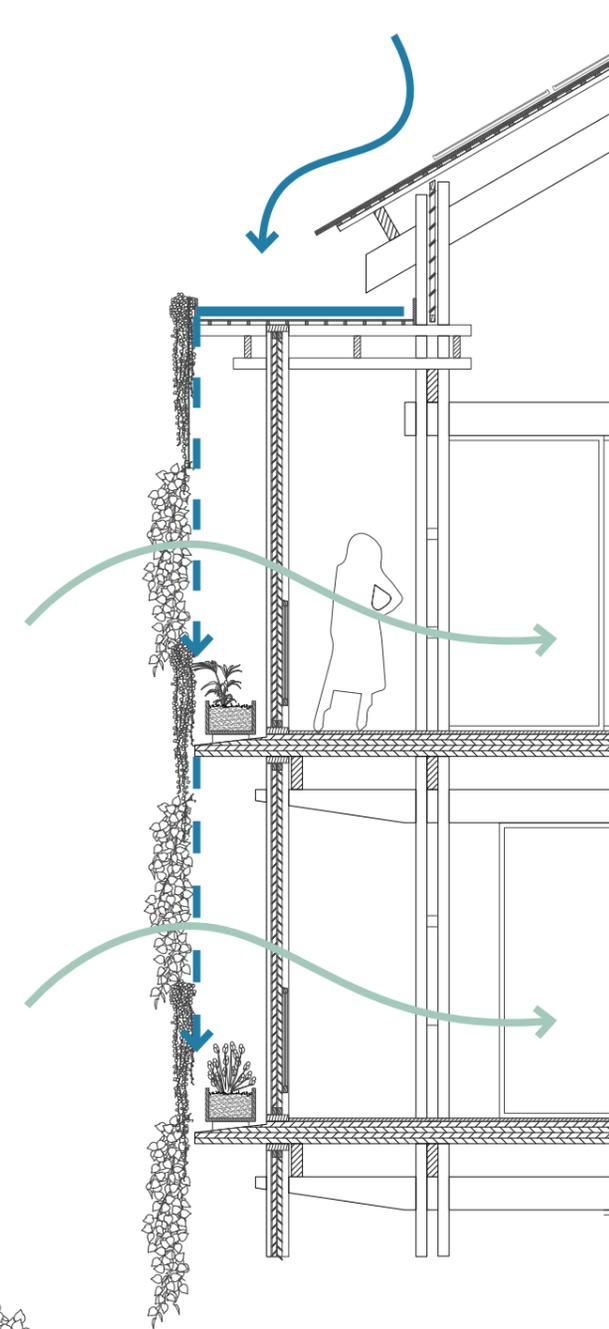
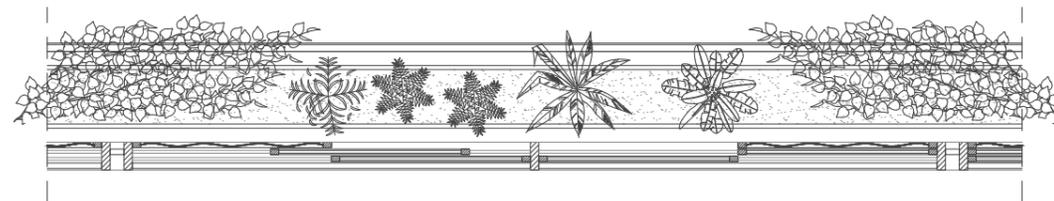
FACADE JI. OTTO ISKANDAR DINATA



FACADE OF MINI-MARKET

# DESIGN

## IMPLEMENTATION FACADE URBAN POCKET SIDE



GREEN FACADE IN DETAIL

## DESIGN

### IMPLEMENTATION

FACADE URBAN POCKET SIDE



CURTAIN CREEPER



PEACOCK BAUHINIA



BOWER VINE



VARIEGATED  
PHILODENDRON



RAGOON CREEPER



MAIDENS JEALOUSY

COLLECTION OF PLANTS FOR THE GREEN FACADE

DESIGN  
IMPLEMENTATION  
ROOF



STIMULATION OF NATURAL VENTILATION

**DESIGN**  
IMPLEMENTATION  
MRS. ENOK



MR. GAGAN -  
SHOPOWNER



MR. FIRMAN -  
STREET VENDOR



MS. KIRANA -  
CUSTOMER



MRS. ENOK -  
RESIDENT OF THE  
URBAN POCKET

DESIGN  
IMPLEMENTATION  
URBAN POCKET



DESIGN OF THE URBAN POCKET

DESIGN  
IMPLEMENTATION  
SECTION CITY BLOCK



DESIGN OF THE ENTIRE CITY BLOCK SECTION

**DESIGN**  
IMPLEMENTATION  
SECTION OF THE CITY BLOCK

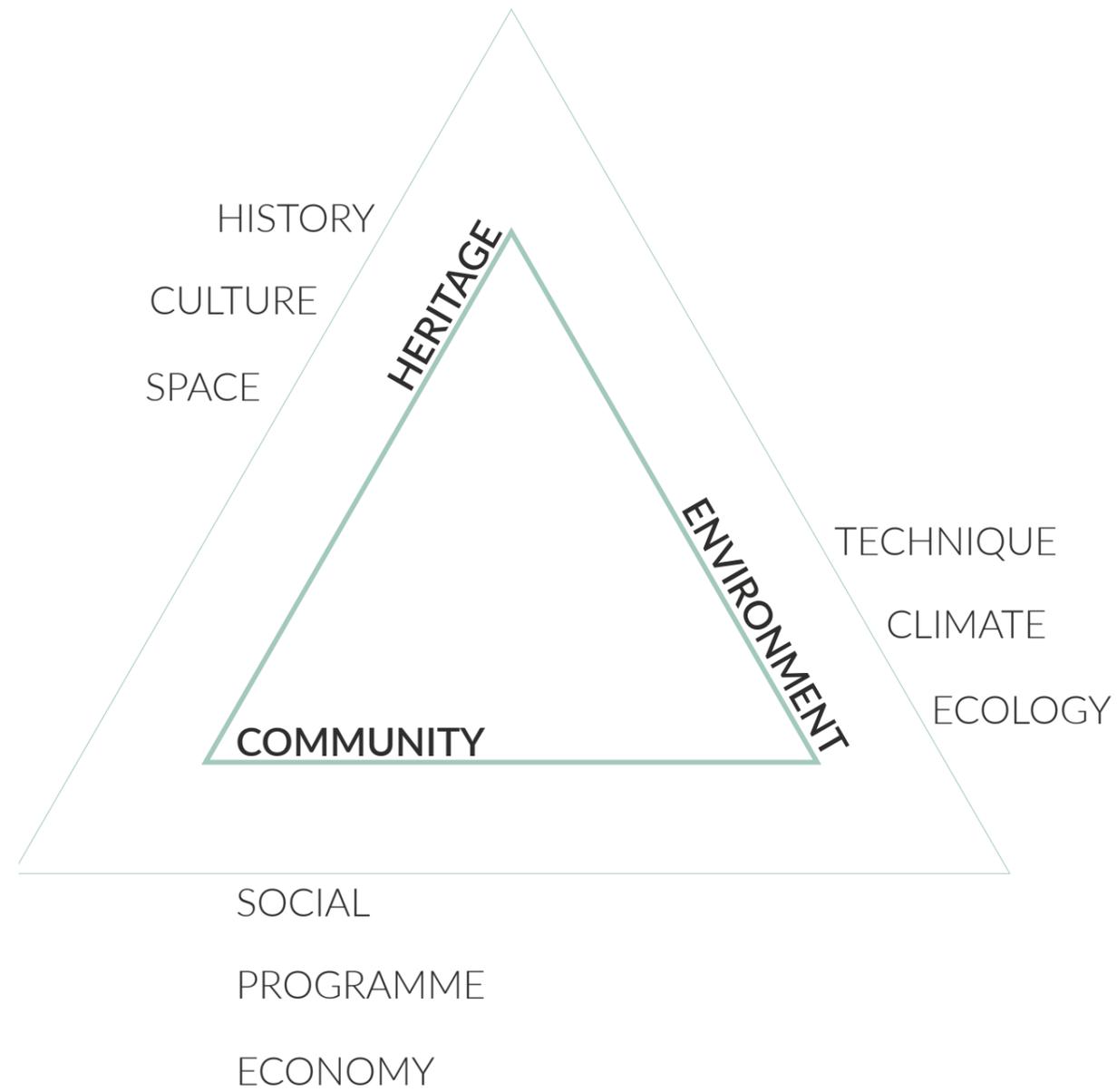


AXONOMETRIC VIEW OF THE SIDE MODEL

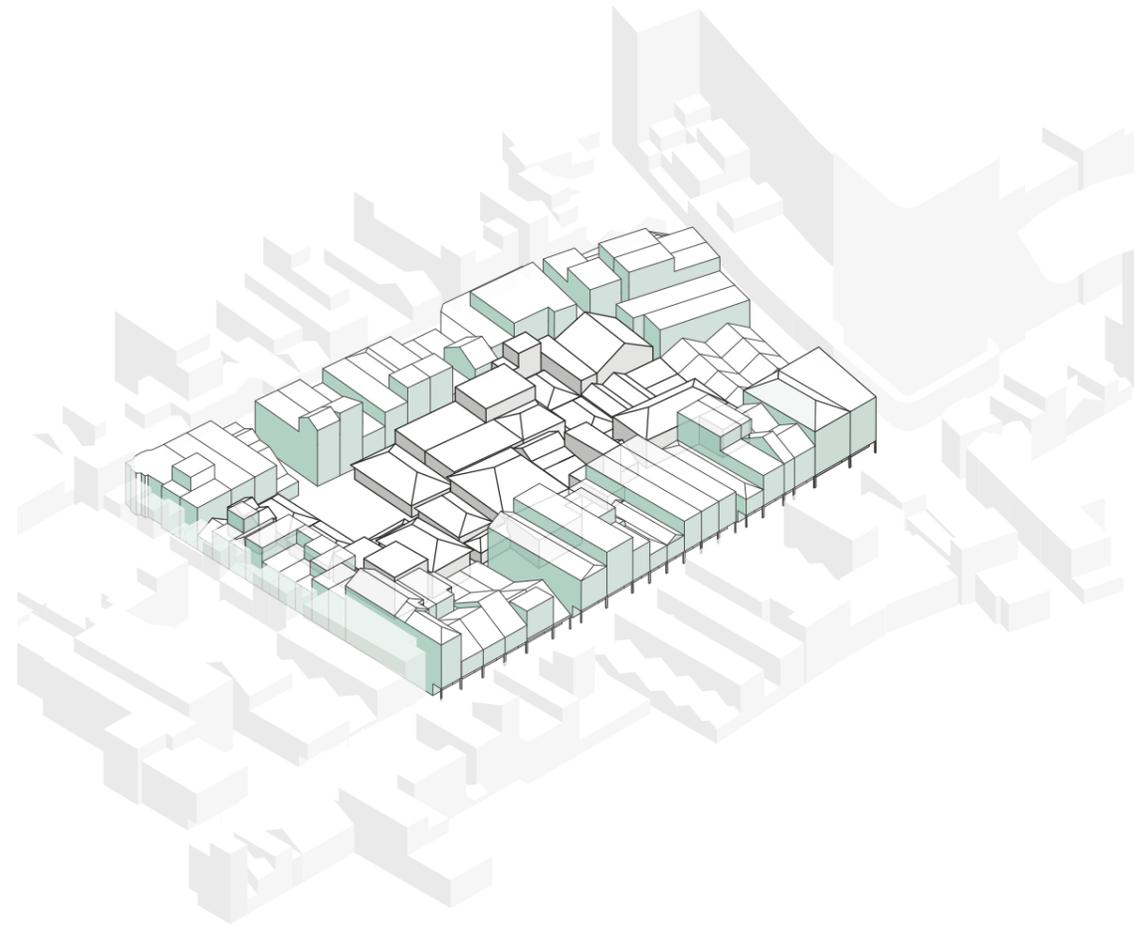
# DESIGN

## CONCLUSIONS

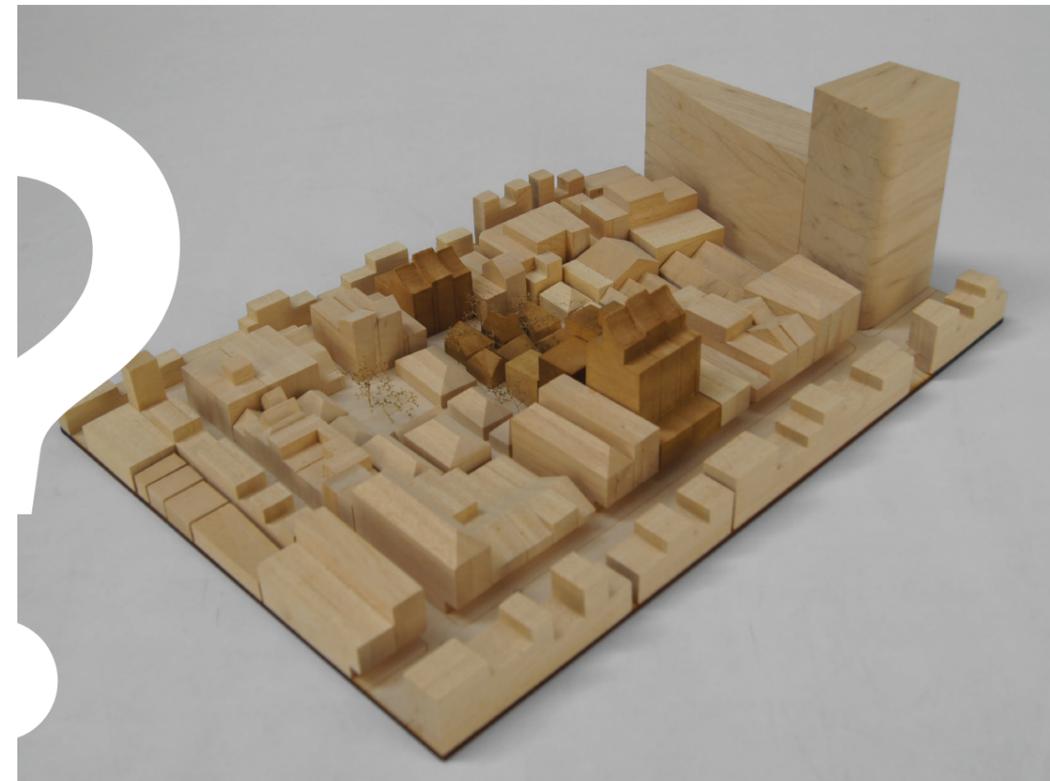
### HERITAGE, COMMUNITY & ENVIRONMENT



# REFLECTION



1. INTERESTING SEARCH FOR A CONTEMPORARY BUILDING METHOD BASED ON VERNACULAR KNOWLEDGE



2. DISCOVER MORE POSSIBLE DESIGN CONFIGURATIONS WITHIN THE URBAN GUIDLINES

TERIMA KASIH!

THANK YOU!

