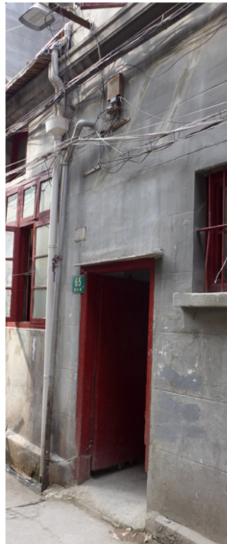


INTRODUCTION









GENERAL OVERVIEW

OUTLINE

- Introduction
- Cost/Benefit Analysis
- Clusters
- Tools
- Conclusion



BACKGROUND

ABOUT

- Commercial perimeter, residential center
- On former site of Foreign Settlement
- Iconic carved stone gateways
- Rising real estate prices



HISTORIC URBAN LANDSCAPE (HUL)

ABOUT

- Approach to modern-day pressures
- Addresses multiple values
- Aligns with government initiatives



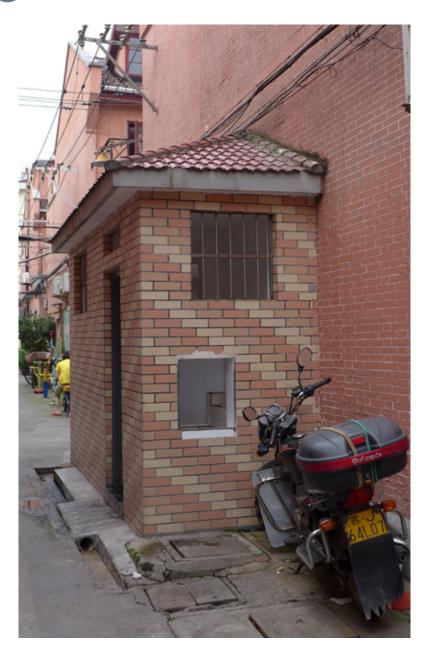
PROBLEMS & OPPORTUNITIES

PROBLEMS

- Pressure for development
- Relocation of residents
- Low income of residents
- Poor infrastructure

OPPORTUNITIES

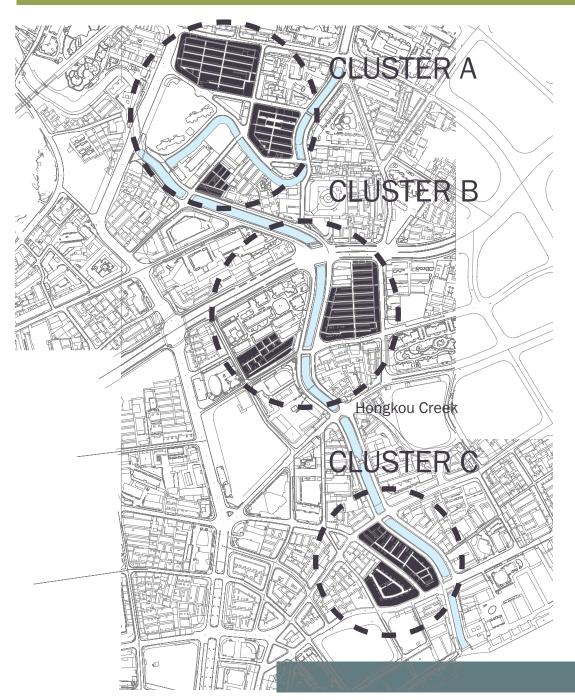
- Recent investments in historic buildings
- "Green system"
- Historic Urban Landscape



CHINA'S 9 MAJOR TASKS FOR 2014

- Making breakthroughs in reform in important areas.
- Ushering in a new phase of China's opening to the outside world and ensuring its high standard performance.
- Making domestic demand the main engine driving growth.
- Advancing agricultural modernization and rural reform and development.
- Carrying out a new type of people-centered urbanization.
- Using innovation to support and lead economic structural improvement and upgrading.
- Accelerating the development of education, health, culture and other social programs.
- Making coordinated efforts to ensure and improve people's wellbeing.
- Building China into a beautiful homeland with a sound ecological environment.

ABOUT



- 8 lilongs alongside Hongkou Creek
- Divided into 3 clusters
- 67,919 total square meters
- Actors impacted by development
- 20-25 year timeline

GUIDING PRINCIPLES FOR DEVELOPMENT



Manage heritage resources



Maintain layers of values



Reinforce local identity



Enhance quality of life



Foster social cohesion

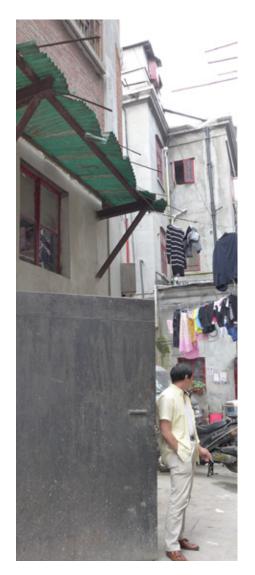
ASSUMPTIONS

ABOUT

- Language barriers
- Appropriateness of cost-benefit analysis criteria
- Only 10 days in Shanghai



COST/BENEFIT ANALYSIS









TRADITIONAL FINANCIAL SCALE

COST/BENEFIT ANALYSIS

Rehabilitation

Infrastructure

Relocation

Land Lease Loss



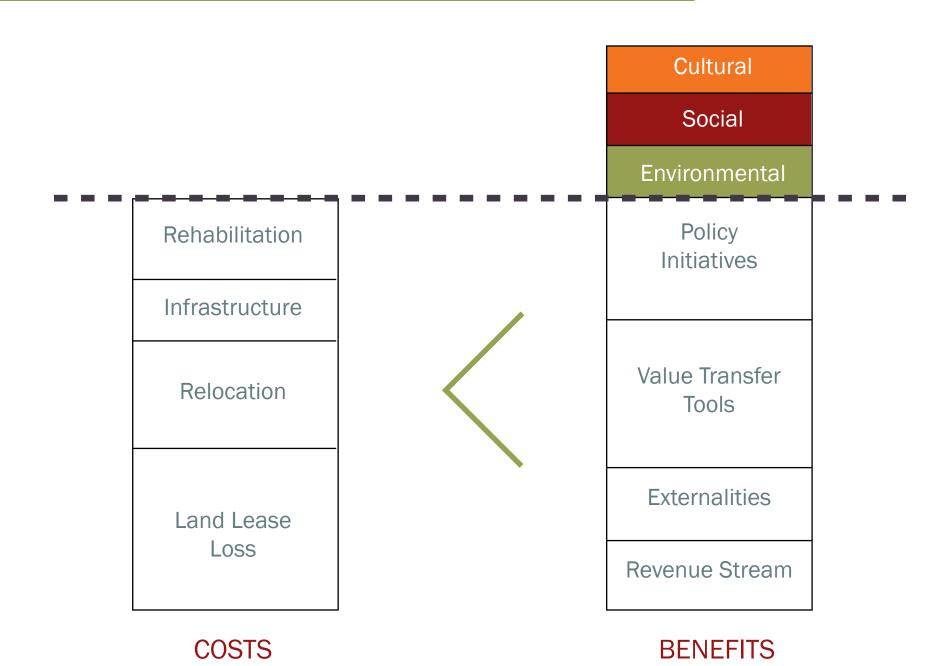
Revenue Stream

COSTS

BENEFITS

PILOT FINANCIAL SCALE

COST/BENEFIT ANALYSIS



CULTURAL SCALE

VALUES OF CULTURAL HERITAGE

Authenticity Value:

Spatial Characteristics

Stone Gate Alleys (Shikumen)

Alleyway configuration

Alleyway Use

Use of main lane (public access)

Use of side lanes- community use

Secure setting- environment

Continuity of Form and Materials (Temporal)

Public/Multi-use Space

Historic Value:

Evolution over Time

Subdivision of Housing Interiors

Change in Courtyard Function

Facilities- added

General upkeep/condition

New construction

House Exterior

House Interior

Architectural Elements

Stone Gates

Traditional Building Technique

Original Material

Original Design

Door

Roof

Courtyard

Commerical space on block exterior

Importance of Element:

Structural Quality

Exterior

Interior

CULTURAL COST/BENEFIT SCALE

Considers Importance of Value and Change in Existence of Value



SOCIAL SCALE

COMMUNITY VALUES AND SOCIAL TRADITIONS

Social Capital

Displacement (negative value)

Trust

Sense of Community

Social mobility

Diversity

Stigma (negative value)

Traditional

Cultural Relics

Cultural Resources

Personal Welfare

Safety/ Security

Health

Cooking/Leisure time

Privacy/spatial distribution

Climate Control

Happiness

Retail Choice

SOCIAL COST/BENEFIT SCALE:

Considers Importance of Value and Change in Existence of Value



FINANCIAL SCALE

MUNICIPAL DIRECT AND INDIRECT COSTS

BENEFIT: Income

Rents

Wage and Earning

Sales Tax

Real Estate Tax

Business Taxes

Sell of Land Use Rights

COST: Expenditures

Fire

Maintenance

Police

Electric and Gas

Water and Sewer

Traffic and Transportation

Community Services at the Xiaoque Leve

Access to parks

Gardening

Permeability

FINANCIAL COST/BENEFIT SCALE

- 1 No Cost/No Benefit
- 2 Minimal Cost/Minimal Benefit
- 3 Moderate Cost/Moderate Benefit
- 4 Great Cost/Great Benefit



ENVIRONMENTAL SCALE

COST/ BENEFIT ANALYSIS

Air

Natural Circulation Access to clean air Systems for regulating temperature

Water

Adequate Drainage Access to drinking water Systems for sewage

Greenery

Access to parks Gardening Permeability

Energy

Natural lighting Building Envelope Low-energy appliance

ENVIRONMENTAL COST/BENEFIT SCALE:

0 = none

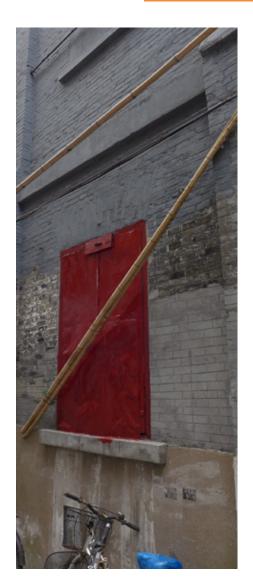
1 = very low

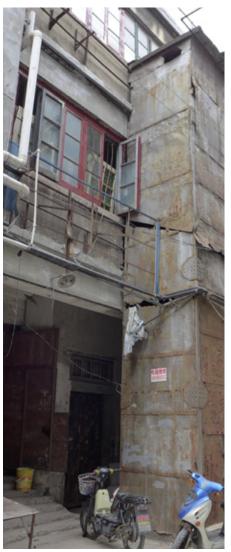
2 = low

3 = medium



CLUSTERS



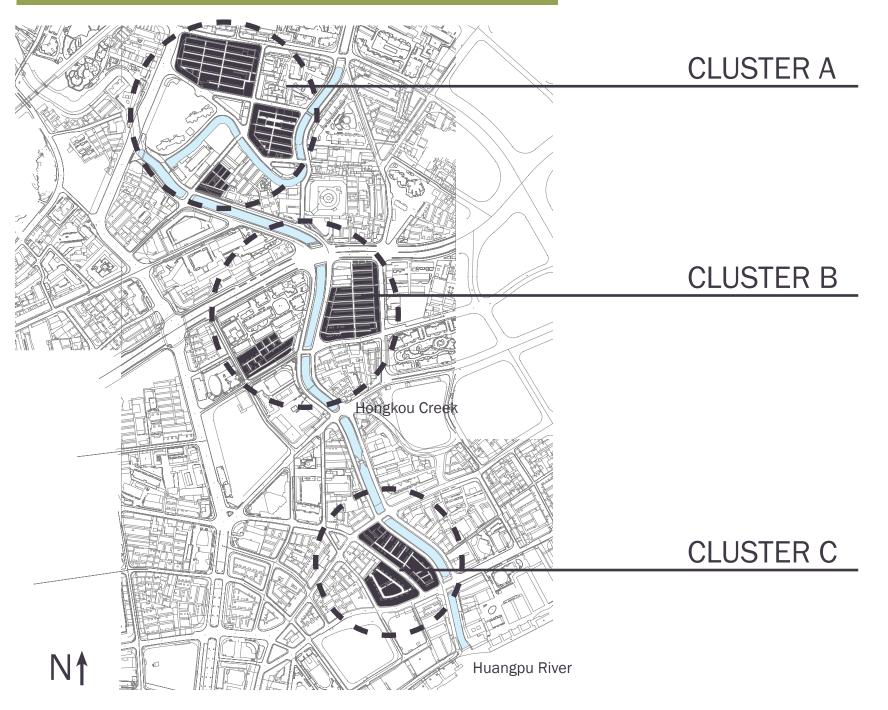






CONTEXT MAP

LOCATION

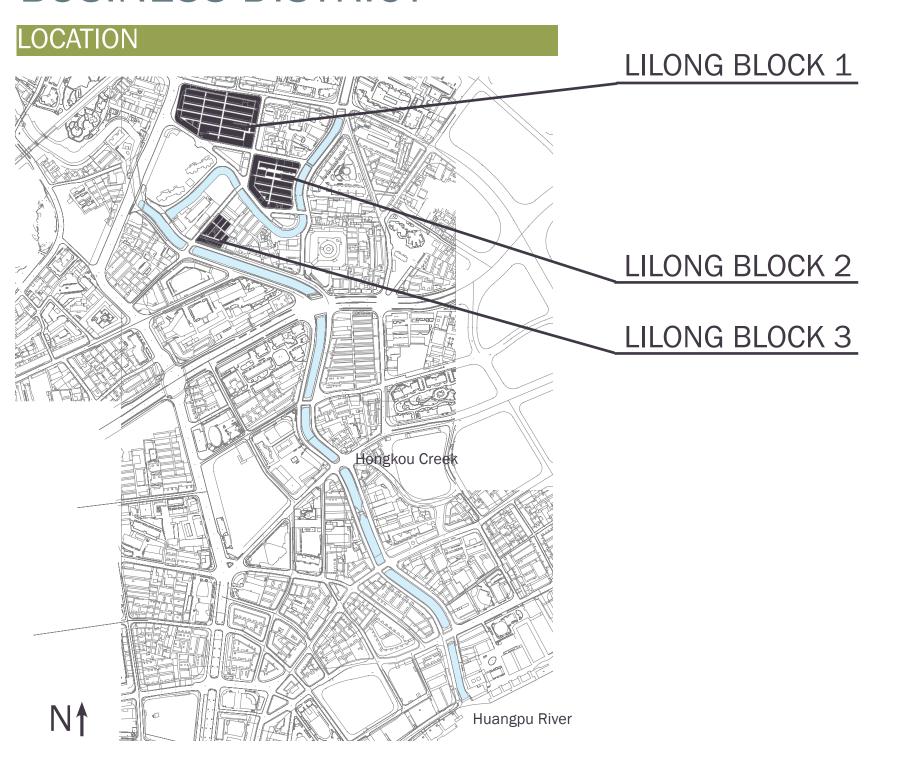


CLUSTER A

THE BUSINESS DISTRICT



BUSINESS DISTRICT



Lilong 1

Rui-kang-li 瑞康里

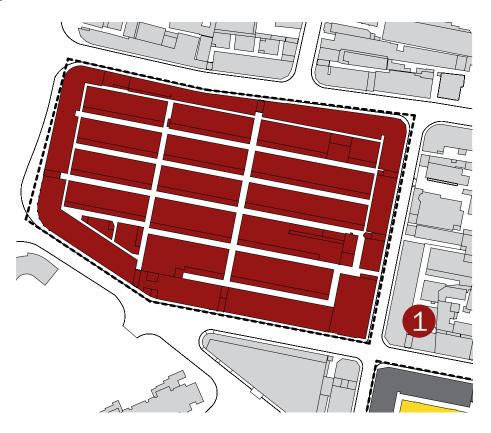
SMALL BUSINESS DISTRICT

ABOUT

- Located in the Northern End of the Hongku District
- Proximity to Small Business Centers
- One Street Front along Siping Road, a major thoroughfare
- Access to Metro Stop (line 10)
- Typical Lilong Layout with a Ring of Buildings Surrounding the Interior Structures
- Existing Small Businesses

USE

- SMALL BUSINESS DISTRICT
- Career Services
- Job Training Center
- Local Businesses
- National & International Businesses
- Start-ups



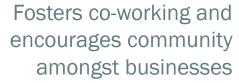
SMALL BUSINESS DISTRICT

FROM EXISTING CONDITIONS

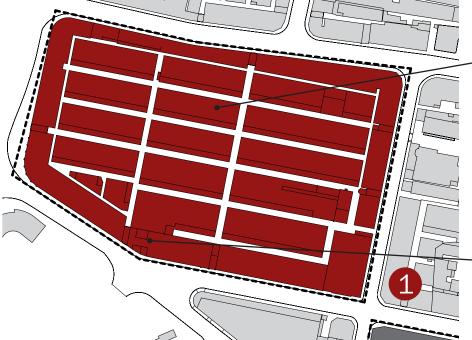


Allows for the expansion of business opportunities for the surrounding creative community

Provides affordable rental space for start-up companies



Contributes to the economic activity in the area







KEY:

Commercial

Other Bldg



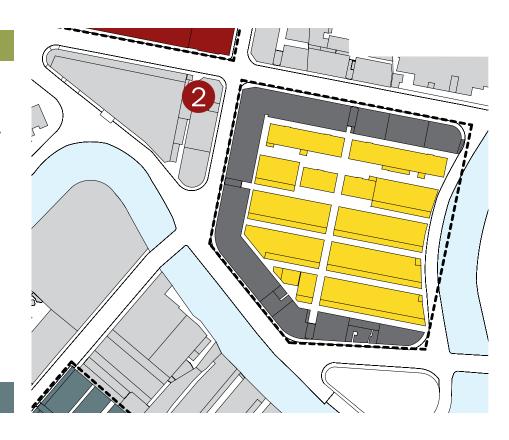
Lilong 2

Rui-qing-li 瑞庆里

CREATIVE CLUSTER

ABOUT

- On the Northern End of Hongku District
- Proximity to Nearby Creative Centers and Other Commercial Activity
- Located within a Pocket of Hongku Creek
- Easily Accessible from Metro Stop (line 10)
- U-Shaped Exterior Ring Surrounding Interior Structures

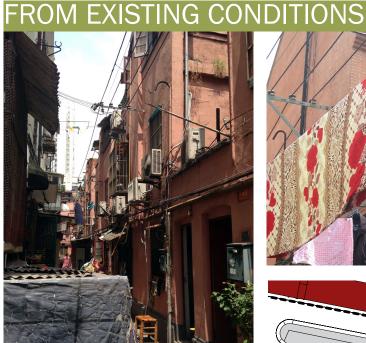


USE

- LIVE SPACE
- WORK SPACE
- EXHIBITION/EVENT SPACE
- AFFORDABLE UNITS
- Artists
- Architects
- Visual Artists

- Fashion Designers
- Musicians
- Performers

CREATIVE CLUSTER



Capitalizes on the existing creative community

Attracts people to the area





Fosters a sense of community amongst residents

Provides affordable live, work, and exhibition space



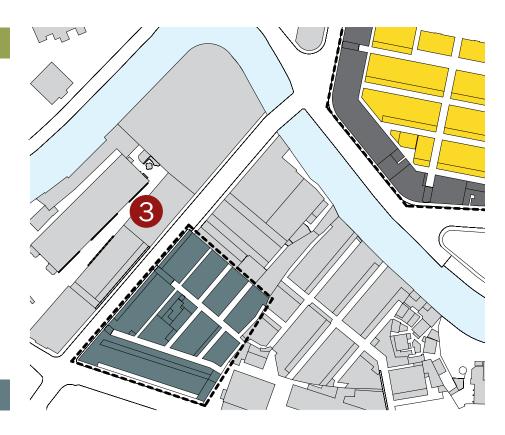
Lilong 3

Lan-wei-li 兰葳里

COMMUNITY CENTER

ABOUT

- Across Hongku Creek from Lilong 1 & 2
- Smallest Lilong in Cluster A
- Located within a Pocket of the Creek
- Closest Proximity to Nearby Creative Centers
- Exterior Ring Along Streets
- Interior Structures Abut Structures within the Block



USE

- PUBLIC SPACE
- COMMUNITY CENTER
- YOUTH CENTER

CLASSES:

- Traditional Cooking Methods
- Arts & Crafts
- Language
- Senior Activities

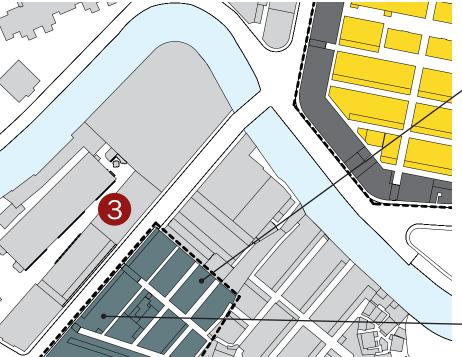
COMMUNITY CENTER

FROM EXISTING CONDITIONS



Serves as gathering space for group activities, social support, public information and other purposes

Emphasizes human aspect of the neighborhood





TO PUBLIC SPACE

Retains cultural values of local residents

Provides a function that is lacking in the area



COST / BENEFIT ANALYSIS

DIRECT COSTS

Rehabilitation Cost ------ 160,397,808 RMB

Infrastructure Upgrading Cost ----- 30,941,936 RMB

Relocation Cost -----1,374,838,350 RMB

INDIRECT COSTS

Land Lease Loss Cost ------2,315,280,007 RMB

DIRECT BENEFITS

Transfer of Development Rights
Redefining Green Space

VALUE RECAPTURE

Rent Income Stream to Government Growing Value Asset

EXTERNALITIES

15% View Premium to Surrounding High-Rises

POLICY GOALS

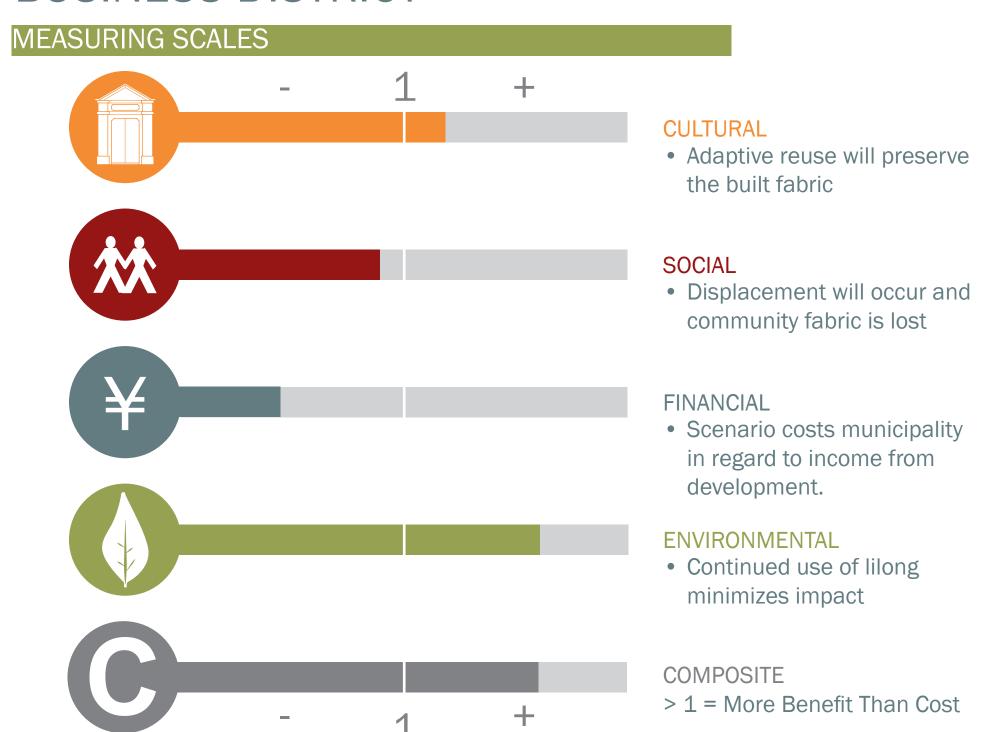
Historic Preservation & Revitalization

Green Space Creation

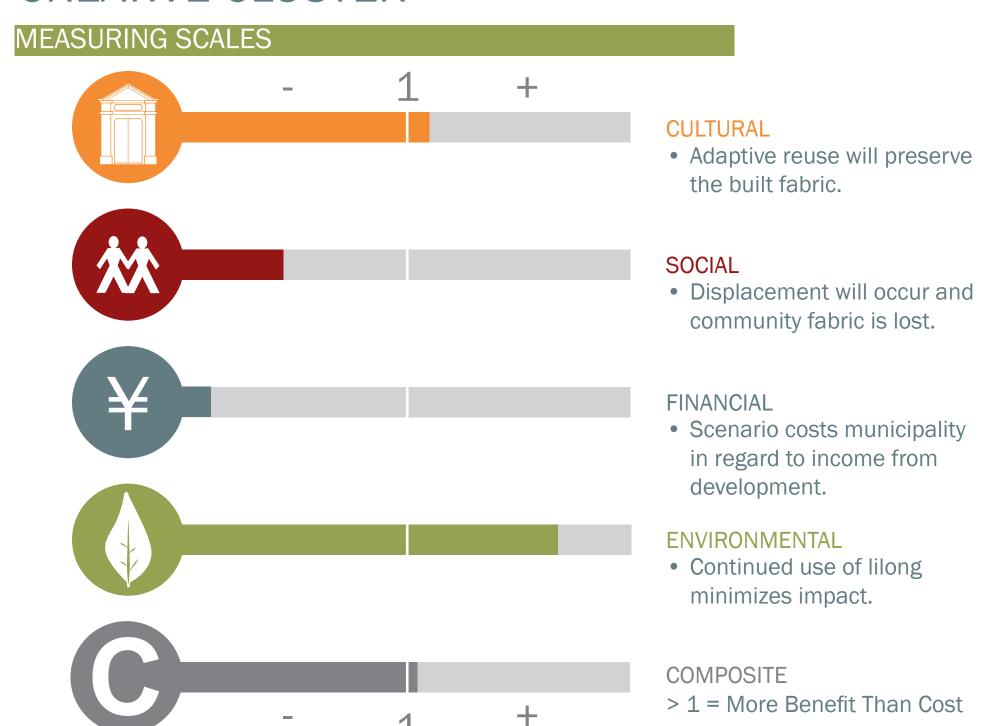
Creative Industry

Residential Construction

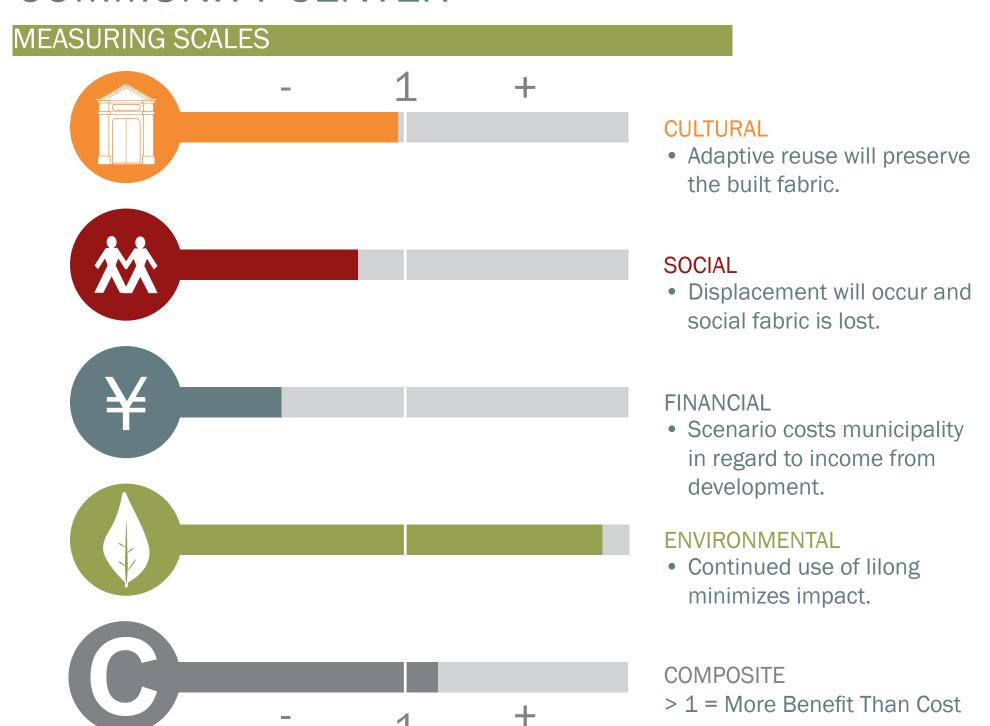
BUSINESS DISTRICT



CREATIVE CLUSTER



COMMUNITY CENTER

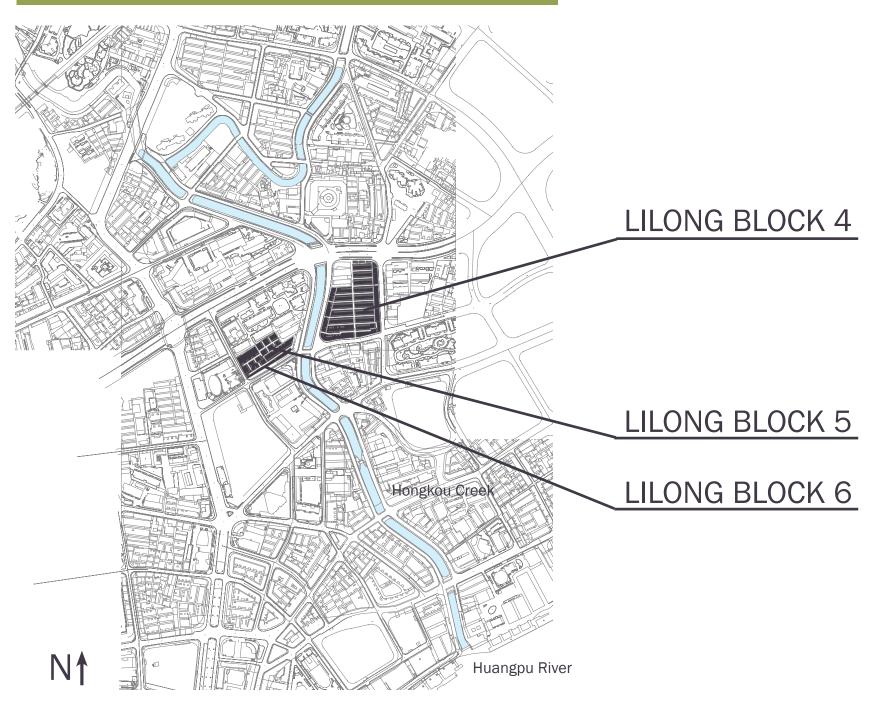


CLUSTER B



RESIDENTIAL COMMUNITY

LOCATION



Lilong 4

Chun-yang-li 春阳里

ABOUT

- Improve living conditions through dedensification, home ownership, and innovative design.
- Respect existing built fabric.
- Maintain character, scale, and community by heritage neighborhood designation.
- Supply city needs for low-income housing.
- Stimulate economic activity by readapting commercial spaces.
- Enhance visibility of shikumen buildings.

USE

- Revert lilong housing units to single-family occupancy.
- Refit commerical spaces with proper ventilation, sanitation, and thermal comfort through design.
- Experiment with a mixed residential and hotel space to promote heritage tourism.



FROM EXISTING CONDITIONS





DE-DENSIFICATION

- Revert to single-family units.
- Secure ownership for long term residents.
- Protect adjacent street activity and scale.

- Run-down interiors.
- 5-8 people per unit.
- Little money for repairs.
- Strong community.





Lilong 5

Heng-xiang-li 恒祥里

FROM EXISTING CONDITIONS





Businesses serve surrounding area. Poor quality spaces, especially for restaurants.





BUSINESS AND DESIGN SOLUTIONS:

- Draw on young designers for improvements.
- Test effect of improvements on social mobility and housing.



TO IMPROVED BUSINESS ESTABLISHMENTS

Lilong 6

Xing-ye-li 兴业里

FROM EXISTING CONDITIONS



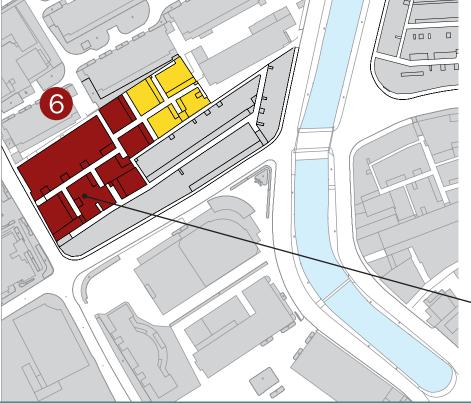
- Outstanding example of shikumen architecture.
- Aging and moving residents.

KEY:

Commercial

Residential





HOTEL AND RESIDENCE:

- Capitalize on superb design and integrity.
- Accommodate a small hotel.
- Use as model for highest preservation standards.



TO OUTSTANDING EXAMPLE

Cluster B: LILONG 4, 5 & 6

COST / BENEFIT ANALYSIS

DIRECT COSTS

Rehabilitation Cost ------ 58,192,540 RMB

Infrastructure Upgrading Cost ------ 26,891,995 RMB

Relocation Cost ------ 498,793,200 RMB

INDIRECT COSTS

Land Lease Loss Cost -----2,719,928,140 RMB

DIRECT BENEFITS

Transfer of Development Rights
Redefining Green Space

VALUE RECAPTURE

Rent Income Stream to Government

Growing Value Asset

EXTERNALITIES

15% View Premium to Surrounding High-Rises

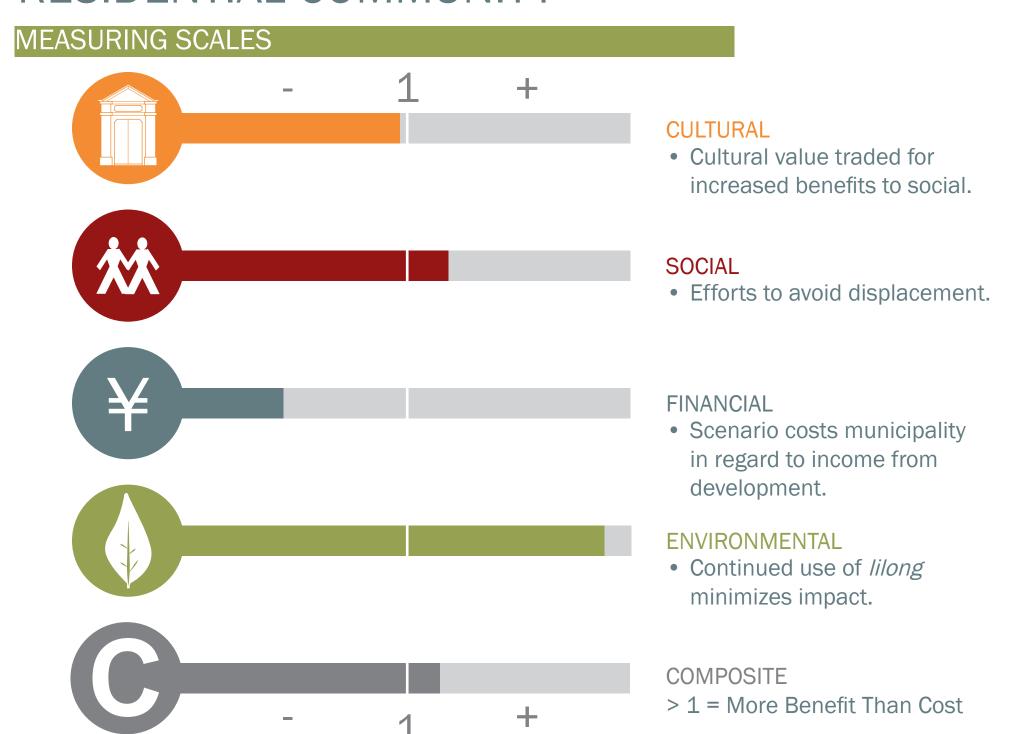
POLICY GOALS

Historic Preservation & Revitalization

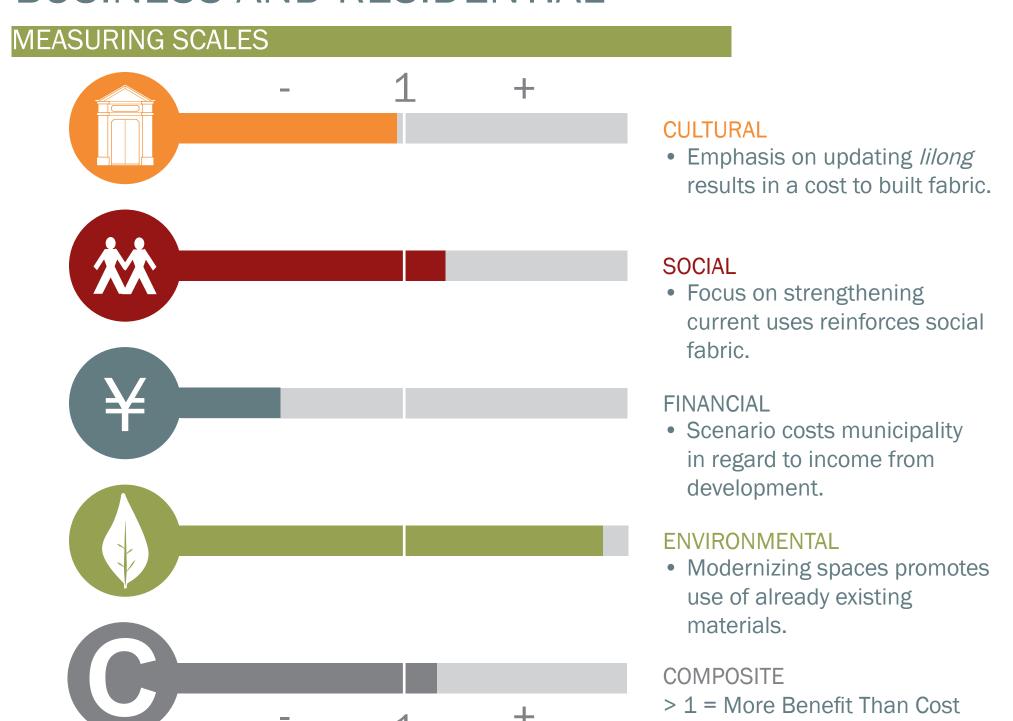
Green Space Creation

Creative Industry

Residential Construction

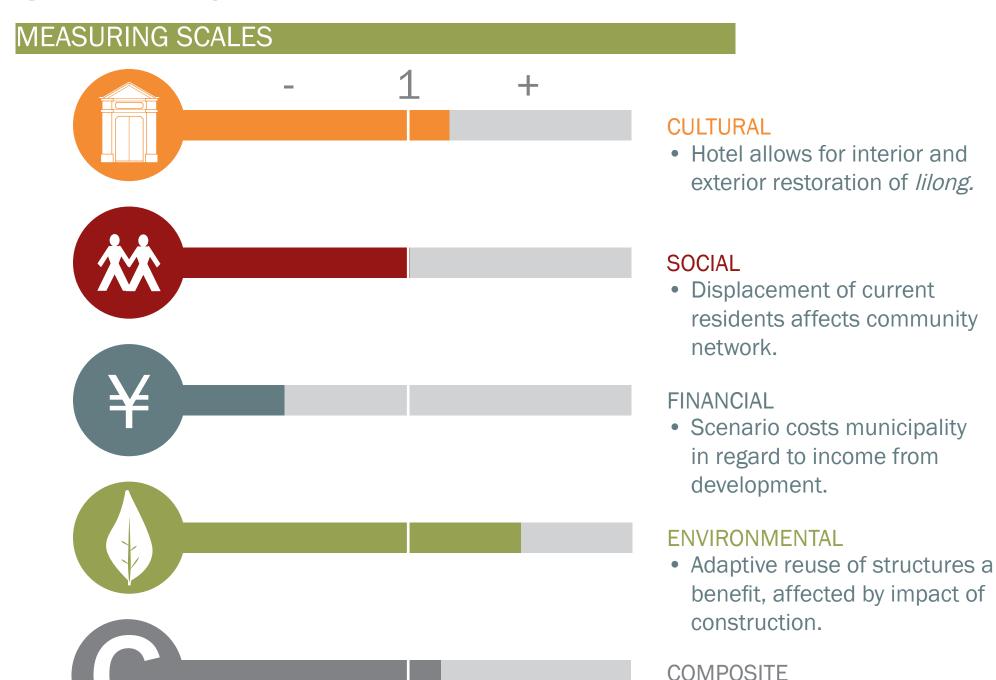


BUSINESS AND RESIDENTIAL



> 1 = More Benefit Than Cost

SMALL HOTEL



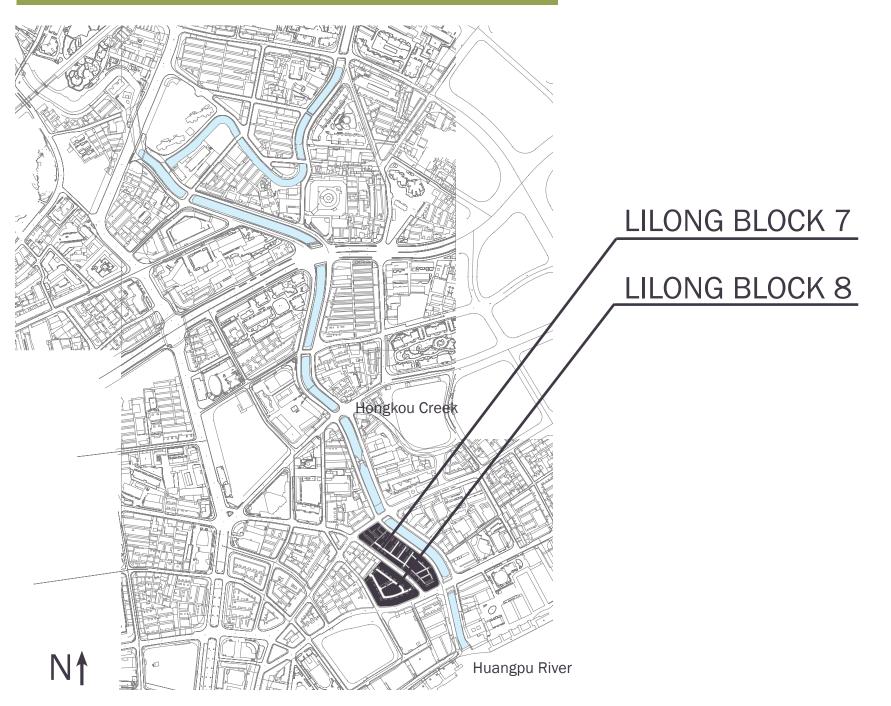
CLUSTER C

TRADITIONAL ARTIST CORRIDOR



ARTIST CORRIDOR

LOCATION



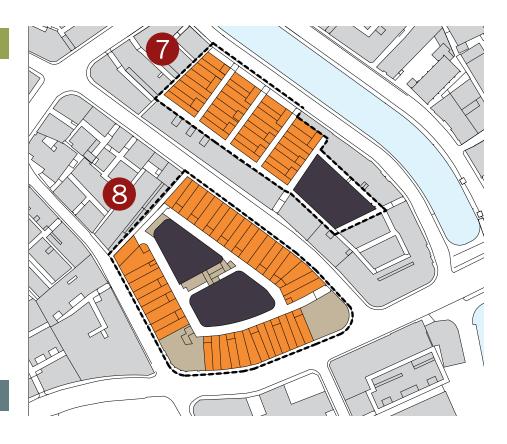
Lilong 7 & 8

Ping-an-li 平安里 Dui-zhan-long-tang 堆栈弄堂

ARTIST CORRIDOR

ABOUT

- Inherent Live/ Work Environment
- Underutilized Adjacent Warehouses
- Intact Architectural Features
- Central Courtyards
- Second Floor Balconies



USE

- LIVE / WORK SPACE
- MAKER SPACES
- ART MARKET
 - FOLK ART

Paper Cutting

Puppetry

Handcraft

VISUAL ARTS

Pottery

Calligraphy

Chinese Painting

LITERATURE

Dictionary

Poetry

Histography

DRAMA

Traditional

Opera





LIVE / WORK SPACES
 Artists live above shops
 Sell goods on first floor
 32 Units

LIVE / WORK SPACES
 Affordable Community
 Artist Haven









FROM EXISTING CONDITIONS

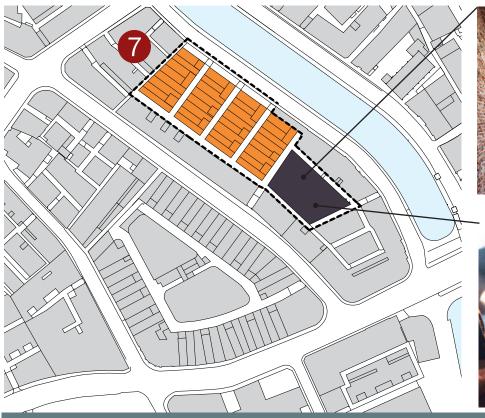




MAKER SPACES
 Raw Industrial Space
 Machinery
 Fabrication
 Maker Space

MAKER SPACES
 Ceramics
 Textiles
 Glass Blowing









TO MAKER SPACE

ARTIST CORRIDOR

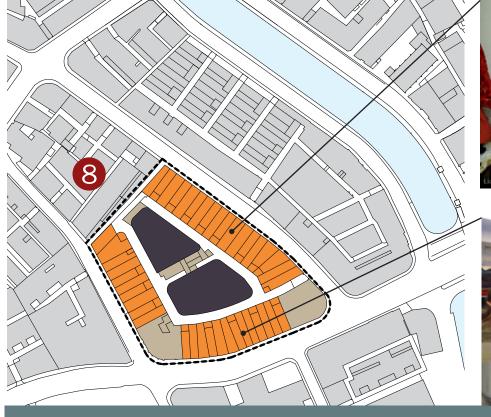
FROM EXISTING CONDITIONS



LIVE / WORK SPACES
 Artists live above shops
 Sell goods on first floor
 84 Units

LIVE / WORK SPACES
 Affordable Community
 Artist Haven









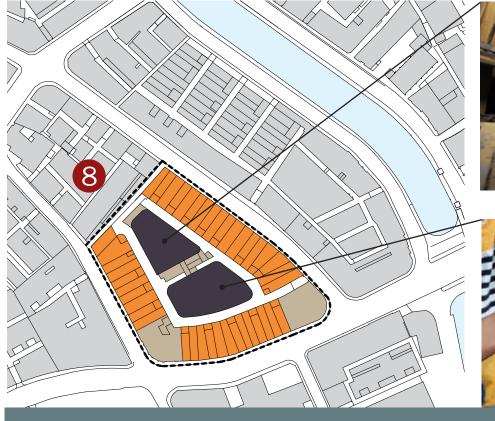
FROM EXISTING CONDITIONS



MAKER SPACES
 Raw Industrial Space
 Machinery
 Fabrication
 Maker Spaces

MAKER SPACES
 Ceramics
 Textiles
 Glass Blowing









DIRECT COSTS

Infrastructure Upgrading Cost ------ 10,085,000 RMB

Relocation Cost 1,055,730,000 RMB

INDIRECT COSTS

Land Lease Loss Cost ------ 136,874,500 RMB

DIRECT BENEFITS

Rent Income Stream to Government Growing Value Asset VALUE RECAPTURE

Transfer of Development Rights
Redefining Green Space

EXTERNALITIES

15% View Premium to Surrounding High-Rises

POLICY GOALS

Historic Preservation & Revitalization

Green Space Creation

Creative Industry

Residential Construction

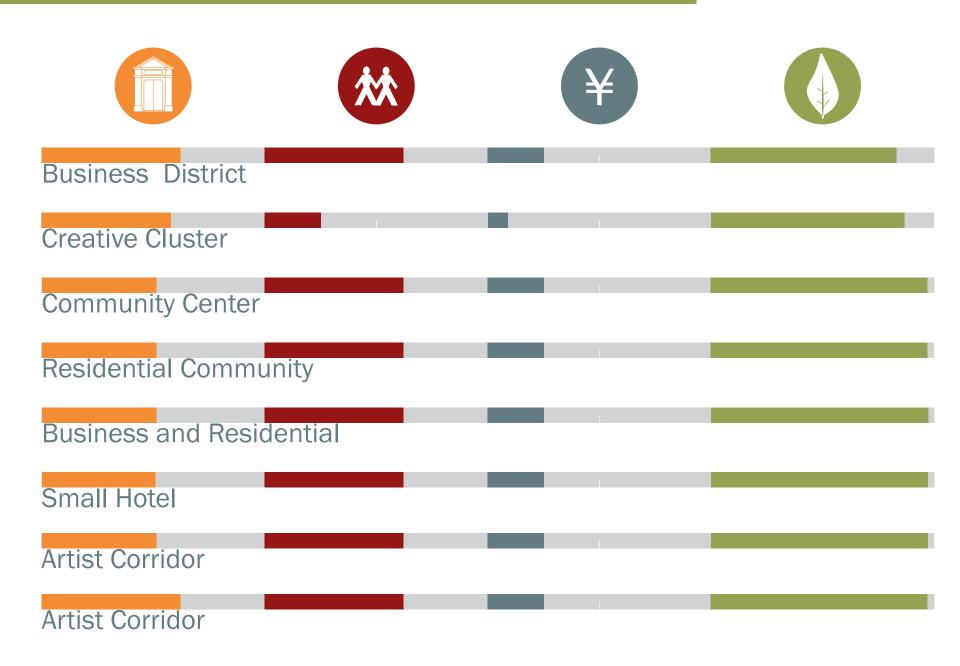
ARTIST CORRIDOR

MEASURING SCALES: + **CULTURAL** Re-use of traditional central courtyard communal space. **SOCIAL** Mobile community generates greater social capital. **FINANCIAL** Costs for preservation of materials. **FNVIRONMENTAL** Lower density allows for higher quality of life. **COMPOSITE** > 1 = More Benefit Than Cost

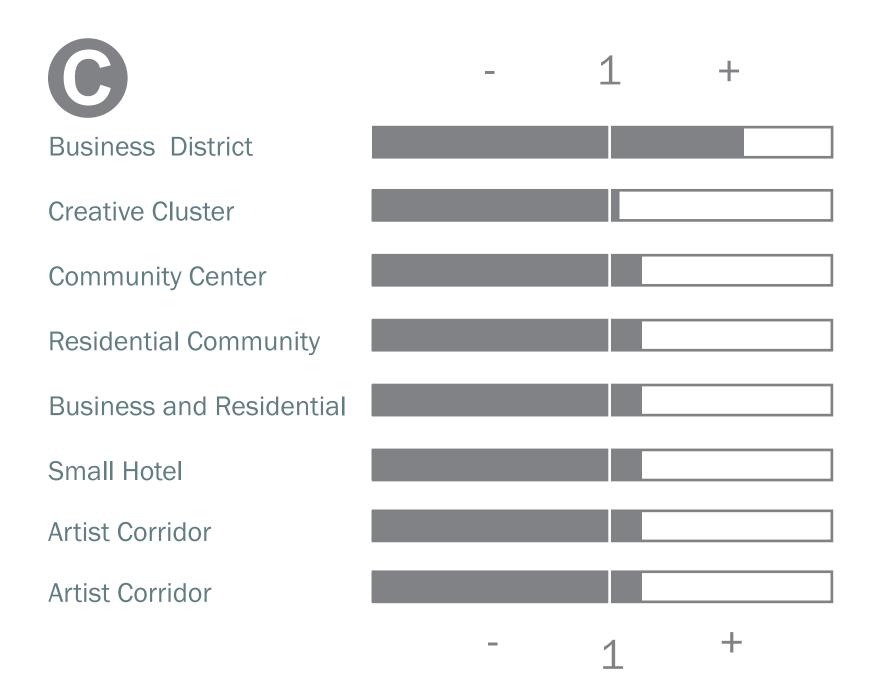
ARTIST CORRIDOR

MEASURING SCALES: + **CULTURAL** Adaptive re-use of industrial architectural heritage. **SOCIAL** Shared skills and knowledge among artist community. **FINANCIAL** · Costly redevelopment of outdated industrial spaces. **ENVIRONMENTAL** Better lighting and increased ventelation. **COMPOSITE** > 1 = More Benefit Than Cost

COMPARING SCALES



COMPARING COMPOSITE SCALE



PRINCIPLES

Business District

Creative Cluster

Community Center

Residential Community

Business/Residential

Small Hotel

Artist Corridor

Artist Corridor















































































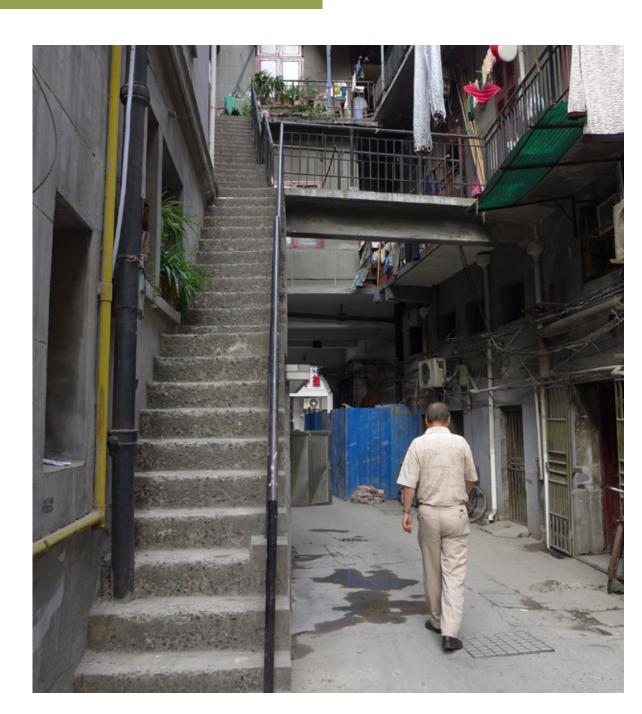
PRINCIPLES



OTHER POSSIBLE USES

IDEAS

- Do Nothing
- Community Garden
- University Related
- Student Housing
- Senior Housing
- Educational Library
- Workforce Development
- Green Space
- Farmers Market



TOOLS









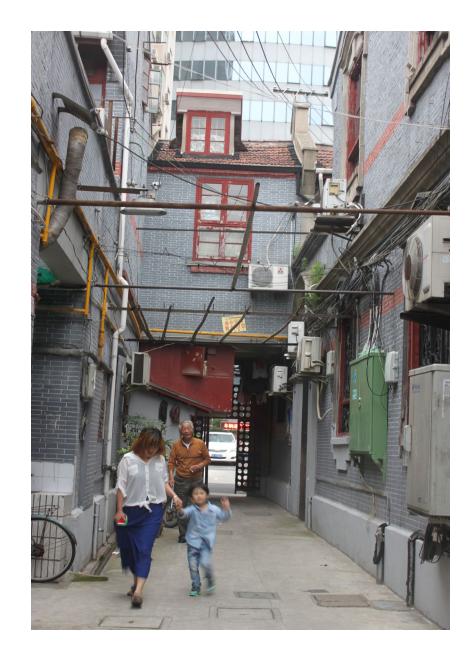
TOOLS

IN THE TOOLKIT:

- Regulatory Systems
- Community Engagement Tools
- Technical Tools
- Financial Tools

SUPPORTING IDEOLOGY:

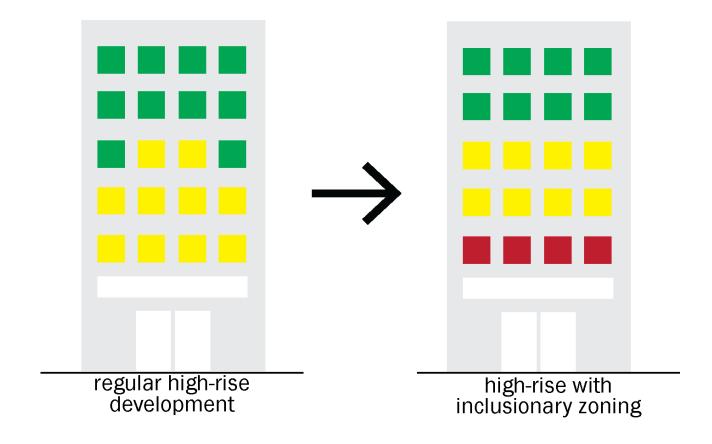
- Historic resources are for the public
- Historic values should be identified by the public
- Changes to historic resources should be managed
- Changes must be documented and analysed



REGULATORY SYSTEMS

POTENTIAL TYPES

- Infill design regulations
- Allow lilong residents to sell units
- Inclusionary zoning of 20%
- Alter definition of greenspace



KEY:

high income
mid-range income
low income

EXAMPLE: INCLUSIONARY ZONING

COMMUNITY ENGAGEMENT TOOLS

POTENTIAL TYPES

- Stakeholder mapping
- Cultural mapping
- Public meetings
- Revised development process



TECHNICAL TOOLS

POTENTIAL TYPES

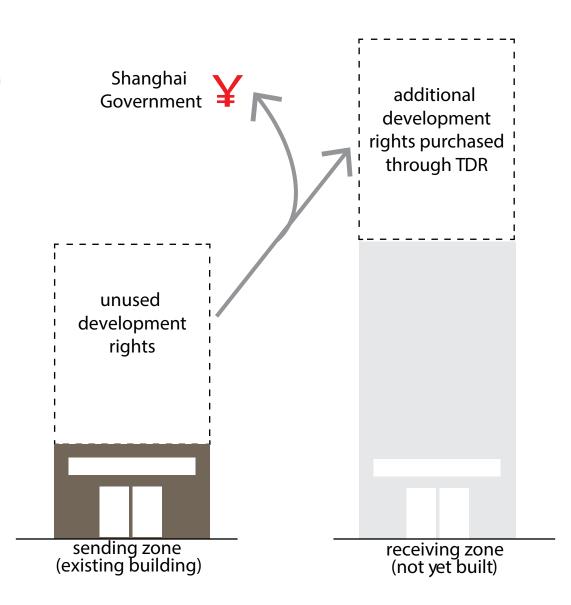
- Impact assessments
- Multi-variable cost-benefit analyses



FINANCIAL TOOLS

POTENTIAL TYPES

- Tax Increment Financing (TIF)
- Business Improvement District (BID)
- Revolving Loan Fund (RLF)
- Transfer of Development Rights (TDR)





Thank you 谢谢

ACKNOWLEDGEMENTS

We would like to thank all the people at Tongji University and WHITRAP whose knowledge and organization made our work and understanding of the city possible, and through their kindness and generosity opened a new world to us.

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University of Pennsylvania Summer Praxis, June 2014