

STITCHING LIJIAO

Towards the reintegration of urban villages in the landscape of the Pearl River Delta

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framework

South China Pearl River Delta



framework

Guangzhou's metropolitan area







"undergrowth in a forest of high-rises"

fascination urban villages





design proposal





design proposal

framework

socio-economic evolution





URBAN EXPANSION



urban villages development in stages

stage 6



disappearance of urban village into city



urban villages

lights



****** Their unique urbanisms, histories, spatial experiences, culture and cosmopolitanism could bring a more diverse texture to the future of the city. Stefan Al Stefan Al ,



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urban villages shadows

Dirty messy and inferior spaces that degrade city's form and harbor urban ills such as crime and vice.

Stefan Al



bulldozing of XianCun urban village, Guangzhou, Guangdong Province

loss of unique urbanism

urban villages top-down demolition



Qin Dynasty 221AD - 206 AD Tang Dynasty 618 - 906

Song Dynasty 960 - 1279

Ming Dynasty 1368 - 1644

People's Republic of China 1984

People's Republic of China 2020







project site choice motivation

problem field research question literature study spatial analysis design strategies •

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design proposal



how to turn Lijiao into an attractive district for both residents and the city as a whole?

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how to improve water pollution in a nature based way, in order to then revitalize the public space?

"

how to **preserve** and **strengthen** the **identity** of the **urban** village of Lijiao, by re-defining the historic relation between the **village** and the **water landscape?**



what are strategic urban villages to preserve, in order to strengthen the identity of the Pearl River Delta?

how to develop urban villages under the pressure of topdown demolitions?



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design proposal

public spaces typologies of Lingnan water village in the case of Lijiao



1 village entrance

2 squares in front of public buildings

3 main streets

Lingnan water village



4 water bodies

Third generation city theory applied to Lijiao village



human settlements in close relation with nature and dependent on it Industrial city, It exploits nature and natural resources to drive its expansion, former connection with landscape is lost

third generation city



alternative to the aggressive urban development, nature steps in again

problem field	 research question	 literature study	 spatial analysis	 design strate
			egional district villag scale scale scale	

rategies

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design proposal





district scale spatial visualization

South Haizhu district and new axis





Lijiao village historical mapping *Lijiao situation in 1920*





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Lijiao scale analysis

window of Canton



Lijiao spatial visualization

current situation of the urban village







Lijiao architectural scale sections on the water stream







4,5 m

Lijiao architectural scale section on the waterfront







4-7 m







Lijiao sections of the street profiles



1-2 m

problem field	 research question	 literature study	 spatial analysis	 design strateg

preserve adapt connect











concept designing through scales



architectonic scale



re-connecting built and landscape

public spaces toolbox

strategies applied spatially



restored creek

to connect green and blue system at a bigger scale increasing biodiversity



re-opened water stream to revive the identity of Lijiao as water-village to benefit the legibility of the routings





water plaza - sports court to introduce bigger and multifunctional public spaces that could store water during heavy rainfall



park to retain water attractive and multifunctional green spaces





to guide rainwater to main canals as a reminiscence of the former streams



to create a nature-like typology of routing to retain and guide water





re-open canal strategy climate-proofing Lijiao

nov	dec
45 mm	32 mm
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 problem field
 research question
 spatial analysis
 design strategies
 literature study







masterplan



built environment in 1920 historical monuments

Lijiao village historical mapping *Lijiao situation in 1920*






Lijiao scale current situation



Lijiao scale climate dike and waterfront design proposal







commercial ground floor

residential





public space



semi-public space

green private roof

research-by-design

variant typological study





connections



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semi-public space

green private roof

public building

commercial ground floor

residential





Lijiao village scale

urban integration of medium scale design in Lijiao's sections





Lijiao scale



Lijiao architectural scale

water for transformation: residential street



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Lijiao architectural street

reviving heritage buildings: the temple





Lijiao architectural scale

reviving heritage buildings: the Ancestral Hall



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Nelumbo nucifera

Lythrum salicaria

Thalia dealbata



Cyperus alternifolius



Canna indica







Axonopus



Aspidistra



Cordilyine Fruticosa



Exoececaria



Monstera deliciosa





Philodendron bipinnatifidum





Ficus Benjamina Linn



Koelreuteria bipinnata



Terminalia Mantaly



Salix matsudana



Tamarix chinensis







Typha orientalis



Gardenia jasminoides



Musa basjoo

Stitching Lijiao

vegetation species





1 double lights lamppost

2 single light lamppost

Stitching Lijiao

designed urban furniture: street lights



3 hanging lamppost



1 simple bridge

2 bridge with linear sitting

3 bridge with wooden fences

Stitching Lijiao

designed urban furniture: bridges



4 Ancestral Hall water-plaza bridge





a walk into Lijiao

urban canal and commercial street







a walk into Lijiao climate dike and waterfront

















a walk into Lijiao central node









a walk into Lijiao residential street: dry season









a walk into Lijiao

residential season: heavy rain season







a walk into Lijiao Ancestral Hall: dry season



a walk into Lijiao Ancestral Hall: heavy rain season



GRAZIE





QUESTIONS?