





# 2021 | ISOCARP Student Award Special Mention

Customized Community Regeneration
Improving Spatial Diversity Based On digital portraits of population,
Case Of Yuejianglou Community In Nanjing, China

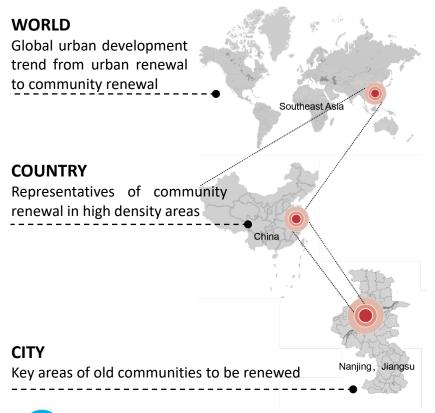
ZHANG Xun, YIN Shunyao, HUANG Yuyue Southeast University, Nanjing, China

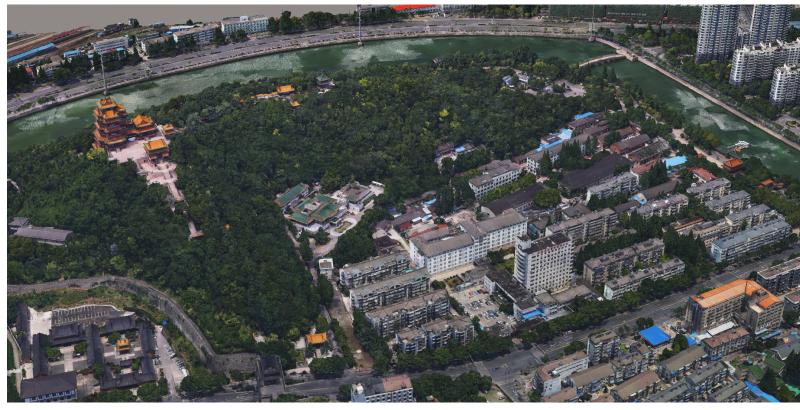




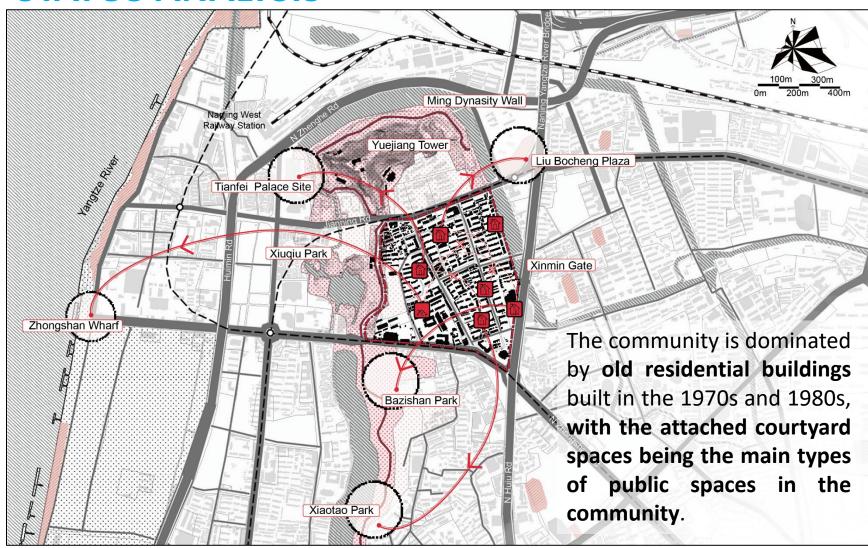
#### **LOCATION AND BACKGROUND**

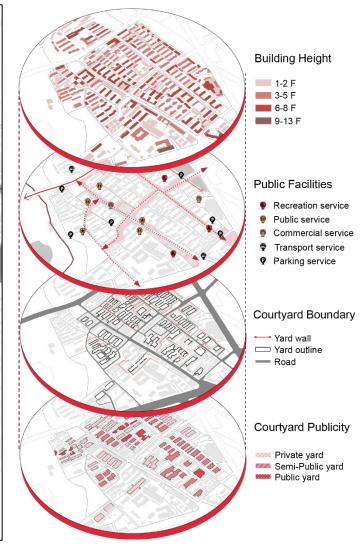
As China's urbanization enters a phase of "quality and efficiency", the renewal of community-based public spaces is becomin g a key element in achieving sustainable community development. Yuejianglou Community is a typical high-density living community with traditional Chinese "extended family" form of neighbourhood relationship. It is located in the northwest of the city center of Nanjing, China, with the Yangtse River ecological shoreline to the west.





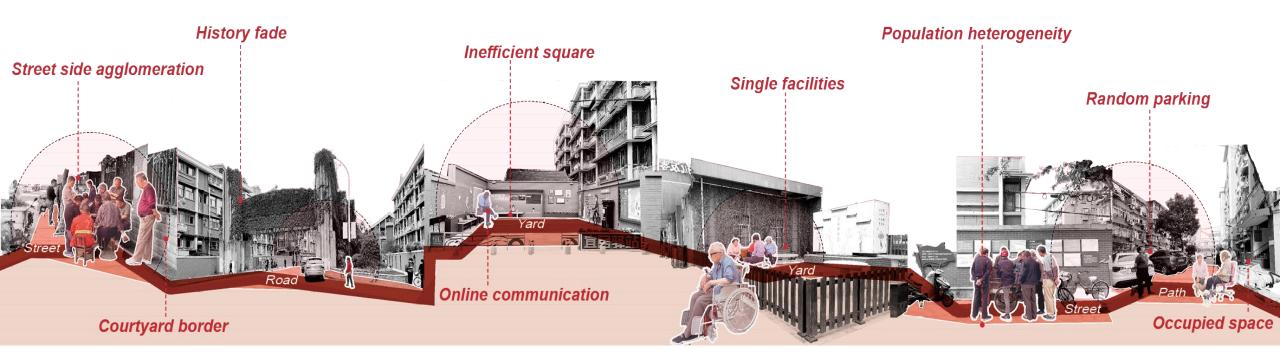
#### **STATUS ANALYSIS**





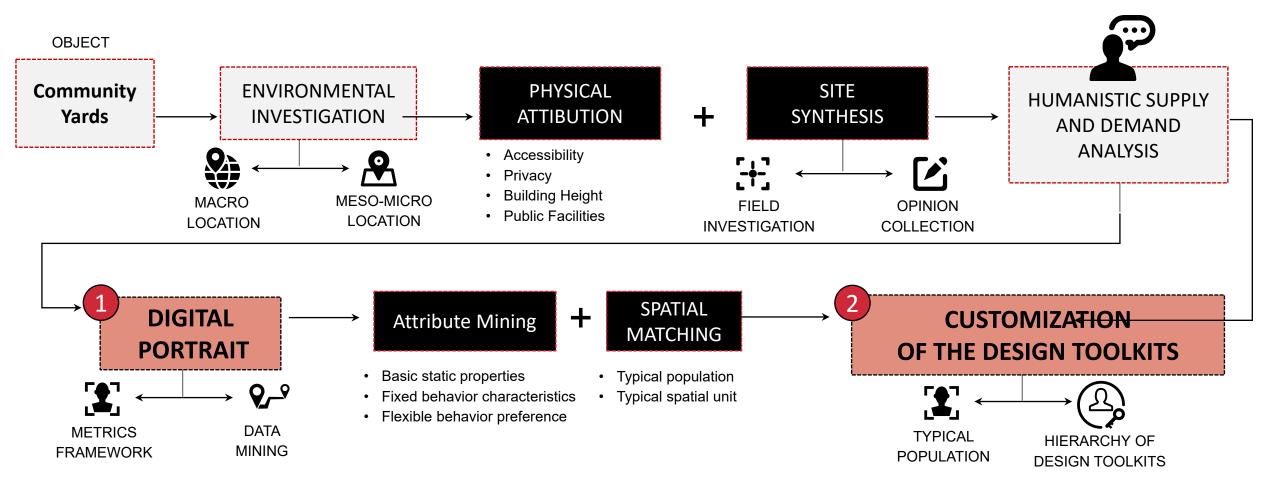
#### **CORE ISSUE**

However, these precious public spaces are in conflict with the daily activities of the residents, and have become lost space s with inefficient use. Most of the current courtyard spaces either assume a single function or become unused fragmented spaces due to their marginal location and closed nature. On the other hand, the complex characteristics of heterogeneous population in the area imply the possibility of conflicts in activities and needs of diverse groups.





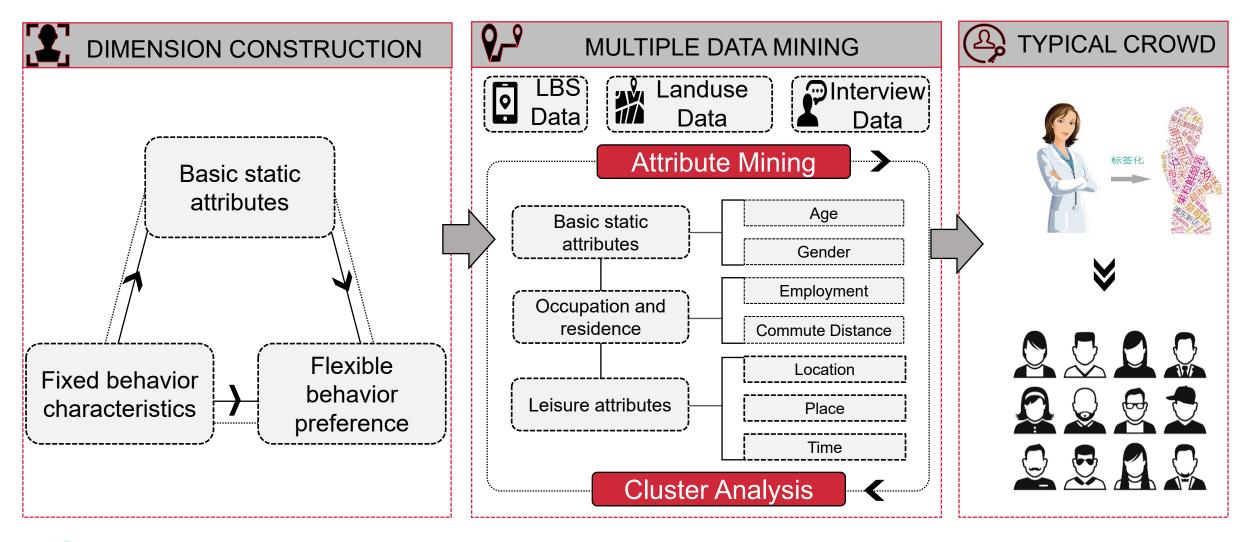
#### **CONCEPT**





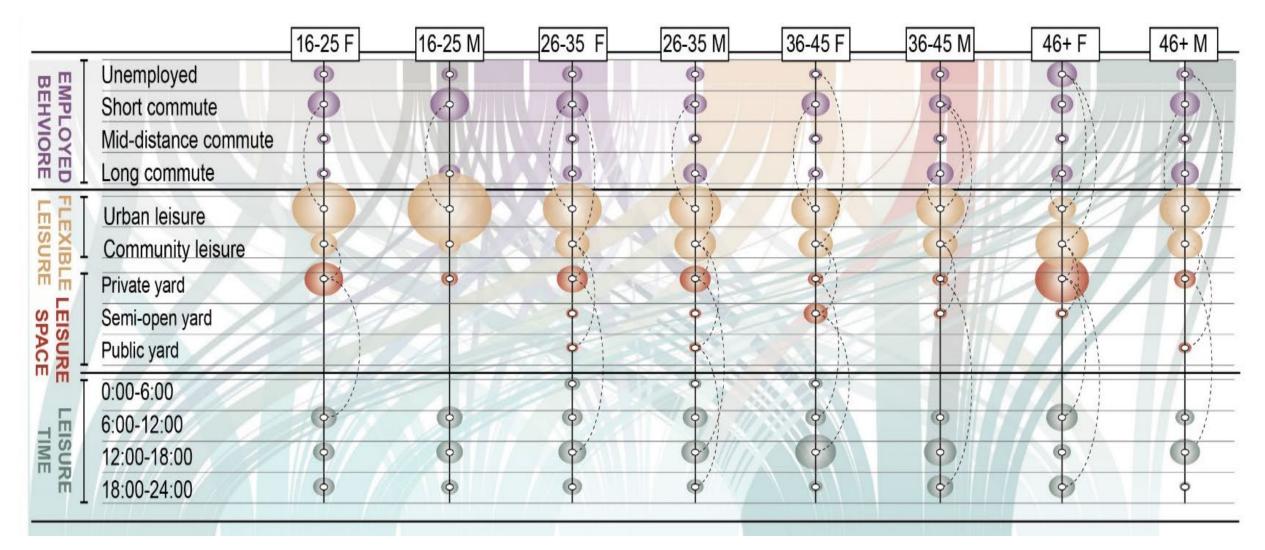
<u>A Customized Space Design</u>

"Based On Digital Portraits Of The Population"



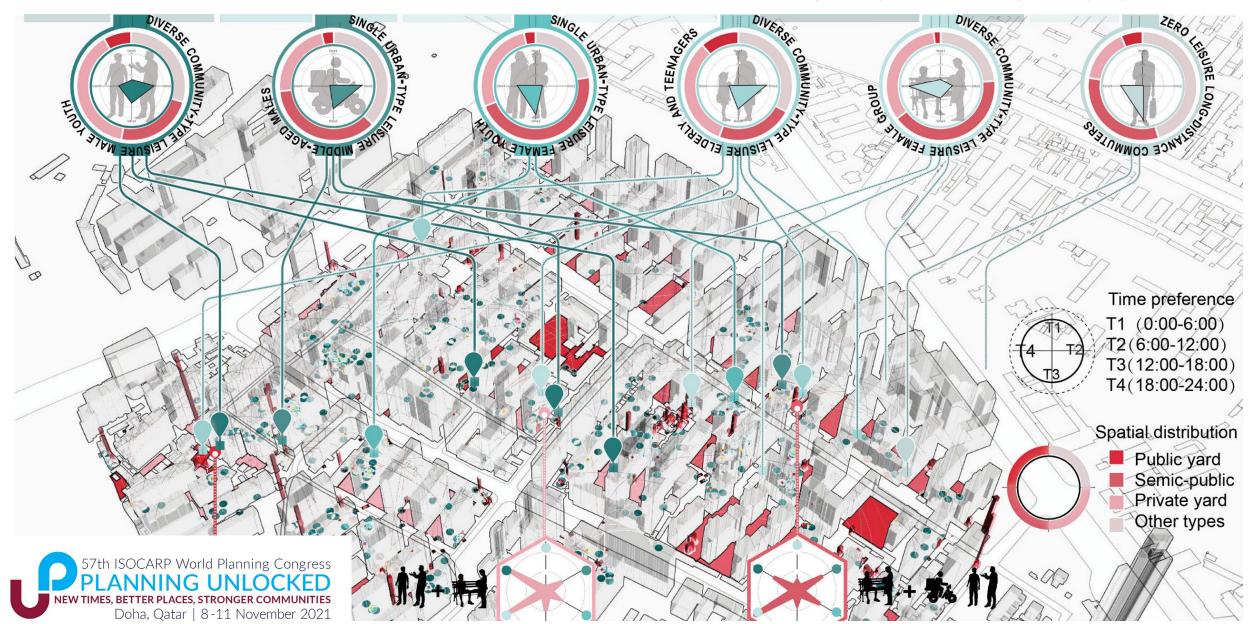


<u>Digital portraits of the population</u>

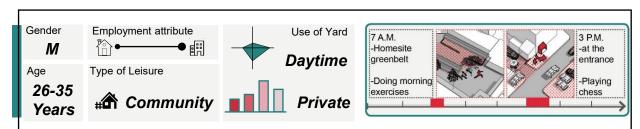


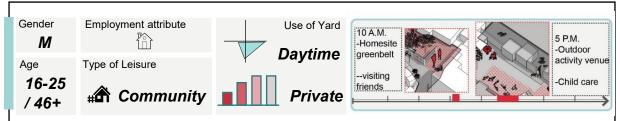


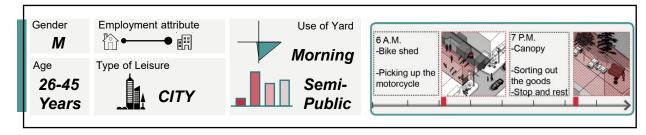
#### **Digital portraits of the population**

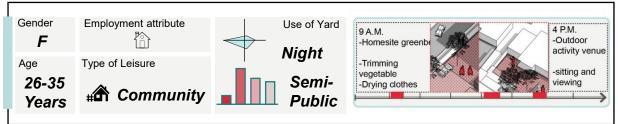


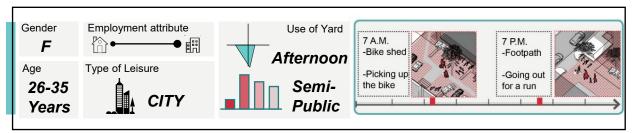
**Six typical groups** were finally identified, namely diverse community-type leisure male youth, single urban-type leisure middle-aged males, single urban-type leisure female youth, diverse community-type leisure elderly and teenagers, diverse community-type leisure female group, and zero leisure long-distance commuters.

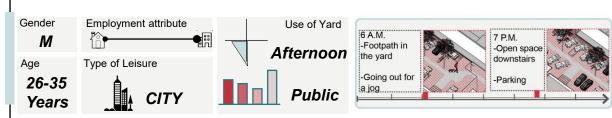
















On the basis of the results of the portrait, the project uncovered the common spatial demands of typical groups for each courtyard space. Furthermore, small data interviews with the identified typical groups was organized and the design toolkit was customized to match the needs of typical people.

Fixed basic travel needs

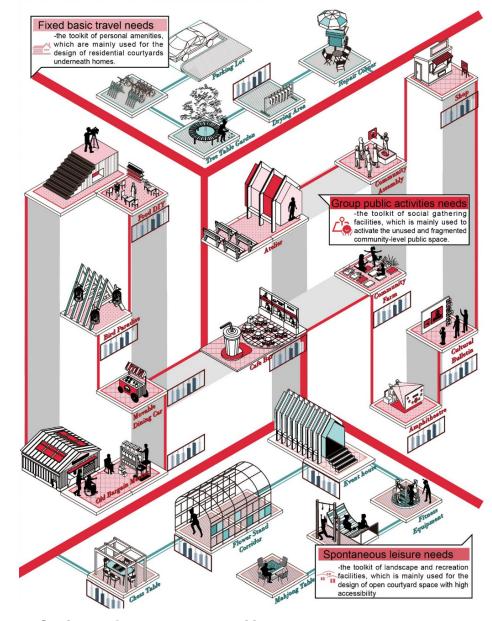
-the toolkit of personal amenities, which are mainly used for the design of residential courtyards underneath homes.

Spontaneous leisure needs

-the toolkit of landscape and recreation facilities, which is mainly used for the design of open courtyard space with high accessibility

Group public activities needs

-the toolkit of social gathering facilities, which is mainly used to activate the unused and fragmented community-level public space.





## **VARIOUS MODULAR COMBINATION PLANS**

#### **Public courtyard**





- -flexible social gathering modules for dynamic use
- -mix people for more social diversity















- -modular combination allowing stay and pass
- -match the diverse needs of different groups







#### Residential courtyard





- -divided by implanting functional modules
- linear fitness place











multiple groups.









Based on the digital portrait of the population and the customization of the design toolkits, this project generated various modular combination plans by aggregating the common spatial needs of

## TYPE NODE 1: PUBLIC COURTYAND

In the design of Type Node 3, considering the complexity and variability of its group composition, the project finally customized <u>flexible and variable toolkit of social gathering facilities</u> to adapt to the diverse functional needs of different residents at different times. For example, by placing tree tables and community stages in the spatial nodes near the food market, the project has turned it into a dynamic gathering place to serve diverse groups.

