

DESIGNING DYNAMIC MODULAR KAMPUNG FOR BAKPIA PRODUCTION CENTER IN YOGYAKARTA CITY, SUSTAINABLEDU-TOURISM AS A DESIGN APPROACH

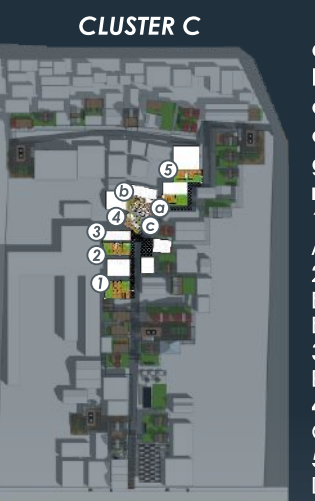
Limited space in rural area make the economic developmental become obstructed, beside that there is a slum stigma which make the tourist think twice before exploring even though there is principal comidity that evolved cooperatively creating the new identity within those local area. Because of this through the growth concept every industry and houses could have the ability to expand their capacity good with vertical or horizontal for developing an even economy.



- a. Public Entrance Cluster A**
b. Introduction to mung bean cultivation
c. Observing the processing of green bean raw materials into ready-to-process flour dough
1. BAKPIA PATHUK 526
A. Flour Dough Processing Workshop
2. BAKPIA PATHUK 39
B. Workshop of Processing and Filling Bakpia Seasoning
3. BAKPIA PATHUK ANNA
C. Bakpia Dough Forming Workshop
4. BAKPIA PATHUK 579 YUSSI
D. Bakpia Baking and Packaging Process Workshop
5. BAKPIA SENDER 543
E. Yogyakarta Local Snack Area



- a. Public Entrance Cluster B**
b. Introduction to mung bean cultivation
c. Observing the processing of green bean raw materials into ready-to-process flour dough
1. BAKPIA PATHUK 86
A. Flour Dough Processing Workshop
2. BAKPIA PATHUK 536
B. Workshop of Processing and Filling Bakpia Seasoning
3. BAKPIA PATHUK 37
C. Bakpia Dough Forming Workshop
4. BAKPIA PATHUK 757
D. Bakpia Baking and Packaging Process Workshop
5. BAKPIA PATHUK AYU
E. Area Pembelian Oleh-oleh Khas Yogyakarta



- a. Public Entrance Cluster C**
b. Introduction to mung bean cultivation
c. Observing the processing of green bean raw materials into ready-to-process flour dough
1. BAKPIA PATHUK 17
A. Flour Dough Processing Workshop
2. BAKPIA PATHUK AYU
B. Workshop of Processing and Filling Bakpia Seasoning
3. BAKPIA PATHUK AYU
E. Yogyakarta Local Snack Area
4. BAKPIA PATHUK 52
C. Bakpia Dough Forming Workshop
5. BAKPIA PATHUK 57
D. Bakpia Baking and Packaging Process Workshop



- a. Public Entrance Cluster D**
b. Introduction to mung bean cultivation
c. Observing the processing of green bean raw materials into ready-to-process flour dough
1. BAKPIA PATHUK 373
A. Flour Dough Processing Workshop
2. BAKPIA PATHUK 31
B. Workshop of Processing and Filling Bakpia Seasoning
3. BAKPIA PATHUK 613
C. Bakpia Dough Forming Workshop
4. BAKPIA PATHUK 72
D. Bakpia Baking and Packaging Process Workshop
5. BAKPIA PATHUK 63 KEDHATON
E. Yogyakarta Local Snack Area
6. Public Entrance Exhibition Area
7. Balai RW dan documentation exhibition area



MAIN ISSUE & SITE OBSERVATION

DAMAGE OF MIX USED SPACE IN BAKPIA INDUSTRIES ARE SCALE OF HOUSEHOLDS

SPACE ALLOCATION FUNCTION & BACKLOG HOUSES

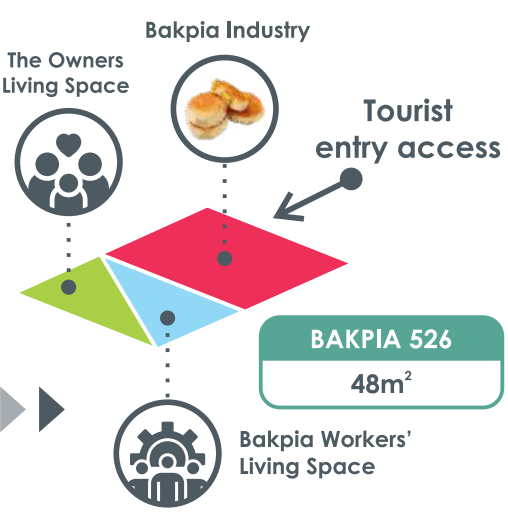
Unbalanced living space because of the limitation of space which not clear between producer and consumer while the existence of the bakpia worker who stayed around those houses also makes the phenomena of backlog increased.



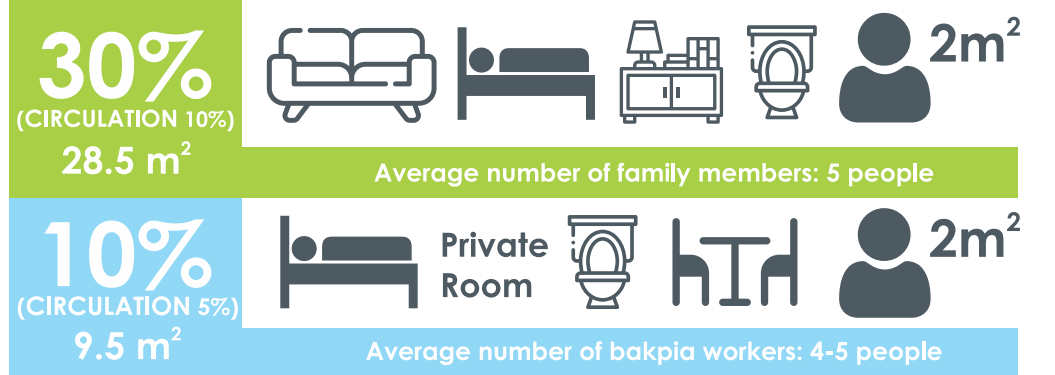
Workers who lived together with occupant in narrow space

The occupant who lost the privacy because they have to shared their personal space

The industry area and the houses becomes unbalanced because of the limitation of space which not clear between producer and consumer

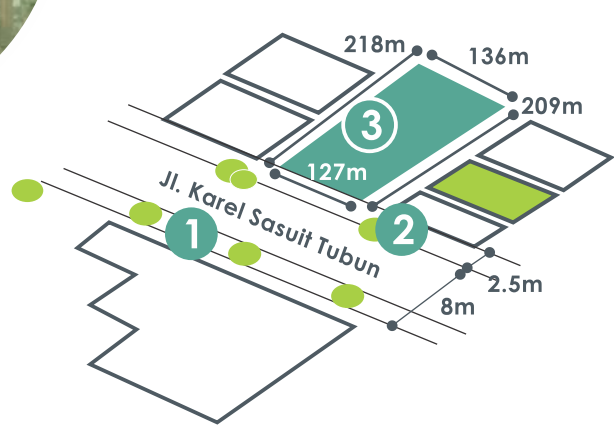


PERCENTAGE OF USING SPACE

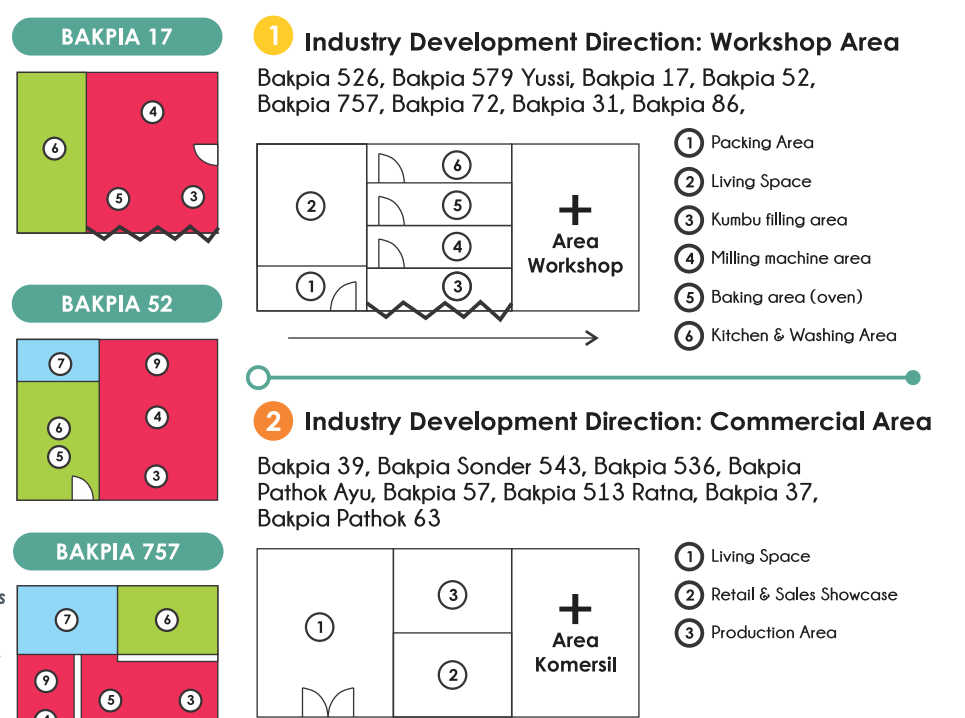
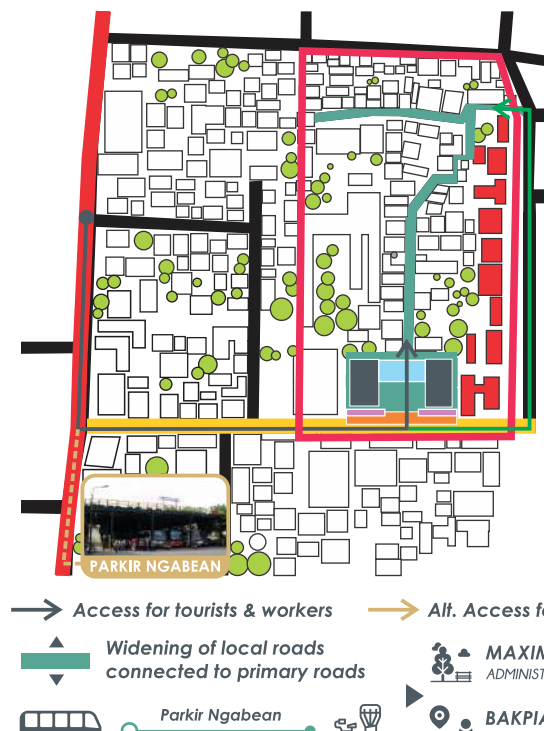
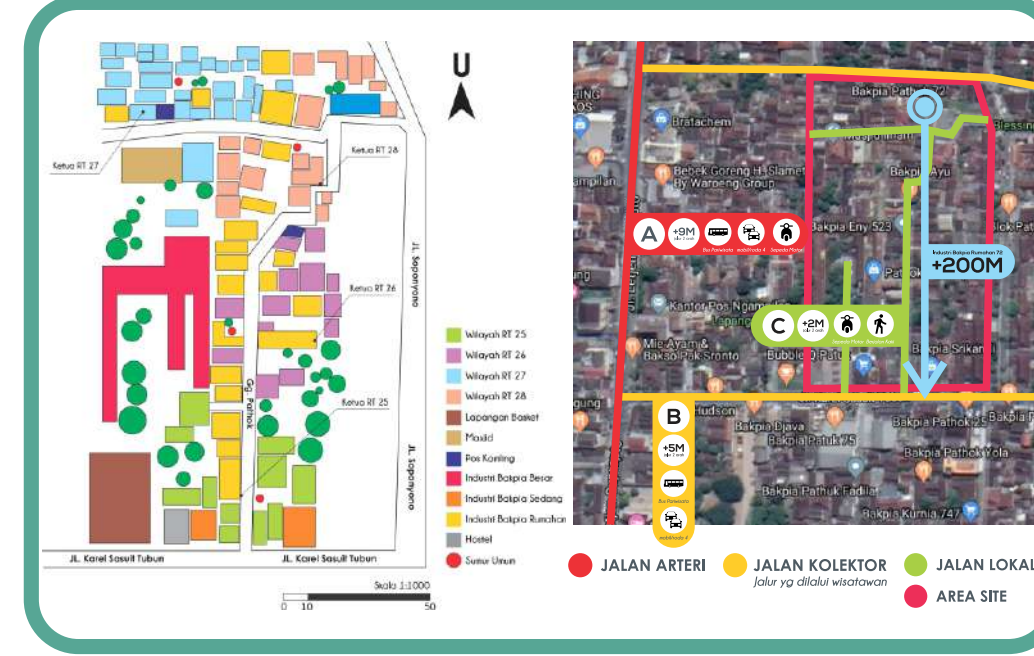


BORDER SITE

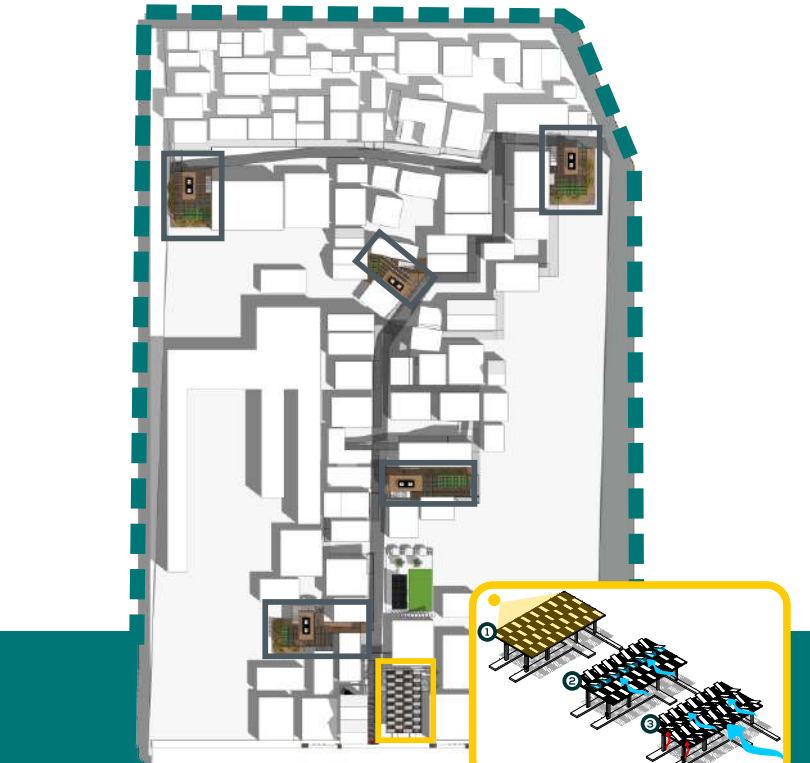
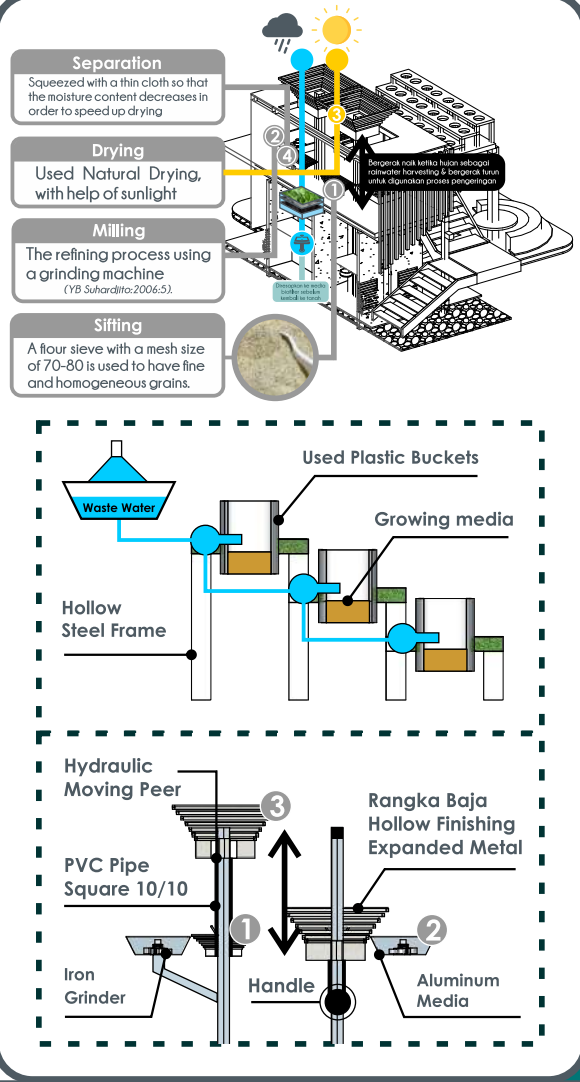
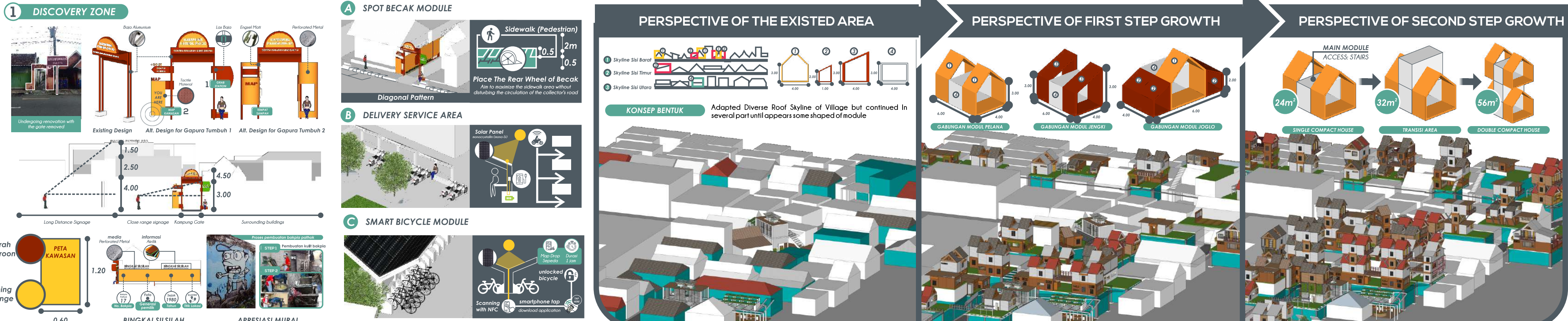
West : RW 24 Kel. Pringgokusuman
 East : Jalan Karel Sasuit Tubun
 North : RW 4 Kelurahan Ngampilan
 South : RW 6 Kelurahan Ngampilan



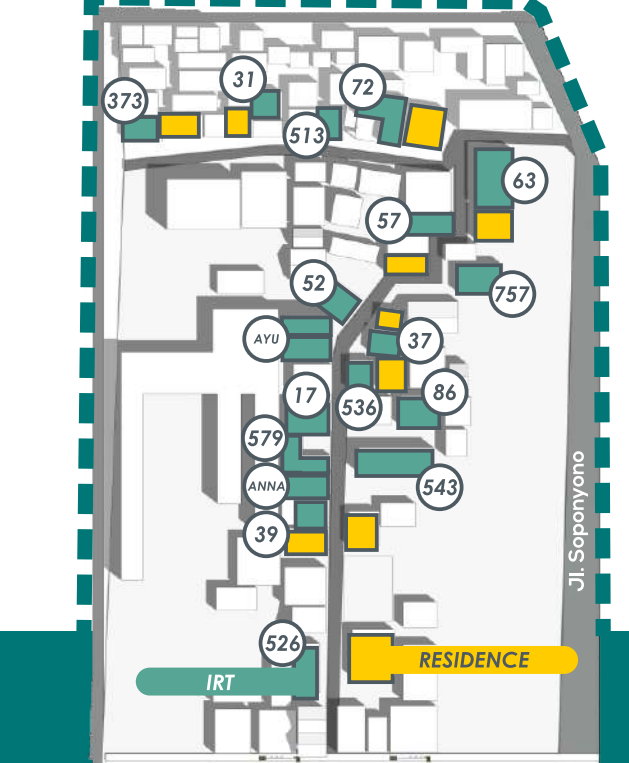
ACCESS AND FUNCTION AREA



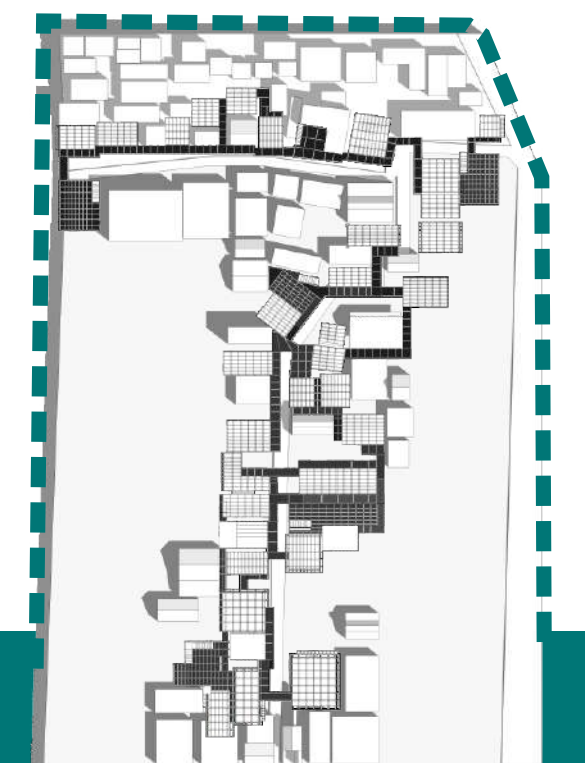
DESIGN CONCEPT IDEA: KAMPUNG TUMBUH WITH SUSTAINABLE DU-TOURISM



Addition of Edu-Tourism Facility
 Provision of the parking facility, Smart Bicycle (logia Bike Point) and raw material processing in each cluster



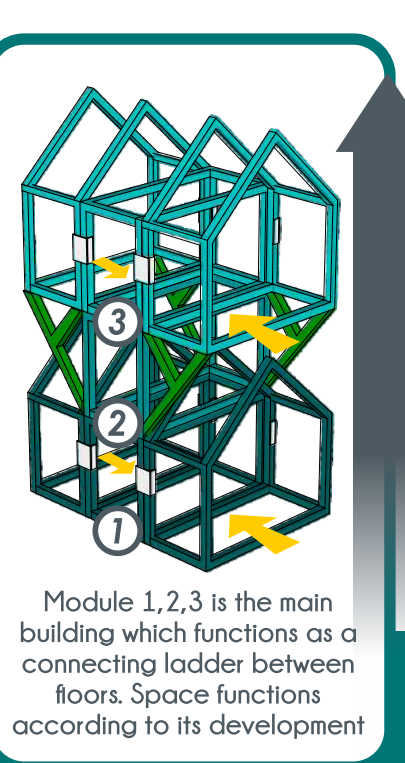
Industrial Distribution Mapping
 In Pathok Village RW 05 exist of 19 Domestic Industry which spreading in 4 RT with small, middle and big industrial category also with different numbering brand of Bakpia Pathok



Structure Installation of column & added beam
 In Domestic Industry and existed growth houses given extra foundation, column, and beam which connected with the structure of skywalk as a edu-tourism track

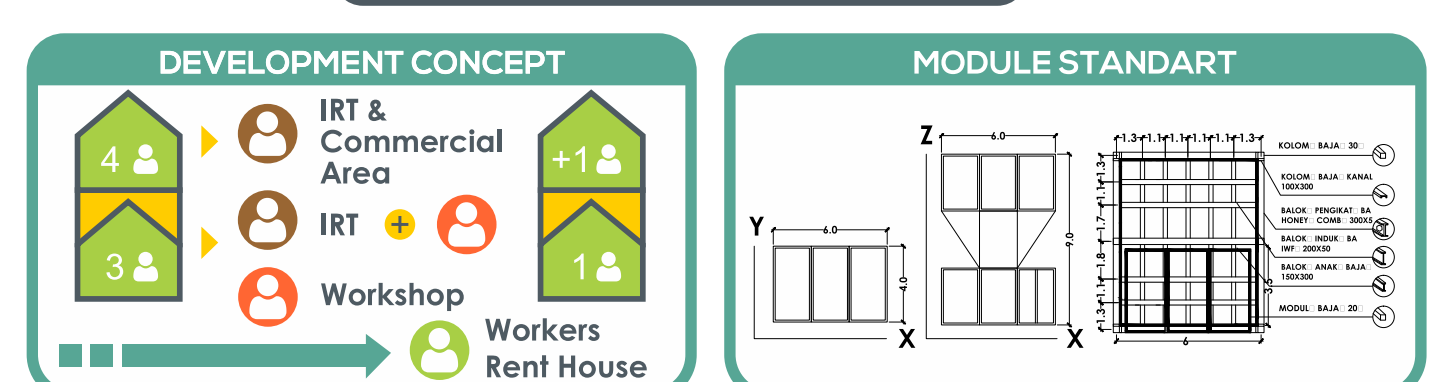


The Application of the Growth Module
 Bars modules are strung together first with main module in the middle and applicated step by step following by the development of Bakpia Domestic Industry.

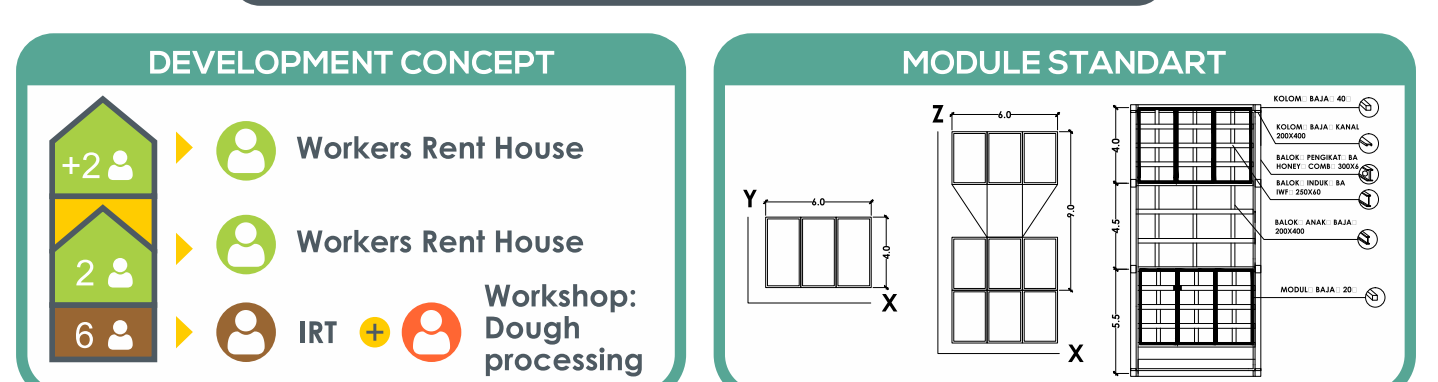


STANDART OF MODULE APPLICATION (Based on Eligibility Result of Structure Using Software SAP 2000)

SMALL INDUSTRY (32m2-56m2)



MIDDLE INDUSTRY (56m2-72m2)



BIG INDUSTRY (72m2-120m2)

