HLM*SPARK

ECONOMIC BENEFITS

SOCIAL BENEFITS

FOOD SECURITY

ENVIRONMENTAL BENEFITS

SPARK home farm

NEXT GENERATION
RETIREMENT LIVING
COMBINED WITH
VERTICAL PRODUCTIVE GARDENING

HEALTH BENEFITS

CITY CONNECTIONS

AGEING

FOOD CRISIS

新加坡面临的挑战

TWO SERIOUS CHALLENGES FOR SINGAPORE

AGEING

新加坡面临的挑战

TWO SERIOUS CHALLENGES FOR SINGAPORE

ADULT DIAPERS ARE OUTSELLING
BABY DIAPERS IN JAPAN

1.5X

20% OF THE POPULATION OF JAPAN
IS OVER 65

人口老化
AGEING

BY 2030

SINGAPORE WILL REACH THE SAME %

人口老化
AGEING

1970

13.5 : 1

DECLINING OLD AGE SUPPORT RATIO

2015

4.8: 1

*OLD AGE SUPPORT RATIO REFERS TO PERSONS AGED 20-64 YEARS PER ELDERLY AGED 65 YEARS & OVER

人口老化
AGEING

FOOD CRISIS

新加坡面临的挑战

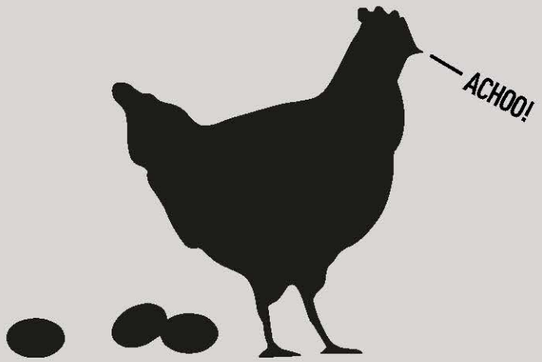
TWO SERIOUS CHALLENGES FOR SINGAPORE

1970

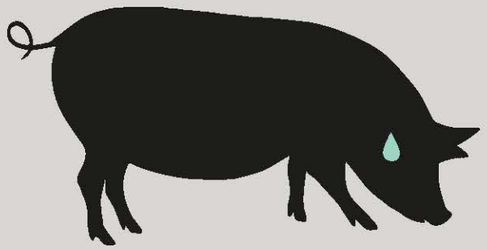
2015

REDUCTION
IN
FARMLAND

食物危机
FOOD CRISIS



BIRD FLU



NIPAH CRISIS

FOOD IN CRISIS

FOOD PRICE INFLATION

RISK

90% OF ALL FOODSTUFFS IMPORTED

RISK

70+ COUNTRIES EXPORT FOOD TO SINGAPORE

食物危机
FOOD CRISIS

home farm

AGEING ? FOOD CRISIS

新加坡面临的挑战

TWO SERIOUS CHALLENGES FOR SINGAPORE

VERTICAL PRODUCTIVE GARDEN

AGEING

FOOD CRISIS

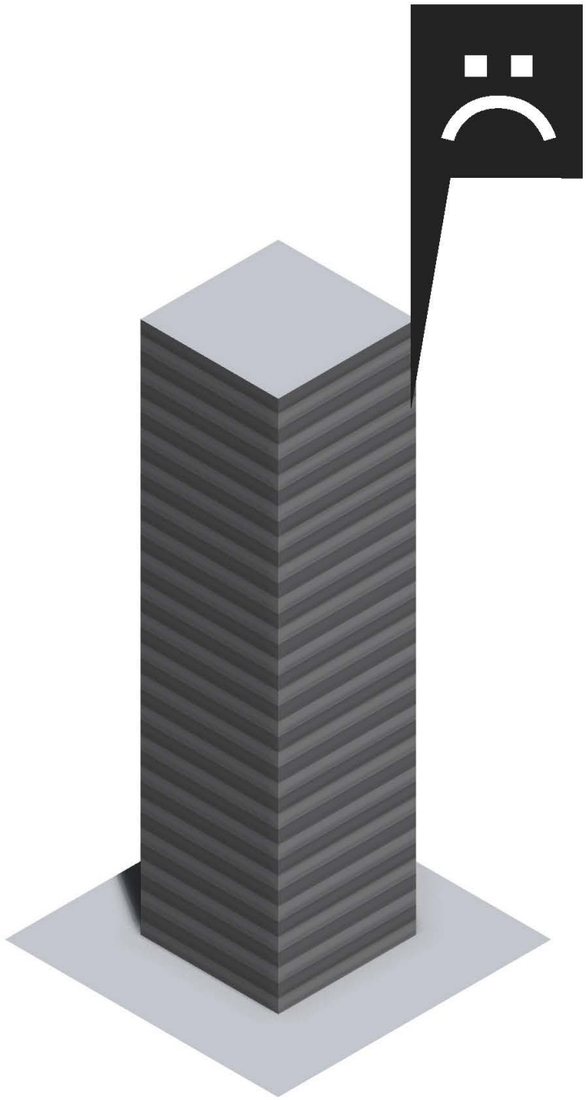
新加坡面临的挑战
TWO SERIOUS CHALLENGES FOR SINGAPORE

home farm

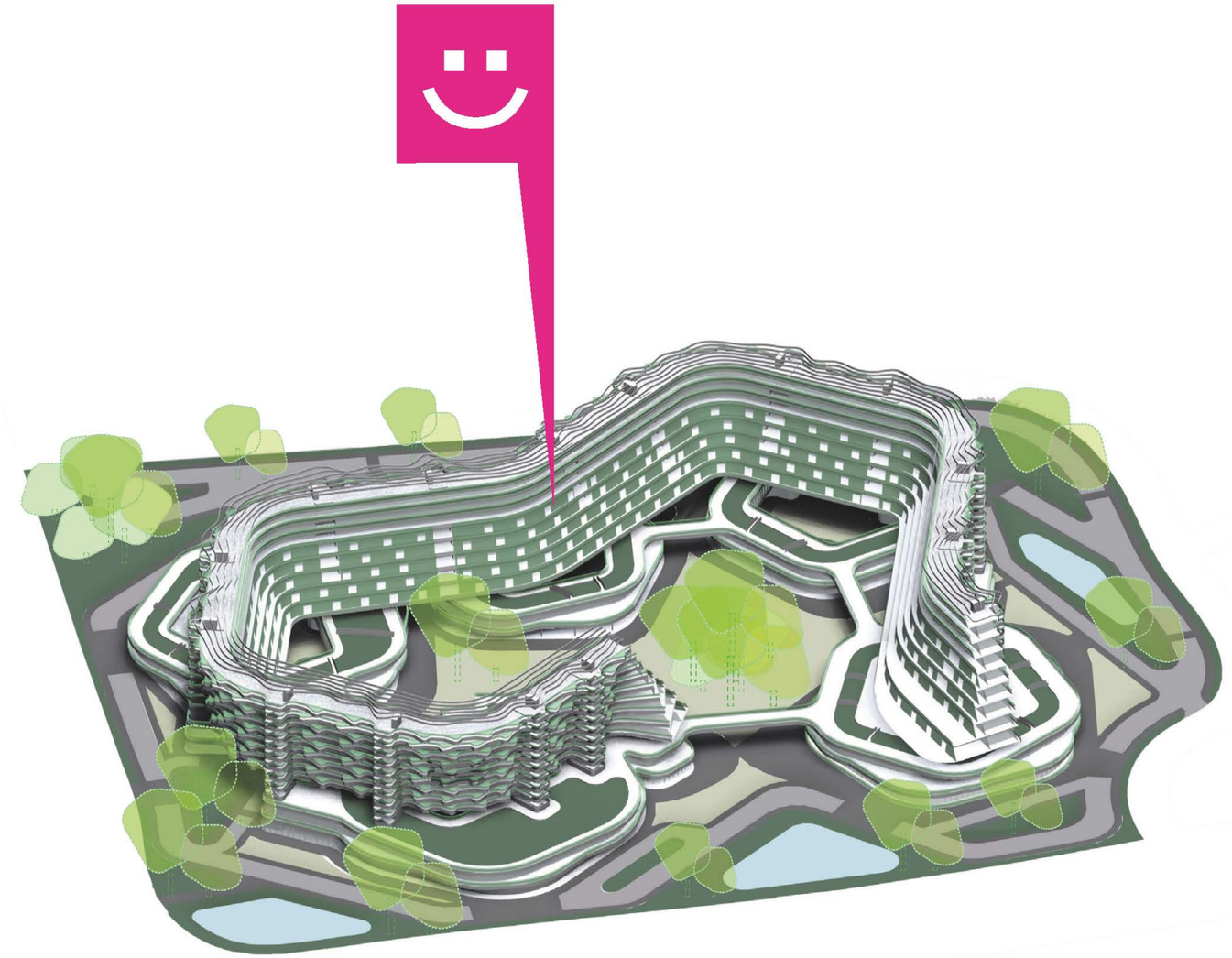
乐龄农庄

home farm

HOME FARM : A VERTICAL PRODUCTIVE GARDEN



在都市大楼过退休生活
RETIREMENT IN TOWER



在乐龄农莊过退休生活
RETIREMENT IN HOME FARM

在乐龄农莊过退休生活
RETIREMENT IN HOME FARM, THE PRODUCTIVE GARDEN

FARM SHOP

FOOD COURT

SOCIAL GARDENS

CLINIC

LIBRARY

CRÈCHE

RECREATION FACILITIES

HOMEFARM HAS "PUBLIC FACILITIES" THAT PROMOTE CROSS AGE INTERACTION: A CLINIC, A FARM SHOP, FOOD COURT, RECREATION FACILITIES AND A CRÈCHE *

走进农夫市场
ENTERING THE FARMERS' MARKET

DECLINING TRADITIONAL FAMILY UNIT

TYPICAL TYPOLOGY OF SENIOR HOUSING
GHETTO OF SENIOR CITIZENS

"I HAVE A SENSE OF IDENTITY"

'I AM PHYSICALLY ACTIVE"

"I AM FINANCIALLY SECURE"

"I HAVE SELF ESTEEM"

"I AM MENTALLY ALERT"

" I AM SOCIALLY CONNECTED"

宏愿
AMBITION

管理
MANAGEMENT

专业的都市种植团队
PROFESSIONAL HOME FARM CREW

运作
OPERATION

1 乐龄农莊的居民为全职 / 半职工作者
HOME FARM RESIDENTS AS
FULL- / PART- TIME WORKERS

2 志愿者
VOLUNTEERS

SPARK home farm

乐龄农莊的组织
ORGANIZATION OF HOME FARM

PLANTING
种植

HARVESTING
收割

SORTING
分类

PACKING
包装

TOURS
农莊导遊

SALES ON SITE
銷售

CLEANING
打扫

$

SALARY
工资

OFFSET RENTAL
免租金

OFFSET UTILITIES BILLS
免能源开资

FREE PRODUCE
免费农作物

OFFSET MEDICAL COSTS
免费保健

轻松的农莊工作
DUTIES

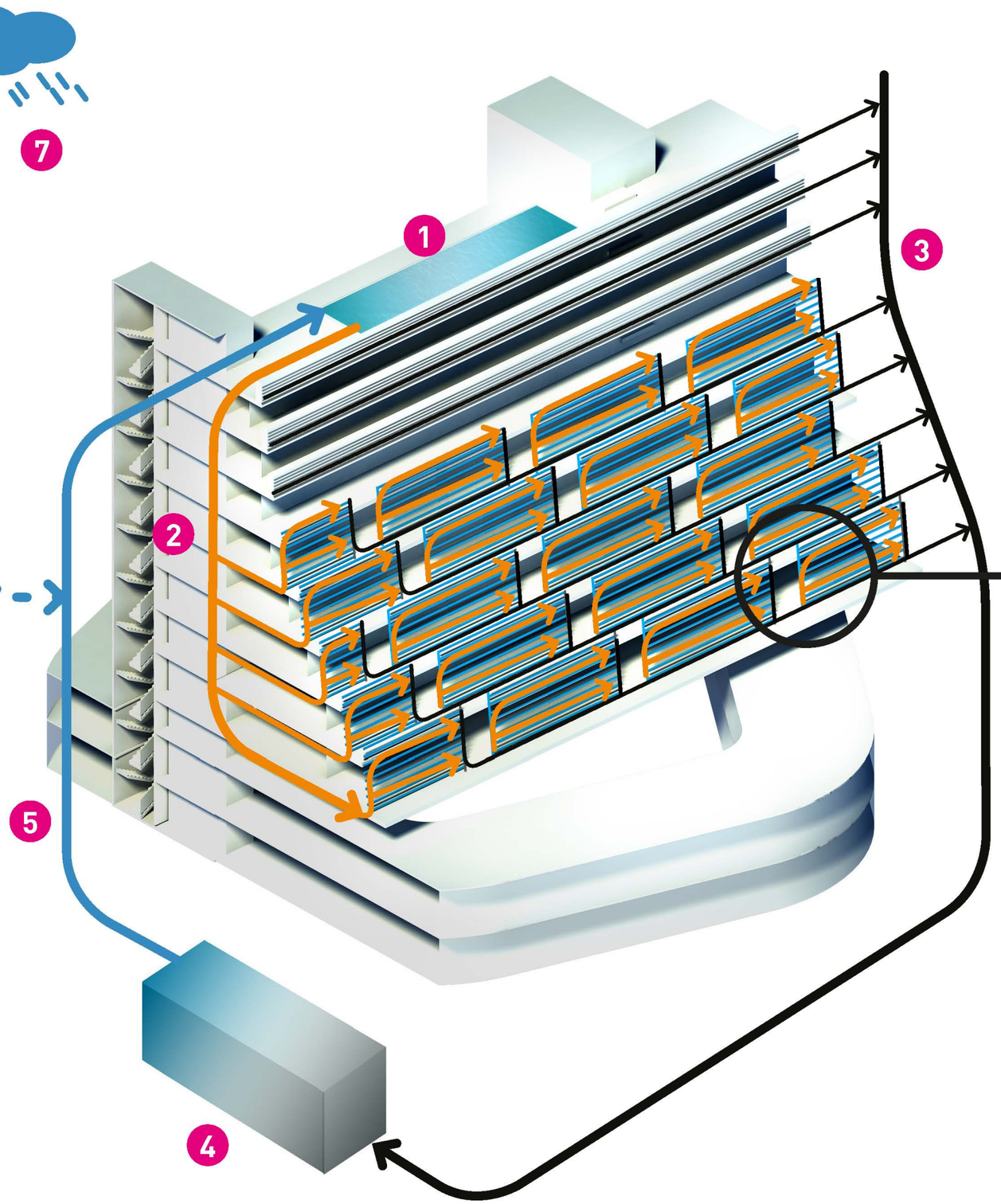
→

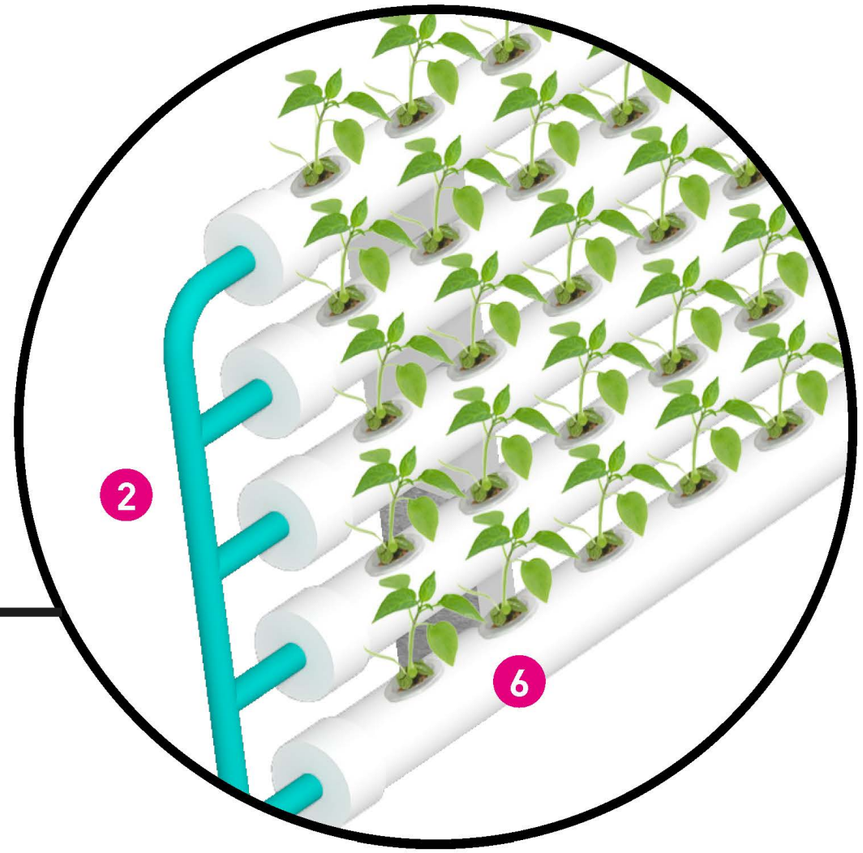
适量的财政资助
SUBSIDIES

乐龄农莊的财务资助
FINANCIAL OFFSETS FOR HOME FARM RESIDENTS

TOTAL FARMING SURFACE:
15,000 SQM
YIELD:
35 TONNES PER MONTH
REVENUE:
4MILLION SGD PER YEAR
ACCOMMODATES:
900 RESIDENTS
400 PART TIME JOBS

乐龄采摘活动
HARVESTING CROPS





1. FISH TANK FOR NUTRIENTS
2. PIPE WITH FERTILIZED WATER
3. USED WATER
4. WATER TREATMENT
5. TREATED WATER FOR FISH TANK
6. AQUAPONIC PIPES
7. RAIN WATER CATCHMENT

水种植的水循环系统
RAIN WATER CATCHMENT FOR AGRICULTURAL PURPOSES

1 APARTMENTS

2 AQUAPONIC VERTICAL FARM

3 SOIL-BASED LINEAR FARM

4 TRADITIONAL SOIL-BASED FARM

5 PRODUCE MARKET

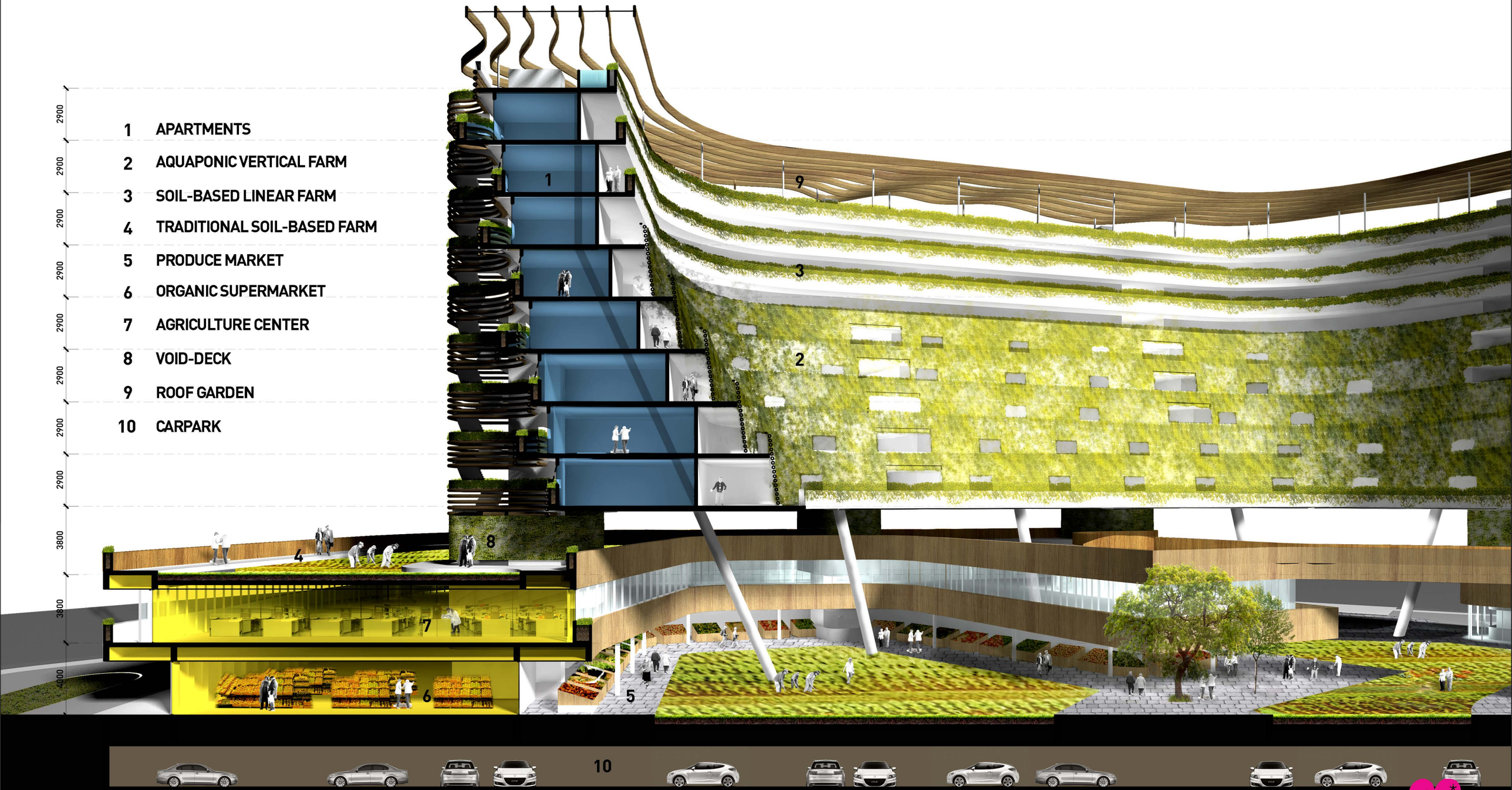
6 ORGANIC SUPERMARKET

7 AGRICULTURE CENTER

8 VOID-DECK

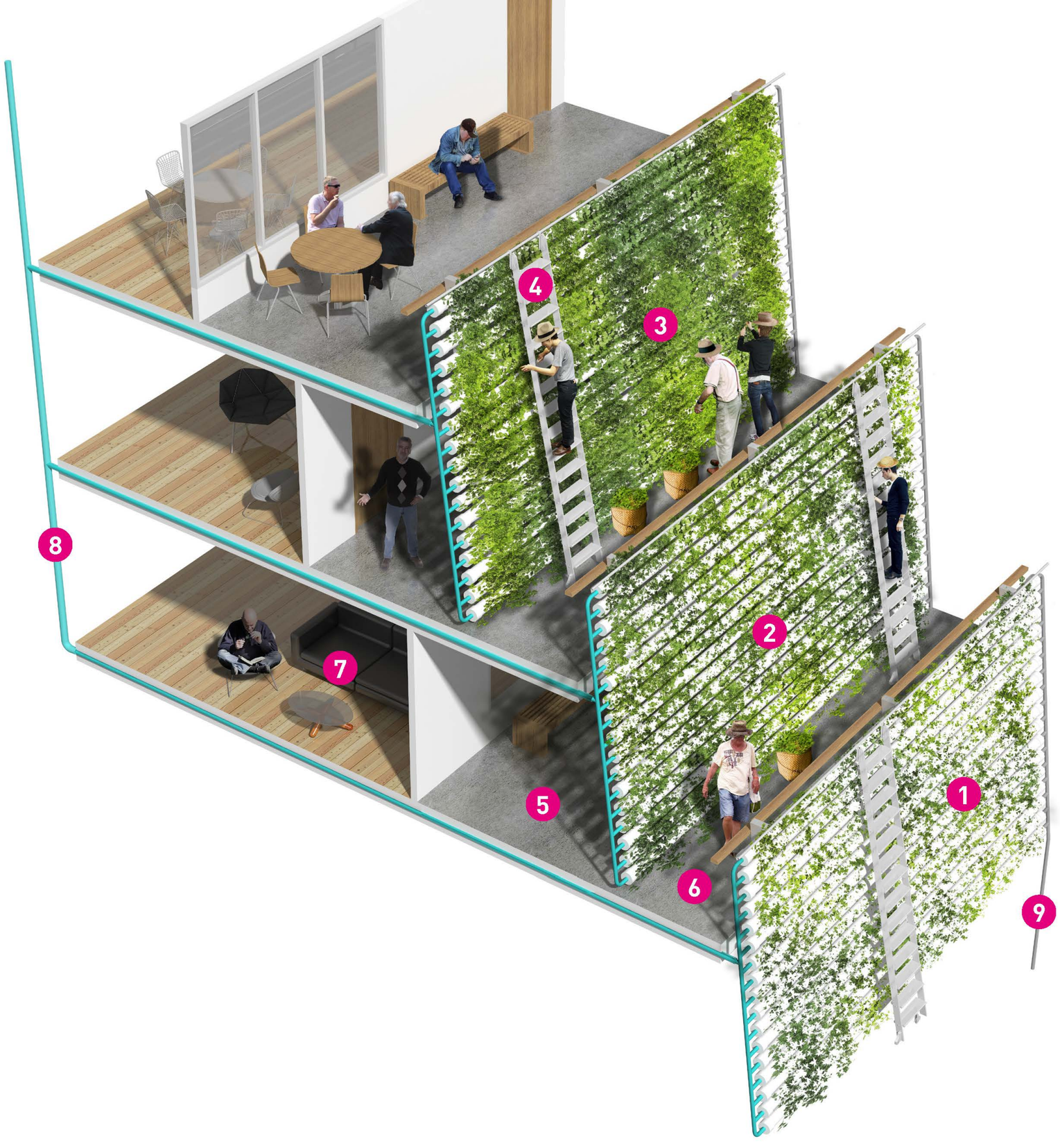
9 ROOF GARDEN

10 CARPARK



剖面 SECTION

home farm



1. NEWLY PLANTED LEAVES
2. 15-DAY LEAVES
3. 30-DAY LEAVES, READY FOR HARVEST
4. HARVEST LADDER
5. COVERED WALKWAY
6. HARVEST CORRIDOR
7. APARTMENT
8. NUTRIENT WATER
9. USED WATER FOR RECYCLING

乐龄农庄的水管垂直种植
AQUAPONIC VERTICAL FARMING IN HOME FARM

中峇魯
TIONG BAHRU

SITE AREA :
25000 M2

珍珠苑
PEARL BANK APARTMENTS

醫院
HOSPITAL

歐南園地鐵站
OUTRAM MRT STATION

乐龄农庄的地点
LOCATION OF HOME FARM

乐龄农莊的周边环境
HOME FARM IN ITS CONTEXT

PREFERRED BY

TODAY'S SENIORS

乐龄人士希望一同居住的百分比

+8%

1998 → 2008

INCREASED BY 8% IN 10 YEARS

PREFERRED BY

TOMORROW'S SENIORS

未来乐龄人士希望一同居住的百分比

+9%

1998 → 2008

INCREASED BY 9% IN 10 YEARS

PREFERRED BY

TODAY'S SENIORS

乐龄人士希望分开居住的百分比

+180%

1998 → 2008

INCREASED BY 180% IN 10 YEARS

PREFERRED BY

TOMORROW'S SENIORS

未来乐龄人士希望分开居住的百分比

+276%

1998 → 2008

INCREASED BY 276% IN 10 YEARS

HDB SAMPLE HOUSEHOLD SURVEY 2008

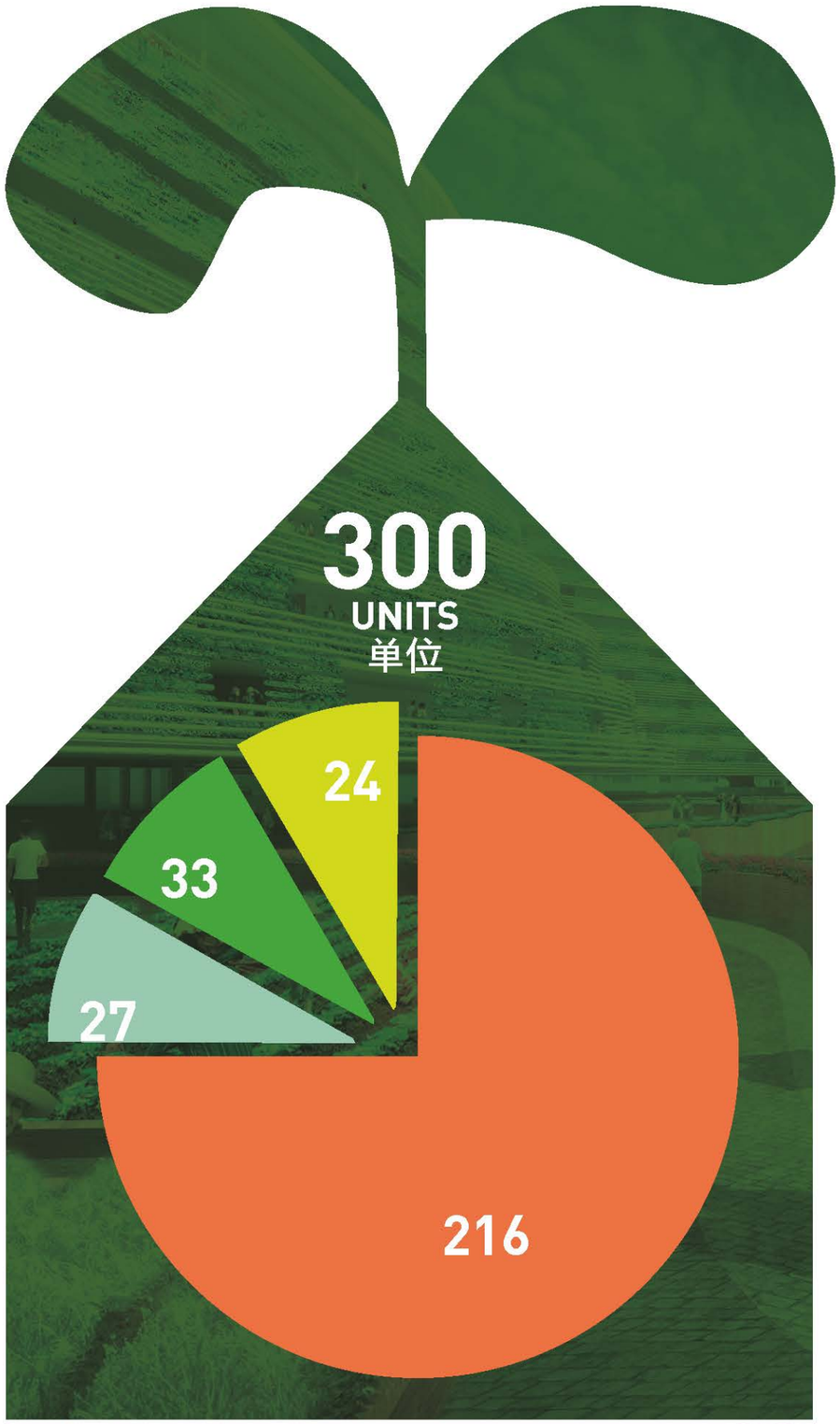
home farm

二人公寓
STUDIO
36-47M2

两睡房单位
2-BEDROOM APT
63-83M2

两门相连单位
DUAL-KEY APT
89-124M2

三代同堂单位
3-GENERATION APT
127-165M2



乐龄农庄的户型
UNIT TYPES AT HOME FARM

二人公寓
STUDIO

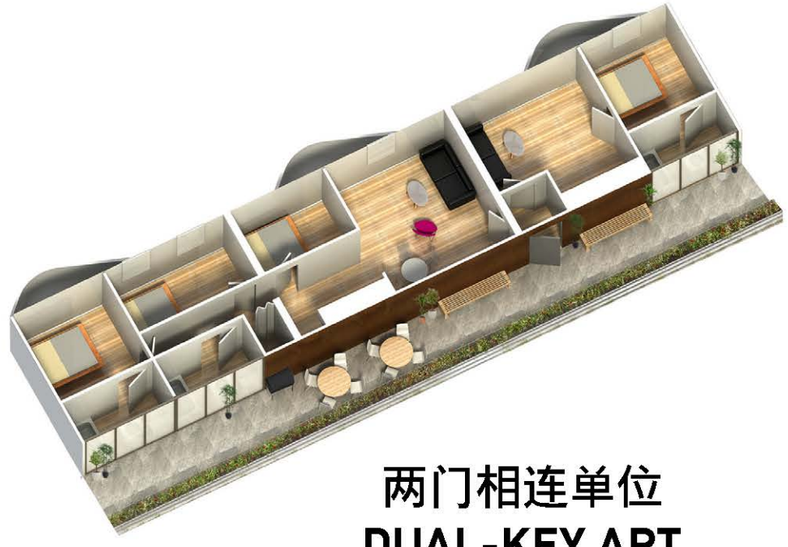
+

二人公寓
STUDIO

+

二人公寓
STUDIO

=



两门相连单位
DUAL-KEY APT

两睡房单位
2-BEDROOM APT

+

两睡房单位
2-BEDROOM APT

=

三代同堂單位
3-GENERATION APT

弹性的住宅组合
FLEXIBILITY IN UNIT MIX

乐龄农莊的日常生活
LIVING IN HOME FARM

thank you

乐龄农莊的都市田园生活

LIVING IN AN URBAN FARM

home farm