

PORTFOLIO

Creative Community Development. From urban design studio to international collaborative workshop

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Creative Community Development Workshop is a collaborative programme initiated from the two tiers of academic endeavours to achieve people's involvement to foster cities in sustainable manner. The first tier is a regular programme from a studio subject in Urban Design and Development International Programme, Faculty of Architecture and Planning at Thammasat University, UD326 Urban Regeneration, aiming to enabling students to identify and investigate a 'dead' or 'lost' urban area and create a design programme to regenerate and transform the urban environment. The studio working approach is conducted by working with the stakeholders to derive collective information, ideas and experiences for design processes and final proposal, by which must address the multiple needs of a variety of stakeholders, and is expected to be relevant to a particular neighbourhood whilst considering the impact of the regeneration on the larger city. The second tier is an annual international academic consortium event, established since 2009 upon the initiative of the Yokohama City University (YCU) called, "the International Academic Consortium for Sustainable Cities (IACSC)", as a result of YCU's participation as coordinator of the meeting session entitled "Cities and Universities – Towards Collaboration for Sustainable Cities" at the conference of CITYNET, held on 9 September 2009 in Yokohama City, Japan. Focusing on urban planning, public health and environment as the major components of cities, the consortium endeavours to develop cooperation, foster dialogues and discussions, encourage sharing of information and resources and promote networking mainly in Asia on research and collaborative activities between academic and research institutions, and establish and strengthen the linkage between universities and the cities where they belong towards capacity building for a sustainable society. Since 2010 the consortium has to date conducted 8 general assemblies and symposiums, annually rotated hosted by 6 networking universities from Japan, Malaysia, Thailand, Philippines, Vietnam and South Korea where provide teaching courses in planning, urban design, built environment and architecture. The networking universities have worked closely to compile examples of case studies with supports for the collaboration by cities, international organisations, development agencies and NGOs.¹

¹ Office of International Affairs, Thammasat University (2017). 'About IACSC – IACSC 2017 in Bangkok', in <http://www.iacsc2017.com/about-us/>, 28 December 2017, 14.10 hrs; Yokohama City University (2017).

The workshop in 2017 on Creative Community Development was an activity under the 8th IACSC Symposium on “Well-being of Sustainable Living in Aging Population Era” which was hosted by Thammasat University at Rangsit Campus. The workshop was hosted by Urban Design and Development International Programme (UDDI), between 5-11 September 2017 at the Faculty of Architecture and Planning and on-site study area in Suan

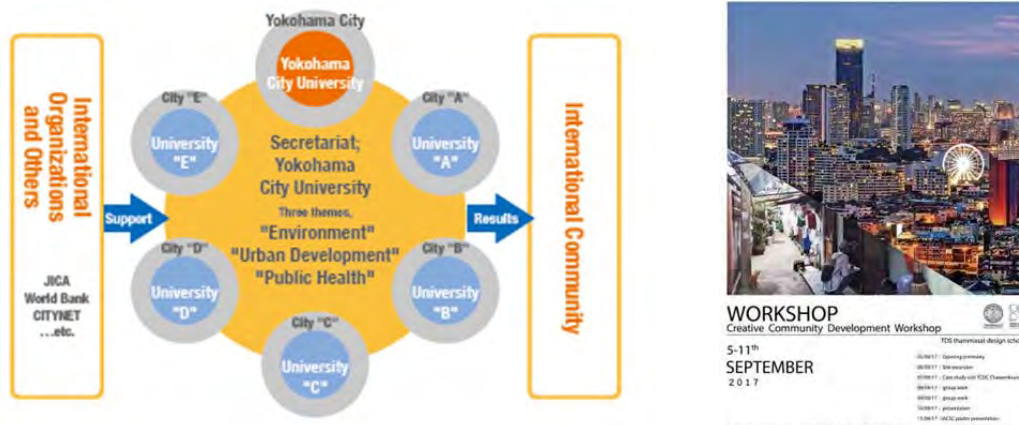


Fig 1 (left). The structure of the International Academic Consortium for Sustainable Cities (IACSC)
 Figure 2 (right) The Creative Community Development Workshop poster
 Source: IACSC, 2017

Yai Bang Kwang, Bang Kho Laem District, Bangkok, and conducted in a week session on the preliminary stage of community development study and regeneration proposal for the Urban Regeneration studio, led by the unit lecturers and studio supervisors Associate Professor Dr Yongtanit Pimonsathean, Ms Jarunee Pimonsathean and Ms Hansa Srilertchaipanij (also as the unit coordinator).

The workshop participants included 60 students, 10 instructors and 2 research assistants from four leading universities in Asia: Department of Urban and Community Planning, Faculty of Global, Regional and Urban Studies, Yokohama City University (YCU), Japan, under the supervision of Prof Dr Nobuharu Suzuki, Prof Naoyuki Kuniyoshi, Assoc Prof Dr Masahiko Nakanishi and Assoc Prof Dr Mariko Fujioka; Division of Architecture and Urban Design, College of Urban Sciences, Incheon National University (INU), South Korea, Ass Prof Hwan Yong, Kim, PhD; School of Housing, Building and Planning, Universiti Sains Malaysia (USM), Malaysia, Dr Diana binti Mohamad; and, Urban Design and Development International Programme, Thammasat University, Thailand, all the UD326 studio course supervisors and the visiting professor to UDDI Dr Mirko Guaralda, the senior lecturer from Faculty of Creative Industries, School of Design, Queensland University of Technology (QUT) in Brisbane, Australia, with the valued support from the workshop assistants Mr Jin Ho, Kim (INU) and Mr Taizo Kondo (YCU). It was apparently

‘The International Academic Consortium for Sustainable Cities (IACSC)’, in <https://www.yokohama-cu.ac.jp/en/global/iacsc/>, 28 December 2017, 14.10 hrs.

made a time for a biggest number of workshop participants in academia in this region so far.

The aims of the workshop are to promote a mutual understanding among the international students, to enhance the students' ability to propose planning scheme proposal in communicable manner, and, to give an opportunity for students to work with and contribute to the local community the community development ideas towards livability and sustainability.

Since the quality of its process that can improve quality of life of dilapidated urban areas through holistic approach, the 'urban regeneration' model was introduced to be applied for the workshop exercise to a city area where decayed conditions are found whilst rapid urbanisation has been transforming its surrounding environment. And for confidentiality, the exercise area has to be possibly accessible for the visits and data collection by approval of the landowners' consent. Finally, with the agreement among all the collaborative university instructors, an area close to a central business district in southern part of Bangkok was selected.

Background and history of land development of the study area²

The study area is called, "Suan Yai Bang Khwang", located in Bang Kho Laem District, one of the fifty districts in Bangkok. Covering 61.5 hectares kilometers and having density 164 persons/hectare, the area is administered under Bang Kho Laem District Office authority, by ten communities are registered with the local government to gain supports and budget for their community development. The land tenures in the area are rent from the Crown Property Bureau, the quasi-government agency responsible for managing the property of the crown of the Kingdom of Thailand.

The number of population in the area is between 25,000-30,000, having been mix of ethnicity since the communities established i.e. Thai Buddhist, Thai Muslims, and Chinese, and later in recent decades Laos, Myanmars, Cambodians, etc. earning livelihoods as petty traders, day laborers, company employees, etc. Some of them have participated in the community organisation activities, mostly in the pursuit of maintaining their ethnic cultures and societies, performing through religious and cultural places e.g. mosques, shrines of the city-god, community centres, etc.

The area was first developed in 18th century as a large orchard field. In 19th century the waterfront development was introduced into the nearby area, created warehouses, saw mills, rice mills and lumber settlements, and hence marked the impact on the development of the area mixing with communities, including Suan Yai Bang Khwang. In the 1950s the land was transferred to the Crown Property Bureau; subsequently, urban housing spreaded in the area over the 1960s-1970s, making communities since then. Recently the surrounding areas were dramatically developed due to the launch of the expressway project operational to the district and nearby, and the opening of the large-scale development the Asiatique the Riverfront and the waterfront high-rises.

² Pimonsathean, Yongtanit (2017). "Urban Regeneration (UR) in Bangkok", the handout of UD326 *Urban Regeneration*, session week 3, Monday 4 September 2017.

Creative Community Development

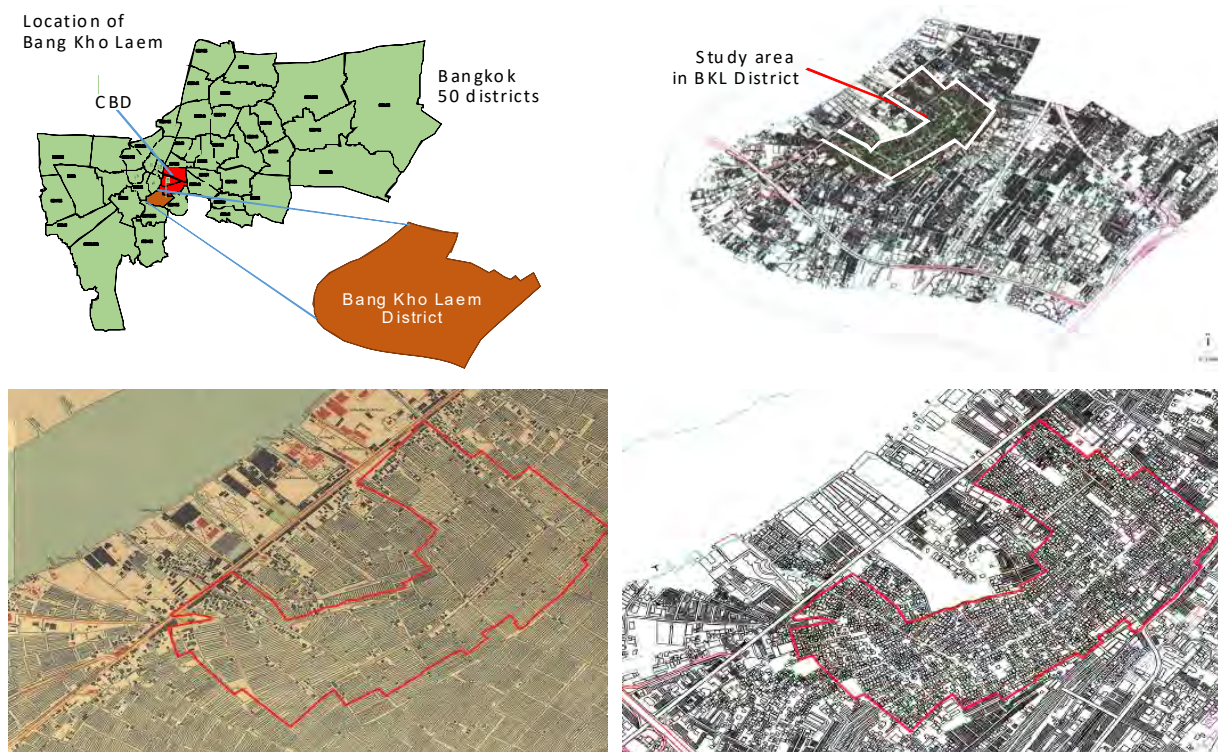


Fig. 3-4 (uppers). The location of the workshop study area, Suan Yai Bang Khwang
Fig. 5-6 (lowers). Comparison of maps illustrating Suan Yai Bang Khwang in 1930 and 2015
Source: (upper and lower right) GIS base map by Department of City Planning,
Bangkok Metropolitan Administration, 2013;
(lower left) The old land use map by Royal Thai Survey Department, circa 1930.

Along with the policy and plan defining the area to be developed under the condition of land use regulation category R-9 following the Ministerial Regulation on the Bangkok Comprehensive Plan 2013 (B.E. 2556) which indicates residential use as the major and commercial and light industry as the minor land uses, whilst allows increase of floor space ratio up to 700% with fair limit of open space ratio at 4.5%, but without limit of the building height, except those areas along the waterfront, together with the escalation of the development nearby in recent decades, the existing low-rise housing, poor vehicular accessibility, lack of open and greenery spaces, sub-standard public services provision and living with the polluted canal, Suan Yai Bang Khwang hence has been a focus for potential area for the future development of Bangkok.

The workshop format

The workshop was directed into three sections throughout 7 days, from the workshop commencement, field visit and survey, to group discussion and developing proposals to report to the consortium; all of which were conducted on site visit and in the workshop room at the campus.



Fig. 7-10 The evolution of land development surrounding Suan Yai Bang Khwang:
(upper left) Former Prayakrai Temple, now turned into the Asiatique the Riverfront;
(upper right) The East Asiatic Port Warehouse in early 20th century;
(lower left) Former Prayakrai Police Station; (lower right) The present Asiatique the Riverfront
Source: (uppers) Baanjompra; (lower left) Watphrayakhrai.metro.police;
(lower right) Yongtanit Pimonsathean, 2017

The first section was undertaken in the first half of day 1 at the campus by the introduction to the programme and the ideas and experiences shared through country reports by the delegates from the four universities, marking issues and solutions for community development through cases of their home cities. Subsequently, the lecture on urban regeneration in Bangkok, history and the current development circumstances in the study area was given by Assoc Prof Dr Yongtanit Pimonsathean from UDDI. The second section was set out on the second half of day 1 to day 3, by which all participants divided into 10 groups conducted the in-depth interviews with key informants of the study area i.e. community leaders, local organisation leaders, etc. on the site visits and collected basic and essential information of the communities' households and livelihoods, and conducted observations for physical appearances of the area.



Fig. 11-14. The circumstances of Suan Yai Bang Khwang:
(upper left) The main road access; (upper right) The densely low-rise housing;
(lower left) Poor vehicular accessible; (lower right) The polluted main canal
Source: Yongtanit Pimonsathean, 2017.

Besides, on day 2 all participants visited and attended a lecture by TCDC and the guest lecturer, Mr Thanan Lilaonitkul, the manager of Creative District Bangkok, on “Co-Creation Development” at Thailand Creative and Design Center (TCDC), Bangkok Office, to derive the ideas of the creative development and shared experiences from the cases applied. For the third section, in the evening of day 3 to day 5 all participants returned to the campus and sitting together doing group discussion, sharing materials and ideas from the site visits and data collection to consolidate identifying the negative and positive assets of the study area, after that, developed ideas to propose solutions for community development particularly concerning holistic approach by means of integrative involving stakeholders under their basis of needs and resources availability. The group work was conducted under the supervision of all the workshop instructors in the format of desk critics and panels throughout days and nights.

Towards the students’ proposals on the study area regeneration, the final product of the work was presented through slides on day 6 at the workshop final event and debriefing, and following the supervisors’ instructions prepared posters in the format of sets of 25 creative idea cards by each group of the students in order to be presented at the 8th IACSC on the following day. The final proposals introducing urban regeneration into Suan Yai Bang Khwang ranged from enhancing mobility and accessibility, community betterment, housing development, and disaster prevention, connecting the residents and the main canal, boosting the local economy, improving the community development, tidying spaces and creating green space, to creating local street markets into the area.



Fig 15-18 (upper left and middle). The workshop opening ceremony, introduction and lectures;
 (upper right) The workshop participants on field survey along the reconnaissance route;
 (lower left and middle) Suan Luang I Community welcoming the workshop participants on the site visit;
 (lower right) The community leader of Suan Luang I Community was presenting the successes
 and lessons learnt from the community initiative programme
 Source: (upper left) Naoyuki Kuniyoshi, 2017; (upper middle and right; lowers) Jarunee Pimonsathean, 2017



Fig. 19-24 (uppers). A workshop participant team visited a community in the study area
 and conducted in-depth interview with the community leader;
 (lowers) The workshop participants visited and attended the lecture on “Co-creation Development”
 at Thailand Creative and Design Center (TCDC) at the Old Head Quarter of Post Office Building
 Source: Naoyuki Kuniyoshi, 2017

Creative Community Development



Fig 25-28. Group discussion and instructors' supervisions at Thammasat University after the study site visits and data collection, for identifying positive and negative assets of the community
Source: (uppers and lower left) Jarunee Pimonsathean, 2017; (lower right) Naoyuki Kuniyoshi, 2017



Fig 29-34 (uppers). The 25 idea card poster format; (lowers) The workshop final event and debriefing
Source: (upper left) Mariko Fujioka, 2017; (upper middle and right) Jarunee Pimonsathean, 2017; (lowers) Naoyuki Kuniyoshi, 2017

Group

1

MOBILITY and ACCESSIBILITY

Hierarchy of streets 001


KEYWORDS

- Different width of streets help to easy finding.
- It helps the fire truck to get in the middle of the community easier
- Improve the route network

The Street for all

This concept means to be safe and accessible for the community in which our focus users are kids and elderly. Furthermore, we also promote bicycle and pedestrians friendly. As a result, this is to emphasize connections within community and other areas of Bang Koh Leam. The design is to encourage people in the community to interact with their neighborhood and promoting healthy lifestyle inside the community. We will not destroy their lifestyle but we will improve their qualities of life inside the community.

Members



Pattapong Theekhieo
Pimchadah Pattananarongkorn
Raito Sato
Sang Cheon Han
Nur Elisa Hanim JAMAL OMAR

Function of roads for Elderly 002

KEYWORDS

- The alley are dark during the night make it hard to move for the resident. Because of safety issue.
- Upgrading the alley by using universal design to improve the elderly lifestyle.
- Encourage walking and promoting healthy lifestyle.

Function of roads for Children 003

KEYWORDS

- The road are not safe for children to walk and play.
- A complete chain of play facilities to use for daily basis (School, Play Area, Community etc)
- Provide safety and comfortability while using the alley during the day and night.
- Encourage to walk within the community and healthy lifestyle.

Maintenance regulations 004

KEYWORDS

- Current maintenance
- To keep current situations in the good condition all the time

Speed regulations 005

KEYWORDS

- It's dangerous for pedestrians because there are many motorcycles.
- Speed limit to motorcycles in the community.

Development Regulation 006

KEYWORDS

- Dividing the development plan into phases.
- Phase 1: Without the street, create public space, avenue, safety, etc.
- Phase 2: Set new regulation or if the street needs to increase an avenue to give 5% of the land for public purpose.

Connect the cemetery to the community 007

KEYWORDS

- The cemetery have the widest land in the community. It can have a high fence that make the area more secure than before it is.
- Link cemetery with the community by using visual connectivity by lowered the fence of the mother's cemetery.
- This will give different perspective about the view of the area.

Path for heavy loads 008

KEYWORDS

- Redesign the path for heavy loads
- This is for special occasions or event exhibition.
- Community need permission to use the path

Area information board 009

KEYWORDS

- limited info on the area
- Provides board with info related to background, organization, numbers in case of emergency

Cover canal 010

KEYWORDS

- Cover the canal will give the road more spaces.

Street separation 011

KEYWORDS

- Zoning
- Separation
- Separate street bike, pedestrian, flow etc...

Bike Sharing system 012

KEYWORDS

- Majority of residents cannot afford a car
- mostly are also elderly and children that cannot ride motorcycle and only prefer walking

Cleaning system 013

KEYWORDS

- provide cleaning system based contain information eg. routing of trucks collecting trash
- placement of trash bins

Alternative Transportsations 014

KEYWORDS

- For elderly and disabled persons, it's not comfortable to move
- Possibility for other mode of transportation
- Other mobility devices that accommodate elderly and disabled persons.

Change the wall 015

KEYWORDS

- The wall in front of houses make alley narrow.
- Install wooden pattern walk.
- People will feel the road more comfortable than concrete walk.

Display something to amuse people 016

KEYWORDS

- There are no attraction things on the alley.
- Install long brick board on the wall. Resident can describe an information about their communities and local map.

Connecting dead ends 017

KEYWORDS

- Install pedestrian bridge over or under the dead ends.
- along the pedestrian bridge, provide the hand rails

Event street 018

KEYWORDS

- limited space to do an activities
- Reorganize a street to become an event exhibit by the table to create community value and encourage community based activities.

Green Wall 019

KEYWORDS

- thick and huge concrete wall make surroundings dull.
- instead of concrete wall, residences are allowed to have Green wall.
- Residents get relaxing and prevent noise from street etc.

Install the different types of light 020

KEYWORDS

- There are no light at all very dangerous for community.
- for the safety,
- It can be different types of lamps according to the conditions or characteristics of alley

install multi-usage box 021

KEYWORDS

- It can be used for information base and crime prevention box
- elderly people have knowledge about their area

Street names 022

KEYWORDS

- the name must be considering characters of each street.

Install small disaster prevention facility 023

KEYWORDS

- people in this community have trained for treating fire or medicine.
- However, the community does not have any facility for fire safety

Smart mobility 024

KEYWORDS

- connecting platforms:
- One call Service
- Connected transportation through online network
- Bring outside transportation to the community

Utilize open spaces 025

KEYWORDS

- Set back between houses can become a meeting point or small parking spot
- House frontage can become a meeting point or small parking spot

Fig. 35. The 25 idea card poster from Group I. Source: IACSC, 2017

Group 2 Community Betterment

01 Enhances Muslim Festival

KEYWORDS

- promote muslim culture

eg. Eid Mubarak Festival, Ramadan Festival and Awal Muharam Festival

To improve quality of life

Suan Luang 1 is one of the community located in Bang Kho Laem district. The first weekend of the month, there will be a market along the Suan Luang canal. Our group theme is local economy. We came up with the idea of the "community betterment" concept. The concept derive from the notion of wanting to make a better community where it will lead to social status. It composes four components; preservation and tradition, health and environment, commercial and economy and education.

Members



Izzati Hilda bt Azizan
Voracha Smith
Yuri Hatanaka
Korrawit Kanjanakuha
Yeong Taek

02 Making Various of Halal food

KEYWORDS

- as a symbol of health,
- to show the culture of a muslim community
- very convenient to muslim visitors

03 Producing Muslim Clothes

KEYWORDS

- promote the muslim attire to the tourist,

eg. Hijab, kopyah, sarung and Jubah

- to let tourist experience muslim culture

04 Traditional House Preservation

KEYWORDS

- Preserve for the next generation
- Reducing Thai tradition

eg. naming a guest house

- Making money with cheap funding
- Returning profits to the area
- eg. cleaning canal

05 Expanding Their Traditional Knowhow

KEYWORDS

- teaches the traditional knowhow to the young generation
- inherit the tradition
- creating job opportunity by having the skills

06 Water Purification

KEYWORDS

- water flow of the canal not flowing freely,
- it cause the water become dirty and smelly

SOLUTION:

- installing water turbine,
- Making regulations to keep canal clean

eg. Oil to absorb garbage after washing with paper,

07 Renewable Energy

KEYWORDS

- Introduces the alternative energy resources
- solar renewable energy which is more sustainable
- set led electronic energy to SGAT
- their using of energy for street lights, water turbines

08 Improving landscape greenery

KEYWORDS

- Poor soil condition
- reduce vertical garden

- green campaign
- education and connecting other area

- Attract people by using the aesthetic aspect of the landscape

09 Gathering Space

KEYWORDS

- ensure that the gathering spaces are for everybody not only tourist but also the tourists,
- provides gathering space for community activity
- providing Open Space to get healthy lifestyle.

10 Street/alley Infrastructure Improvement

KEYWORDS

- Create standardized pedestrian street for people
- Comfortable foot step for people

11 Enforce The Motorbike Policy

KEYWORDS

- avoid accident occur to the residents,
- place barrier and fence which will make it more difficult to use the motorbike
- reduces noise pollution, air pollution

12 Safety Community

KEYWORDS

- ensure that the community are safe and healthy
- maintain their CCTV

- Promotes the idea of the "Neighbourhood Watch"
- provides street lights in the area
- safety campaign

13 Separate Bike/Pedestrian Lane

KEYWORDS

- Create safe pedestrian street for people
- Bike/motorcycle won't have to interfere with people
- motorcycle regulation strictly applied
- establishment of police custody system
- safety campaign

14 Canal Usage Development

KEYWORDS

- Create floating market
- Market on both sides House and canal

15 Promoting Local Brand

KEYWORDS

- already have their own brand
- Self promotion
- promote their local brands to other community

LOGO DESIGN

- Selling and sharing traditional products and foods to other country

16 Advertisement and Communication

KEYWORDS

- promoting their own brand, goods,
- attracts more customers

17 Online Shopping

KEYWORDS

- Reach out to the worldwide audience
- Creating job opportunity
- Alternative way of selling their local goods

18 Make A Product From Reuse Things

KEYWORDS

- reuse old thing to make a new items

eg. Old clothes become shoes

- reusing money saving resources
- making products

19 Create Job Opportunity

KEYWORDS

- Everyone will be able to earn money
- improve their expenditure
- using their skill to create products and goods
- making some jobs dealing with various skills such as (sewing, teaching cooking and hair design, craft, etc.)

20 More accessibility from ASIATIQUE

KEYWORDS

- Attract tourists
- have chance to get more accessibility from ASIATIQUE
- The residents do not want to be disturbed by tourists during break time.

1. Possibility to get more visitors from ASIATIQUE
2. After opening of ASIATIQUE

21 Environmental Education Through Separation Of Garbage

KEYWORDS

- Teaches the residents why we should separate garbage not only making money
- Raise awareness about the good things and bad things about recycling
- Having Environment class
- reusing money saving resources

22 Cooking Class

KEYWORDS

- Children
- Local people
- Online education
- teaching cooking skills to young generation (make a class and another country/make cooking video and upload it)
- rapid waste management approach to others

23 Child Friendly

KEYWORDS

- Support the young people in the community by providing the space for them (eg. playground)
- Give children the opportunity to think about their community
- potentially attract their parents to the area

24 Renovate Abandoned Building

KEYWORDS

- has potential to become more useful to the community
- becomes new public space

eg. share kitchen which can be educated to everyone

- supporting start small business with food as a theme
- cooking with children and adults

25 Promotes Their Uniqueness

KEYWORDS

- brochure is not attractive
- only one language

SOLUTION:

- Attractive brochure
- Two languages:
 - Thai
 - English

Fig. 36. The 25 idea card poster from Group 2. Source: IACSC, 2017

Group

3

Housing Development

Connect with the River 01

KEYWORDS

Connect the Canal

NOW, the water does not move

- Canal connect with Chao Phraya river
- Water loop moving make a Sustainable canal

What if we can control height of the canal? 02

KEYWORDS

Even if we remove the trash and mud, People will dirty the canal again. If the height of water rises, The trash problem does not change the current situation. Clean, float gate

Sustainable Tree

Our concept is to create sustainable project on housing along with friendly environment within the community for elderly and children. Sustainable Tree is an example of how the community is. The of tree is the history runs by the canal which makes the tree survive. Timber of tree defined as a main road of the community. The stem shows the alleys, along with fruits of tree which is the residents that we would like to decrease density and propose new alleys connectivity

Member

Natchawan Berrmwandethanachok
Jirapa Tongpraphom
Kohel Yasuoka
Kim Changho
Lee Seulbi
Cheo Teng Teng

Apply patterns on the main street 06

KEYWORDS

- Applying patterns on the street makes a main street more walkable friendly.
- The pattern makes an identity of our community and the street.

Fire break between buildings 10

KEYWORDS

- Make space between buildings to prevent the fire from spreading.
- This space is available as public space
- Expansion of public space spreads the possibility of activities by residents

Openspace - Gathering space 14

KEYWORDS

- Elderly have no gathering space
- The only place they can gather is along the side of street
- Provide open space for elderly to promote activities and build strong relationship together

Public Health Care Centre 18

KEYWORDS

- As we have many elderly and children in the area, we need a health care center in the community to provide them the affordable health care services.

Commercial Shophouse 22

KEYWORDS

- In the main building street we will create a main road as the commercial shophouse to help people in the community who are unemployed.
- Create the active atmosphere in the community.
- Promote mixed uses. (commercial, residential)

Various roles of the Canal 03

KEYWORDS

CANAL + FIRE HOSE || FIRE DISASTER PREVENTING

Plant trees and use street furniture 07

KEYWORDS

- Planting trees makes the street more eco-friendly.
- The street furniture provides a rest area for pedestrians.

New alleys for connectivity 11

KEYWORDS

- Children have no gathering space
- Social problem: become drug addict and dealer
- Propose new alleys to connect with other alleys by connect some structures which in bad condition

Openspace - Playground 15

KEYWORDS

- Children have no gathering space
- Social problem: become drug addict and dealer
- Propose new alleys to connect with other alleys by connect some structures which in bad condition

Learning Center 19

KEYWORDS

- In bang kho leam, community have many children living in the area. So all the kids need learning center as the place for them to gain knowledge and as another gathering space for them.
- To create a pedestrian friendly community, the wall should be lowered and replaced with fence to promote more friendly environment and better atmosphere in the community

Where do we make a green space? 04

KEYWORDS

Is there green space in this area? Not at all!

Is there empty house and open space in this area? Not at all!

If we don't have space, How about using the road?

Separation of car and pedestrian

Inform the main road and direction

Commercial along the main street 08

KEYWORDS

- To activation of the street, place small-scale stores along the street.
- It revives the street as a small-scale (local) economic activity such as street food sale.

Road design for vehicle access 12

KEYWORDS

- The existing road is widened to allow vehicle access
- Vehicle access is important for the emergency cases like fire disaster and accident

Public Housing 16

KEYWORDS

- housing are provided for low income people to lower the price of rental.
- Provide public housing

Change the color after renovate 24

KEYWORDS

- Conserve community's traditional housing style by using sustainable material and paint the exterior building to make it look like wooden house to keep the community's traditions.

Separation of street section 05

KEYWORDS

- Separate of street section make the street more walkable friendly.

Set back house away from the road 09

KEYWORDS

- Main street in this district
- Protect pedestrian safety
- Prevent fire disaster

Lack of greenery - Demolish Abandoned House 13

KEYWORDS

- Demolish the old house and replace by the open space for surrounding housing

Built Apartment 17

KEYWORDS

- To solve the high density of the area.
- Apartment should be built in Bang Kho Leam Community because have many people in one household.

Land Lots housing 21

KEYWORDS

- In bang kho leam, community are living in a very high density area and there are no setback between each house.
- Each household need more space for their convenience and to create their own garden.

Built the house by a set building 25

KEYWORDS

- Use sustainable materials to build a house and the materials can be recycled after demolition.
- Lower the construction costs.
- Reduce industrial waste on site.
- It can be used as a module

Fig. 37. The 25 idea card poster from Group 3. Source: IACSC, 2017

4

Disaster Prevention

Educational about "How to Escape from Disaster"

KEYWORDS

- Practical training for fire prevention
- Practical training for fire prevention
- Practical training for fire prevention

SHORT TERM

- Practical training for fire prevention

LONG TERM

- Practical training for fire prevention

P&P Prevent & Protect

Our goal is to focus on the fire disaster we want to prepare the protect as much as we can from our community, which come up with the concept of P&P, to prevent the next fire disaster and protect the community.

The concept will support the design solution for development the idea, for a short term we would develop our community first and after that for the long term plan we will use our develop idea for the community around

Member

Pichanan (Micky) (TU)
Manaphorn (Pam)(TU)
Kenji (YCU)
Tomoyae (YCU)
Hongjae (INU)
Fadhilah Jamaluddin (USM)



01 Educational about "How to Escape from Disaster"

KEYWORDS

- Practical training for fire prevention

SHORT TERM

- Practical training for fire prevention

LONG TERM

- Practical training for fire prevention

02 Practical Training about Disaster Prevention

KEYWORDS

- Practical training for fire prevention

SHORT TERM

- Practical training for fire prevention

LONG TERM

- Practical training for fire prevention

03 Making map,poster

KEYWORDS

- By watching the map or poster, people can understand where fire equipment.
- By workshop making prevention map, people's awareness of disaster improve.
- When disaster happen, people can escape easily.

SHORT TERM

- By watching the map or poster, people can understand where fire equipment.

LONG TERM

- By watching the map or poster, people can understand where fire equipment.

04 Team/Police sentry

KEYWORDS

- Talk to police station nearby for security
- Put the red box in front of the house or community to let the police come and check everyday
- Check out for Theft or Fire disaster

LONG TERM

- It may change to be a people in community to do this job.

05 Create organization for disaster

KEYWORDS

- Before happening of disaster, community make risk among resident
- Organizing group to general information, all providing work and so on.

SHORT TERM

- Making role of creating organization

LONG TERM

- Creating organization

06 Create network

KEYWORDS

- Community create network for old people, handicapped people, program need help and so on.
- Everyone support the weak.

SHORT TERM

- Helping people who need help

LONG TERM

- Creating network in the community

07 Organizing a fire company

KEYWORDS

- The member of the fire company is general citizen.
- General citizen is not professional fire fighter.
- A fire company is formed by community people.

SHORT TERM

- Community has a fire company.

LONG TERM

- Community has a fire company.

08 News about disaster prevention information

KEYWORDS

- Community issues news.
- The news tell people fire equipment, how to use fire tools.
- By doing this, it can raise people's awareness of disaster

SHORT TERM

- Only in the community

Medium term

- Only in the community

09 Emergency Motorcycles for Fire Prevention.

KEYWORDS

- Motorcycles can be the good transportation for fire prevention
- Community can use the motorcycle for fire prevention
- Motorcycles can be used for fire prevention

SHORT TERM

- Motorcycles can be used for fire prevention

LONG TERM

- Motorcycles can be used for fire prevention

10 Have more fire carts

KEYWORDS

- People who are uncomfortable are hard to escape.

SHORT TERM

- Buy a new cart with a better equipment

LONG TERM

- Buy a new cart with a better equipment

11 Fire ball

KEYWORDS

- It is very compact and fire.
- Old people and children can use.
- The way to use is very simple

SHORT TERM

- Community has a fire ball.

LONG TERM

- The ball is spreaded

12 emergency alarm - "bell" "electronic alarm"

KEYWORDS

- Ring the bell when a fire occur
- Notify surrounding people to avoid equipment, how to use fire tools.
- By doing this, it can raise people's awareness of disaster

SHORT TERM

- Using hand bell in the community

Medium term

- Using electronic alarm

LONG TERM

- Using electronic alarm

13 Fix/Add fire equipment in fire center in community

KEYWORDS

- Add and fix the fire equipment.
- Contact the nearest fire station to fix the equipment.

SHORT TERM

- It could be more fire equipment in the future

LONG TERM

- It could be more fire equipment in the future

14 Upgrade the fire cart for more useable

KEYWORDS

- Upgrade the fire cart for more useable
- more easy to transport
- more easy to use

SHORT TERM

- Buy a new cart with a better equipment

LONG TERM

- Buy a new cart with a better equipment

15 Add more fire extinguishers and fire hydrants

KEYWORDS

- Place fire extinguisher in a place with good accessibility.

SHORT TERM

- 1. Buy 1 fire extinguisher

LONG TERM

- 1. Buy 1 fire extinguisher

16 Add the fire hydrant on the alley near by canal

KEYWORDS

- Put more fire hydrant for area that the fire truck can reach in range of flow.

SHORT TERM

- More safe for other area

LONG TERM

- The new fire hydrant can have a good impact for other community

17 Add Water Tank in Community Area

KEYWORDS

- Water tank can be used for fire prevention
- Water tank can be used for fire prevention

SHORT TERM

- Water tank can be used for fire prevention

LONG TERM

- Water tank can be used for fire prevention

18 Route for fire escape.

KEYWORDS

- Zoning is an effective means for people to evacuate

SHORT TERM

- Divide a community area into several zones

LONG TERM

- Divide a community area into several zones

19 Fire break,Fire resistant for house

KEYWORDS

- Making safe of constructing fire resistant house.
- Carving out that when a house is rebuilt.
- It is fireproof construction

SHORT TERM

- Carving out that when a house is rebuilt.

20 Provide an open space for emergency

KEYWORDS

- Transform a land to be multifunctional open space;
- social gathering space;
- evacuation space
- Emergency public space

LONG TERM

- Transform a land to be multifunctional open space;

21 Multifunction House

KEYWORDS

- A Multifunction house making more open space

SHORT TERM

- Provide more open space

LONG TERM

- Reduce the problem of density

22 Shelter

KEYWORDS

- A shelter will be a temporary house for people that their house been burn from fire

SHORT TERM

- It can be remove for next fire disaster

LONG TERM

- The shelter can be share for other community if they have disaster

23 New Setback

KEYWORDS

- Provide a new set back to make more safe for emergency.
- new setback for a bigger transport
- new setback could affect the fire truck

LONG TERM

- Provide a new set back to make more safe for emergency.

24 connect the road

KEYWORDS

- As in the community we mostly in the urban block so we try to minimize them so when disaster happen it would be easier and more safe to run. Road can place instead of the old wooden houses or unsuitable houses.

LONG TERM

- As in the community we mostly in the urban block so we try to minimize them so when disaster happen it would be easier and more safe to run. Road can place instead of the old wooden houses or unsuitable houses.

25 Emergency door to the main road

KEYWORDS

- Take out some part of the wall and put the emergency door on it for better transport

SHORT TERM

- Take out some part of the wall for easy access

LONG TERM

- We might have the emergency wall for other community

Fig. 38. The 25 idea card poster from Group 4. Source: IACSC, 2017

5

PEARL IN THE MUD

Group

MAKE A NEW RELATIONSHIP BETWEEN RESIDENTS AND CANAL

THE CANAL USE TO BE VERY GOOD IN TRANSPORTATION AND ALSO AGRICULTURE WHICH HELP EVERY HOUSES IN COMMUNITY. NOWADAYS THE CANAL IS DIRTY, SMELLY AND UNUSEFUL BECAUSE OF THE PEOPLE IN COMMUNITY USE THE CANAL IN THE WRONG WAY WITHOUT LEARNING AND THINKING ABOUT IT. WE ARE CAME HERE TO HELP IN EVERY WAY INCLUDING GIVING AN IDEAS, OPPORTUNITIES, REASONABLE AND AWARENESS WHICH CAN BE HELPFUL TO MAKE A NEW RELATIONSHIP BETWEEN RESIDENT AND CANAL.

Members

Teetchu Thongnuan
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Tittaya Chedsadawarangkul
Hyecong Wook Park
Yumi Yaejima
Nuri Mushawwir Hrsikea Bin Mohd Murni Thatchana

Integrated environmental improvement 001

KEYWORDS

- First of all, clean the canal in various way
- After finishing the canal clean, make place to communication
- We make a new relationship between resident and canal

TAKE OUT THE MUD 002

KEYWORDS

- WE REMOVE THE EXISTING MUD TO SMOOTH THE FLOW OF CANAL WATER. WATER FLOW CAN KEEP THE MUDS IN THE CANAL CLEAN AS LONG AS IT CAN AND USE CANAL IN CASE OF FIRE OR FLOOD.
- FRAMMATE MUD BY HIRING LOCAL RESIDENTS. PROVIDE JOB OPPORTUNITY

OYSTER SHELLS INTO CANALS 003

KEYWORDS

- OYSTER SHELLS CAN BE USED FOR WATER PURIFYING.
- VERY EASY TO GET JUST PUT INTO CANALS.

EM MUDBALLS (EFFECTIVE MICROORGANISMS) 004

KEYWORDS

- AN INITIAL STEP TO IMPROVE THE OVER CONDITION.
- IT CONTAINS PROPERTIES THAT WILL PUMP WATER QUALITY AND SOLVE SANITATION PROBLEMS.
- THE MUDBALLS WILL HELP TO BREAK DOWN THE SLUDGE AND REDUCE THE GROWTH OF ALGAE IN THE CANALS.

CHAIPATTANA AERATOR 005

KEYWORDS

- WASTEWATER TREATMENT
- FILL OXYGEN INTO WATER.
- IMPROVE WATER QUALITY.

IMPROVEMENT OF CANAL CONDITION 006

KEYWORDS

- UPGRADING THE CANAL CAN HELP TO IMPROVE THE WATER TO FLOW FREELY THROUGHOUT THE CANAL.
- RECONSTRUCT THE BROKEN CONCRETE WALL.
- REPLACE BROKEN BRIDGE.
- INSTALL FENCES ALONG THE CANAL TO MAKE IT MORE SAFE.

LIGHT ALONG THE CANAL 007

KEYWORDS

- STREET LIGHT ALONG THE CANAL
- CRIME PREVENTION
- TO LEAD THE LOCALS OR OUTSIDE DRIVERS RIGHT TIME.

PLANT SHRUBS ALONG CANAL 008

KEYWORDS

- PLANTING SMALL TREES ALONG THE CANAL HELP TO REDUCE THE UNPLEASANT SMELL.
- THE IDEA BEHIND WAS TO CREATE A NATUREL.
- VEGETATIVE FILTERS THAT COLLECT HELP TO TRAP MANY BACTERIA BEFORE THEY REACHED RESIDENTS WHO LIVE NEARBY.
- HELP TO INCREASE GREEN AREA IN THE COMMUNITY.

MAKE MANAGEMENT TEAM OF CANAL 009

KEYWORDS

- MAKE A CANAL MANAGEMENT TEAM AND LET THE MANAGEMENTS MANAGE THE CANALS THEMSELVES.
- IT BUILDS THE RESPECTION THAT THE MANAGEMENTS ARE THE OWNERS OF THE CANALS.
- WE CAN EXPECT TO KEEP THE CANALS CLEAN.

EDUCATION ON THE IMPORTANCE OF NATURE 010

KEYWORDS

- IT TEACHES THE IMPORTANCE OF NATURE TO THE PEOPLE WHO MESSY NATURE.
- EDUCATION WILL MAKE THEM AWARE OF THE PREVIOUSNESS OF THE CANALS AND MAKE THEM FEEL LIKE THEY SHOULD KEEP THE CANALS CLEAN.

STRONG REGULATION 011

KEYWORDS

- WHAT PEOPLE SHOULD DO AND SHOULDN'T DO.
- STRONG PUNISHMENT WHEN SOMEONE DON'T FOLLOW THE RULE.

GREEN WALL 012

KEYWORDS

- WE DO NOT HAVE MUCH SPACE TO CREATE A GREEN AREA ON THE SIDE, WE CREATED A GREEN SPACE ALONG THE STREET WALL.
- THE GREEN WALL HELPS REDUCE THE HEAT ISLAND EFFECT AROUND THE AREA AND ALSO HELPS REDUCE THE ENERGY CONSUMPTION FROM HEATING AND COOLING.

RECYCLING TRASH 013

KEYWORDS

- JOINT AND DEAL WITH TRASH IN A RIGHT WAY
- RECYCLING TRASH HAS THE POTENTIAL TO BUSINESS.
- TO STOPPED PEOPLE FROM THROWING TRASH INTO THE CANAL TO MAKE BETTER ENVIRONMENT

MAKE SURE THE FUNCTION OF SEPTIC TANK 014

KEYWORDS

- This is the best effort for water purification.
- Black water and greywater are causes of water pollution.
- Most important thing is Putting into the septic tank both of them.
- Chip in for install and management.
- Get subsidy from capital government.
- Putting this in sustainable.

WASTEWATER TREATMENT SYSTEM 015

KEYWORDS

- REPLACE SEPTIC TANKS WITH WASTEWATER TREATMENT TANK
- IT IS MORE EFFECTIVE THAN SEPTIC TANKS.
- PRICE: 12000-30000 BATHS/PEOPLE.
- SET UP COST: 2000-3000 BATHS.
- ELECTRICITY PRICE PER MONTH: 70-120 BATHS/PEOPLE.
- OTHER RUNNING COST PER YEAR: 300-500 BATHS/PEOPLE.

COMPOST BIN 016

KEYWORDS

- PUT KITCHEN GARBAGE INTO THE COMPOST BIN.
- IT WILL BECOME FERTILIZER FOR AGRICULTURE OR SOMETHING.
- RESIDENTS CAN USE OR SELL IT.

PLANT GRASS FOR WATER PURIFICATION 017

KEYWORDS

- Plant grass like rice grass.
- It can be used not only for water purification but also for increasing green plant in this area.
- It can be used for the symbol of water purification.

SETBACK 018

KEYWORDS

- MAKE SURE SET BACK TO ROAD STREET
- MAKE IS EASIER TO WALK
- BECOME AREA TO RETAIL LIGHTS, BENCH, TABLE ETC.

MAKE SMALL SPACE TO SPEND TIME 019

KEYWORDS

- SMALL SPACE FOR CUSTOMS, TAKING REST
- JUST TO MAKE COMMUNICATION ACTIVITY

READY FOR FIRE 020

KEYWORDS

- STOP THE FIRE FROM THE HOUSE BY USING THE WATER IN THE CANAL.
- THE WATER QUALITY SHOULD IMPROVE FIRST TO CLEAN BUT THE AMOUNT OF MUD SHOULD BE REDUCE

ENCOURAGE PEOPLE TO WALK 021

KEYWORDS

- MAKE ALONG THE CANAL A STREET THAT ARE FRIENDLY TO WALK.
- CREATE THE PROPER WALKING STREET.

CHANGE TO ELECTRIC MOTORCYCLES 022

KEYWORDS

- ELECTRIC MOTORCYCLES DON'T DISCHARGE GAS AND NOISE
- PRODUCE GOOD (GAIN) ENVIRONMENT TO LOCAL PEOPLE

TRANSPORTATION 023

KEYWORDS

- USE THE CANAL TO BE AN ALTERNATIVE OPTION FOR PEOPLE TO TRANSPORT.
- REDUCE THE TRAFFIC CONGESTION.

ATTRACTIVE AREA 024

KEYWORDS

- ATTRACTIVE SPACE CAN BRING SOME PEOPLE TO VISIT THE AREA.
- WHICH CAN CREATE MORE OPPORTUNITY FOR COMMUNITY TO SELL THEIR STUFF SUCH AS WATER, FOOD ETC.

BEAUTIFUL STREET 025

KEYWORDS

- BRINGING A BEAUTIFUL CITY AT NIGHT.
- USE FRIENDLY LUMINOUS PAINT AND MAKE THE STREET EVEN MORE BEAUTIFUL AT NIGHT.
- USING NATURAL LIGHT MATERIALS CAN BE CREATED WITH LOW ELECTRICITY USAGE.

Fig. 39. The 25 idea card poster from Group 5. Source: IACSC, 2017

Group 6

LOCAL ECONOMY

COMMUNITY MONEY MAKING, TOWN CLEANING, AND ENHANCING ATTRACTIVENESS

KEYWORDS: Executive Committee, Local shop, People who give local community, People who receive local economy.

ECONOMIC PROBLEMS: The shop area can't attract all sales.

HOW CHANGE THE LOCAL ECONOMY? People can get community money when they take care of their own shop. They can contribute money to their local shop. People who receive local economy can contribute money to their local shop.

CONGLOMERATION

Bang Kho Laem consists of 29 different communities in its district, where only 10 of the communities were highlighted for group of students to study one. Each community holds its own identity and cons differently from one another. We were assigned to work on site number 6 (Wat Phrayaklariay 3) which has Kuan U shrine as its main attraction, where all kinds of activities and special occasions are held in its plaza. But unfortunately, the inhabitants in Bang Kho Laem district lives in poverty, where out job is to boost the community's economy by encouraging cross boundary activities. "Conglomerate is to conjoin different communities within the Bang Kho Laem district to participate in various activities".



MEMBER

MOE MATSUGI (CU)
 NATHASINE (PONGKHAN) (TU)
 SONGSIT KANTINAN (TU)
 KIM SOYUN (INU)
 MUHO NAZMI BIN ABD RAHIM (USM)
 PHUNYANUCH AMY JOINGTTI (TU)

NEW BUSINESS FOR BETTER LIFE

KEYWORDS: Economy Problem, Retailer people, It's jobs which residents can make good use of what they already do.

PROBLEMS: Residents can't make good use of what they already do.

SOLUTIONS: Create new businesses increase income. Use a part of profit into community contribution.

NIGHT MARKET : LIMITED FINANCIAL SUPPORT WITHIN THE COMMUNITY

KEYWORDS: LOCAL ECONOMY, The government support can't be an alternative because it's not a priority for them such as infrastructure, study and health to be placed in their area and also to be before the small or local business community.



ACTIVATION OF ECONOMY AIMED AT TOURISTS

KEYWORDS: Activator, Resident, 1. Build a guest house for tourists, 2. Open a souvenir shop for tourists.

PROBLEMS: 1. Lack a guest house for tourists, 2. Lack a souvenir shop for tourists.

SOLUTIONS: 1. Build a guest house for tourists, 2. Open a souvenir shop for tourists.

LOCAL SHOPS: GENERATING JOBS

KEYWORDS: PROBLEMS: Cheaper and better than before and more convenient for the local people.

SOLUTIONS: Encourage people to sell their goods. Create local business with the community. More and more people will help the community.

STREET VENDORS

KEYWORDS: FACTOR: Lack of space, PROBLEMS: Lack of space for street vendors, Lack of space for street vendors.

SOLUTIONS: Local vendor to avoid street vendors on the street. Local vendor to avoid street vendors on the street.

THE UMBRELLAS FOR SHADING WALKWAY

KEYWORDS: PROBLEMS: Lack of shade for pedestrian, Lack of shade for pedestrian.

SOLUTIONS: The umbrella can be used to create the shade for the pedestrian. The umbrella can be used to create the shade for the pedestrian.

ROAD REDESIGNATION

KEYWORDS: PROBLEMS: Lack of pedestrian facility, Lack of pedestrian facility.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

LIGHT THE NIGHT PROJECT

KEYWORDS: PROBLEMS: Lack of light at night, Lack of light at night.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

THAI TRADITIONAL HOUSE ALONG THE ALLEY

KEYWORDS: PROBLEMS: Lack of space for traditional house, Lack of space for traditional house.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

STREET LIGHT INSTALLATION: Eliminating secludedness of alleys

KEYWORDS: FACTOR: Lack of light, PROBLEMS: Lack of light for pedestrian, Lack of light for pedestrian.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

REVITALIZING THE CANAL

KEYWORDS: FACTOR: Lack of water, PROBLEMS: Lack of water for pedestrian, Lack of water for pedestrian.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

Reuse the abandoned spaces !

KEYWORDS: PROBLEMS: Lack of space for abandoned space, Lack of space for abandoned space.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

Improving the community centre

KEYWORDS: PROBLEMS: Lack of space for community centre, Lack of space for community centre.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

PRESERVING THE TRADITIONAL

KEYWORDS: PROBLEMS: Lack of traditional house, Lack of traditional house.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

MOTOR BIKE TAXI SERVICE PACKAGE

KEYWORDS: PROBLEMS: Lack of space for motor bike taxi, Lack of space for motor bike taxi.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

REDESIGNED MOTORBIKE TAXI HUB

KEYWORDS: PROBLEMS: Lack of space for motor bike taxi hub, Lack of space for motor bike taxi hub.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

EDUCATION AND SKILLS

KEYWORDS: BENEFITS OF SPECIAL SKILLS, PROBLEMS: Lack of special skills, Lack of special skills.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

CROSS BOUNDARY: HOSTING SPECIAL OCCASIONS

KEYWORDS: FACTOR: Lack of space for special occasions, Lack of space for special occasions.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

WASTE MANAGEMENT: Garbage trading with Wat Channai Community

KEYWORDS: PROBLEMS: Lack of space for waste management, Lack of space for waste management.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

DRUG ISSUES

KEYWORDS: FACTOR: Lack of space for drug issues, Lack of space for drug issues.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

VISIBLE INFORMATION IS USEFUL AND EXCITING

KEYWORDS: Physical Problem, Lack of information, Lack of information.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

HEALTHCARE CENTRE

KEYWORDS: PROBLEMS: Lack of space for healthcare centre, Lack of space for healthcare centre.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

WASTE MANAGEMENT: Garbage trading with Wat Phrayaklariaya 3

KEYWORDS: PROBLEMS: Lack of space for waste management, Lack of space for waste management.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

DISASTER PREVENTION

KEYWORDS: PROBLEMS: Lack of space for disaster prevention, Lack of space for disaster prevention.

SOLUTIONS: Pedestrian facility can be used to create the pedestrian facility. Pedestrian facility can be used to create the pedestrian facility.

Fig. 40. The 25 idea card poster from Group 6. Source: IACSC, 2017

Group 7

Community Development

Living Like Family

which bring the meaning that the proposals below mainly emphasis in community schemes. We design the schemes for all age group that suit for every single person in the community. The proposals able to create a more lively neighborhood by using the strength of the study area which this community own strong community interaction with each others. They willing to help each others and living like a big family.

Members



Jungwon Hwang (Hwang)
Mizuki Hazama (Mizuki)
Fuka Ozaki (Fuka)
Lee Szee Cha (Lee)
Raviwan Fak-on (Yok)
Kantapat Patcharasuvivat (Pun)

001 **LIVING LIKE FAMILY (Concept)**

KEYWORDS

- Community home
- Community life
- Community spirit
- Community life
- Community life

002 **Container Architecture (Community Center)**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

003 **Interior Design (Community center)**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

004 **Demolishing Walls Campaign**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

005 **Hide The Ugly (along the shop house in main road)**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

006 **Notice Board To Connected With Other Community**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

007 **Putting roundtables in a community center**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

008 **Consultation Event About Child Rearing**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

009 **Create An Opportunity To Gather & Take Meal**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

010 **Small & Medium Entrepreneur (001)**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

011 **Accessibility To The New Community Center**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

012 **Art Intervention**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

013 **Light Intervention**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

014 **Full Use Of Open Space**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

015 **Flexible Wall**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

016 **Design**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

017 **Community Library**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

018 **Story Telling Event**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

019 **Kid's Activities**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

020 **Learning Knowledge on Disasters**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

021 **Enjoying with Indoor Games**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

022 **Community Theater**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

023 **Held Light Exercise Event**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

024 **The University's Social Service**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

025 **Exchanging Skill**

KEYWORDS

- Community center
- Community center
- Community center
- Community center
- Community center

Fig. 41. The 25 idea card poster from Group 7. Source: IACSC, 2017

Group

8

HOUSING

NEW COMMUNITY CENTER 1

KEYWORDS

- Create new community center for help and support people in community
- Place for people to meeting and social gathering
- Place for make a completion about the problems in community

QUALITY OF LIFE

Improvement to be made to create better quality of life in the community and in each residence. Our zone that we got is Phrayakral Raya 3, community 2. This community still lack of facilities, services, green area and also space for community people to gathering with others therefore, we plan to solve this problems by create new community center to make a new social space for gathering by inside this community center we provide a health care center, learning center and also temporary market to earn more income in this community and people in community have a job to do and we made a new system of pedestrians and cyclists for make a good system accessibility moreover, people can get the access when disaster or accident are happen and we create a new thing for develop the community and can attract the tourists get inside community by create a good visions for example art on the wall and repair or renovated a style of their house, so we hope that our solution will help the quality of life to be better than past.

Members



CHAYANTORN NIMMANWATHANA
PICHAPHAN CHAYAPAITORN
VUDDHISRESTHA KHEAWWILAI
SEUNG HUI YI
AYANA TAMURA
MOHD SHAZAIRIE BIN ISMAIL

COMMUNITY LEARNING CENTER 2

KEYWORDS

- Make income for community people by sell the product that they do
- Educate them about how to make a local product to sell
- Give them a career
- Teach them about home repairs, give an idea for development their house.

PREPARE A SHELTER TO SUPPORT DISASTER PREVENTION 3

KEYWORDS

- Design a high building for support people in community or neighbors when disaster happen.
- Provide a necessary facilities and services for them such, toilet, kitchen, water and medicine.
- The structure that have two many floors to be for support of people in community and can accommodate a lot of people inside.

PUBLIC HEALTH CENTER 4

KEYWORDS

- They don't have enough facilities for their health.
- Provide more facilities to the community
- It will be useful and helpful for them

SMALL POLICE STATION & GUARD HOUSE (SECURITY) 5

KEYWORDS

- TO ENSURE THE SECURITY OF THE COMMUNITY
- CREATE A POLICE CENTER THAT STABLE
- TO REDUCE THE CRIME
- PROVIDING EMPLOYMENT OPPORTUNITIES TO RESIDENTS.

GREEN PARK & PLAYGROUND 6

KEYWORDS

- NO OPEN SPACE IN THIS AREA
- PROVIDES RECREATION PLACE TO STRENGTHEN THE RELATIONSHIP BETWEEN THE LOCAL
- TO ATTRACT TOURISTS AND CREATE A HARMONY ATMOSPHERE IN THIS COMMUNITY.

TIME ARRANGEMENT FOR SELLER AND TEMPORARY MARKET ON WEEKEND 7

KEYWORDS

- Arrangement of business hours for market when
- Provide opening market on weekend for the seller and a lot for example
- To help the seller to avoid any construction
- Give new to create public park
- All the market business on weekend
- If the market business around the region travel around will also fine
- This system can support government and people in community

COMMUNITY SPEAKER 8

KEYWORDS

- HELP PEOPLE IN COMMUNITY GET TO KNOW NEEDS FASTER
- TO WARN PEOPLE IN COMMUNITY WHEN DISASTER COME
- MAKE IT BETTER THAN THE OLD ONE

ELDERLY AND KINDERGARDEN CENTER 9

KEYWORDS

- PROVIDE SPACE FOR CHILDREN WHEN THEIR PARENTS ARE AT HOME
- PROVIDE SPACE FOR CHILDREN AND OLD PEOPLE TO GATHER WITH OTHERS
- MAKE PEOPLE IN COMMUNITY GET SOME CLOSE

LIMITED LAND LOTS 10

KEYWORDS

- BUILD HIGHRISE BUILDINGS
- TO PROVIDE MORE THAN ONE FAMILY TO LIVE
- SERVE THE NEEDS OF PEOPLE TO LIVE (GOOD LOCATIONS) NEAR SUBURBS

ACTIVITIES IN COMMUNITIES 11

KEYWORDS

- Make a connection between immigrants and local people by activity in community for example "Big Cleaning Day"
- It is the kind of some campaigns
- Local-immigrant good support

SEPERATION OF PEDESTRIAN AND CYCLIST 12

KEYWORDS

- When pedestrian and cyclist that the pedestrian and cyclist don't mix and differentiate, which causes a safety problem when they are on the same path.
- WITH THIS PROPOSE and in conjunction with the Canal Cover idea, we differentiated the pedestrian and cyclist path, to increase its safety in community

CANAL COVER 13

KEYWORDS

- The current problem is that the width of the canals are very narrow for a safe passage for both pedestrian and cyclist the same time
- The Canal Cover is the solution for both pedestrian and cyclist
- It's also allow the increasing space for them to use the canal for recreation and sport.

WATER DRAINAGE SYSTEM 14

KEYWORDS

- Provide drainage pipes in between road pedestrian walkway
- To prevent flooding
- The water will continue flowing and also reducing heat smelt.

WALL EMBEDDED LIGHTING 15

KEYWORDS

- WITH THE LACK OF STREET LIGHT IT CAUSES SECURITY AND SAFETY PROBLEM FOR THE COMMUNITY
- LIGHT EMBEDDED INTO THE WALL IS AN SOLUTION TO THIS PROBLEM
- IT USES LESS SPACE THAN THE CONVENTIONAL STREET LIGHT AND NO NEED OF LAMPPOST
- THIS ALSO SAVED AN EXPENSE BECAUSE THE USE OF WALL AS THEIR PROTECTION TO THEIR PERSONAL ASSET.

WASTE MANAGEMENT 16

KEYWORDS

- RECYCLE SYSTEM
- BERNATTO BIN FOR THEM
- PROVIDE A SIGN TO BERNATTO EACH BIN
- EMBEDDED THE BIN IN THE WALL EASY TO COLLECT
- MAKE THEM HAVE MORE RESPONSIBILITY

CREATE SIGNS INFORMATION AND GUIDE MAP 17

KEYWORDS

- Provide some signs which indicate pedestrian route or signs of emergency neighborhood on the outer wall
- Provide the map for people
- Make easy for the people to get access

PROVIDE MOTORCYCLE TAXI RIDER IN EVERY INTERSECTION 18

KEYWORDS

- Provide motorcycle taxi rider in every intersection to support people in community
- Reduce the travel time
- Convenience to go to the other place.

UNPLANNED HOUSING 19

KEYWORDS

- TO PROVIDE THE LARGE SPACE FOR THE STREET
- TO ENSURE THAT RESIDENTS COMPLY WITH THE LAW REGARDING THE CONSTRUCTION
- TO PREVENT UNDESIRABLE DEVELOPMENT ON THE ROAD RESERVE

CHANGE THE ZINC TO BRICK WALL 20

KEYWORDS

- There are many alley in many wall
- Can draw a mural (3D)
- Funny
- Will be make photo zone
- Promotional effect
- Attraction

CHANGE HOUSE STRUCTURE 21

KEYWORDS

- Better Culture has had condition
- It is located in the road front of their house
- Reduce a single story from three to a two stories house
- First floor - selling area
- Second floor - living area
- Remove the construction to improve building
- People can take the view when they go out

FLAMMABLE MATERIAL 22

KEYWORDS

- CHANGE THE HOUSING CONSTRUCTION MATERIAL
- TO REDUCE THE POSSIBILITY OF FIRE OCCURRENCES
- PROVIDE MORE SAFETY TO COMMUNITY.

HOUSING RENOVATION 23

KEYWORDS

- Repainting
- Put more fresh plant
- That is not expensive
- Bring the bright mood
- It will be decreased the crime

EQUIPMENT FOR FIRE PREVENTION 24

KEYWORDS

- Due to narrow alley of the place
- Fire truck can't access to the area.
- provides user-friendly fire prevention equipment.
- Regular training sessions

QUALITY OF WATER IN CANAL 25

KEYWORDS

- WATER TREATMENT FOR THE DOMESTIC-BASED WATER USAGE BEFORE DISCHARGING TO THE CANAL
- TO PURIFY THE WATER
- EMPLOY SEVERAL OF CANAL
- CLEANING THE CANAL PERIODICALLY FROM METHODS FROM IMPROVE THE WATER QUALITY IN CANAL
- TO LESSEN THE WATER POLLUTION.

Fig. 42. The 25 idea card poster from Group 8. Source: IACSC, 2017


Group 9

ENVIRONMENT

Clean up green up

Our proposal direction is mainly to serve the residents by built environment. We starting with clean up, which is both concern on physical and social aspect since we found that they were having a poor quality of life due to their behavior. We aim to enhance living condition along with break the ice of the residents. After we clean up, the green will following. We maximize the usability of the space/building and provide them a green elements in a limited area. The proposal method is framed by CPTED key attributes, we try to balance all of those keys in order to prevent incidence and criminal behavior as well


Member



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Open space for activity (House relocation) 001

KEYWORDS
Relocate by move the elderly person from abandoned/polluted area to the good condition house
Revitalize the space to be a gathering space



Prioritize pedestrian (Motorbike parking) 002

KEYWORDS
Turn an abandoned space which nearby the entrance into a motorbike parking
The motorbike will not disturb the ordinary anymore
Residents will have more interaction on each other along the alley




Provide facility map and Arrow sign 003

KEYWORDS
Put on the map and arrow sign on the poles or in the corner
Provide information of community facility in complex alley




Drainage system re-organize 004

KEYWORDS
Re-organize the drainage system to not interrupt the walkway
Make the water to drain more flow




Improve the street quality 005

KEYWORDS
Interlocking pavement can solve waterlogged on the ground
Long lasting material
Make the area look more organized




For the blind 006

KEYWORDS
Aluminum sheet with braille writing
Facilities spot
Walkway guideline




Green wall 007

KEYWORDS
Provide a vertical Garden Concept
Purifying the air, it will absorb air temperature around the building & mitigate the urban heat island effect




Move the plant pot on the street 008

KEYWORDS
Move the plant pot upon the owner's balcony
Organize the street
Move the plant pot upon the owner's balcony




Toxic absorption by the plants 009

KEYWORDS
Put the inside of house
Plants that absorb the toxic
There are many types of Plants that can turn CO2 to O2, and absorb the toxic
- Citrus
- Senevolvia
We promote the setting of these plants by the side of their house.




Plant the edible plant as a vertical garden 010

KEYWORDS
Type of edible plant that can be planted in wall pot
Spring onion
lettuce
cabbage
Support self-sufficient economy for the local community



Rainwater harvesting 011

KEYWORDS
Gutter will drain the water into the small tank
Inhabitants can use the stored water for their daily life
Watering plant
Cleaning the street




Polluted water purification 012

KEYWORDS
Put chemicals that can clean water into the canal
- Clean water by bio process
After cleaning, set some plants that can absorb the toxic from the water



Superimposed facade 013

KEYWORDS
Build the structure surround the building facade to maximize the usability
Hanging seat
clothes
Plant pot




Adjustable slat 014

KEYWORDS
Climate control
Prevent rainfall
Support illumination
More endurance




Traffic Mirror 015

KEYWORDS
Install the traffic mirror on the corner to not happen in that particular time
When it turns right, the traffic mirror will be work as a traffic light for safety purpose




Safety telephone box 016

KEYWORDS
In a dangerous situation, people can move inside the telephone box and lock themselves
Contact to the police
Locate between a gap of the building, not consume much space




Promote privacy 017

KEYWORDS
Provide privacy along with interaction of the people
The wall can also prevent the residents from flood




Underground cable Installation Technology 018

KEYWORDS
Put the cable into the ground
Can reduce the possibility of power loss occurrence during the extreme weather




Trash classification + recycle 019

KEYWORDS
+ garbage can
There are many trash on the road in front of the house!
- Junk food
- Dirty can/ food
Trash classification
- Reuse few trash for handmade
- Separate dangerous trash
Arrange the public trash location




Solar cell bin 020

KEYWORDS
Garbage is not in the garbage bin
A cat catches garbage
Compress garbage
Work by solar power
Reduce the frequency of garbage collection
Prevent the trash to get overflow




Raise awareness for the stray cats 021

KEYWORDS
Put the tag on them
Cooperate with every residents who feed them to look after them and clean the place




Design a corner for a cat 022

KEYWORDS
Hanging to sun they will feed it on that place
We reduce the space for cat to stay and also place to eat since it is easily to clean the environment
The space where a cat loves to stay




Cats' birth control + vaccination 023

KEYWORDS
A neutered cat
Cooperate with the public health ministry
Control the stray cats' birth and help each other to take care of all of them
If the sterilization of the cat is done, cut the tip of ear



Inhabitant Registration 024

KEYWORDS
Migrant labour should be identified by the community leader for easier on monitoring the problem
Not only for the migrant labour but every residents should be registered



Provide & share the inhabitant a knowledge 025

KEYWORDS
The community should be cooperate more with the government leader
Every month, there will be the people from the department come to give the residents a knowledge
Sustainable living
Plantation
Using facility in the right way




Fig. 43. The 25 idea card poster from Group 9. Source: IACSC, 2017

Group 10 Commercial Street Revitalization

Group **10**

Commercial Street Revitalization

001 Connecting Local Street Market

KEYWORDS
Cooperation with Suanluang 3 Community to create a street market once a month by separate the types of market and also create some social gathering activities.



002 Local Economic Expansion

The proposal of our group is reorganize the commercial street by creating pedestrian friendly. To create active effect in daytime and night time by planning and management of special event which some of them may have cooperation with neighborhoods. Also we provide some proposal to promote our commercial street, and also provide public facilities to serve visitors. The propose of our concept is to encourage more tourist, improve quality of local's life, encourage people to interact and boost local economic.



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Wan Mohammad Fazil Bin Asli
Kodal Kayano
Fatahka Mone
Nattarat Dolsettatwat (Pao)
Polawat Rujrawinijchal (Mark)

002 Making the shop owner union

KEYWORDS
Make the shop owner union and manage the commercial street. They also has the role of revitalizing Bangkokern. ex) Planning events, Making maps



003 Holding a Festival using local contents

KEYWORDS
Local festivals can be hold utilizing local contents. E.g. Nalad Festival Thai snacks, Festival



004 Welcoming Gateway

KEYWORDS
Make people feel welcoming to the commercial street. Represent the culture and local architecture of the street



005 Making a guide map for tourist

KEYWORDS
Prepare a map for travelers who visited the Bangkokern. By making a map even people who came for the first time can get there.



006 Information Board Installation

KEYWORDS
As a guide for people to understand more about the site. Example: history of place, brochures for product promotion. Installation of information board in every path. Instruction to show variety uniqueness of difference places



007 Putting more Roadsign

KEYWORDS
Street signs in our community area will be installed in several places to make it easier to find the way.



008 Space to eat and rest

KEYWORDS
In front of the store, let the customer eat what they bought. It can also be a rest space.



009 Co-Street Night Market with Asiatique

KEYWORDS
Cooperate with Asiatique and some shopowner by making the walkway pattern design, and open the shops along the main road at night to create the street night market.



010 Existence New and Old

KEYWORDS
Creating some new buildings, systems, or is good for community development, but we need to reserve good old ones.



011 Restoration The Old Building Facade

KEYWORDS
Preserve the historical value and local cultural continuity. Aesthetic view for the structure and emerging sense of place



012 Traditional House Tourist Attraction

KEYWORDS
Convert some traditional house in the inner block for tourist attraction.



013 Vendor Boundary Management

KEYWORDS
Street vendors are blocking the road, and decrease the road width



014 Setback for Pedestrian

KEYWORDS
Setback on the 1st floor for pedestrians walking space. But we conserve the original pale of the house in order to conserve its original.



015 Make a Sidewalk & One Way Road

KEYWORDS
Make a sidewalk so that pedestrians can walk with confidence. To secure the sidewalk, change the road to one way and narrow the roadway.



016 Only Pedestrian Depending on Time

KEYWORDS
shops are opened (week - week, week - week) -> only Pedestrian can walk



017 24/7 active street

KEYWORDS
shops are closed (week - week, week - week) Put something in front of shops ex) objects or flowers etc.



018 Activities Connecting Between Alley

KEYWORDS
Connecting the dead end, alley and main road, and add some temporary function, programs, street vendors which will rapidly active.



019 Underground Electric Wire Installation

KEYWORDS
From using electric pole, we will change it to wire and buried underground instead.



020 Crime Prevention Design

KEYWORDS
The streetlight is installed in an alley without street lights and "CPTED" is applied for safety.



021 Appropriate Trash Zone

KEYWORDS
Trash spot should be hidden away from the front of the road & must have their own sign.



022 Make a Back Alley

KEYWORDS
Now, carriers have to deliver products from the entrance of the store facing the commercial street. By making a back alley, it becomes easy for the product delivery.



023 Delivery Time before market opens

KEYWORDS
Decrease the number of trucks when the market opens. And also allow the delivery trucks only to come deliver.



024 Green park as a public facility

KEYWORDS
There are no small parks in the community area. Utilizing a small space in the community area, a small park is created, allowing people to relax in that space.



025 Public Facility: Parking Space

KEYWORDS
Provides parking space for public community, occupants and visitors



Fig. 44. The 25 idea card poster from Group 10. Source: IACSC, 2017

The final proposals were presented to the IACSC at the poster session at its 8th General Assembly and Symposium, at Thammasat University, Rangsit Campus, on 11 September 2017. Although there were difficulties for students to setting ideas and proposals under the limited time of the workshop, it successfully provided working together arena among the international students, and between the students and the local communities for the benefit of their mutual learning and understanding. In addition, the contribution suggested various ideas towards livable and sustainable towns and cities can be extended for further individual studies or researches following the interests of the workshop participants as well as the public, as some of the participants tended to be interested in. Afterwards, back to the UD326 Urban Regeneration studio till the end of the semester which lasted until early of December 2017, the area regeneration schemes and design proposals were brought to be developed more in details to elaborately address the local needs and aspirations, with full consideration on the limitations of the current city regulations and orders and the opportunities and impacts to the city economy wide.



Fig. 45. The 8th IACSC General Assembly and Symposium at Thammasat University
Figure 46 The Creative Community Development final proposals presented at the poster session of the 8th IACSC General Assembly and Symposium
Figure 47 The final event of the Creative Community Development Workshop
Source: Naoyuki Kuniyoshi, 2017

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