

Lad Phrao Community Development

By Urban Action Team

October 29, 2019

From Holcim Awarded Project: Resurrection of Urban Canal System by D I Designs



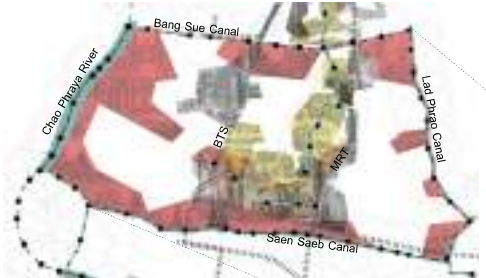
The **Resurrected Canals** concept offers an answer to the notoriously congested traffic conditions in Bangkok, Thailand. The project proposes to revive the ancient canals of the city to create a modern network of waterways and supplement existing Metropolitan Rapid Transit (MRT) systems. A train-to-boat transfer station and pier will be built as a prototype, to be positioned along various intersections of canal lines and rail stations. The development of water transport will not only reduce commuting time for residents, but also provide social services at key locations. This major infrastructure project will also introduce flood control and pollution reduction measures.



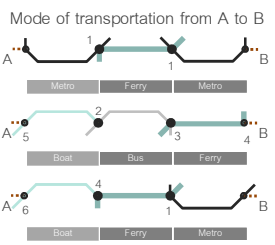
The jury applauds the bold vision of the project, particularly its aim to rehabilitate a historic city network, which – though crucial for the definition of the urban fabric – was unfortunately compromised due to both formal and informal growth over time. Furthermore, the idea to combine technical exigencies with social needs is an excellent feature of the planning proposal, one that reclaims infrastructure as residing in the public domain and being truly important matter of concern for society at large.



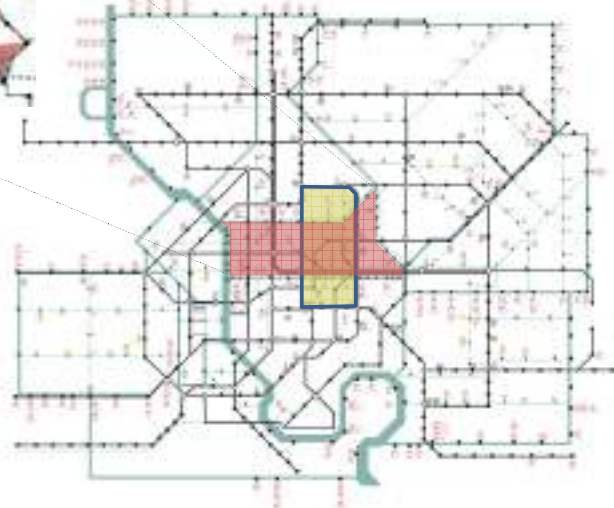
Synthesis photo: The project will not only create the water transit network and also the transfer station, but also urban and community space.



Master Plan Phase 1: Chao Phraya - Saen Saeb - Lad Phrao - Bang Sue



NEW BANGKOK MASS TRANSIT MAP

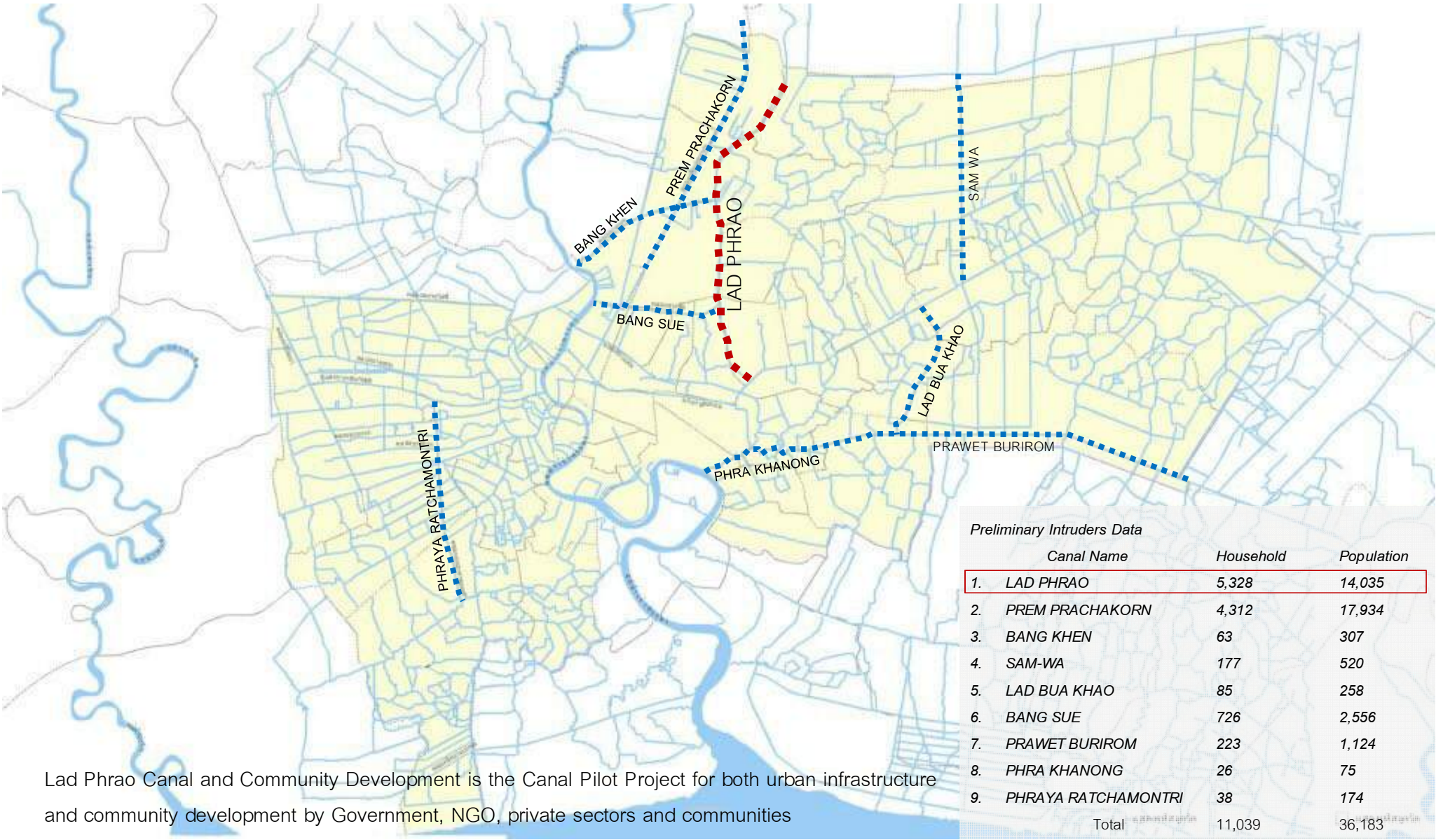


Overall image: Main Transfer Station area (Bang Sue Canal) and connection to BTS station (Saphan Kwai) with bike, pedestrian and skywalk



Overall image: Main Canal Community area (Bang Sue Canal) and Sub Transfer Station

Overall Plan of 9 potential canals to development for Bangkok Flood Protection and Drainage System Improvement after the Thailand / Bangkok Big Flooding in 2011



Preliminary Intruders Data			
	Canal Name	Household	Population
1.	LAD PHRAO	5,328	14,035
2.	PREM PRACHAKORN	4,312	17,934
3.	BANG KHEN	63	307
4.	SAM-WA	177	520
5.	LAD BUA KHAO	85	258
6.	BANG SUE	726	2,556
7.	PRAWET BURIROM	223	1,124
8.	PHRA KHANONG	26	75
9.	PHRAYA RATCHAMONTRI	38	174
	Total	11,039	36,183

Lad Phrao Canal and Community Development is the Canal Pilot Project for both urban infrastructure and community development by Government, NGO, private sectors and communities

Source: BMA Department of Drainage and Sewerage

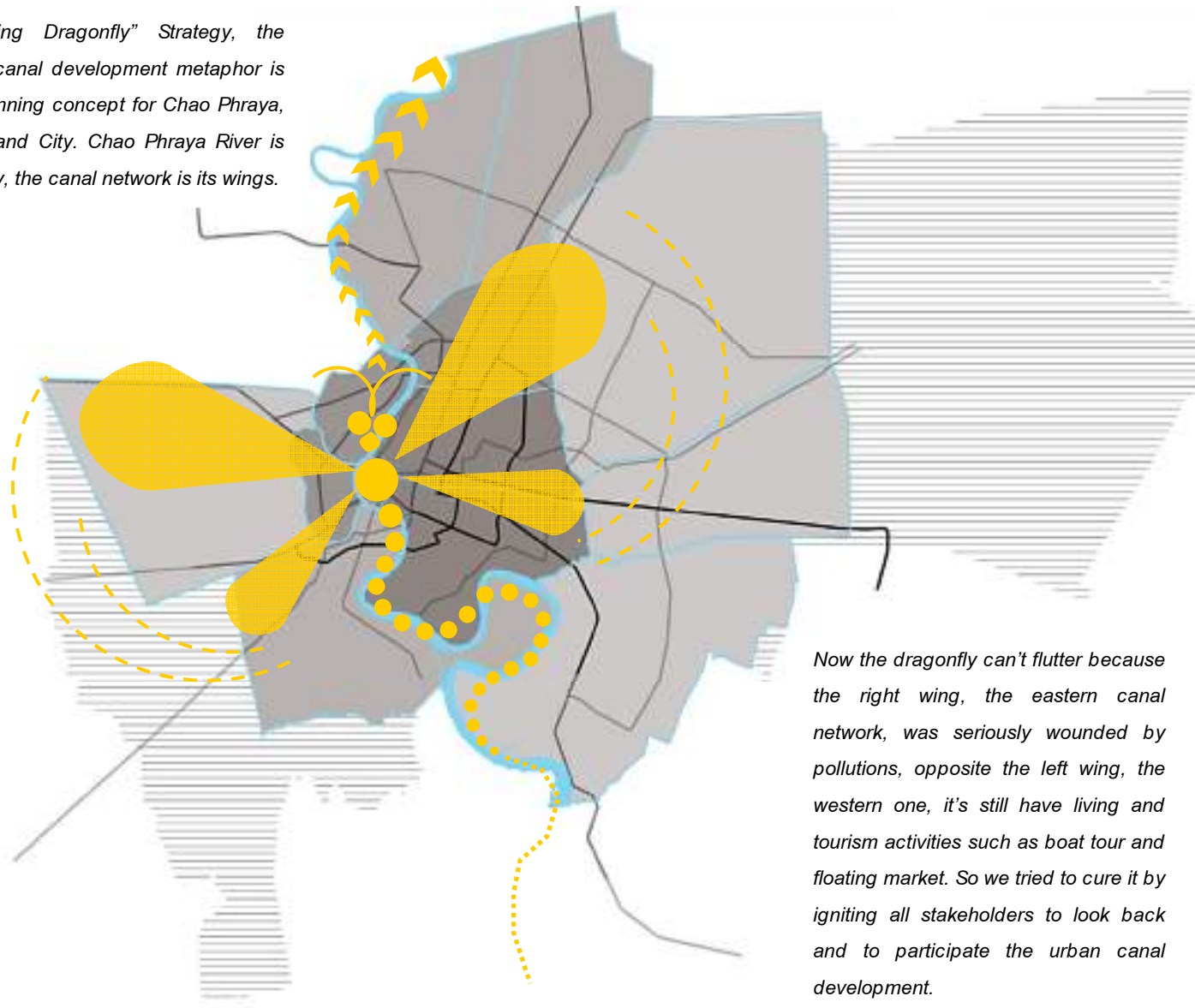
From Resurrection of Urban Canal System Conceptual Master Plan in 2014 to Urban Action in 2017



Chao Phraya, Canal, City, Community Concept

เจ้าพระยา คลอง เมือง

"Fluttering Dragonfly" Strategy, the urban canal development metaphor is the planning concept for Chao Phraya, Canal and City. Chao Phraya River is its body, the canal network is its wings.



Now the dragonfly can't flutter because the right wing, the eastern canal network, was seriously wounded by pollutions, opposite the left wing, the western one, it's still have living and tourism activities such as boat tour and floating market. So we tried to cure it by igniting all stakeholders to look back and to participate the urban canal development.



Lad Phrao Canal Project: Video made by government



Lad Phrao Canal Site visits and meetings for data collection and solution from all stakeholders



CODI was organized the house delivery event at the first sample community in project.



INCA, non-government organization who worked closely with some communities invited us to join their meeting for coordination with governmental organizations.



Researcher team from university joined the social and community development works.



Governmental working group set up weekly meeting to follow the project progress.



We joined Urban Forest seminar to tell public how important canal and forest are.



The stage, we created by the master plan work, was the place for all stakeholders.



To find out the problems in some communities, we collected directly the data on site.

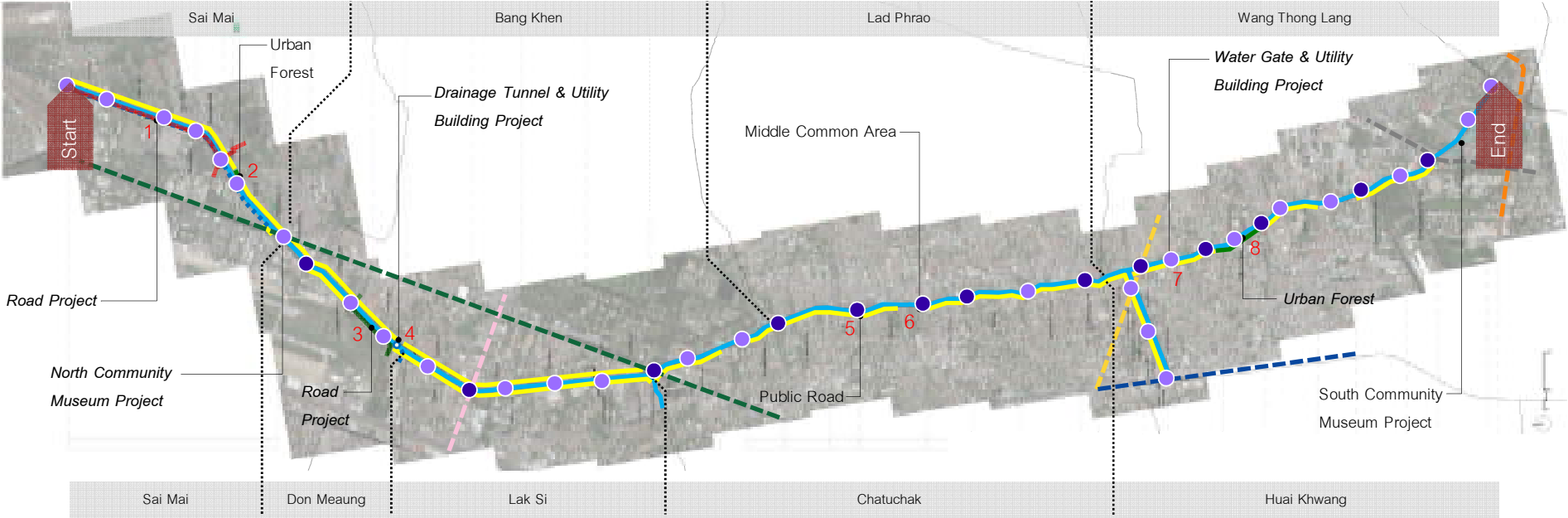


Community leader who understood the master plan presented in by himself.



Working group meeting was also the stage for making understand to each other work.

*Lad Phrao Canal Master Plan is an **Open Platform** for Integrated Working & Partnership for Goals*



Urban Infrastructure Development Project

- 1. 22 Km of Canal Drainage & Flood Protection System Improvement Project
- 2. Water Gate & Utility Building Project
- 3. Electricity & Waterworks System Project
- 4. Middle Common Area Development Project
- 5. Urban Forest Development Project
- 6. Road Network Projects
- 7. Drainage Tunnel & Utility Building Project

8. Water Quality Control System Project

- 9. Water Transportation System Project
- 10. IOT Development Project

Canal Community Development Project

- 1. Low-Income Housing Project for 50 Affected Canal Communities (7,000 Households)
- 2. Community Facility Building Projects
- 3. Community Tourism and Commercial Development Project

Lad Phrao Canal Animation Video as a Tool to make understanding for all Stakeholders



Lad Phrao Canal Site visits for following the progress and relation to all teams



New canal façade by Lad Phrao Pracha Uthit community



New canal façade by Run Mai Pattana community by Colorful Theme



Community Market has already started on private land nearby the Canal



New canal façade by Lang Wor Kor Chandra Kasem community called "Siam Venice"



Beautiful Temples along de canal would be like Tourist Attraction



UDDI Thammasart surveyed the Canal for water transportation development plan



New canal façade by Bang Bua Sapan Mai 2 community



Some area would be like Tourist Attraction and Preserved Green area as "Urban Forest"



Existing Community Pier will be applied on development plan too

Lad Phrao Canal & Siam Venice Chandra Kasem Community in 2019



Video by Khun O Thippatai - CODI

Lad Phrao Canal Community Boat Cooperative will be created as Social Enterprise for SDGs



Lad Phrao Canal Visit Route and Facebook Page for community was created



คลองลาดพร้าว TOUCH

เส้นทางท่องเที่ยวทางเรือในพื้นที่ชุมชนในคลองลาดพร้าว
ในรูปแบบที่คุ้นเคยได้ "สัมผัส" และ "สัมผัส" สบายดีแห่งนี้เป็นพิเศษ



กิจกรรมที่
ส่งเสริมวิถีชุมชน

กระบวนการ
เปลี่ยนแปลงชุมชนเมือง

สถานที่
ในความทรงจำ

อัตลักษณ์ชุมชน



การบริการชุมชนที่มี
ใจที่ใส่ใจในคลองลาดพร้าว
สร้างความเป็นอยู่ที่ดี
ชุมชนที่มีชีวิตชีวา
ชุมชนที่ใส่ใจสิ่งแวดล้อม



วิถีของชุมชนที่ผูกพันไว้
เพื่อสร้างชุมชนที่เข้มแข็ง
ที่จัดการของเสียอย่าง
มีจิตสำนึก
ใส่ใจสิ่งแวดล้อม
ให้เป็นที่ยอมรับ



วิถีชีวิตที่ผูกพัน
ที่มิได้เป็นเพียงวิถีชีวิต
ธรรมดา แต่เป็นวิถีชีวิตที่มี
คุณค่า

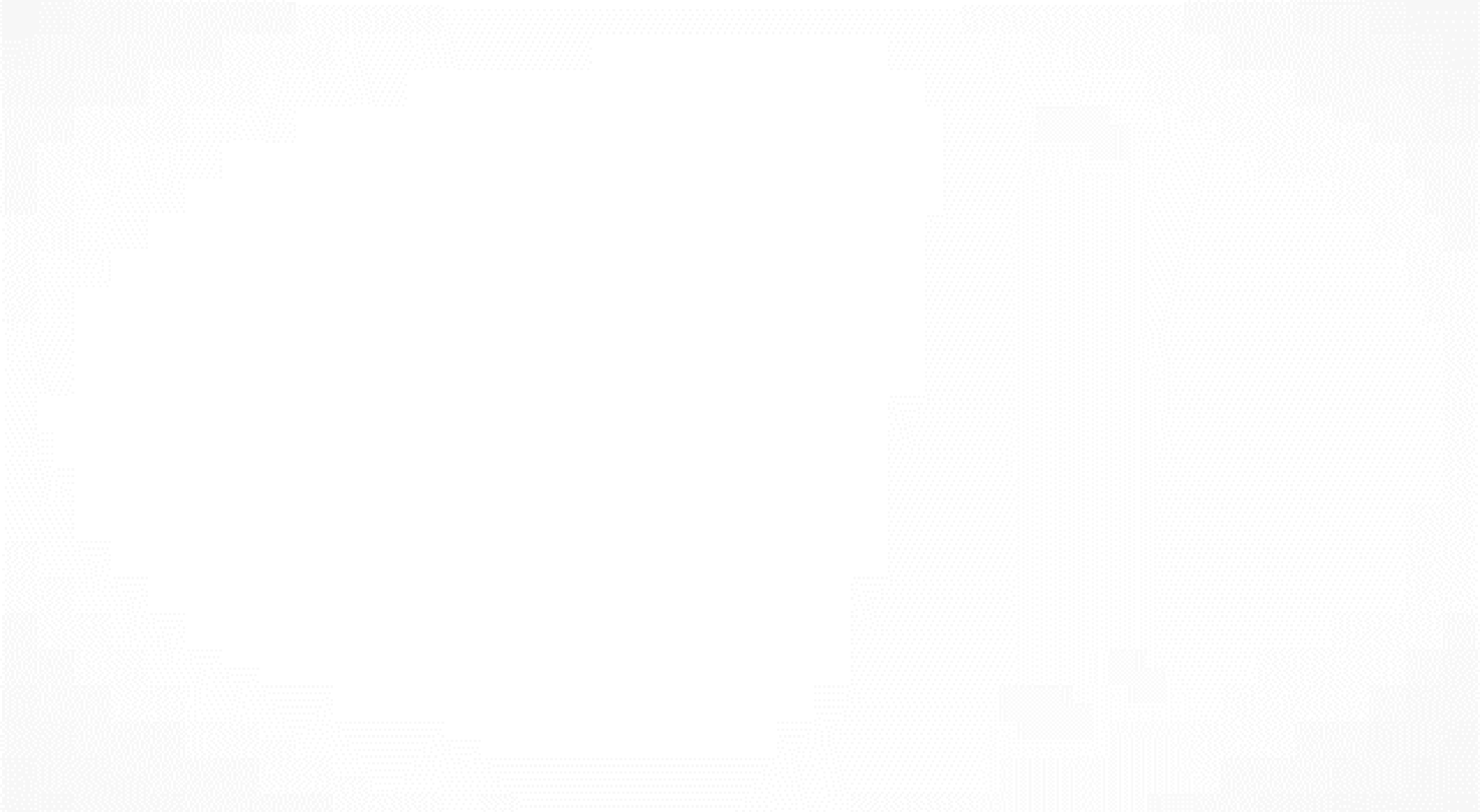
Lad Phrao Canal Tour for following development progress and for community business development



Following activities to expand creating partnership more and more...



TV Program at Lad Phrao Canal : Sustainable Life EP.36



GIS Scanning by Surveyor Drone for Urban Static Data Collection



Before and After Image to make more understanding to all stakeholders

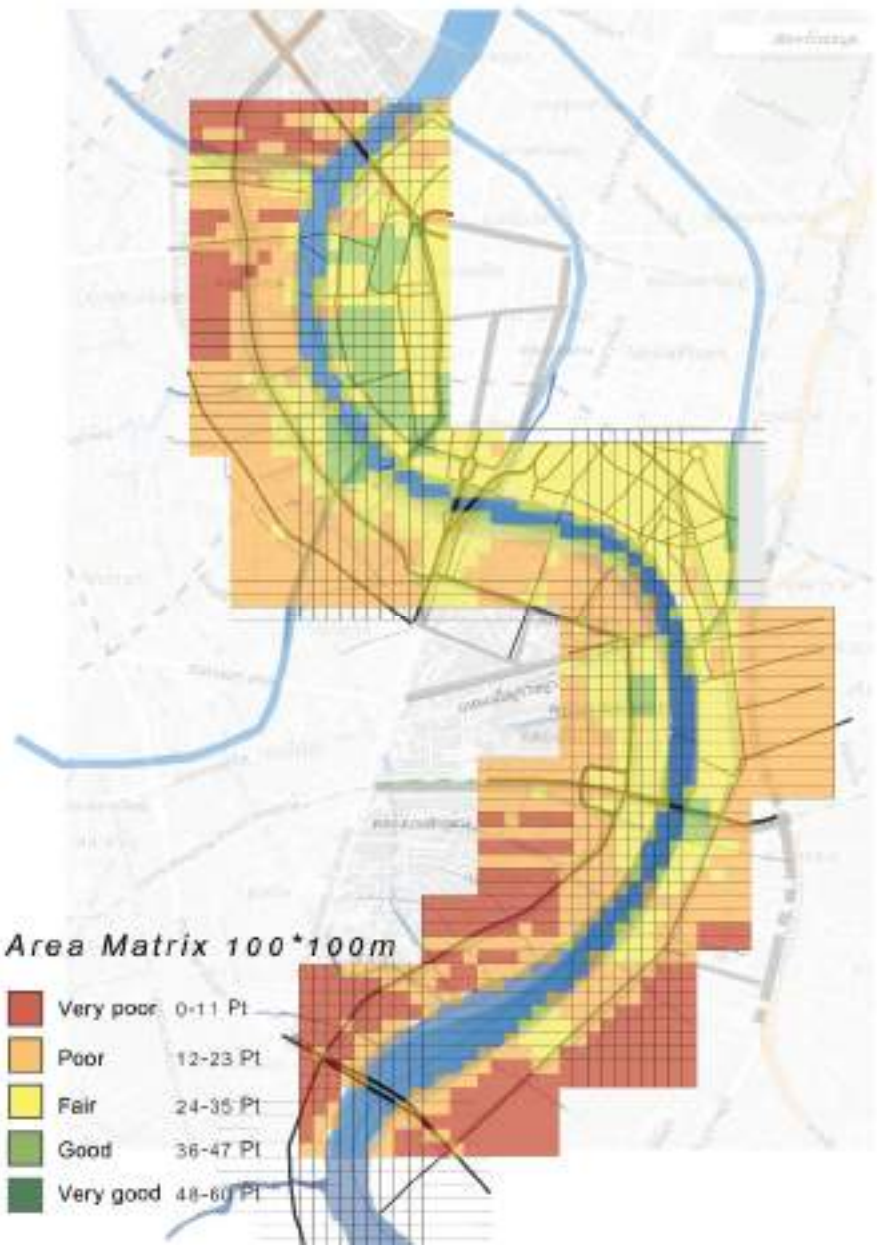


From Lad Phrao Canal to Prem Prachakon Canal & Community Development Master Plan



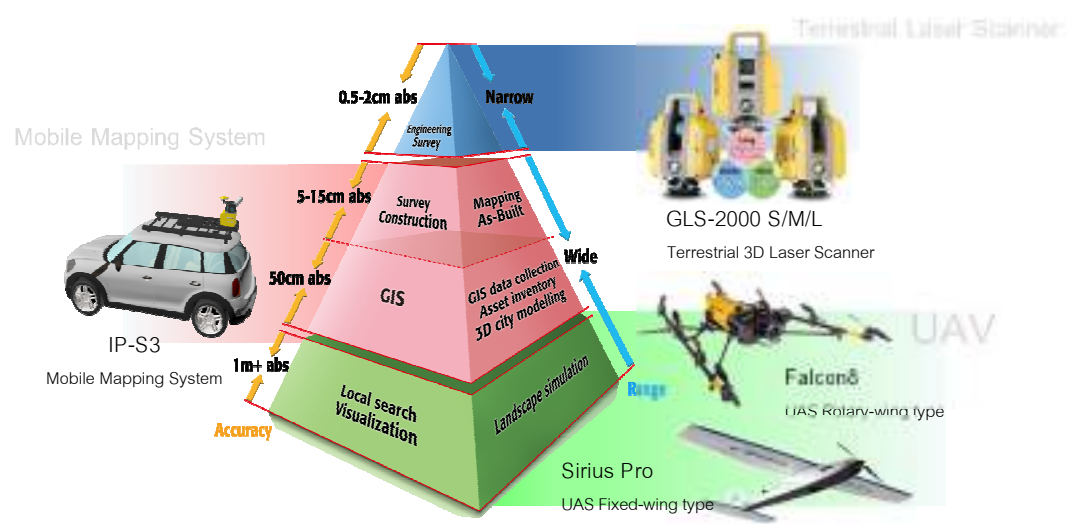
Area Evaluation - Urban Layers & Matriculation / Overall Analysis

From Chao Phraya Tourism TOD Master Planning

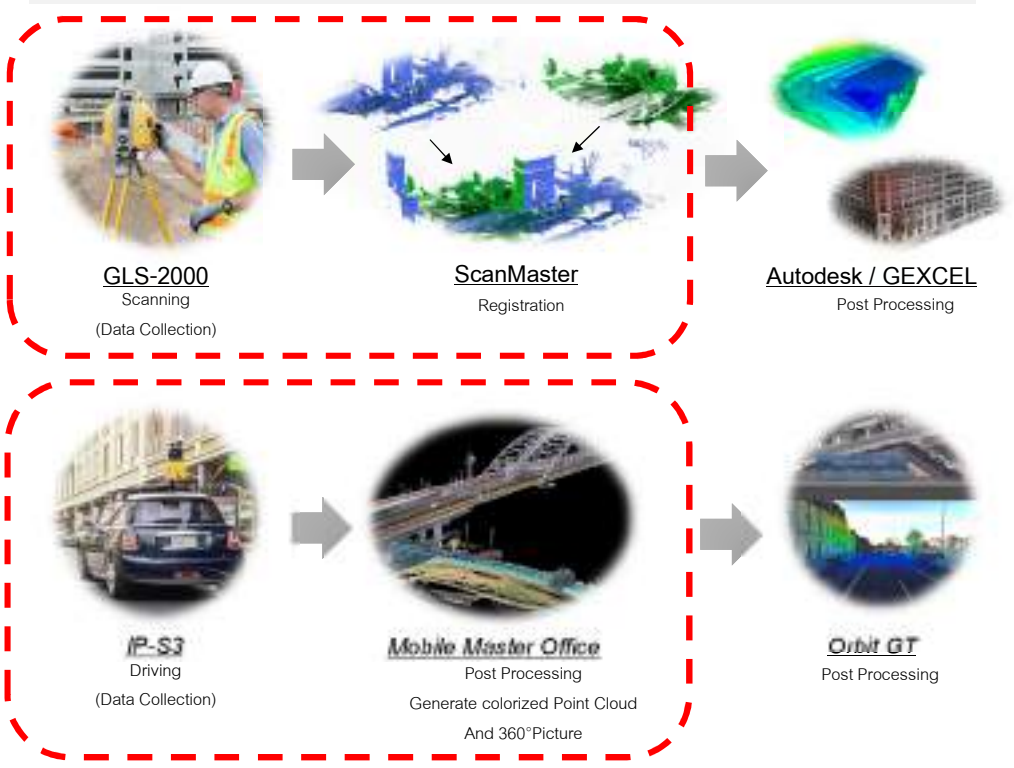


Urban Layer	Tourism Intro											Development Projects				Totals : Color code	Remark
	Events & Festival Supports	Tourist Destination Value	Number of Tourists	Transit Connectivity	Vehicles & Road	Bikes & Walkways	Boats & River	Trains & Rails	Traffic Situation	Tourist Safety Maintenance	Service Facilities	Environmental Impacts	Urban Relationship				
Row2/5	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/6	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/7	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/8	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/9	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/10	4	0	2	2	4	2	1	0	0	1	7	2	2	2	1	15	
Row2/11	4	0	2	2	4	2	1	0	0	1	7	2	2	2	1	15	
Row2/12	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row2/13	4	2	1	1	3	1	1	0	0	1	9	3	3	2	1	16	
Row2/14	0	0	0	0	5	0	0	5	0	0	4	0	0	4	0	9	River
Row2/15	0	0	0	0	5	0	0	5	0	0	4	0	0	4	0	9	River
Row2/16	7	2	3	2	9	0	2	5	2	0	8	2	2	4	0	24	River
Row2/17	7	2	2	3	4	0	2	0	2	0	8	2	2	4	0	19	
Row2/18	9	2	4	3	10	3	3	0	2	2	9	3	2	4	0	28	
Row2/19	12	4	4	4	11	3	4	0	2	2	10	4	2	4	0	33	
Row3/1	0	0	0	0	2	1	0	0	0	1	7	2	2	2	1	9	
Row3/2	8	2	4	2	5	1	3	0	0	1	7	2	2	2	1	20	

Urban Action-Learning Tools : Beyond to Smart City Control Center



Scanning Workflow



GIS Scanning Hardware + Software

Data Storage and Management System

Static Data Collection System (Often Update)

Dynamic Data Collection System (Real-time)

Architecture, Engineering & Construction Softwares

From Building Information Model (BIM)

To City Information Model (CIM)

Human Supervisor + AI Analysis System

Urban Layer / Indicators Built

Area Evaluation & Rate

Problem Notification

Possible Equation & Hypothesis

Solutions & Propositions

Video / Perspective & Animation for Understanding

Implementation / Open & Transparency Platform

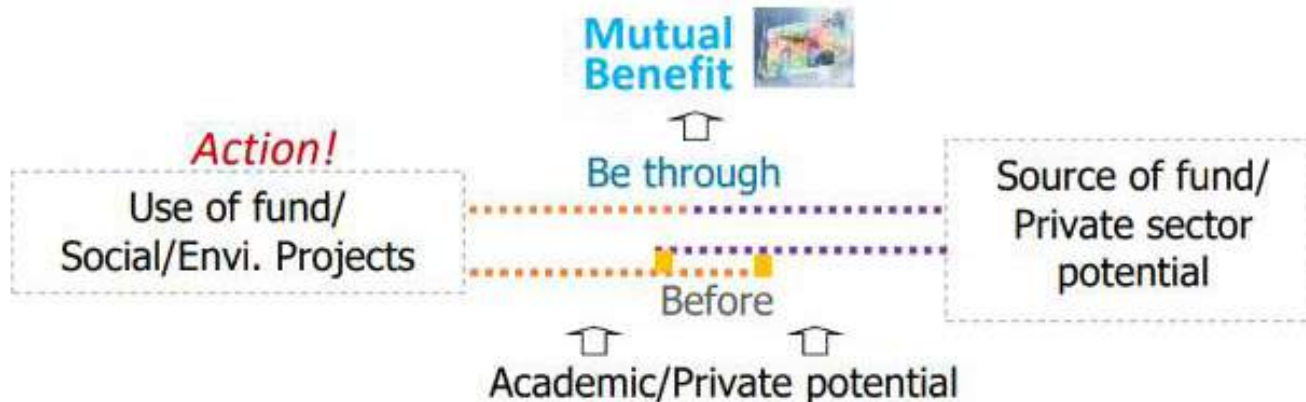
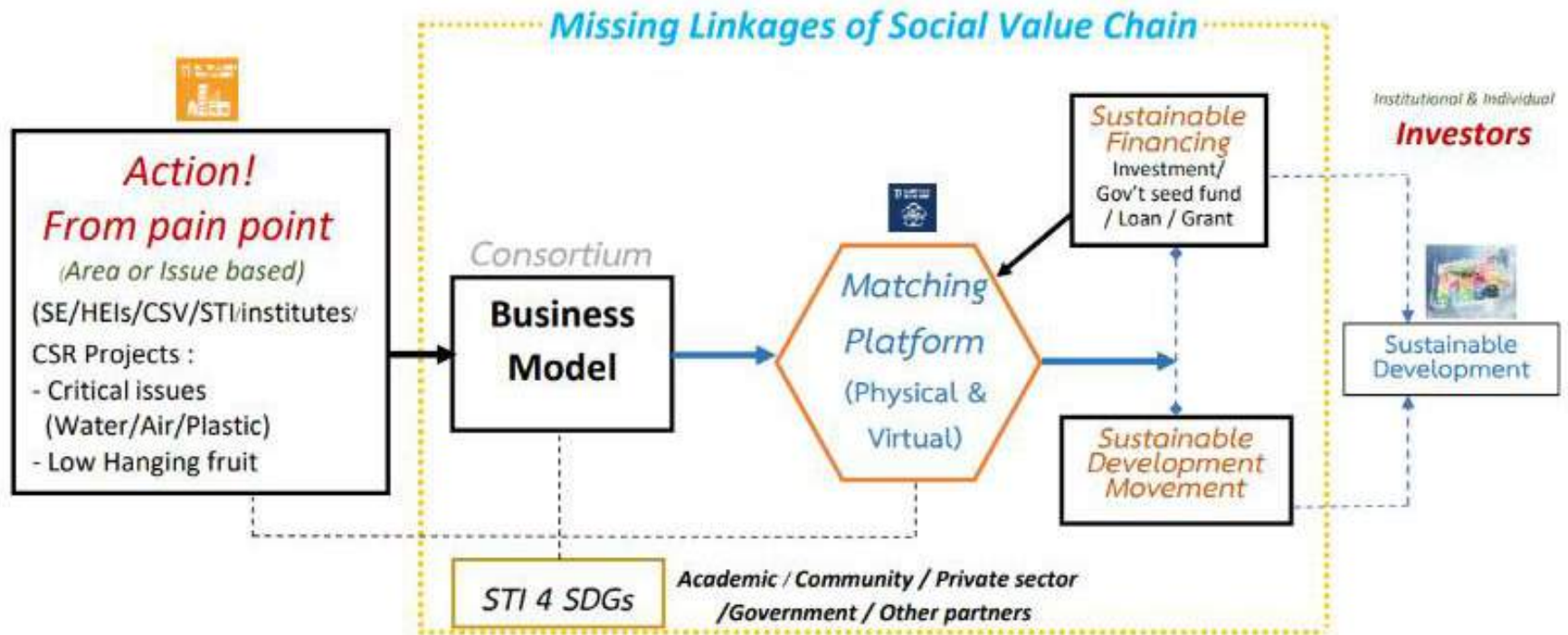
Urban Block Chain Built

Censor & Alert System

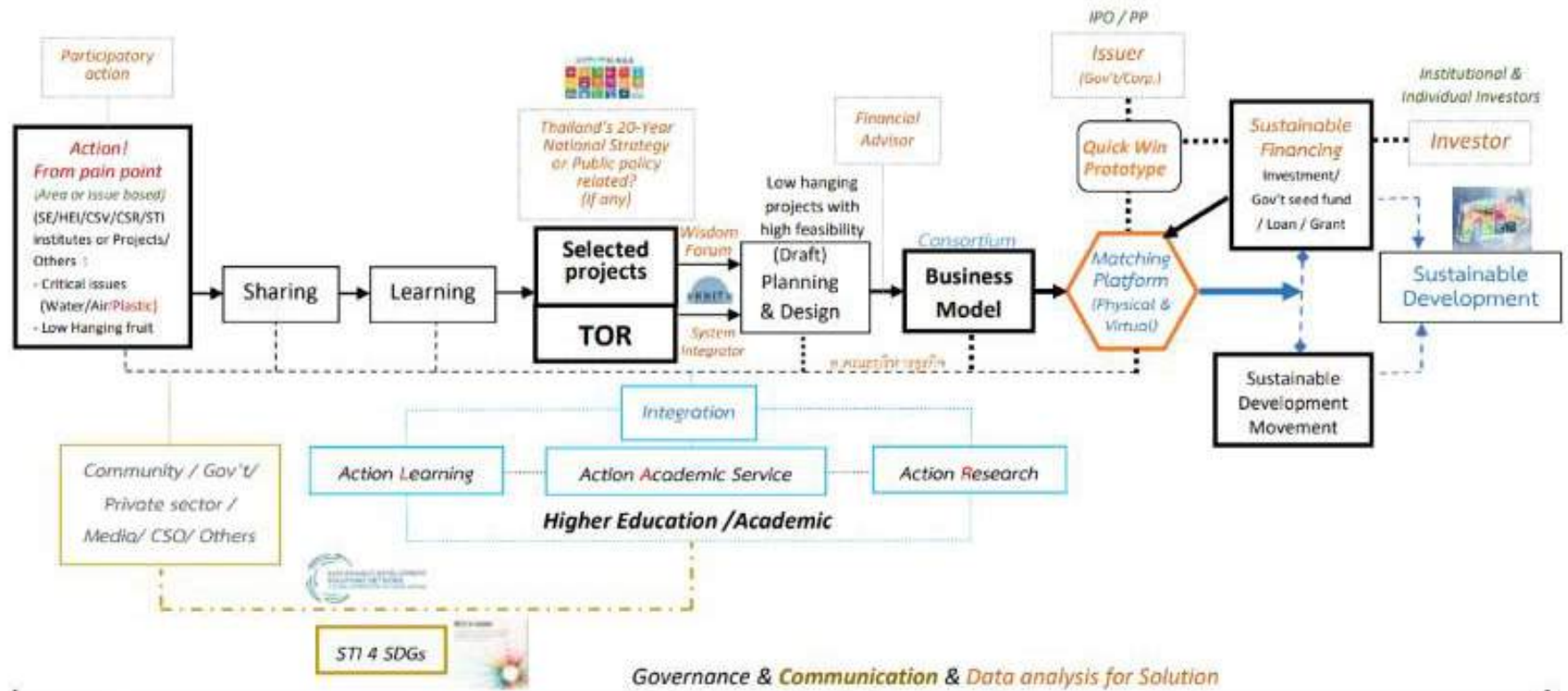
Lad Phrao Canal and Community Development project is expanding the partnership to many sectors.



(Draft) SDG11 Nexus's Social Value Chain : "Triple Helix" Network of Action / Consortium
 (from Policy to Action) SDG17 for SDG11



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Note : การใช้ logo ของหน่วยงานต่างๆ มีวัตถุประสงค์เพื่อขอร่างการออกแบบการทำงานเท่านั้น

“.....การทำนโยบายสาธารณะ..หน่วยงานรัฐไม่ต้องทำขึ้นมาใหม่ เพียงต่อท่อจากสิ่งที่สังคมเขาร่วมกันทำอยู่ในพื้นที่...ให้ขึ้นมาเป็นนโยบาย และลงมือทำ.....”

ไพบุลย์ วัฒนศิริธรรม (2545)

“.....การทำงานไม่ควรเริ่มที่ TOR เพราะอาจขาดการมีส่วนร่วมที่แท้จริงของคนในพื้นที่นั้น ควรเริ่มจากการ Action (ลงมือทำ) และนำข้อมูลมาแลกเปลี่ยนกัน (Share) เรียนรู้ไปด้วยกัน (learning) และออกแบบวางแผนงานไปด้วยกันด้วยความร่วมมือของหุ้นส่วนเพื่อการพัฒนา (หลายครั้งเป็นการรวมตัวแบบธรรมชาติของกลุ่มคนที่มี passion เหมือนกัน).....”

ผศ.พงศ์พร สุตบรรทัด (1 กรกฎาคม 2562)



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS