

SMART TAIPEI

Government as a Platform

City as a Living Lab



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- Director of Taipei Smart City Office(TPMO)
- Secretary General of GO SMART
- CEO of ICC, Taipei Computer Association
- Section manager of Institute for Information Industry (III)
- Assistant professor of Kainan University
- worked on numerous central government projects, including Smart City Promotion Project, Cloud Computing Industry Project, UX Project, E-learning Project, etc., and had over 15 years of research experience in ICT related industry.



The Development Vision of Smart Taipei

SMART FUTURE

| City Internationalization |
City Diplomacy

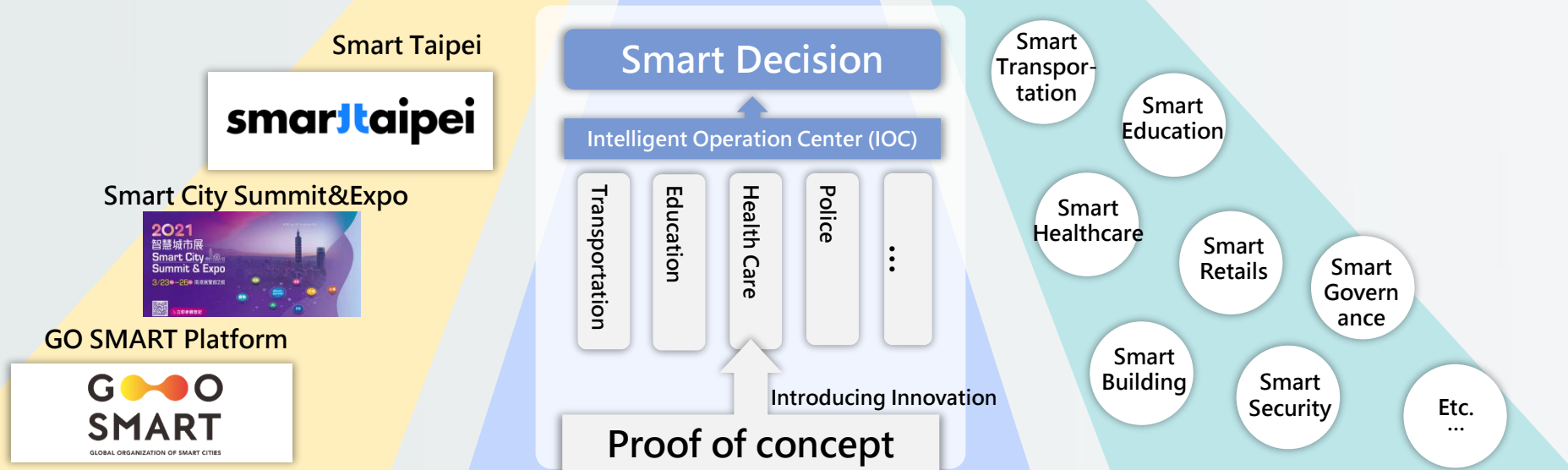
Smart city is an opportunity
for Taiwan to the world.

| Livability and Sustainability |
Smart Taipei

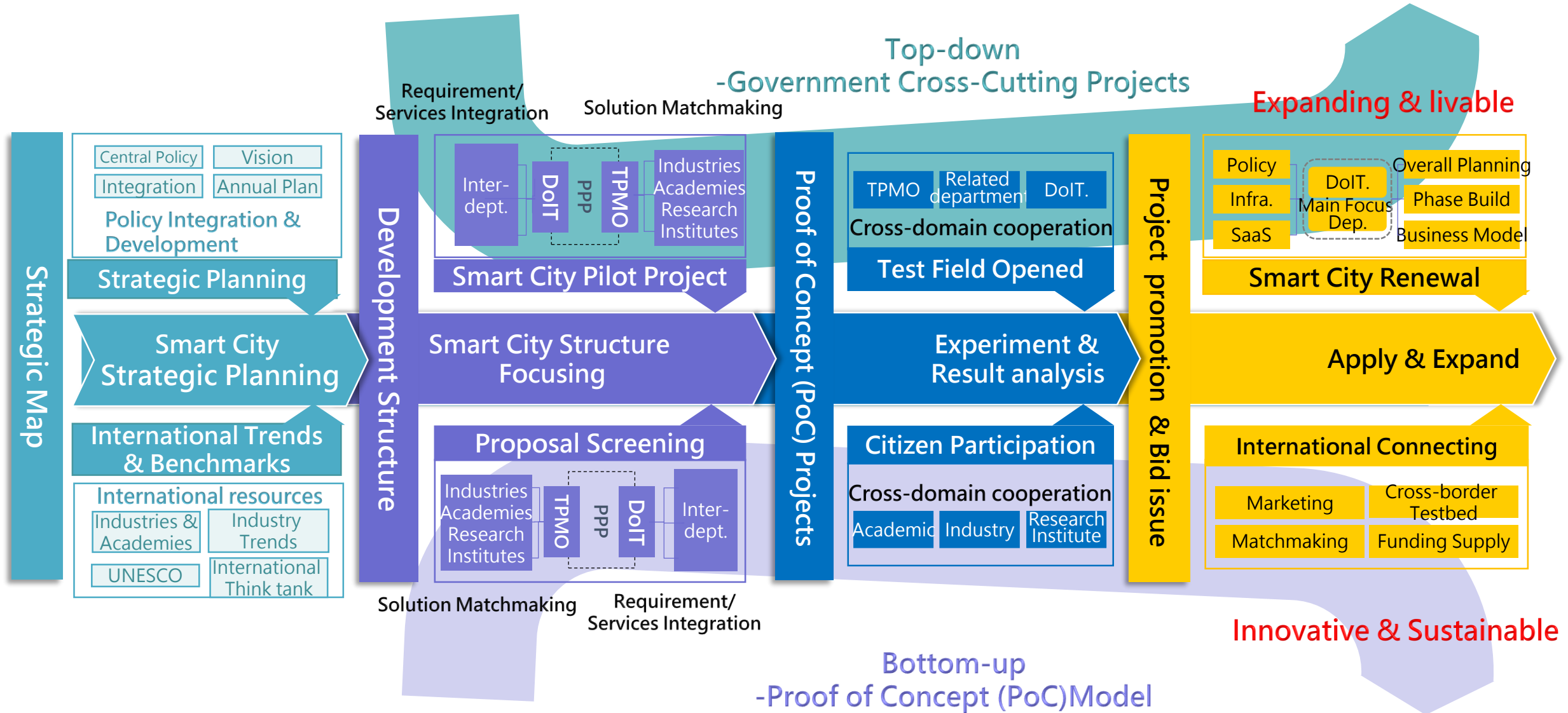
Changes the essence first,
then strengthen the system.

| Industrial Globalization |
Industrial Development

Meets the needs of the global market
through the smart city industries.



Smart Taipei Collaborative Ecosystem



Change Culture of Public Service with Innovative Mechanisms

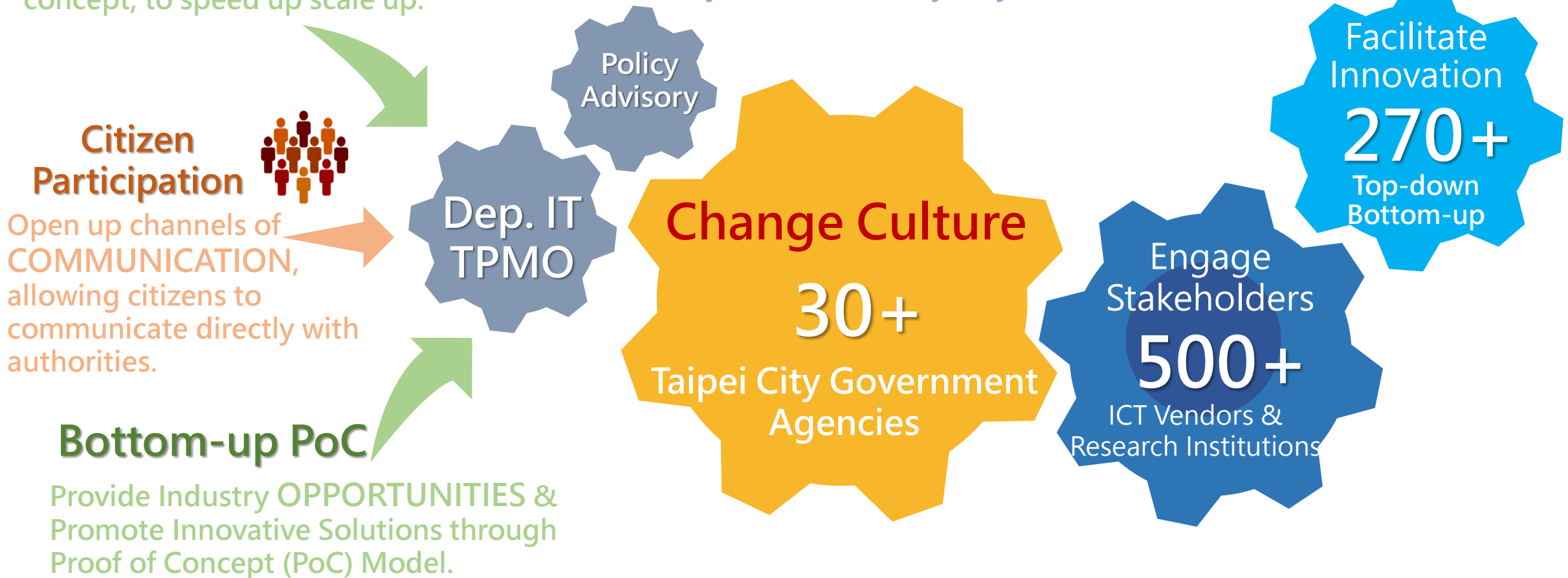
Top-down PoC

Dig out need from government, call for solution/idea from private based on POC concept, to speed up scale up.

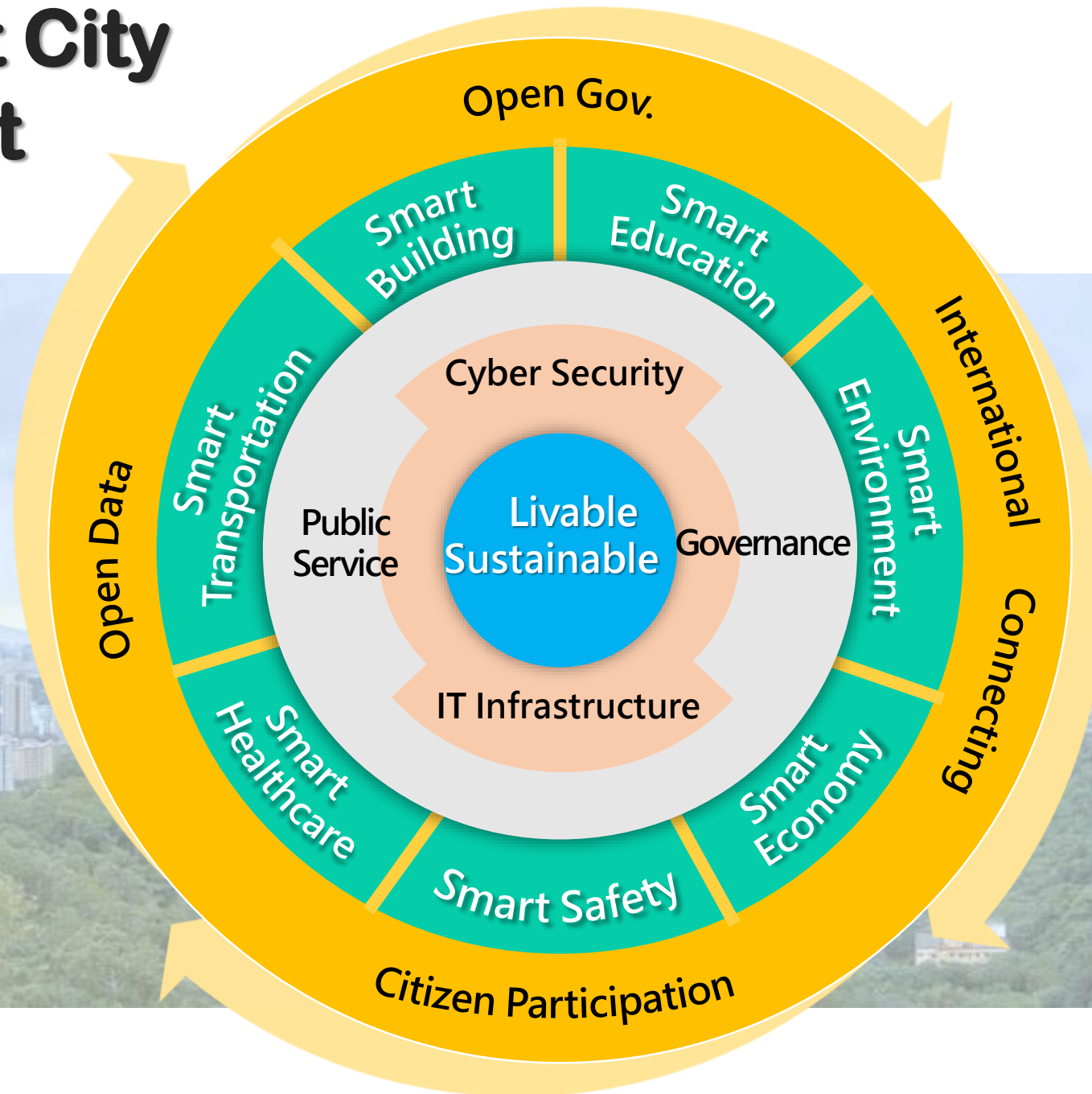
Top-down Planning

Bring INNOVATION into Government Cross-Cutting Projects & Smart City Projects.

smarttaipei



Taipei Smart City Development Framework



**1 Core + 7
Key Fields
Drivers**

Vision











Frameworks

Core

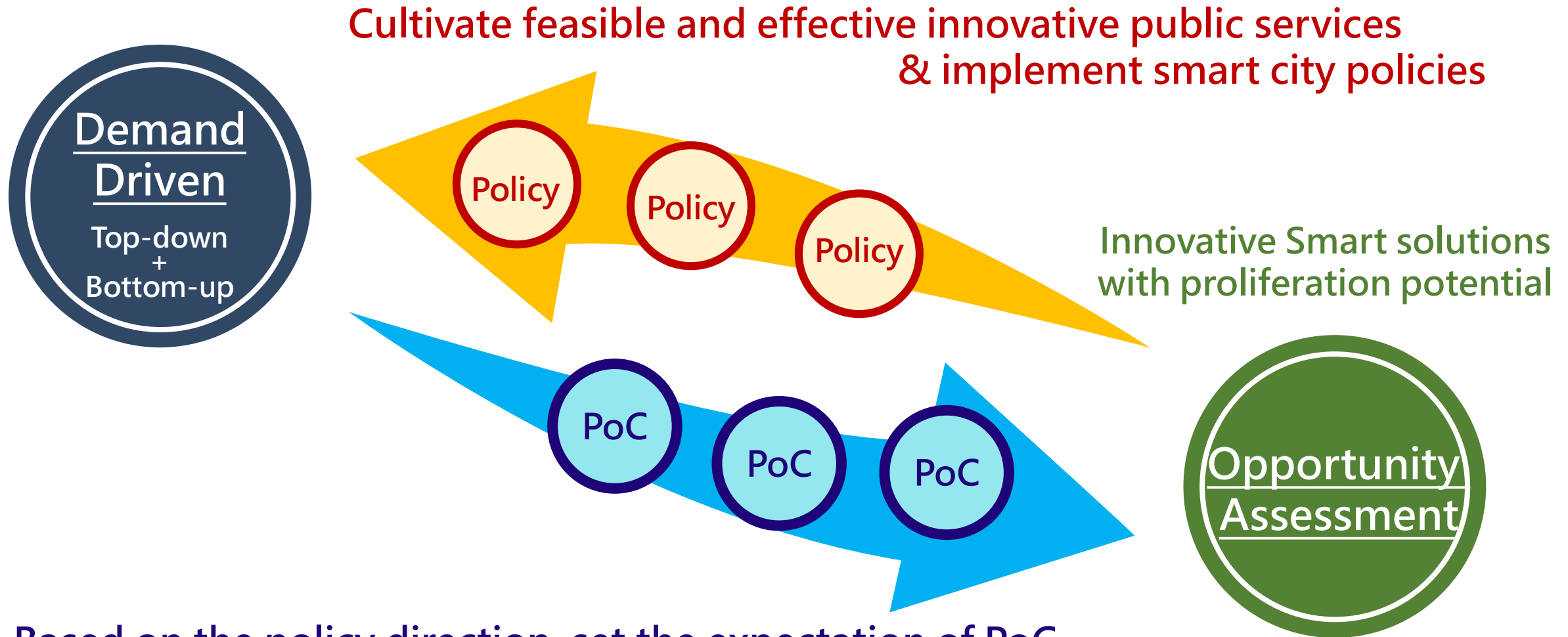
Fields

Methods

Smart Taipei Steering Group

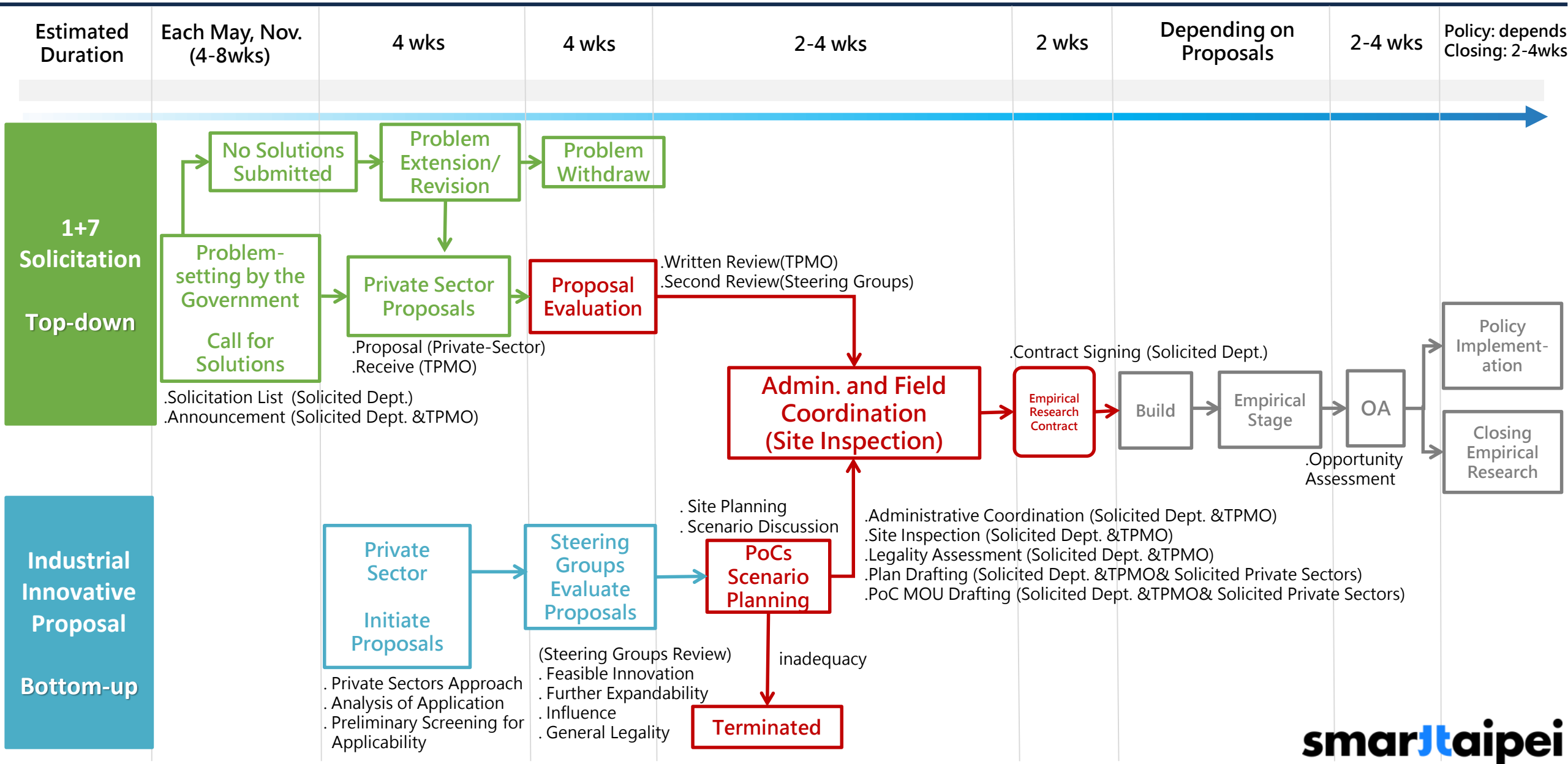
1 Core+7 Key Directions	 Smart Government	 Smart Security	 Smart Building	 Smart Transportation	 Smart Education	 Smart Healthcare	 Smart Environment	 Smart Economy
Hosting Department	Department of Information Technology	Taipei City Police Department	Department of Urban Development	Department of Transportation	Department of Education	Department of Health	Department of Environmental Protection	Department of Industry and Business
Secretary	Assign a TPMO member as the dedicated secretary in each direction.							
Responsible Members	DOIT DOCA DOLA RDEC External consultant	TCPD TFD DOIT External consultant	DOUD DOIT External consultant	DOT DORTS Metro Taipei DOIT External consultant	DOE DOCA DOS DOIT External consultant	DOH DOSW DOIT External consultant	PWD TWD TFRA DEP DOIT External consultant	DOED DOF DOIT DOIT Easy Card Corp External consultant
Key Tasks	<ol style="list-style-type: none"> Consolidate the current development status of each direction and look towards to co-shaping vision into "Taipei City Smart City Future Planning Blueprint" . Promote and connect Top-down and Bottom-up projects in every direction. Promote the "Taipei City Data Hub Integration Project" to jointly defined the applicable scenarios and data analysis model of the "Big Data Center ". 						<u>Execution</u>  Monthly Group Meeting	<u>Execution Review</u>  Report to Smart City Committee quarterly

PoC Next: Enhancing Implementation

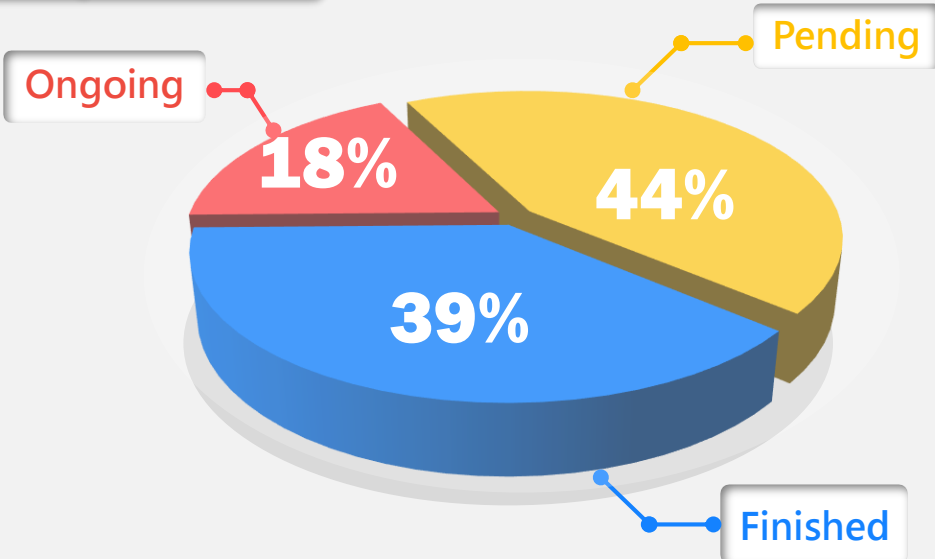


Based on the policy direction, set the expectation of PoC,
then judge the effectiveness according to actual verification results

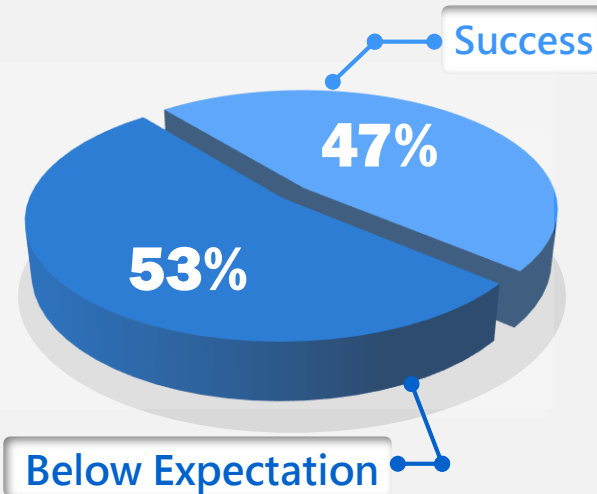
Taipei Smart City Industrial Empirical PoC Program



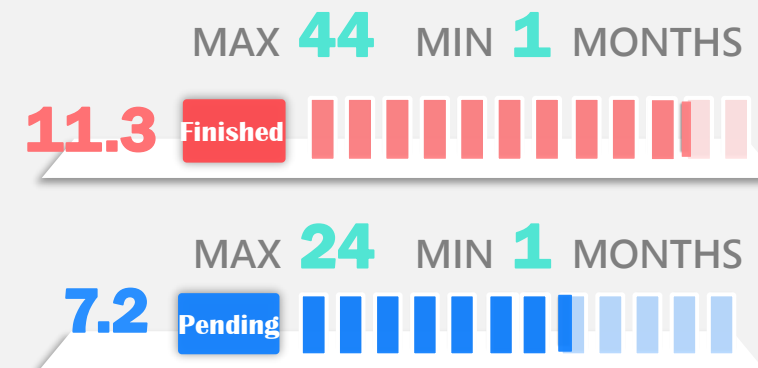
Project Status



Finished Projects Result



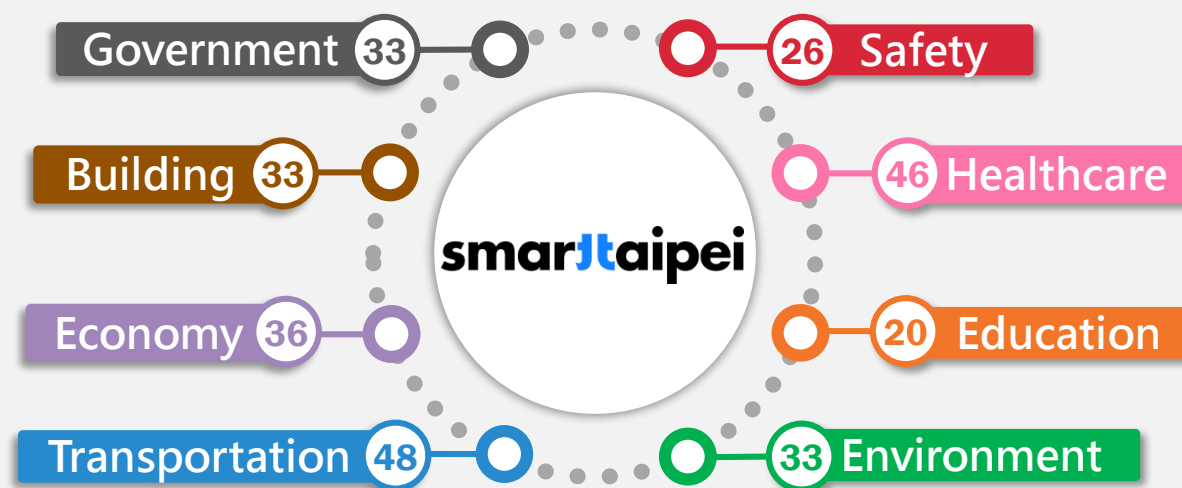
Average Time Spent



Number of Projects/Year



Field of Projects



3-Stage Scaling up from PoC Project to Policy

01 Proof of Concept

- Solicitation twice a year
- After finishing PoC projects, private sectors can participate in Annual Innovation Award with Rewards

★Smart Taipei Industry Empirical Research PoC Project

Selected PoCs granted with Rewards

02 Pilot

To prove the commercial feasibility of future expansion through small-scale pilot projects, and introduce cost-effectiveness into this stage of assessment

★After budgeting, departments invite public bidding in accordance with Government Procurement Regulation

Budget for Small-Scale Procurement



03

Scale-up

A profitable business model that can be purchased locally and is considered a mature solution that can be exported on a large scale.

Official Budget for Procurement

Smart Taipei—"Best Practice" for Smart City and IoT Ecosystem Collaboration



Charles Anderson , the Former Vice President of IDC Asia/Pacific and Senior Advisor of McKinsey & Company named Taipei City as a **Game Changer** for Smart City strategies globally in ' *Taipei City: How to Create a Citizen-Centric Smart City* ' .

4 TAIPEI: A CITIZEN-CENTRIC SMART CITY

THE SMART CITY DILEMMA

- WHERE IS THE BUDGET?
- WHICH SOLUTIONS/USE CASES?
- WHO CAN DESIGN & DEPLOY?

CHARLES REED ANDERSON & ASSOCIATES | CHARLESREEDANDERSON.COM | @CRASINGAPORE

In the Internet of Things World held in Santa Clara, California in May 2018, Charles Anderson described the citizen-centric smart city in the Opening Keynote using Taipei as an example .

Smart Taipei Awards & Recognition

2015

- **Platinum Certification of ISO 37120**
(WCCD, World Council on City Data)
- **IDC Smart City Asia Pacific Awards**
(IDC, International Data Corporation)

2016

- **IDC Smart City Asia Pacific Awards**
(IDC, International Data Corporation)
- **ITS Industry Achievement Award**
(ITS, Intelligent Transportation System World Congress)

2017

- **Golden Award- Cooperative City**
(WeGO, World e-Governments Organization of Cities and Local Governments)
- **Local Government Awards**
(ITS, Intelligent Transportation System World Congress)
- **No. 5 of Most High-Tech Cities in the World**
(World Economic Forum and Business Insider)
- **Metro-ICT Best Practice Award**
(ASOCIO, Asian-Oceanian Computing Industry Organization)
- **Asia Pacific Excellent Project Management Award**
(PMI, Project Management Institute)

2018

- **World's Top 50 Smart City Governments**
(No.16) (Eden Strategy Institute)
- **IDC Smart City Asia Pacific Awards**
(IDC, International Data Corporation)
- **Award of Distinction**
(The Open Group Awards for Innovation and Excellence)

2019

- **IDC Smart City Asia Pacific Awards**
(IDC, International Data Corporation)
- **GO SMART AWARD-Cooperative City**
(GO SMART, Global Organization of Smart Cities)

2020

- **IDC Smart City Asia Pacific Awards**
(IDC, International Data Corporation)
(Taipei CooC-Cloud Smart Education)

2021

- **2021 WITSA ICT Excellence Awards**
(Taipei City Government Covid19 Dashboard and Data Analysis)
(Taipei CooC-Cloud)
- **IDC Smart City Asia Pacific Awards**
(TaipeiPass: Digital Pass to Government's Mobile Service)
(Technology-Assisted Pandemic Prevention Project)
- **SCSE Innovative Application Awards**
(Autonomous Bus on Xinyi Bus Lane)
(Public Housing-AIoT Platform)
- **GO SMART AWARD**
(GO SMART, Global Organization of Smart Cities)

2022

- **SCSE Innovative Application Awards**
(TAIPEION-Innovative Smart Governance Administrative Application ; Taipei CooC-Cloud4.0—CooC APP)
(SCSE, Smart City Summit & Expo)
- **GO SMART AWARD**
(GO SMART, Global Organization of Smart Cities)



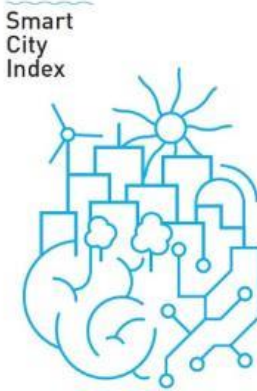
IMD Smart City Index (SCI) 2021

Taipei ranked 4th



The International Institute for Management Development (IMD), collaborated with Singapore University of Technology and Design (SUTD), released IMD Smart City Index in Oct., 2021.

Taipei ranked No. 4 among 118 cities worldwide
The 2nd in Asia only trailed Singapore



Overall Ranking	City	Rating	Overall Ranking	City	Rating
1	Singapore	AAA	6	Finland—Helsinki	A
2	Switzerland—Zurich	AA	7	Denmark—Copenhagen	A
3	Norway—Oslo	AA	8	Switzerland—Geneva	A
4	Taiwan-Taipei	A	9	New Zealand—Auckland	A
5	Switzerland—Lausanne	A	10	Spain—Bilbo	BBB

Taipei Smart City Development

2016
Phase I

Bottom-up POC

2020
Phase II

Top-Down POC →

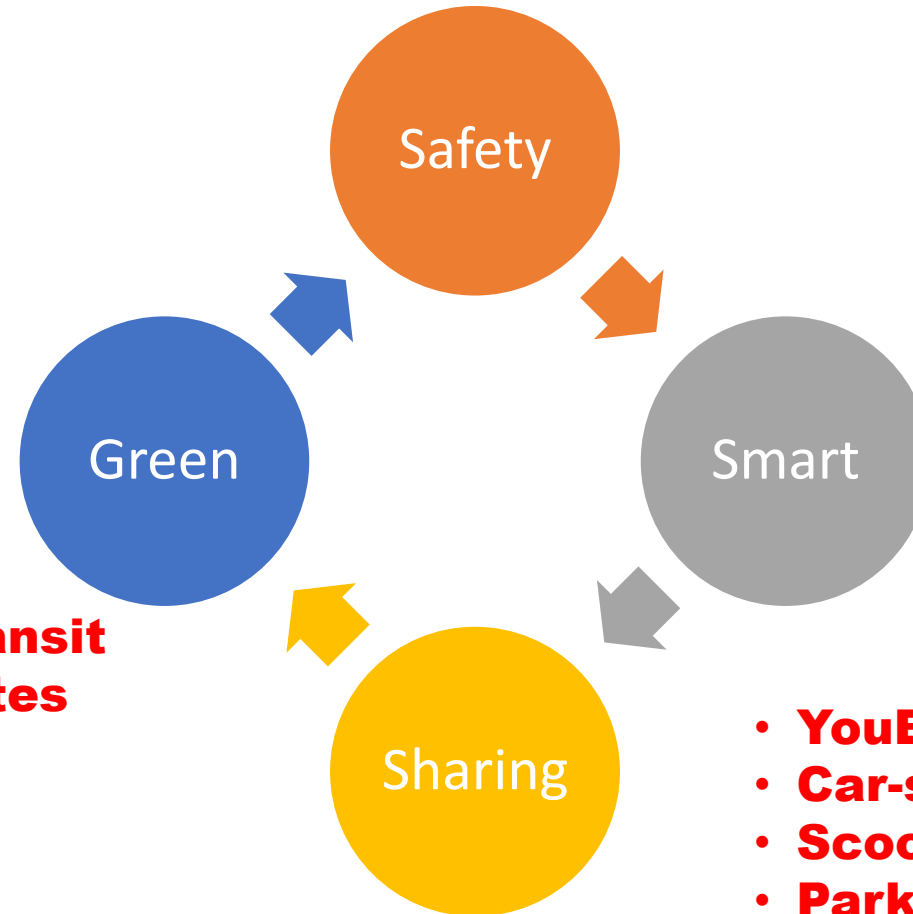
Bottom-up POC →

Top-Down Policy Advisory →

Citizen Participation →

Taipei Smart Transportation Policy

- **Neighborhood Traffic Environment Improvement**
- **Bus with Advanced Driver Assistant Systems(ADAS)**



- **Expand Mass Rapid Transit**
- **Integration of Bus Routes**
- **All Pass Ticket**
- **Electric Buses**

- **Intelligent Parking**
- **Intelligent Traffic Control**

- **YouBike**
- **Car-sharing**
- **Scooter-sharing**
- **Parking Share**

1+7 Fields Proof of Concept Projects

Transportation

Demonstration of License Plate Recognition Application
Identification of Traffic Flow at Diding-gangqian Intersection
Self-driving bus on Xinyi Road bus lane

Elder Health Care

Alone Care-Video Secretary
Real-name mask automatic vending system
Smart disinfection handling robot

Innovative and Smart Application

De-identification of computer room images
Xinyi Multimedia Information Station (Kiosk)
Service robot
Taipei IoT experiment platform
Neihu Smart Park

Environment and lifestyle

Air box project
eSIM remote access certificate water quality monitoring
Neihu Smart Street Light Project
Structural Monitoring of Shezi Bridge
Smart Management of Feicui Reservoir Area
Energy-saving lamp control in front parking lot
Intelligent garbage collection system (iTrash)

Education

Mixed reality (MR) course teaching
Campus security monitoring electronic fence
Taipei English Learning Village
DSA Network Sharing Experiment Pilot Project

270+ Projects



Green Expand Mass Rapid Transit

Current Network



152.3 km, 131 stations

Future Network



197.2 km, 172 stations by 2030



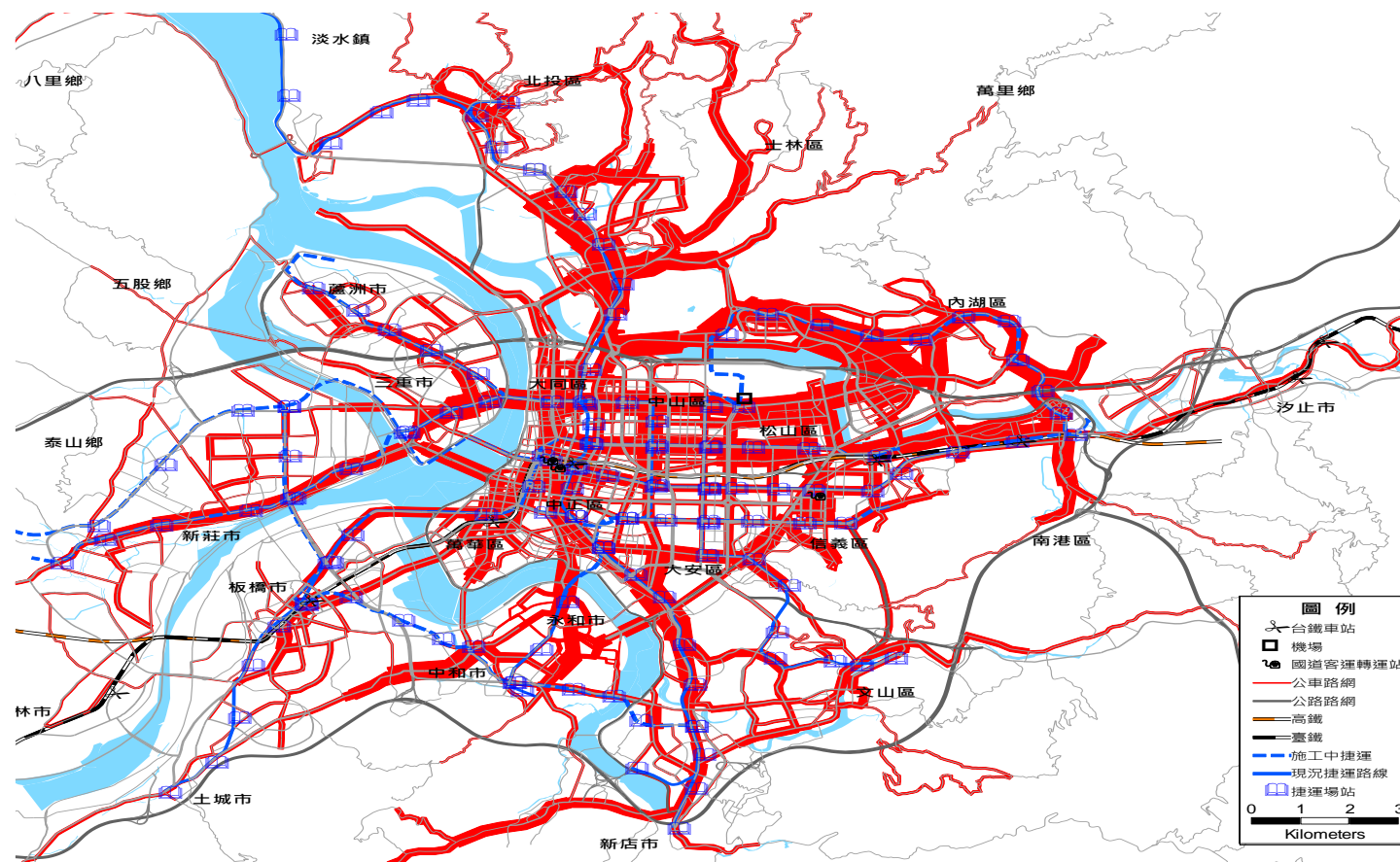
- ◆ Routes : 336
- ◆ Coverage ratio 99.51% (excluding buses can not travel the road)

◆ Bus Route Network Structure

- ✓ Express Line: 13 routes
- ✓ Metro Line: 16 routes
- ✓ Branch Line: 263 routes
- ✓ Spur Line: 44 routes

◆ Launch Taipei Metro Bus by 2018

- ✓ Peak Hour Headway
4-6 mins
- ✓ Transfer Discount 50%



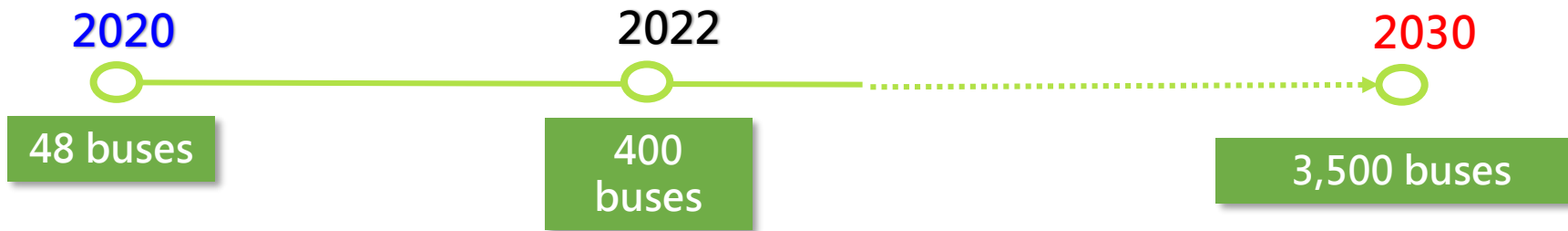


□ Strategy

- ✓ Stop adopting diesel buses
- ✓ Assisting in setting up charging stations
- ✓ Giving subsidy based on the number of passengers

□ Goal

Full Electrification of Buses in Taipei



P.O.C of Smart Electric Bus Connection

- The POC is to demonstrate the local capabilities in smart transportation development, trying to improve public transportation infrastructure through electric energy charging and two new safety designs: Difference of Radius Between Inner Wheels Warning System, and Electronic Rearview Mirror. The tests will be conducted during the exhibition period and the performance will be used as the basis for subsequent Advanced Driver Assistance Systems (ADAS) verification.
- Through intelligent charging scheduling system, the energy utilization efficiency can be improved. In the future, the vehicle scheduling platform can be integrated to a complete planning interface for transport services operators. In addition, Difference of Radius Between Inner Wheels Warning System and Electronic Rearview Mirror would improve the safety of public transportation.



- Round-trip connection route
1. Songde Building
 2. Taipei City Government
 3. Taipei Nangang Exhibition Center, Hall 2



Verification items		Verification details
	Smart Charging Scheduling System	Distributing charging time by scheduling, avoiding peaks in power consumption, maintaining grid stability, and improving energy efficiency when the number of charging piles is limited.
	Difference of Radius Between Inner Wheels Warning System	Turn on the warning light when turning; when the direction light is turned on, the warning light will flash and be accompanied by a warning sound to enhance the warning effect.
	Electronic rearview mirror	Drivers can see at least five meters wide horizontal road field of vision, and extended backward from 30 meters behind the eye point to solve the visual blind spot of large vehicles.

4U Green & Share Transportation

YouBike Sharing Bicycle

914 Stations
17,561 Bikes



U-motor Sharing E-Scooter

3 operators
13,556 Scooters



U-EV Sharing EV

281 EV Chargers at
107 public parking lots



U-Parking Sharing Parking Space

29,107
Available Space





Green

All Pass Ticket

雙北全區 30日
ALL PASS TICKET
NT\$1,280

一張定期票
雙北任走跳

3/13起 開放預購
4/16 開通使用

臺北捷運+雙北公車

吃到飽

臺北市 YouBike

前30分鐘
免費

新北市YouBike維持既有前30分鐘免費



□ Since April 16th, 2018

□ Unlimited travel on MRT and all buses and the first 30 minutes of YouBike riding for free in a 30-day period.

□ After the launch of All Pass Ticket, increased by 230,000 passengers per day on public transport system.



- **Intelligent On-street Parking**

- ✓ 24/7 Real-time Data on "iTaipei Parking" APP
- ✓ Self-billing
- ✓ Enable of Cashless Payments
- ✓ Proof of Parking Violation

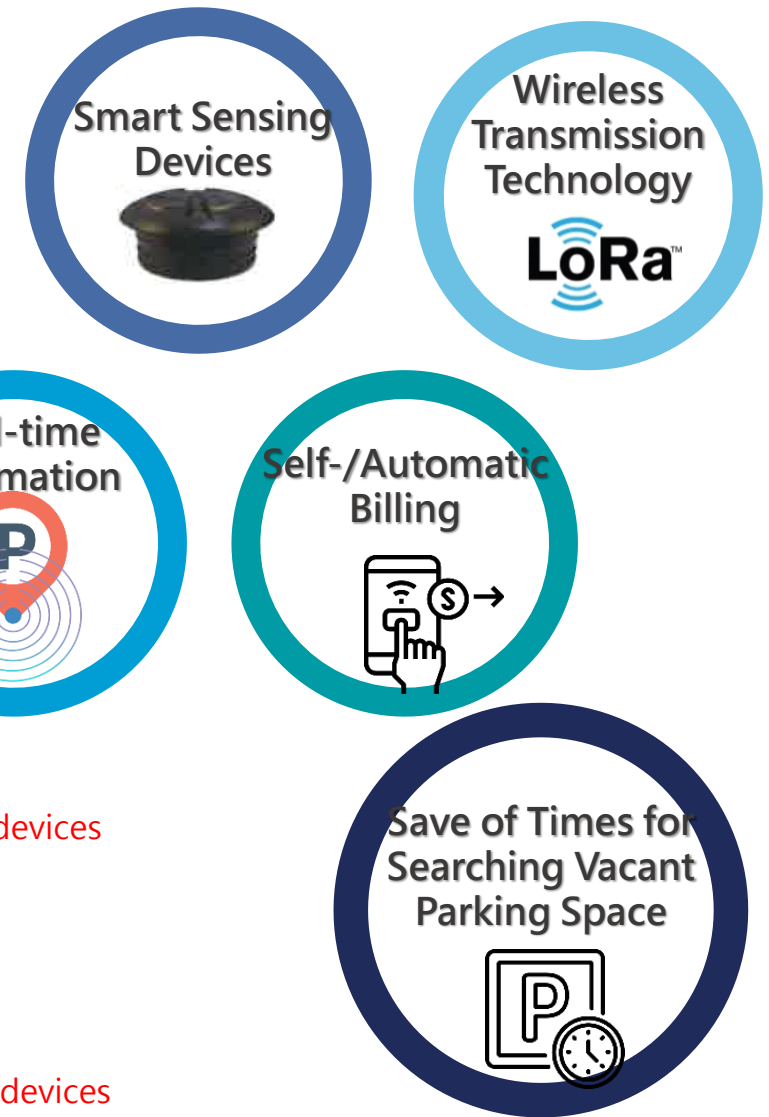
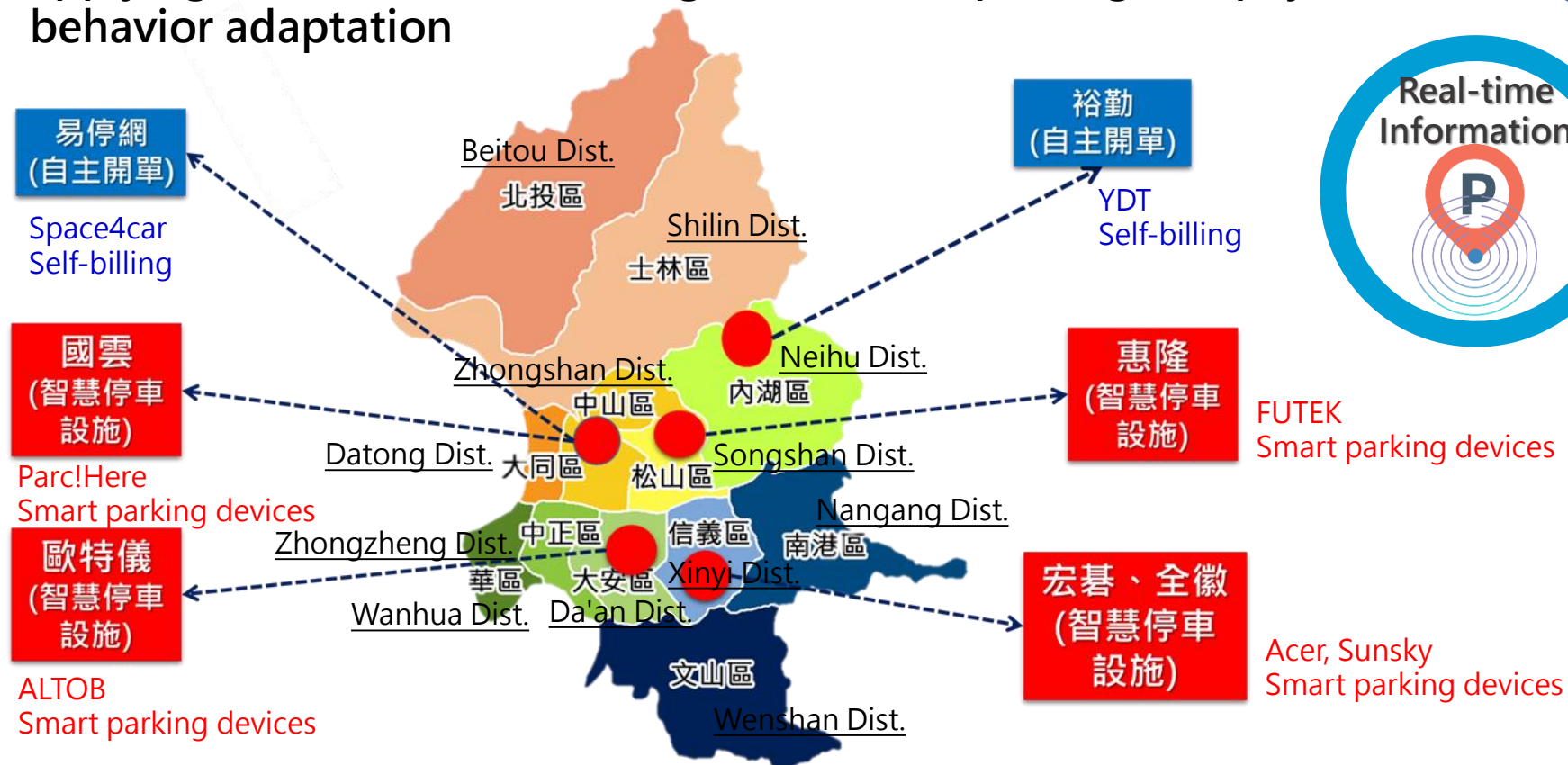
- **Intelligent Off-street Parking**

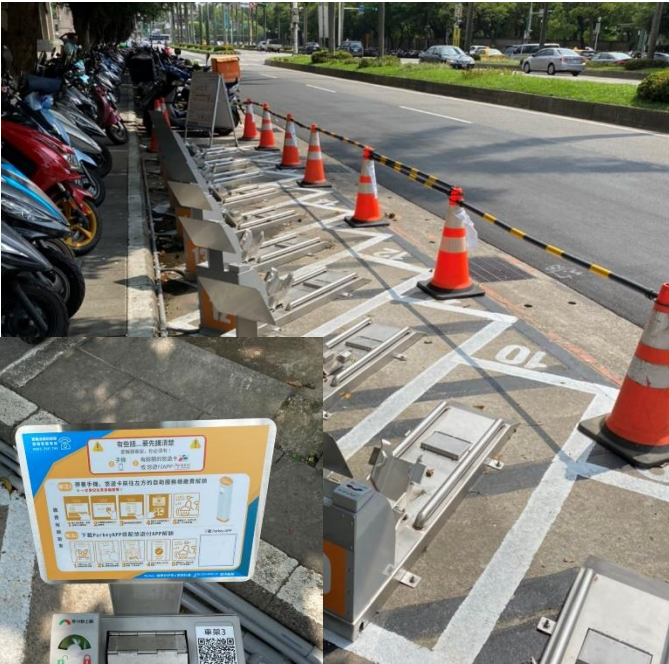
- ✓ 3A Smart Access Service



Field Test- Smart Parking

- Pilot phase : Update parking space information in real-time by using various ICT technologies and models to save time spent searching for a vacant space
- Phase 2 : Review the degree of public acceptance/feasibility of applying smart devices to billing of on-street parking and payment behavior adaptation





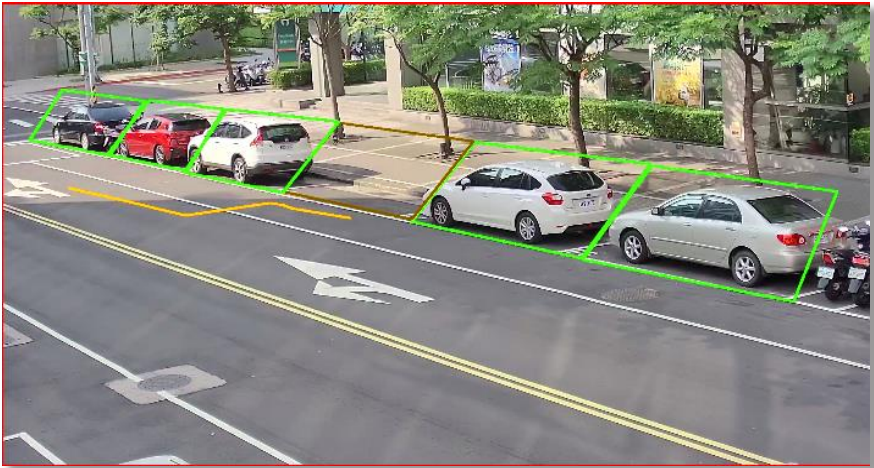
- Combining software and hardware of ICT, it is planned to offer real-time parking space information integrated with billing management in important business area of high turnover rate to provide scooter riders a more parking-friendly environment.
- The real-time parking space information is provided on iTaipeiParking App and the billing details are available for review.

Assist Smart Parking Billing by Using High Bit Video Detection System

- Field tests at two blocks at Nangang Dist. and Songshan Dist., respectively
- Assist operations by Parking Management and Development Office
- Efficiency comparison between this system and manual billing
- Monitoring platform (for block management, parking space management, payment management, parking status information, vacant space information and record inquiry)



#	流水號	所屬區域	所屬公司	所屬道路	所屬停車場	停車位編號	車牌號碼	入位時間	離位時間	停車時間	管理員編號	數據來源
1	181029152156635	臺灣-臺北市-內湖區	臺電	行愛街	行愛場路邊停車場	TW0201003	■■■■■■■■	2018-10-29 15:20:13	2018-10-29 15:24:04	00:03:51	識別主機	識別主機



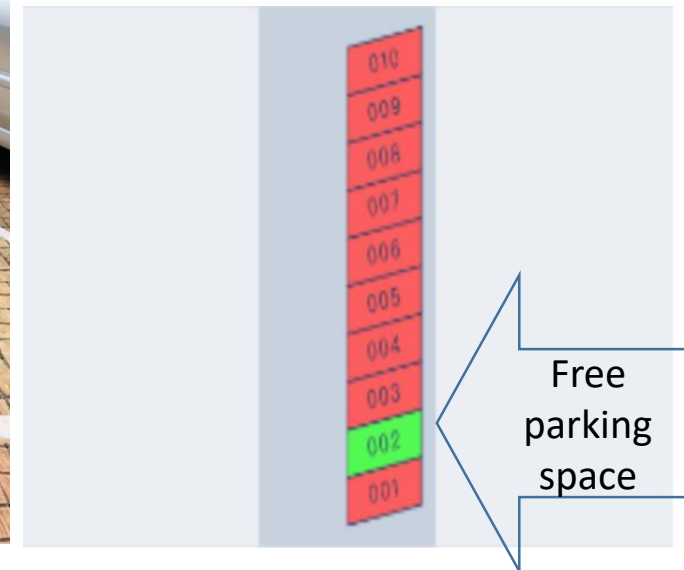
- **Pilot Phase** : Using NB-IoT and dual mode recognition technology, combined with the current rear stop, to detect the condition of the car grid in the seat
- **Benefit assessing** : Real-time detection of parking space information, providing off-road parking lots and other field parking information disclosure

The Testbed Domain

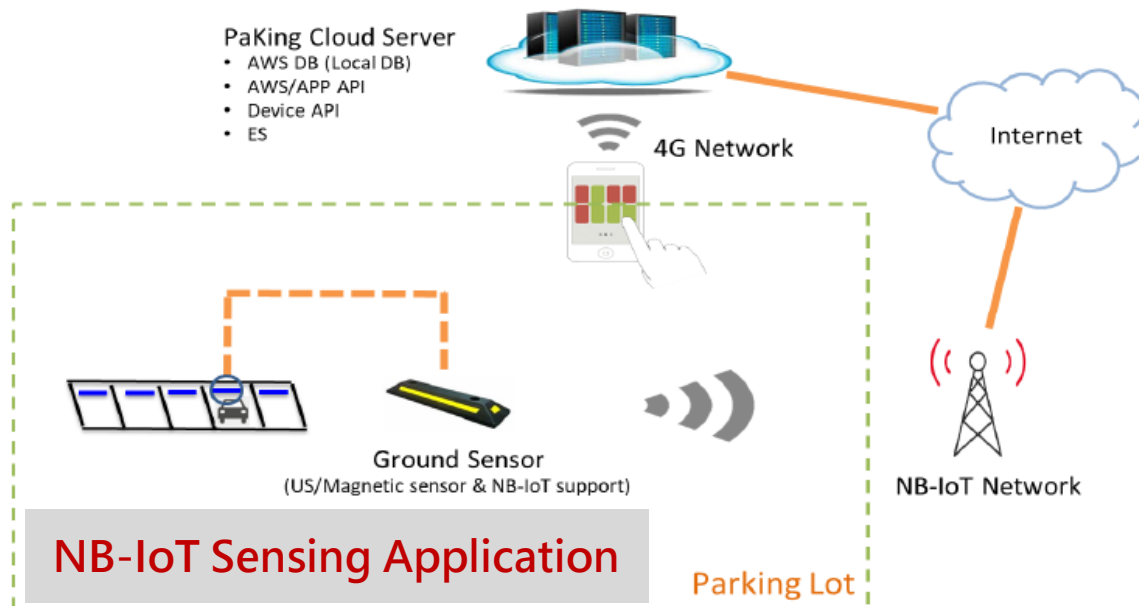


Left : Smart Sensors
Right : General wheel gear

Demo



Scenario Process



□ Traffic Control System

- 336 CCTV
- 717 VD
- 170 CMS
- 30 AI Accident Detection
- ✓ Traffic Flow Monitoring
- ✓ Distribution of Traffic Information
- ✓ Notification of Accident Information



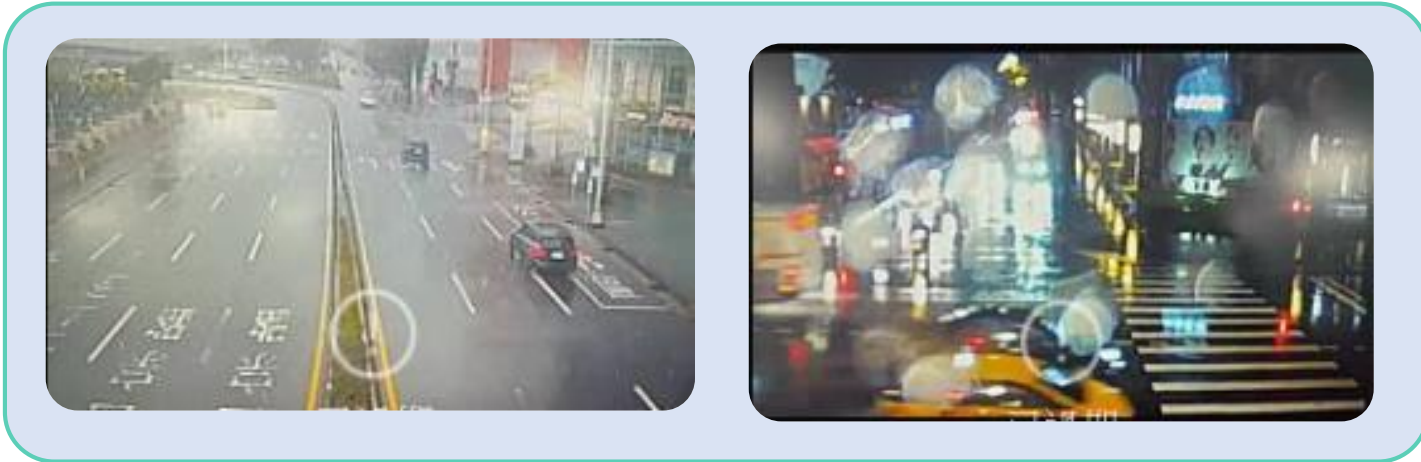
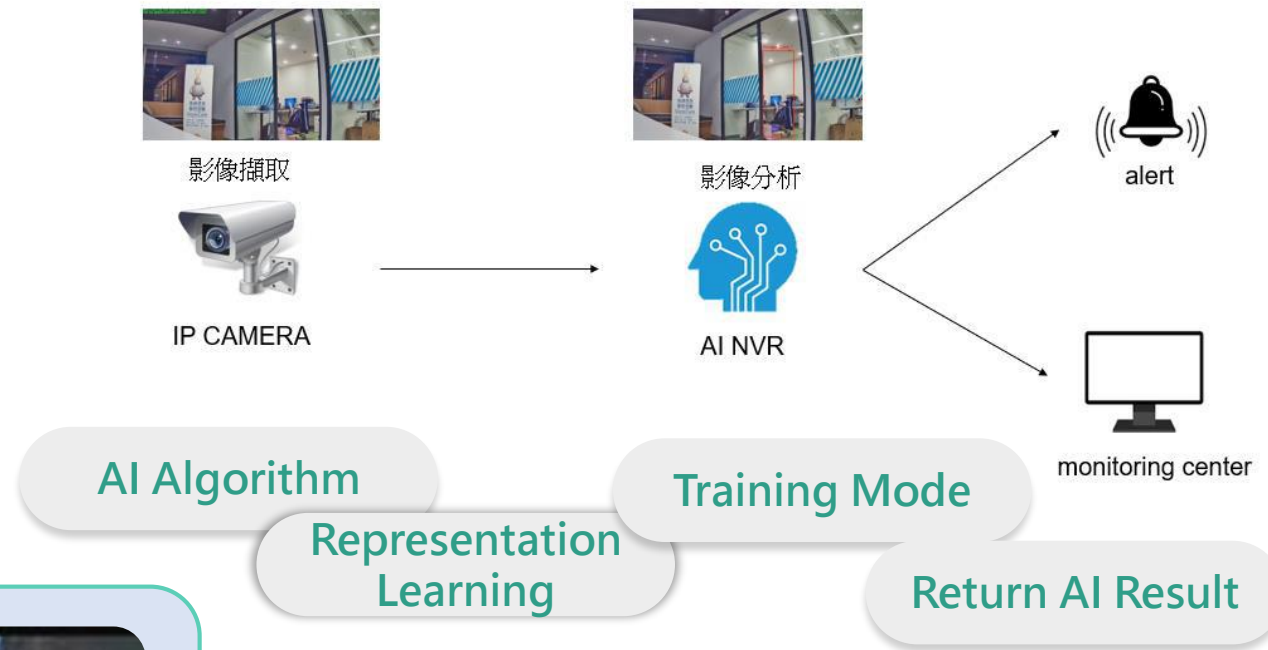
□ Smart Traffic Signals

- 73 Intersections installed
- ✓ Real-time Calculations to Adjust Signal Time
- ✓ Intersection delay ▼ 10%~16%



Closed-Circuit Television(CCTV) combined with AI image recognition in Neihu

- By use of the self-developed AI NVR combined with the CCTV data of the Traffic Engineering Office to perform AI image recognition at intersections.
- The analysis can be used as a reference for adjusting the time length of traffic signs and adjusting the parameters of CCTV photography.



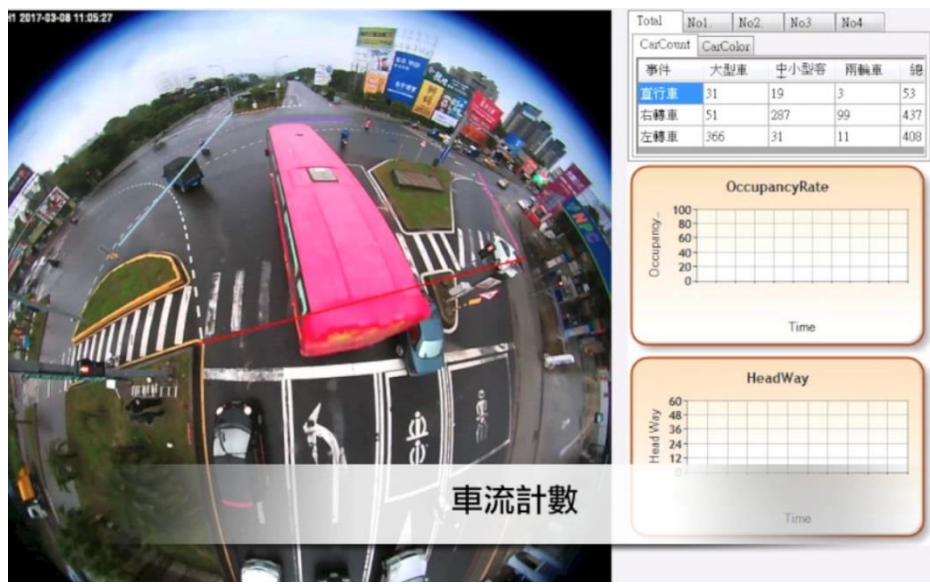
➤ It can speed up the reaction speed of the monitoring center, increase the value of the CCTV system.

Integrating 360° Fisheye Image Solution to Resolve Traffic Congestion in the City

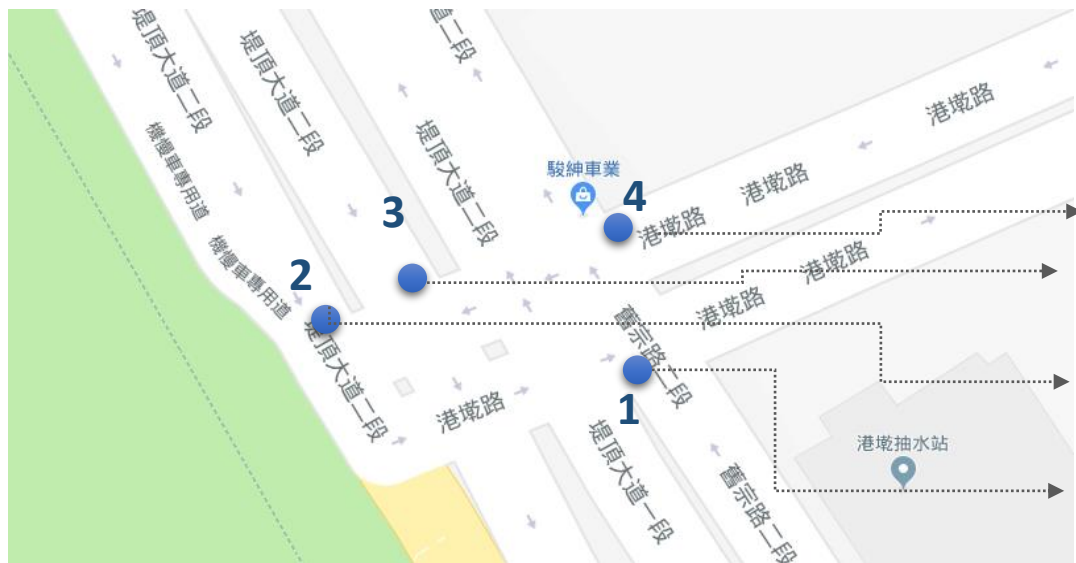
Has built a 360-degree fisheye detector and integrated Artificial Intelligence technology at Neihu District, providing instant traffic and trajectory of different models at intersections with complex traffic conditions.

Real-time Traffic Information Analysis

- Turning directions (L, R, S)
- Vehicle size (L, M, S) recognition & Calculation
- Vehicle speed
- Locomotive Flow
- Intersection occupancy
- Original image



five million pixels and 360°/180° panorama



- Detect traffic flows which are turning left or right to Tiding Blvd.
- Detect southward traffic flows, and automobile flows turning left to Gangqian Rd.
- Detect southward traffic flows, and motorcycle flows turning left to Gangqian Rd.
- Detect northward traffic flows, and traffic flows turning right to Gangqian Rd.



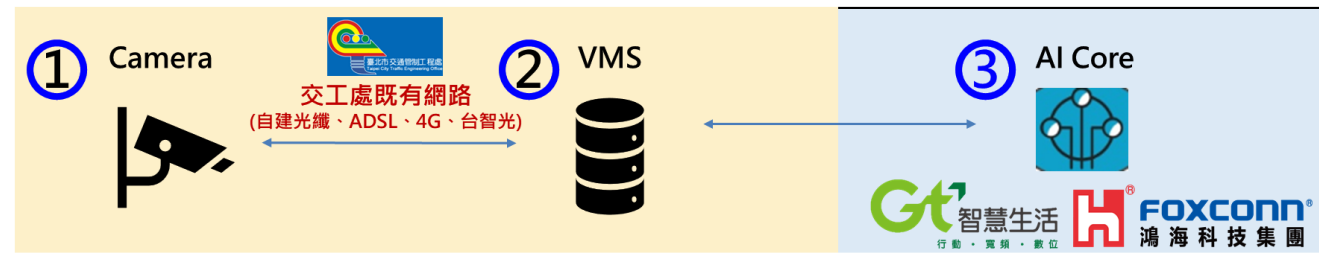
Step1. Verify AI recognition results



Step2. AI recognition
combined with traffic logic



Step3. Verify special situation event

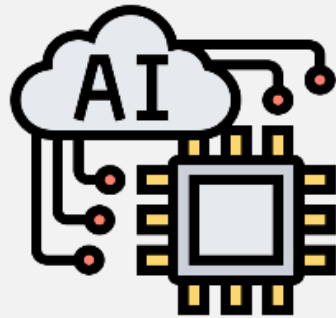


Using AI image recognition to collect complete traffic flow information, turning vector, parking etc., and distinguish road events based on traffic conditions, continuously optimize the AI model through algorithm training.

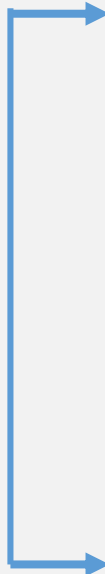
Achieving real-time urban traffic flow and speed prediction by AI

Providing road traffic flow and vehicle flow rate predictions through a cloud-based system of real-time AI algorithm in which combining vehicle detection data and real-time road.

Street image & real-time data collection



Using trained AI models and real-time traffic data to predict traffic volume and vehicle flow rate.



API concatenation can provide prediction and raw data for application.



Provide a map-based road network and a visual web interface to the implementer.



Applicable scenarios:

-  Emergency rescue vehicle green light belt.
-  Sign control.
-  Reorganization time system plan.
-  Information release.
-  Forecasting bus arrival time.
-  Transportation planning for a regional logistics network.



Safety

Neighborhood Traffic

Environment Improvement

Pedestrian-friendly Environment

Unblocked Fire Passage

Proper Parking Spaces

Barrier-free Community Spaces

- All 456 "Villages" Thoroughly Renovated by 2020

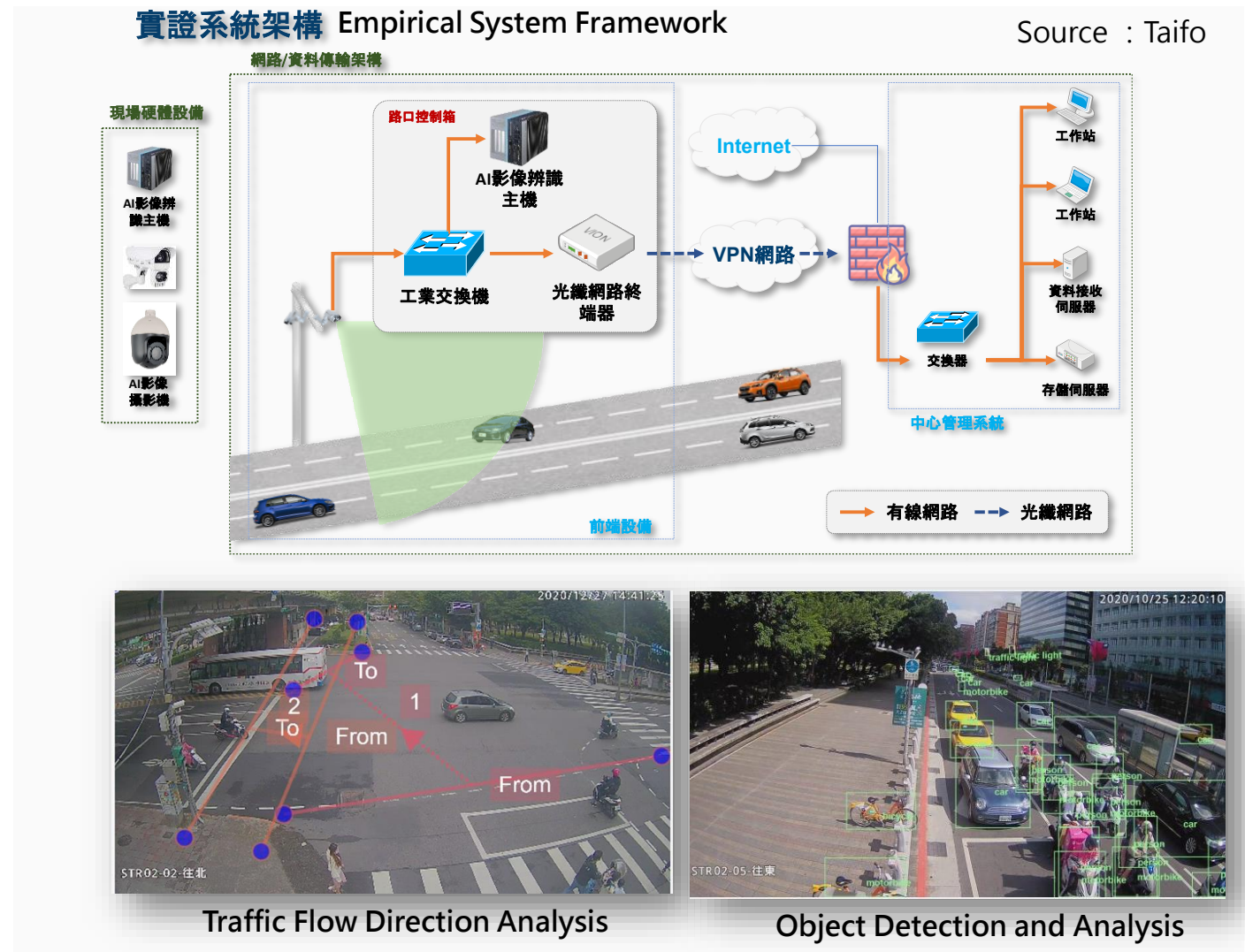


Before



After

- 5 image recognition facilities are installed in places to detect traffic and the trajectory of accidents, which allows the establishment of a data system and AI predictive model.
- By collecting the trajectories of the cars and accidents in high accident zone, it assists in completing AI image recognition analysis and establishing predictive model in order to provide managing units and vehicle occupants real-time traffic information and reduce accident rates.



High speed warning monitor with intersection real-time image by 5G

Intersection Image Monitor

- By use of 4K resolution camera and intersection real-time image sent back by 5G to offer the control center with AI real time analysis.

Too Fast Speed Warning

- To detect driving speed at accident area to display the warning sign for driver and pedestrian, also collect the information for control center to monitor and analyze.

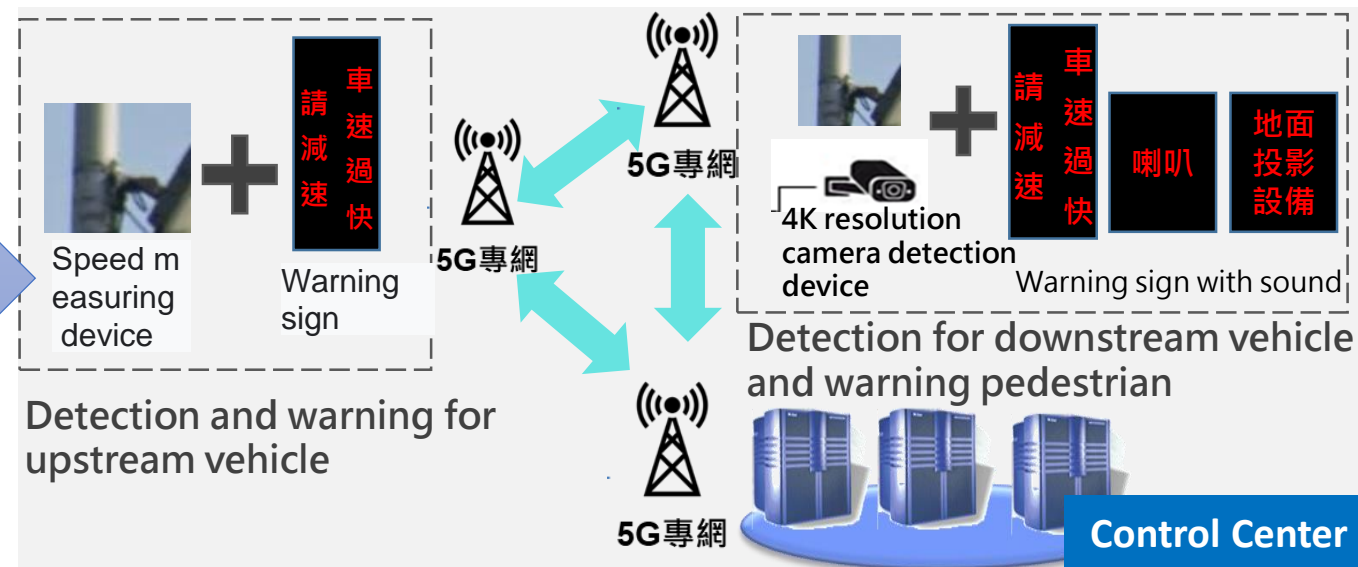
Combined 4K resolution camera with 5G to reduce number of CCTV constructions at the intersection instead of AI image recognition server requirement to support traffic control center and increase the value of computing.

Previously place 4 FHD monitors(1920*1080) highlight in yellow with AI server



Place two 4K resolution camera monitors (4096x2160) highlight in red without any AI server at this POC model

Transfer high resolution real time image to process AI algorithm at center office





Safety

Bus with Advanced Driver Assistant Systems(ADAS)

□ 930 Buses Installed

Lane Departure Warning
Forward Collision Warning



Blind Spot Warning



- In Taipei City, the 30 bus routes are equipped with Mobileye from Israel with driving record, advanced driver assistance system (ADAS), which contributes to public transport safety through embedded simultaneously digitization system with AI image identification.
- The enhanced service of ADAS system can collect data and establish data management standards through crowd-sourcing mode automatically. In addition, ADAS warning records can be used to identify high-risk road sections for engineering improvement reference.

- 1 The 30 bus routes are equipped with Mobileye, which adds value to public transport safety and collects data automatically.
- 2 All kinds of information are processed and filtered by Mobileye.
- 3 Mobileye depersonalizes, encrypts and uploads the data to the cloud.
- 4 TMS established the AI digital road information integration platform and diverted it into the data system for road risk and asset management.



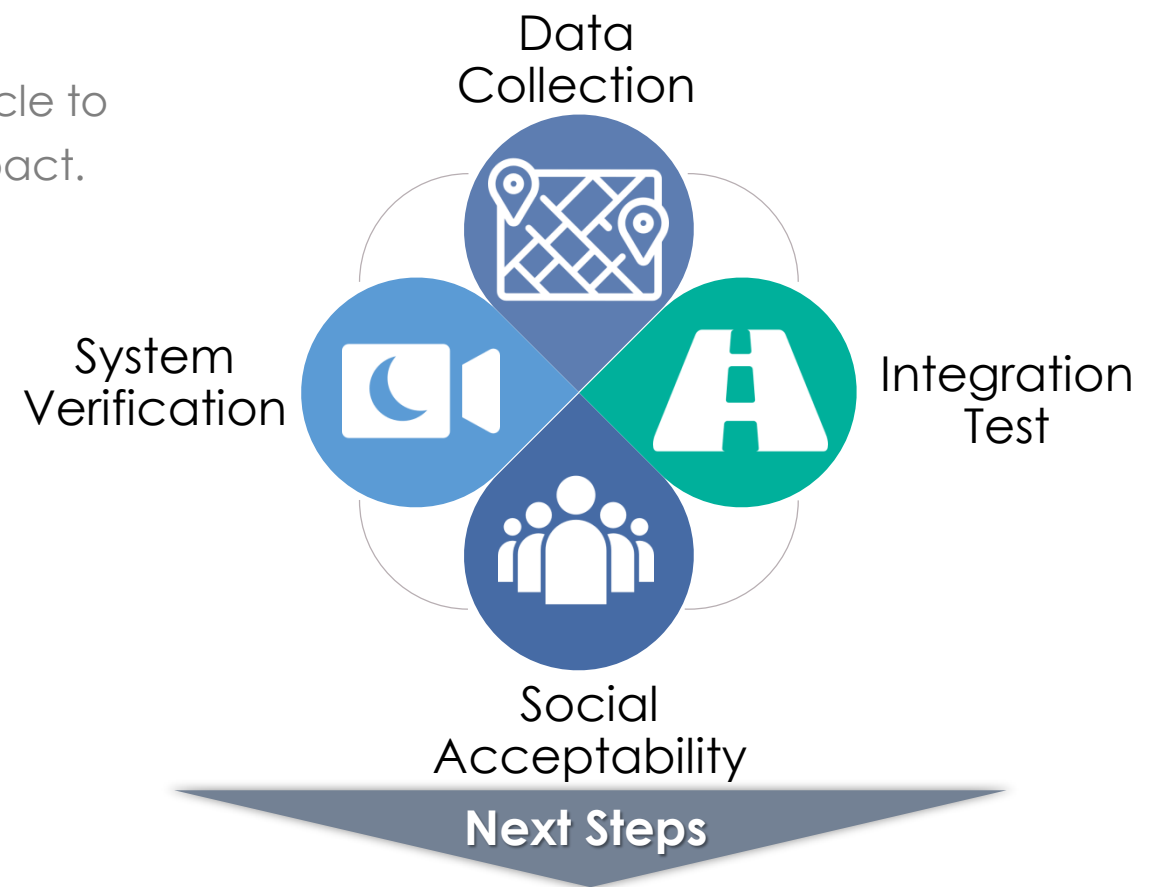
Equipment

- External cameras scan the side and rear blind zone at the rear of the vehicle.
- Inside windshield rearview mirror : camera
- Left and right sides of windshield : LCD screen for pedestrian and cyclist blind zone warning
- Driver's seat: visual warning
- GPS

First Autonomous Bus Road Test

The EZ10 Autonomous Bus Tested on the Xinyi Road bus lane

- International consortium of companies
- The EZ10 is outfitted with six LiDAR sensors, allowing the vehicle to detect distance using its laser system, thereby avoiding impact.



- Technical Experiments (V2V, V2I)
- Regulatory Adjustment
- Public Service

Autonomous Bus on Xinyi Bus Lane

1st Stage : Preparation (2020.02-04)

- Build High Resolution Map
- Set up Smart Intersection
- Safety Notice
- Charging Station and Operation Center



3rd Stage: Operating Service (2020.09-2021.02)

- Based on result of road test(2nd Stage), operate the service in midnight for citizen to experience self-driving shuttles gradually.



Vehicle length: 4 meters
Passenger capacity: 9

Vehicle length: 6 meters
Passenger capacity: 12+22



2nd Stage : Road Test (2020.05-08)

- Road test
- Test different Scenario



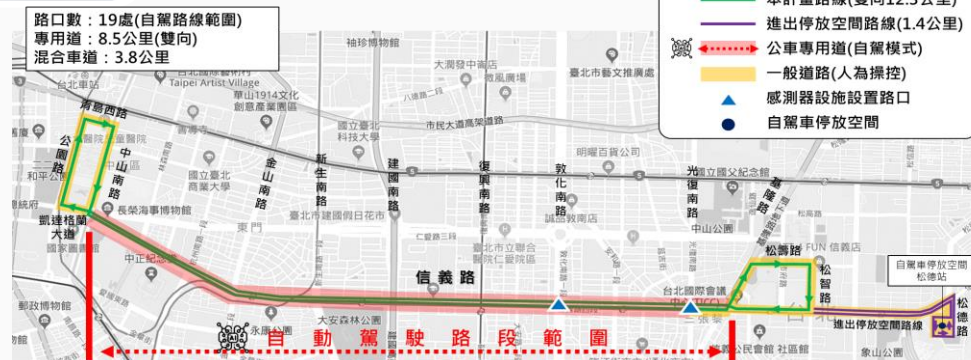
Made in Taiwan

68%

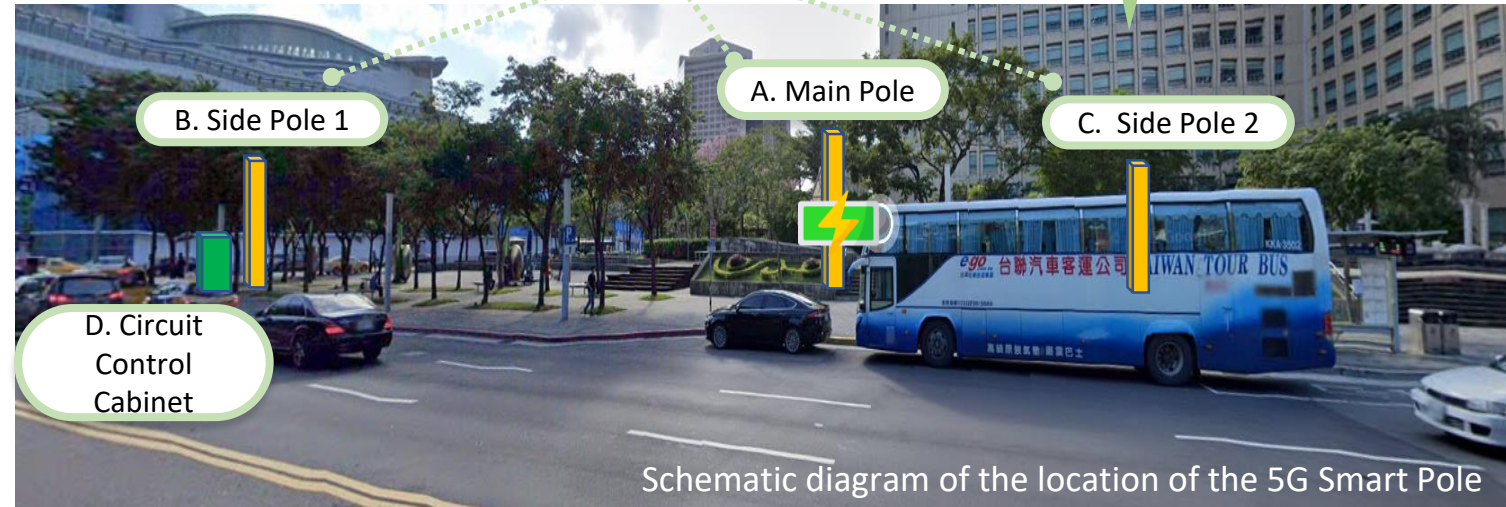
Vehicle

100%

System

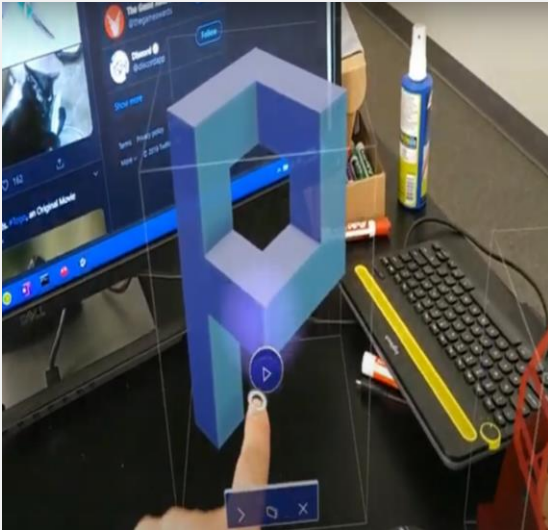


-
- The diagram illustrates the components and application of a 5G Smart Pole. On the left, a vertical pole is shown with various sensors and antennas. A green '5G' logo with signal waves is positioned above the pole. To the left of the pole, a blue box contains the text '5G Smart Pole Functional Verification'. Below this, several light blue boxes list the functions: 'Traffic Detection', 'Env. Monitoring', 'Smart Lighting', 'Charging Station', and 'Digital Signage'. On the right, a map of Taipei City Hall (East Gate) area is shown. A green callout bubble labeled 'P.O.C. Field' points to a specific location on the map, indicating the field of coverage for the 5G Smart Pole. The map includes labels for 'Taipei City Hall (East Gate)', '松智路', and '松壽路'.

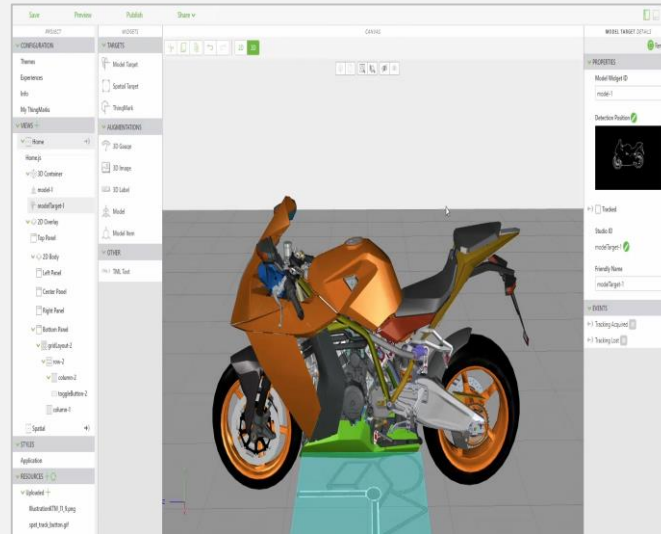


- With the theme of remote teaching applications, provide remote collaborative applications and Mixed Reality teaching materials.
- Teachers can record their operations steps through wearing aids, and apply a large number of sensors to recognize gestures, voice, eyes-moving and other information to enhance the efficiency of teaching and learning in remote locations.

1. Recording Tutorial



2. MR Tutorial editing platform



3. MR Tutorial Shared Platform

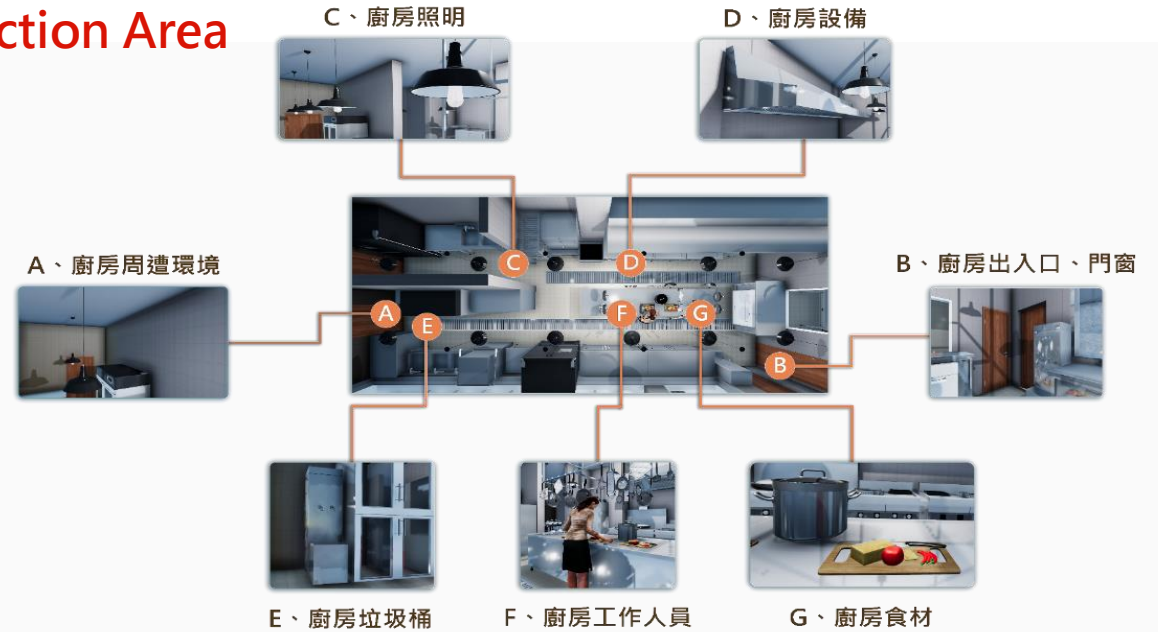


4. Remote collaboration



- Use innovative VR (virtual reality) technology, design background statistics system, record the training results of students, collect all data analysis for training units to enhance training, improve the consistency and quality of sanitation inspection.
- With the completed data analysis system, it helps the students to modify the mistake, at the same time, also facilitates owner to realize the importance and impact of the inspection.

Inspection Area



VR Operation Diagram

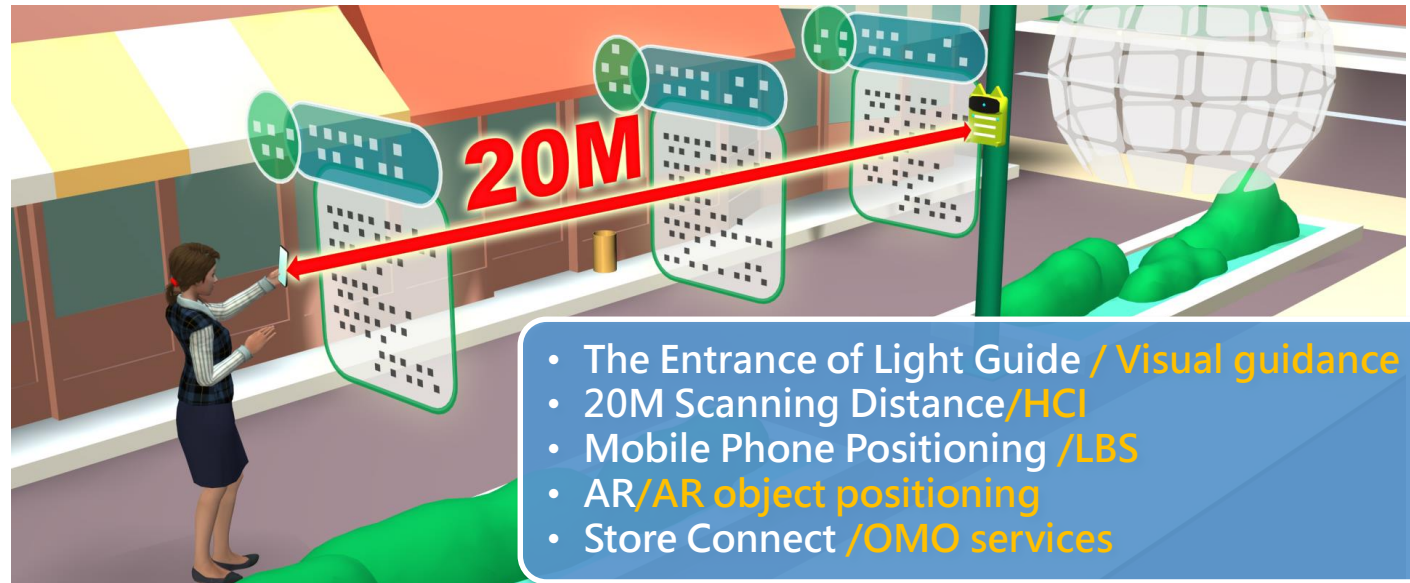


Background Results Query System

衛生局稽查智慧實境教育訓練 後台成績查詢系統		
稽查場域	稽查項目	答錯率
B、廚房出入口、門窗	門窗、通風口	30%
C、廚房照明	照明亮度及顏色	20%
D、廚房設備	排氣管及油煙	21%
A、廚房周遭環境	牆壁、支柱、天花板	12%
F、廚房工作人員	穿著、整潔	10%
A、廚房周遭環境	地面及排水蓋	5%
G、廚房食材	是否妥善冷藏	3%
E、廚房垃圾桶	廢棄物及垃圾桶	0%

Smart Store Technology Import Induction Project — Ximen Commercial District

- Solving the challenges of digital divide of the traditional industry by introducing online and offline integrated services (OMO), assisting stores to connect in the city smart store programs which boost the trading volume and enhance customer satisfaction.
- Creating a functional and entertaining commercial and marketing space by OMO where virtual currency is available and e-promotion is heavily conducted.



Share Experiences & Take Actions

Let's Work together

UK: Peterborough, Greenwich, Milton Keynes
Netherlands: Eindhoven, Amsterdam, Utrecht, Almere
Spain: Barcelona, Madrid
Austria: Vienna
Finland: Tampere
France: Paris
Bulgaria: Sofia
Armenia: Yerevan
Germany: Berlin
Poland: Warsaw
Belgium: Brussels
Turkey: Istanbul, Ankara

Czech Republic:
Liberec, Prague
Slovakia
Greece: Trikala
Croatia

USA: NYC, Kansas City,
Boston, Phoenix
Canada: Edmonton,
Montréal, Québec

Korea: Seoul, Daegu, Busan
Japan: Kobe, Kyoto, Fukuoka
Malaysia: Selangor
India: New Delhi
UAE: Dubai
Singapore
Russia: Ulyanovsk, Moscow

Australia:
NSW
Queensland
Toowoomba

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Initiated and Established GO SMART



Organization Chart



Chair (2021-2023)

WEN-JE KO
Mayor of Taipei City

Strategy Committee



Secretariat

CHEN-YU LEE
Secretary-General



213

(as of January, 2022)

108



Industry Member

94



City Member

10



NPO Member

1



Honorary Member



Charles Reed Anderson

Hold GS Annual Assembly and GS AWARD



2019 GSA

46 Submissions / **12** Finalists

Organization	Project
Milton Keynes	UK Autodrive in Partnership with Coventry and the Motor Industry.
Tainan	The System of Road Excavation Management.
Taipei	A.I. cameras impacting urban design in Amsterdam and Taipei.



2020 GSA

37 Submissions / **12** Finalists

Organization	Project
Lidbot	The World's Smartest and Smallest Waste/Recycling IOT Sensor.
MiTAC	Joint Development Project Plan on Mosquito Management with Redland City.
New Taipei	An AIoT and Blockchain Application in Municipal Health Services.
Taichung	Road side parking spaces real-time information service.



2021 GSA

46 Submissions / **13** Finalists

Organization	Project
City of Amsterdam	Object Detection Kit
Transportation Department of Taipei City	Assist the visually impaired passengers to take bus smoothly with IoT
Kaohsiung Municipal Kai-Syuan Psychiatric Hospital	De-identification real-time psychiatric patient safety monitoring and prediction system (iSAFE)





臺北市政府資訊局
Department of Information Technology,
Taipei City Government

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