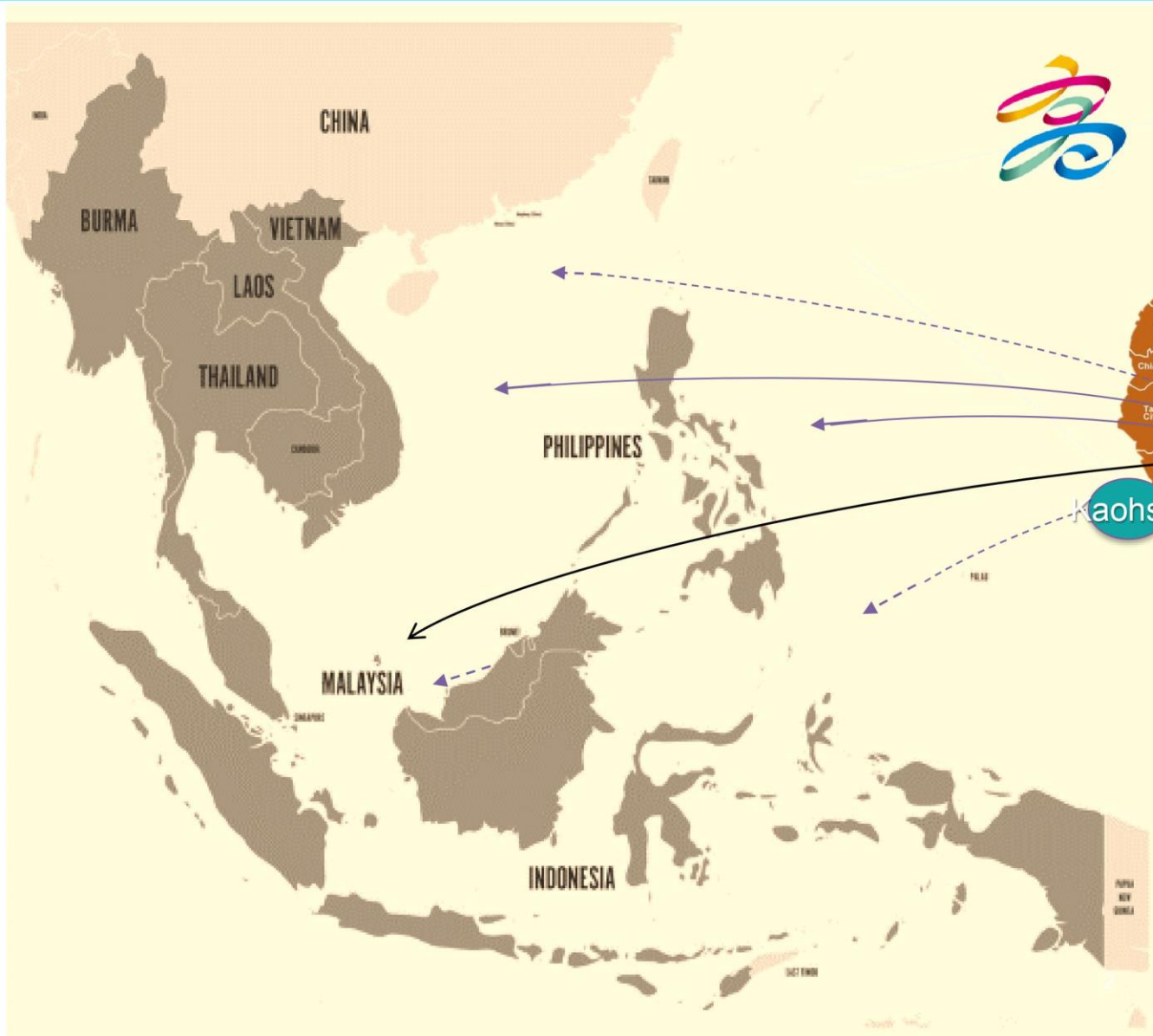


Kaohsiung Smart City Development Vision



Charles Lin
Deputy Mayor
Kaohsiung City, Taiwan

Kaohsiung at a Glance



Population:
2.77 Million

Area:
2,952 km²

Major Industries:



-  **Manufacturing (Petrochemical, Steel & Metal, and other heavy industries)**
-  **Advanced Technology**
-  **Service Industry**
-  **Agriculture and Fishery**

Kaohsiung's advantages in developing a smart city

Diversified geography and industry

Suitable for experiment and realization field of various innovative applications

Asia New Bay Area

The largest 5G AIoT innovation test field in Taiwan, an important location to attract corporate investment

Qiaotou Science Park

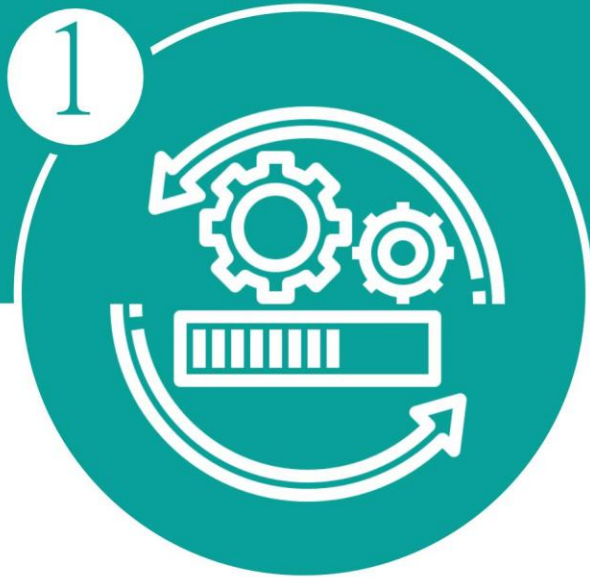
Link Southern Taiwan Science Park and Luzhu Science Park to form a southern science and technology corridor

International Sea and Air Port

Smart products and services can be exported quickly and efficiently



Digital Industry/Smart City



System Integration, Industry Transformation

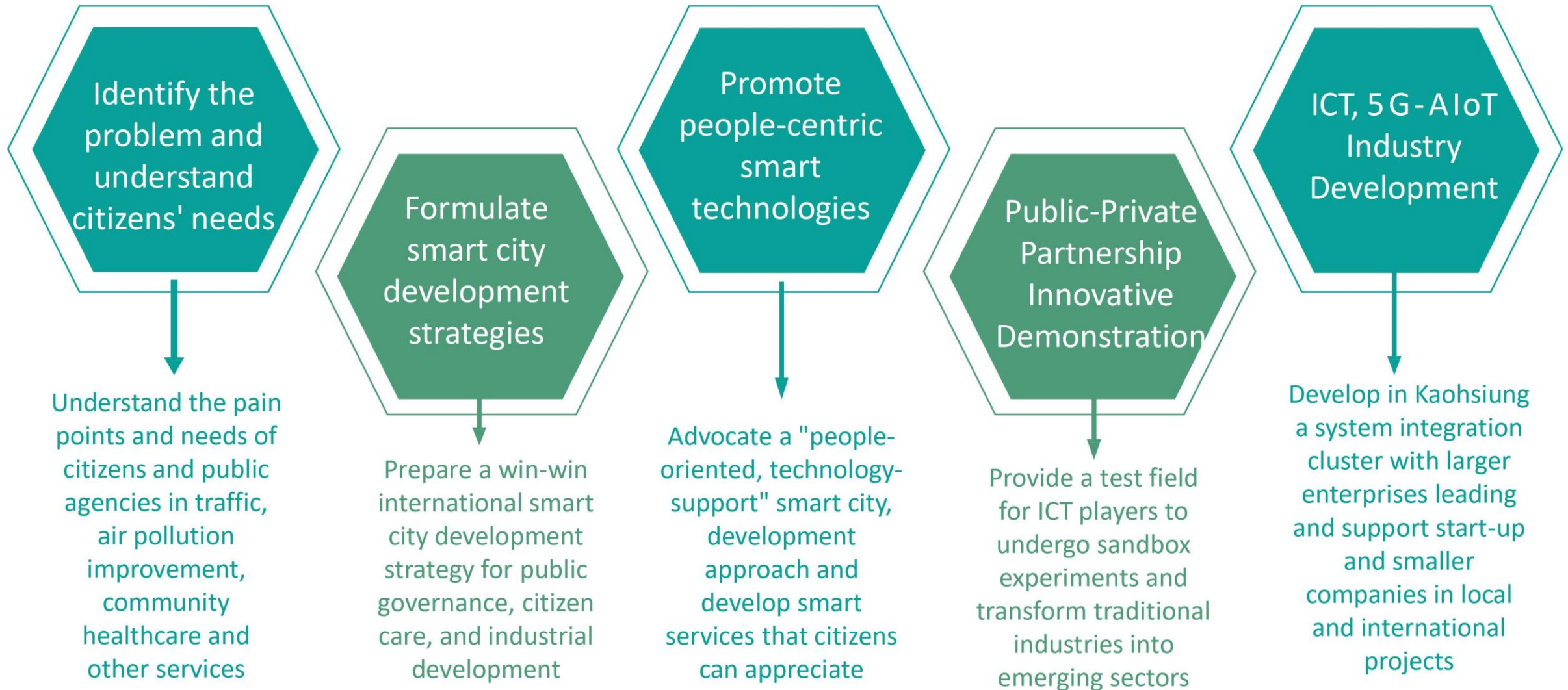


Smart city in line with international standards



Serve as the New Southbound Tech Hub

Promotion Phases



Action Plans



Case 1: Smart Transportation

Introduction of multi-target tracking radar devices, CMS warning boards and a deep learning platform, along with an artificial intelligence event assessment system, allow the city to deploy active motorcycle speeding warning, analysis of mixed traffic flows, and potential clash warning caused by violations of four-wheelers in fast lanes. And other functions, implement experiment planning, field deployment and experiment.



Case 2: MaaS (Mobility as a Service)




1 Journey planning

Enter the starting and ending points to automatically plan the route, making travel easier

2 Realtime information

Integrate multiple transportation systems

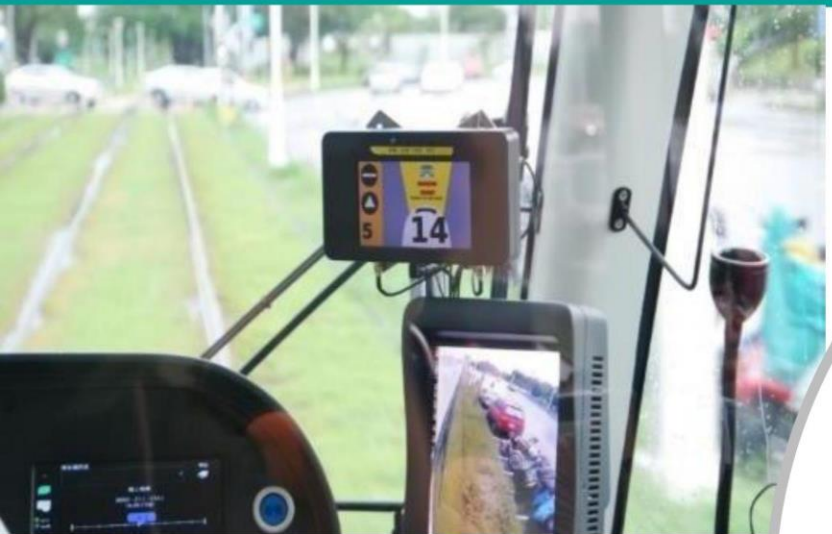


3 EC Payment

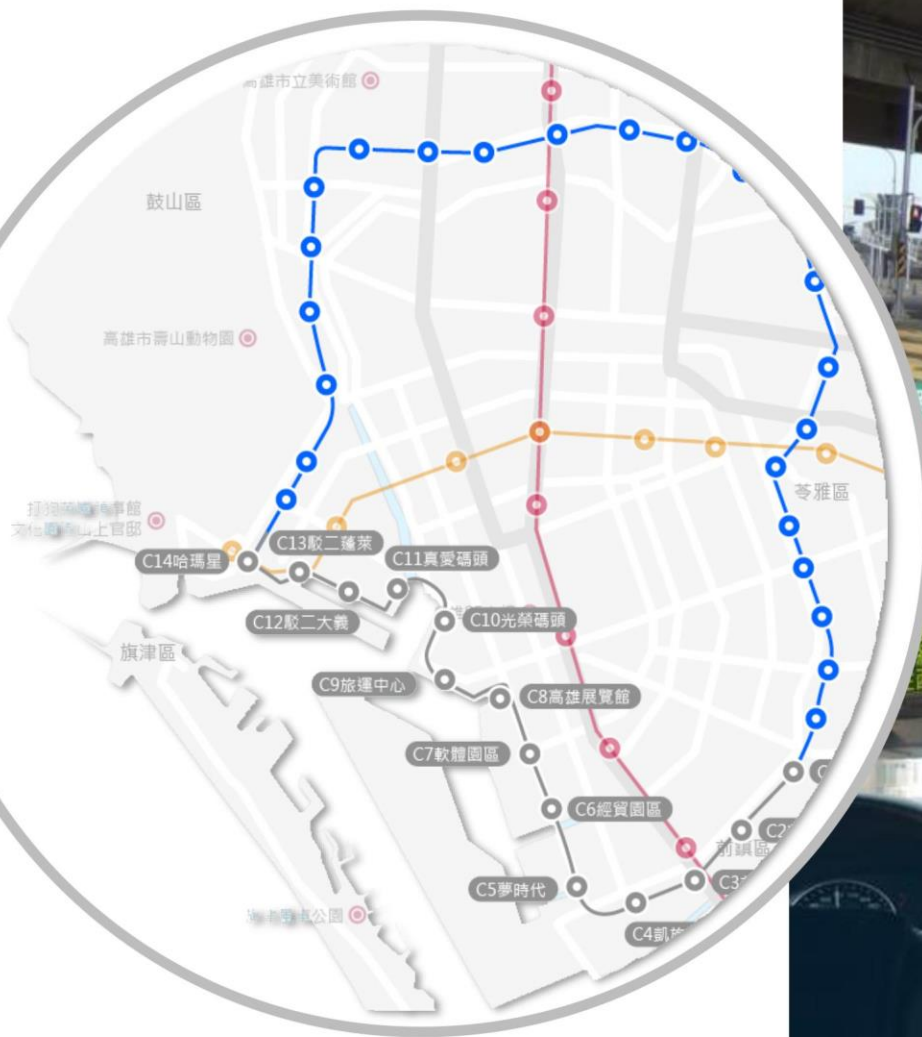
Easy access to online payment information



Case 3: Smart Light Rail



Light rail train's anti-collision system

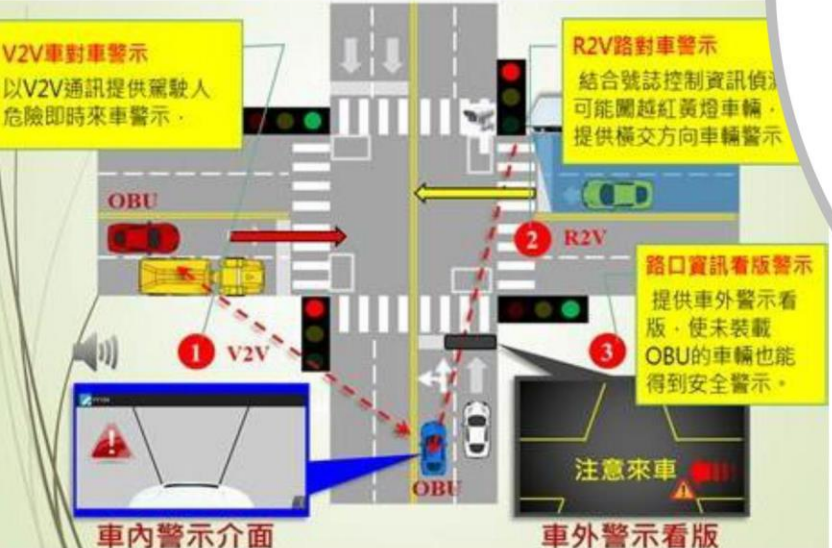


Source: THI



路口安全警示系統
橫向道路進入清道時間，機車搶黃燈通行的碰撞警示

V2V anti-collision system



V2X Applications



Real-time traffic information



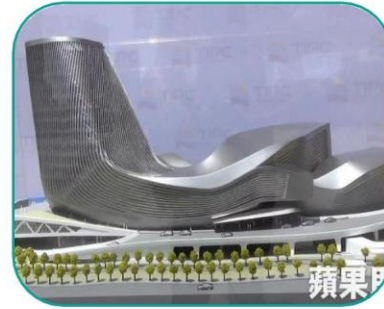
Smart Harbor:

- Establish a central monitoring center to detect driving fatigue and initiate vehicles remote control via 5G
- Operation Area from National Highway 7 to the container center of the port
- C-ITS collaborative smart transportation services



Automatous driving ship:

- Extended from the “Love River” to Kaohsiung Port



Smart Tourism:

- Collect passenger information
- Provide diversified transportation information & integration services
- The best combination of travel and smart transport suggestions

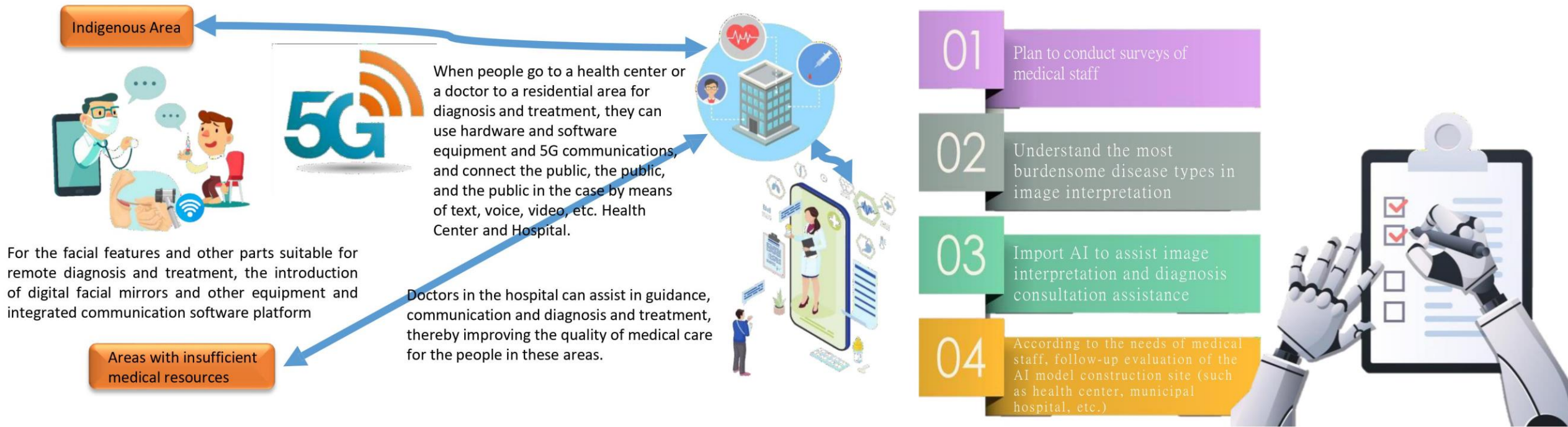


Drone:

- Traffic monitoring in key areas
- Cargo transport in the area
- The area can serve as a competition arena for new applications

Case 5: Smart Healthcare

Indigenous peoples and rural areas are in general lack of sufficient number of medical institutions and medical resources. It is planned to introduce equipment such as digital octopus and an integrated communication software platform, and use 5G to connect patients, healthcare centers, and hospitals through text, voice, and real-time video. So that hospital physicians can assist in guidance, diagnosis and treatment, and improve the quality of citizens' medical care.



Case 6: Smart Long-term Care

Long-term care transportation includes general-purpose taxis, rehabilitation buses, and designated vehicles. At present, each has its own dispatch method, service and management models. Different vehicles have different payload efficiency. The city hopes to integrate different transportation models in order to provide the needed citizens with the best delivery service.



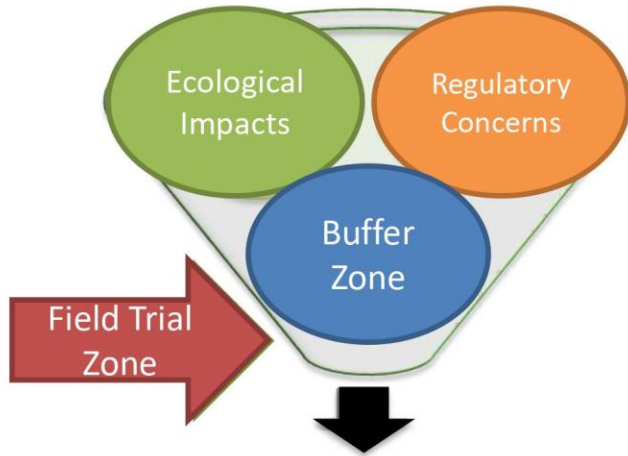
With assistance from IT experts to redesign and deploy long-term care transportation cloud service system

Confirm the cloud service system and service parameters based on the current situation and needs of long-term care transportation services in Kaohsiung City

Through the cloud service system, complete long-term case transportation service demand analysis, and design the city's long-term care service model that meet user needs

Fishery and Electricity Symbiosis

Kaohsiung City marine ponds
4,010 hectares



**622 hectares
approx. 15%**

Farming-oriented Green Energy Solutions



Electricity
supplier



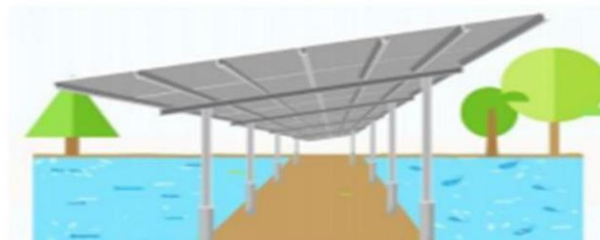
Landowner



Farmers



Fish-Electricity Symbiosis PMO
Kaohsiung City
One-stop services



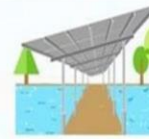
Fishery and Electricity Symbiosis's advantages for fishery development



Rental income
increases for
landlords



Reduce
fishermen's
total costs



Transform
farming area



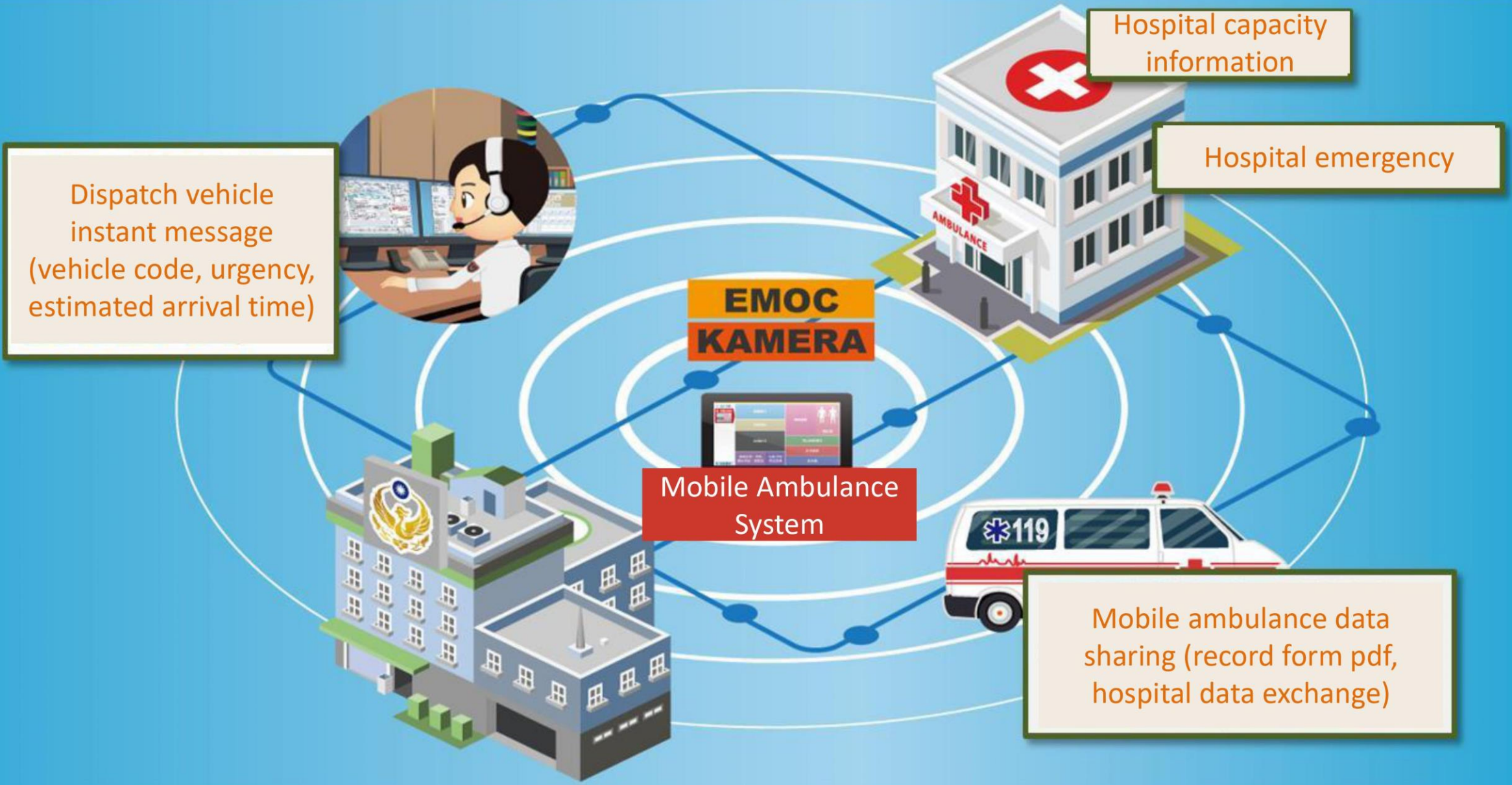
Deploy
smart
fishery
resources



Upgrade
traditional
fishery
Industry



Case 8. Smart Rescue



5G-AIoT Development Strategies



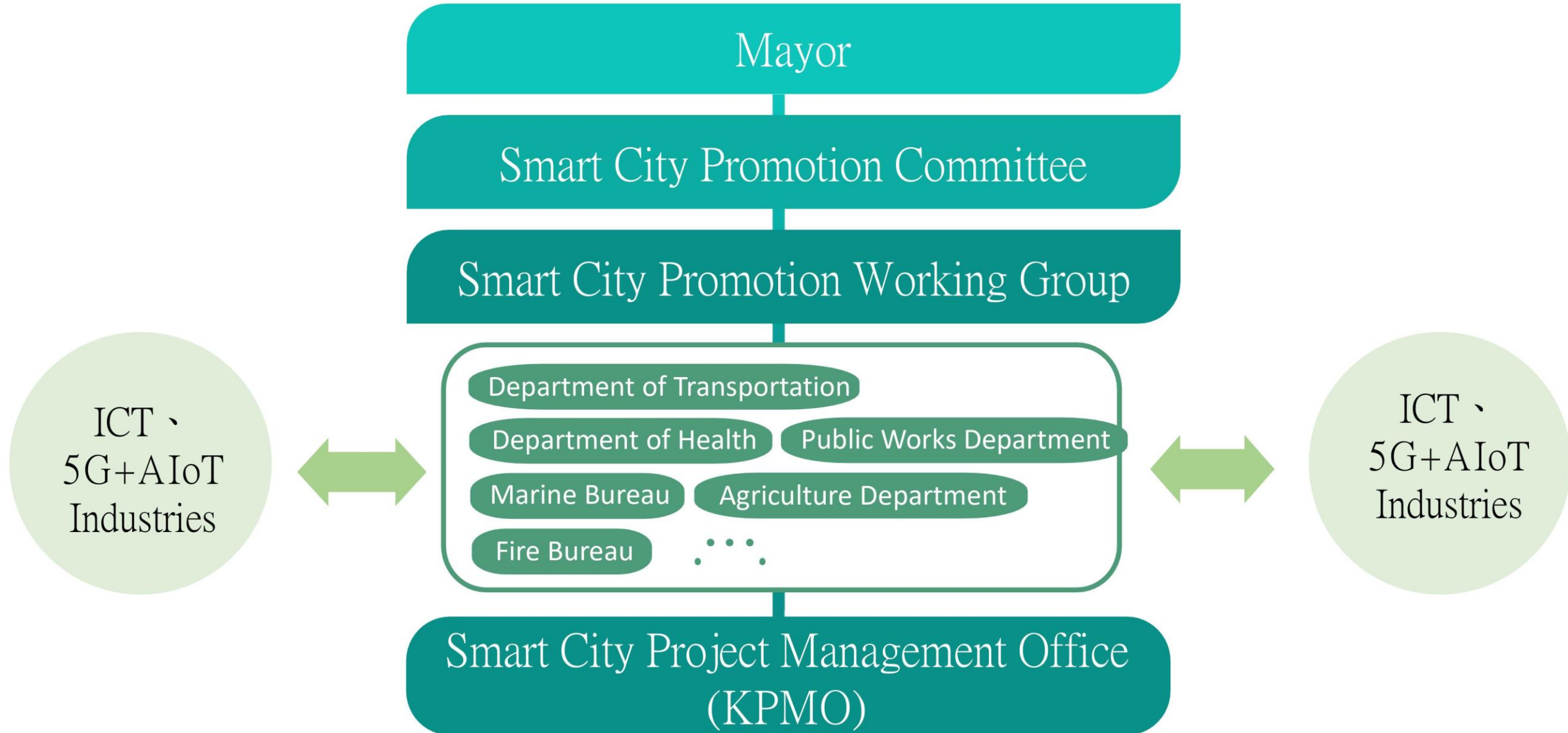
Strategy 1

The "Kaohsiung Smart City Promotion Committee" has been established on December 25, 2020, inviting elites of related fields serve as member to provide recommendations to help promote development of Kaohsiung's smart city



Strategy 2

Kaohsiung plans to invest 350 million USD in the next 5 years to develop Asia New Bay Area into an advance 5G-AIoT smart city demonstration zone, establishing an international-class ecosystem to attract 5G and AIoT companies, accelerate local industry transformation and create new jobs



Jointly promote Government's New Southbound Initiative



Kaohsiung is well-positioned as Taiwan's Tech Hub for Smart City International Collaboration with New Southbound Countries

Smart Kaohsiung, Asia New Bay Area Tech Hub

