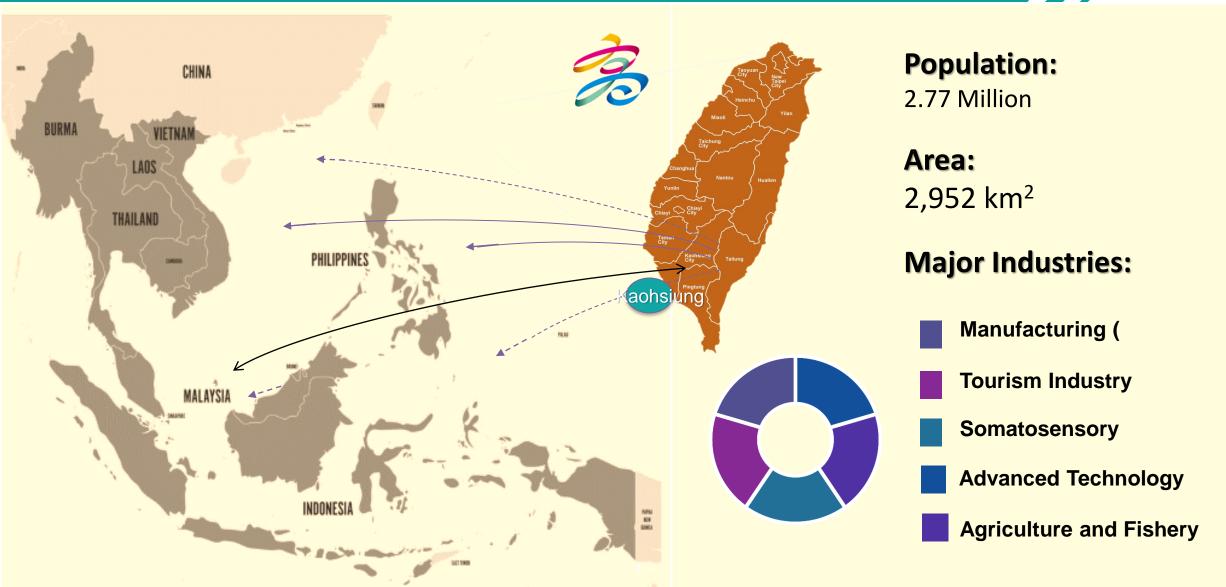


Kaohsiung at a Glance





Kaohsiung's advantages in developing a



Diversified geography and industry

Suitable for experiment and realization field of various innovative applications

Asia New Bay Area

The largest 5G AloT 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



System Integration, Industry Transformation



Smart city in line with international standards



Serve as the New Southbound Tech Hub

Promotion Phases



Identify the problem and understand citizens' needs

Understand the pain points and needs of citizens and public agencies in traffic, air pollution improvement, community healthcare and other services

Formulate smart city development strategies

Prepare a win-win international smart city development strategy for public governance, citizen care, and industrial development

Promote people-centric smart technologies

Advocate a "peopleoriented, technologysupport" smart city,
development
approach and
develop smart
services that citizens
can appreciate

Public-Private
Partnership
Innovative
Demonstration

Provide a test field for ICT players to undergo sandbox experiments and transform traditional industries into emerging sectors ICT, 5 G - A IoT Industry Development

Develop in Kaohsiung
a system integration
cluster with larger
enterprises leading
and support start-up
and smaller
companies in local
and international
projects

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.



Source: III

Case 2: MaaS (Mobility as a Service)





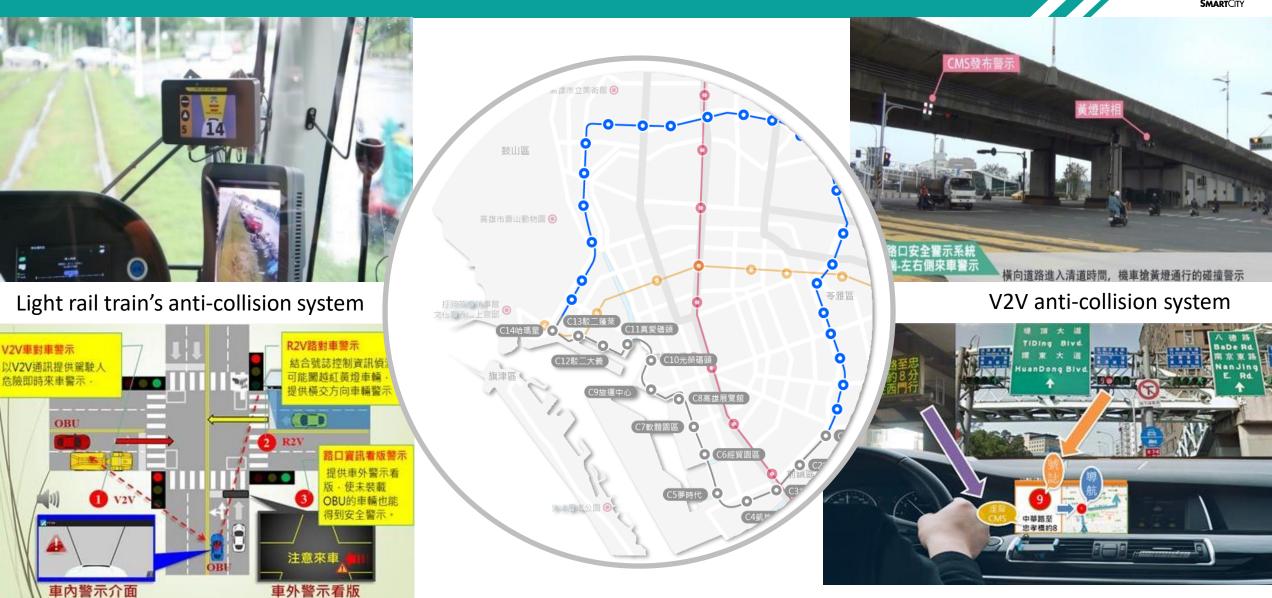






Case 3: Smart Light Rail





V2X Applications

Source: THI

Real-time traffic information

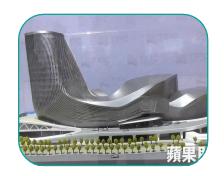
Case 4: Harbor and New Asia Bay Area Applications





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



Smart Tourism:

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



Automatous driving ship:

 Extended from the "Love River" to Kaohsiung Port



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 longterm 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

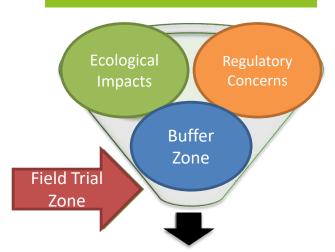
Case 7: Smart Green Energy



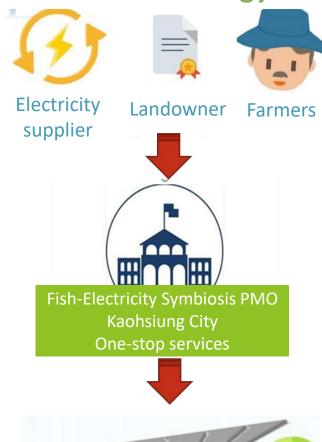
Fishery and Electricity Symbiosis

Farming-oriented
Green Energy Solutions

Kaohsiung City marine ponds 4,010 hectares



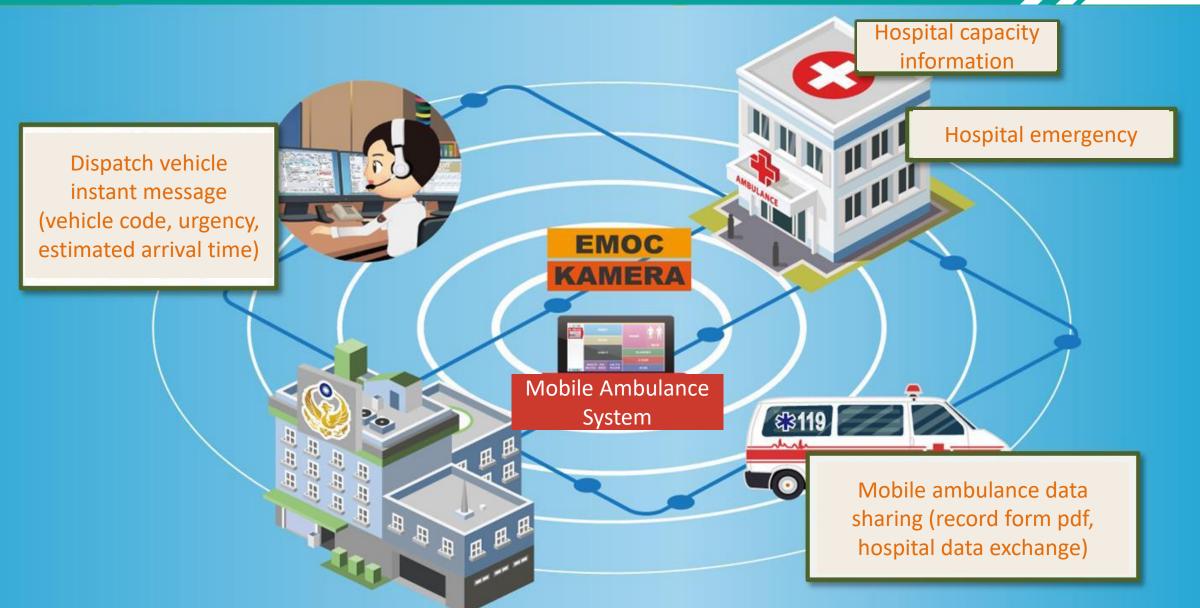
622 hectares approx. 15%





Case 8. Smart Rescue



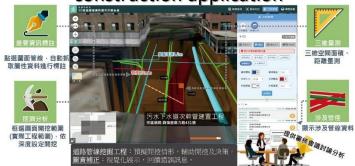


Case 9: Underground 3D pipeline integrated monitor system



With ground-penetrating radars, 3D non-destructive detection methods are used to supplement the existing pipeline 3D map data, and the Kaohsiung City 3D facility pipeline data display system can be used for AR-support construction, road pipe excavation construction support, and underground pipeline conflict management applications.

3D pipeline map AR auxiliary construction application







Road construction 3D auxiliary system



3D underground pipeline conflict management and application



5G-AloT 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

Public-Private Partnership





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

