



Connected
Living

Taipei: “A Smart City for All”

Chunghwa Telecom Initiates 4G + Location Tracking Beacons + Specially Designed Apps for the Visually Impaired, the Physically Challenged and the Elderly

Why The Smart City for All Project

“A Smart City for All” is a project that Chunghwa Telecom launched in 2015 with the goal to build a more accessible city for the citizens of Taiwan. Administered by the Taiwanese Industrial Development Bureau and the Ministry of Economic Affairs, Chunghwa Telecom worked together with the Institute for Information Industry, Tamkang University, and Our Love City enterprise to develop innovative solutions which aim to return independence to the visually impaired, the physically challenged and the elderly in the society.

The hidden need

5% of people in Taiwan have disability cards and 60,000 of them are the visually impaired. People with disabilities will not go out if they don't feel assured enough, leading to health and welfare issues.



中華電信
Chunghwa Telecom

About The Smart City for All Project

To return independence to the elderly and disabled, this project today addresses the visually impaired, while at the same time, applications for the elderly and the physically challenged are also under development.

The pain points for the visually impaired come from the very basic things in daily lives such as eating, shopping, travel and so on. And this project tackles the fundamentals by providing direction guidance, notifying of dangers on the route and vicinity information such as identifying nearby shops and their promotions. This allows a more holistic mind map to be built for visually impaired people. One of the biggest problems for the visually impaired in restaurants – knowing the menu and prices – is solved by the personal steward feature. The menu can be read out from plate to plate with description, ingredients and prices.

The solution

Chungwha Telecoms nationwide LTE service, combined with the the management platform and beacon-based micro location tracking enables our specially designed application, i4Blind. The app is more than merely a direction guidance tool, it can also notify of dangers on the spot, and the content is continually updated, providing information about the shops nearby and their promotions to help the visually impaired with their daily lives. Crossing roads in bustling cities is never a safe thing while often the guiding sounds from the traffic lights could be either confusing or be drowned out by the surrounding noises. With the functionality provided by help you see video streaming assistance, real time direction and safety guidance is greatly enhanced. Volunteers can also be connected to the system and help users in object recognition and picking out clothes.



i4BLIND



GOAL



INCREASE THE OUTDOOR SAFETY
PROVIDE SUFFICIENT VICINITY INFORMATION
REBUILD INDEPENDENCE!

LOCATION



TAIPEI AND NEW TAIPEI CITY

VICINITY GUIDE



EASY TO USE
DIRECTION GUIDE

HELP YOU SEE



VOLUNTEER HELP
OBJECT RECOGNITION

SAFETY GUIDE



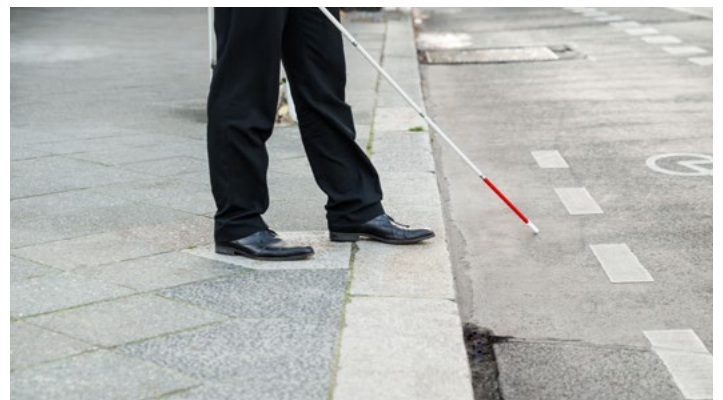
LOCATION TRACKING-PRECISE
DANGER/CORNER NOTIFICATION



The future prospect

So far, a highway station and two streets have been built in Taipei and New Taipei city. The service is expanding to the university campus, 9 metro stations, a high speed train station, and a museum.

Chunghwa Telecom believes the smart city for all project will be able to help more elderly and disabled people in Taiwan to have a better, more independent life.





Connected Living

The GSMA is working with mobile operators, governments and city councils to agree a common approach to smart city solutions that will deliver real, long-term benefits to businesses and citizens.

For more information visit the website: **www.gsma.com/smartcities**
or contact: **smartcities@gsma.com**

