



# Private IoT Covid-19 Exposure Notification 穿戴式病毒接觸 隱密通知



**Gary Chan**  
Director, Entrepreneurship Center  
Professor, Computer Science &  
Engineering  
HKUST

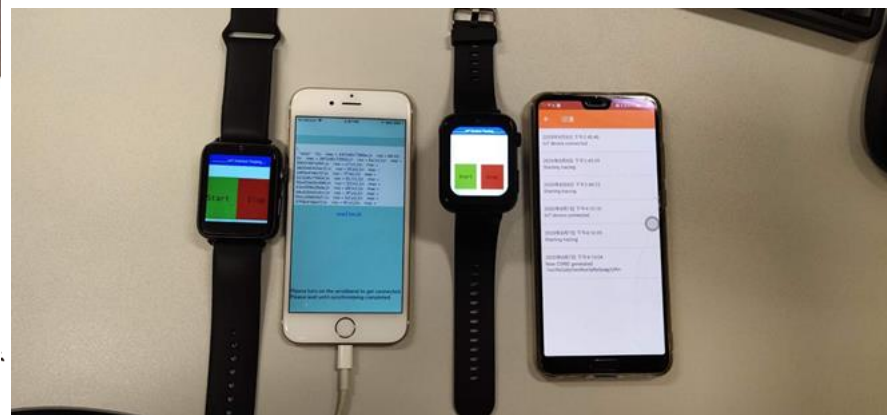


賽馬會耆智園  
Jockey Club Centre for Positive Ageing



# Private IoT Covid-19 Exposure Notification 穿戴式病毒接觸隱密通知

- Elderly is the high risk group of Covid-19
- Portable (便攜), transparent, simple to use and private







# Promoting a Caring Community for Dementia Anti-wandering

In collaboration with JCCPA and SJS



**Gary Chan**  
Director, Entrepreneurship Center  
Professor, Computer Science &  
Engineering  
HKUST



賽馬會耆智園  
Jockey Club Centre for Positive Ageing





# How to Find a Wandering Dementia, as Soon as Possible?





# Promoting a Dementia-Friendly Community with an App



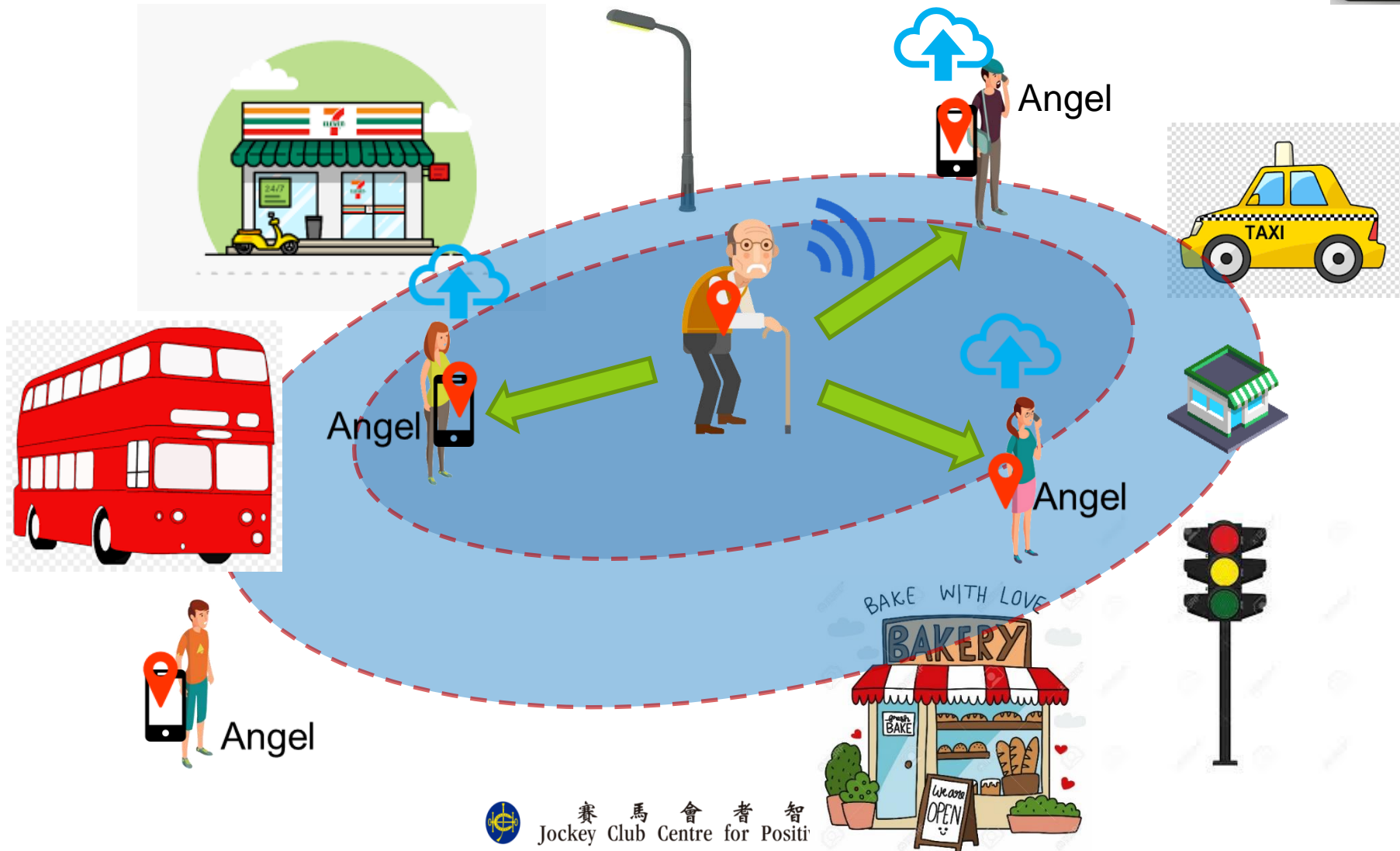
JOCKEY CLUB 賽馬會  
友里蹤跡社區計劃  
CARING COMMUNITIES  
FOR DEMENTIA CAMPAIGN



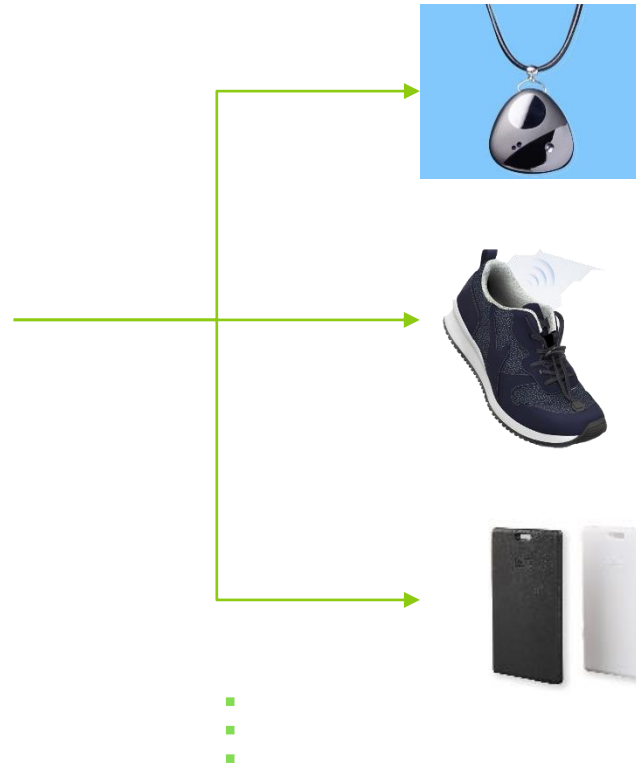
JOCKEY CLUB 賽馬會  
友里蹤跡社區計劃  
CARING COMMUNITIES  
FOR DEMENTIA CAMPAIGN



# Illustration of Our Crowdsourcing Technology



# Miniaturized iBeacon Tags for Dementia People



- Long lifetime (a year or more)
- Light and highly portable (1 inch diameter)
- Low cost (US\$10)
- Work both outdoor and indoor
- Long range (up to 100m)
- Responsive (per minute location)
- Privacy and security



香港科技大學

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY



# My Team







JOCKEY CLUB 賽馬會  
友里蹤跡社區計劃  
CARING COMMUNITIES  
FOR DEMENTIA CAMPAIGN

Thank you!

Q & A ?

[gchan@cse.ust.hk](mailto:gchan@cse.ust.hk)

<http://home.cse.ust.hk/~gchan/>