

GLOBAL INDOOR MAP SaaS PLATFORM

MAKES MAPPING SMART AND SIMPLE

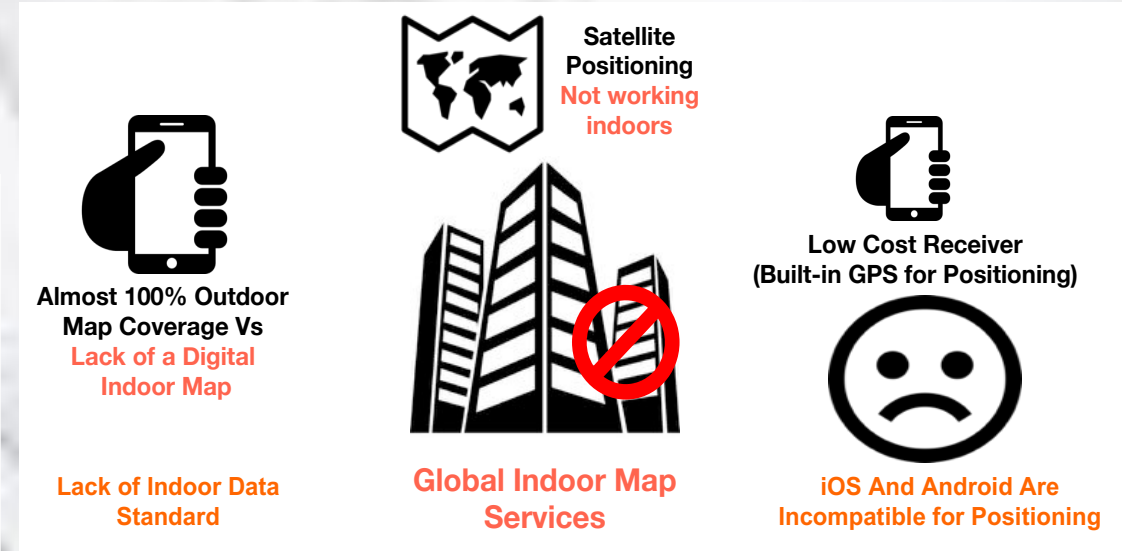


mapxus

DIGITAL INFRASTRUCTURE FOR SMART CITY

Pain

- ❑ Outdoor Maps guide people everywhere. But the hardest things to find are **indoors**
- ❑ Indoor space is not properly digitized. Paper-based floor plans are usually outdated
- ❑ **Heavy manpower** in traditional indoor cartographic process
- ❑ **iOS is Not Totally Open and Google Maps does not support indoor positioning** resulting costly hardware-based indoor positioning solution



SOLUTION **M**APXUS INDOOR MAPPING PLATFORM

Mapxus works with Apple Maps and OGC Standards and Authoritative Standard

Mapxus Indoor Map Schema: **O**pen and **C**ompatible

Compatible with IMDF



IMDF

(Indoor Mapping Data Format)

More specific for Airport, Malls,
Metro Stations

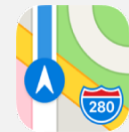
**HK Government Common Spatial
Data Infrastructure**

Public + Private Area Management

One Map for Multiple Applications

- Fire services
- Green building
- Building & facilities management
- Data visualization
- Building progress monitoring
- Virtual tour

**High Quality to Support
Barrier-free Navigation**

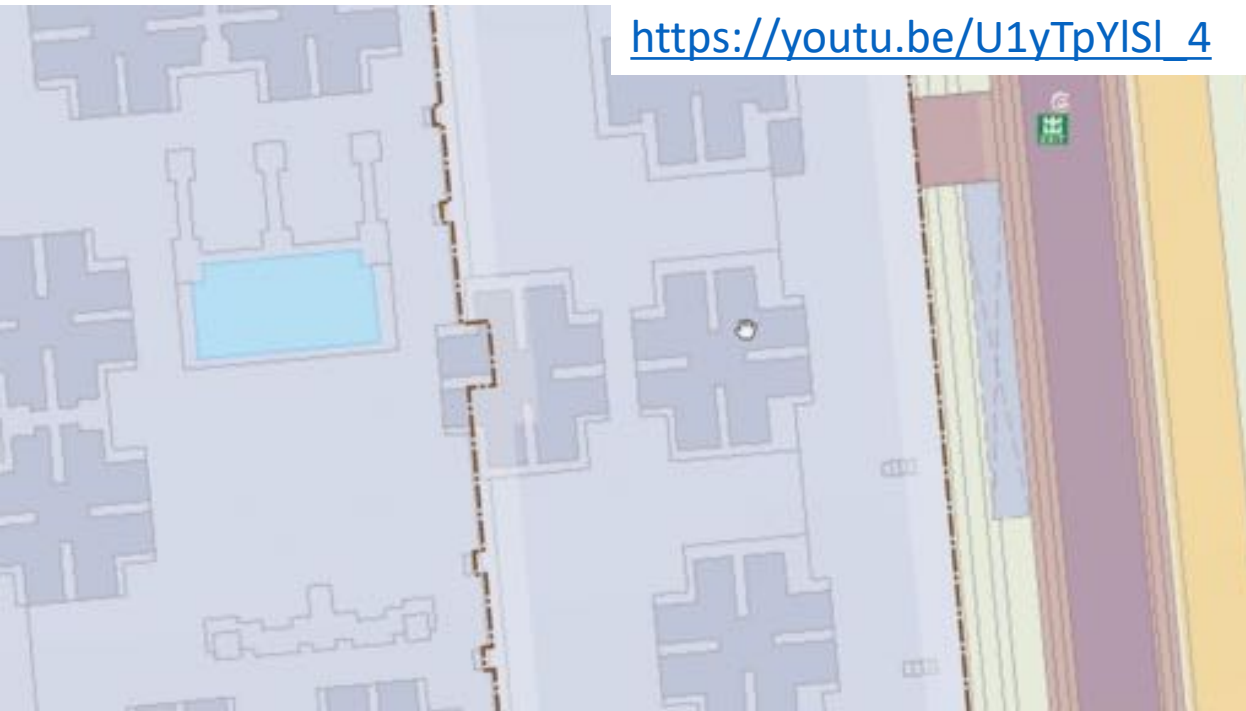


MAP AS A SERVICE

CITY-BASED DATA VISUALIZATION IN A GLOBAL MAP PLATFORM



- ❑ DIGITAL AND VISUAL MAPS ; POSITIONING AND NAVIGATION;
- ❑ OUTDOOR-INDOOR CONNECTION; BUILDING-BUILDING CONNECTION



https://youtu.be/U1yTpYISl_4

Online Map Editor Improves Updating Productivity
(90% cut down in time vs traditional method)



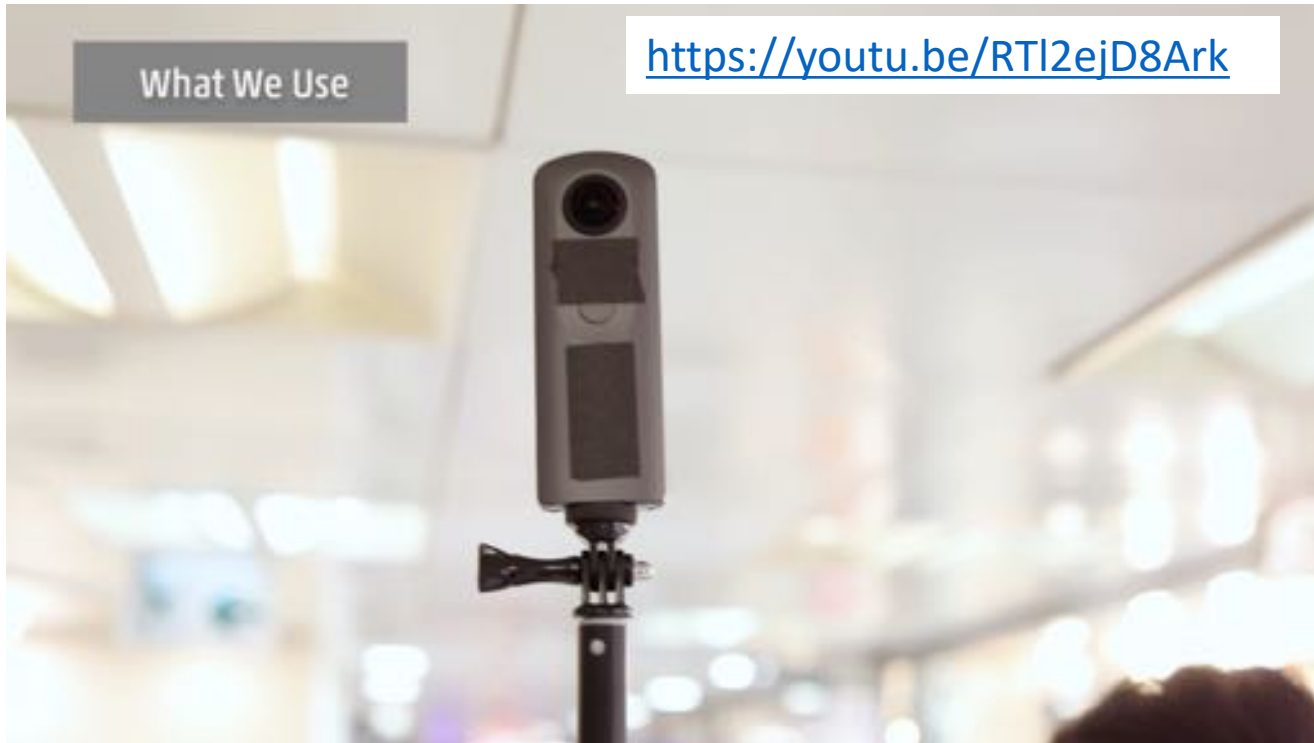
<https://www.youtube.com/watch?v=FIRBdDiXf78>

Digitization in Indoor GIS Platform

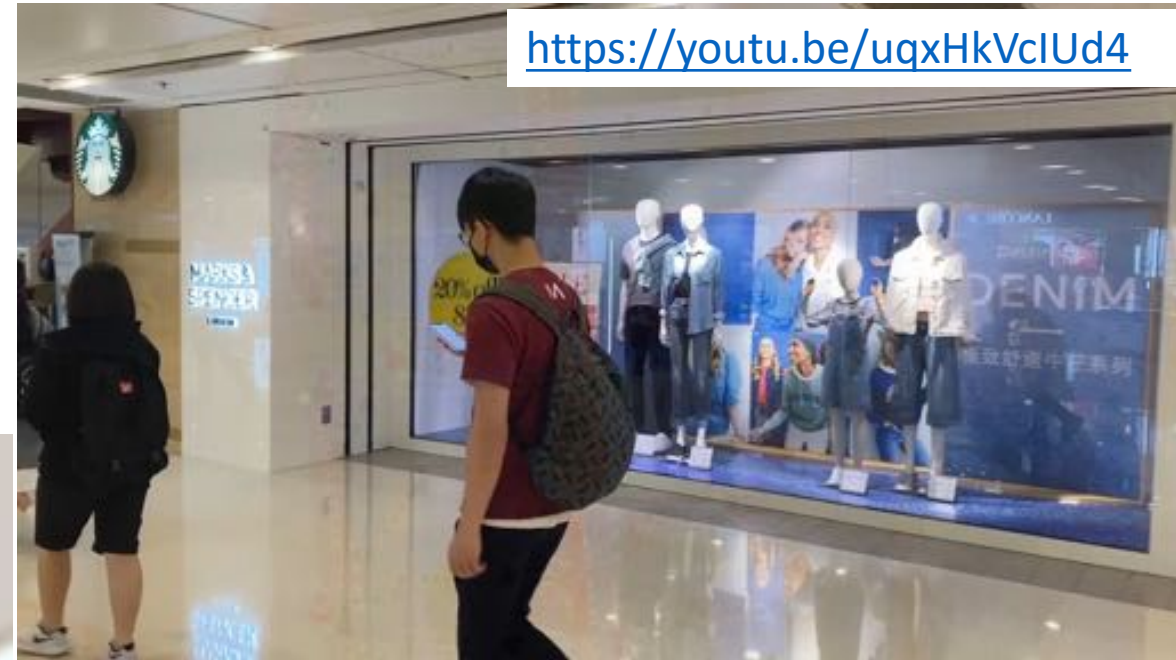
Connects Various OS, GIS And Indoor Models (E. g.
Apple IDF, GeoJson, ArcGIS, BIM)

Field survey for 360° visual map generation

Automatic annotation of visual image in GIS system



<https://youtu.be/RTI2ejD8Ark>



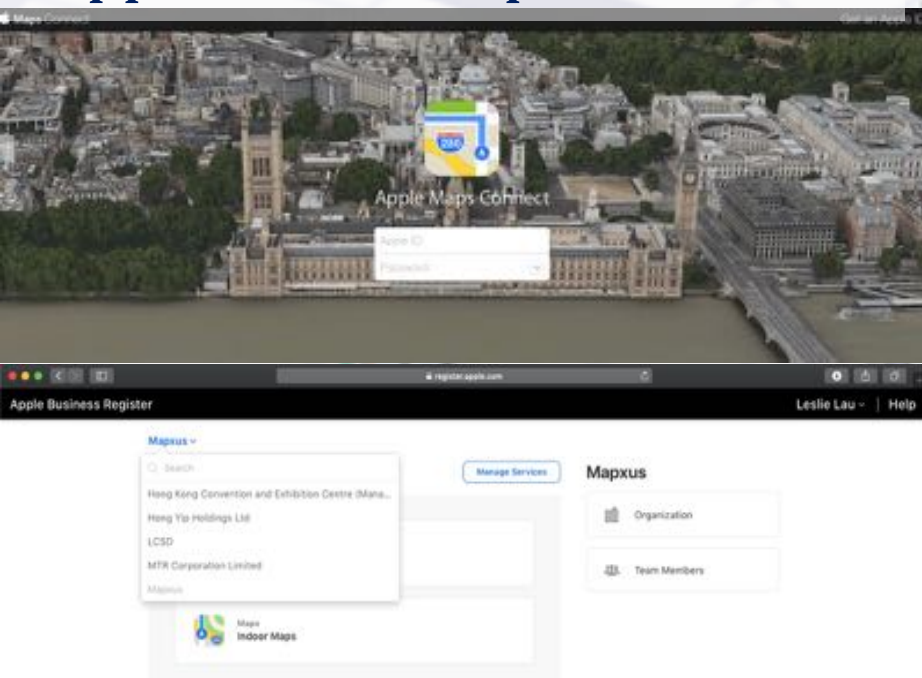
<https://youtu.be/uqxHkVclUd4>

Mobile Application for Onsite Validation

Improved efficiency
(streamline the workflow, no paper, no hard copy
floor plans)

MAPPING SERVICE MAPXUS STUDIO PROFESSIONAL SERVICE

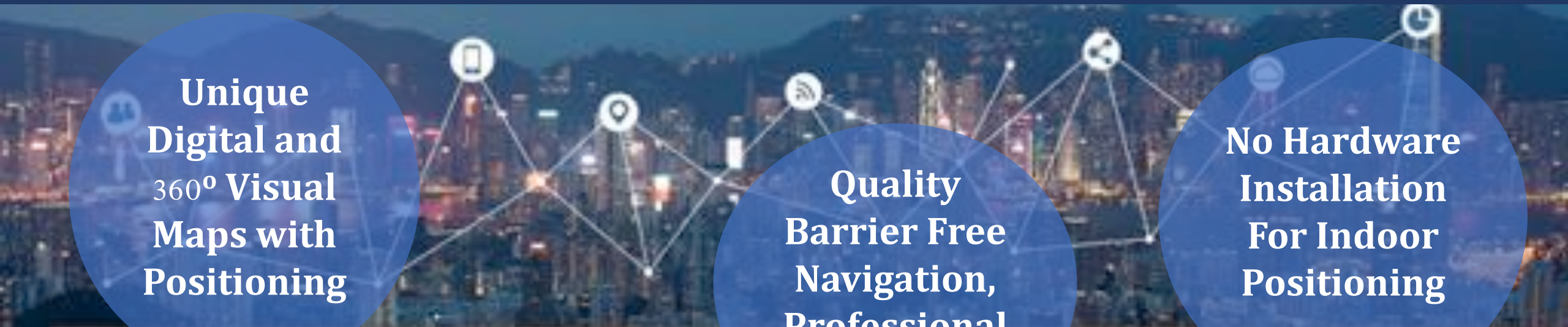
Apple Indoor Map Convection



Customizable Map Styles



MAPXUS Competitive Advantage



**Unique
Digital and
360° Visual
Maps with
Positioning**

**Quality
Barrier Free
Navigation,
Professional
Map**

**No Hardware
Installation
For Indoor
Positioning**



**Save 90%
Cost And
Time**

BUSINESS MODEL – 2B AS AN INFRASTRUCTURE SAAS SERVICE

MAPXUS STUDIO PROFESSIONAL SERVICE



DIGITIZATION AND MAPPING



FIELD SURVEY AND VALIDATION



MAPXUS CLOUD SERVICE



MAP SDK & API SERVICES

PRICING MODEL

- MAPPING AND SURVEYING: CHARGED BY SERVICE AREA SIZE
- CLOUD SERVICE: SUBSCRIPTION IN PUBLIC AND PRIVATE MODE: CHARGED BY NO. OF USERS

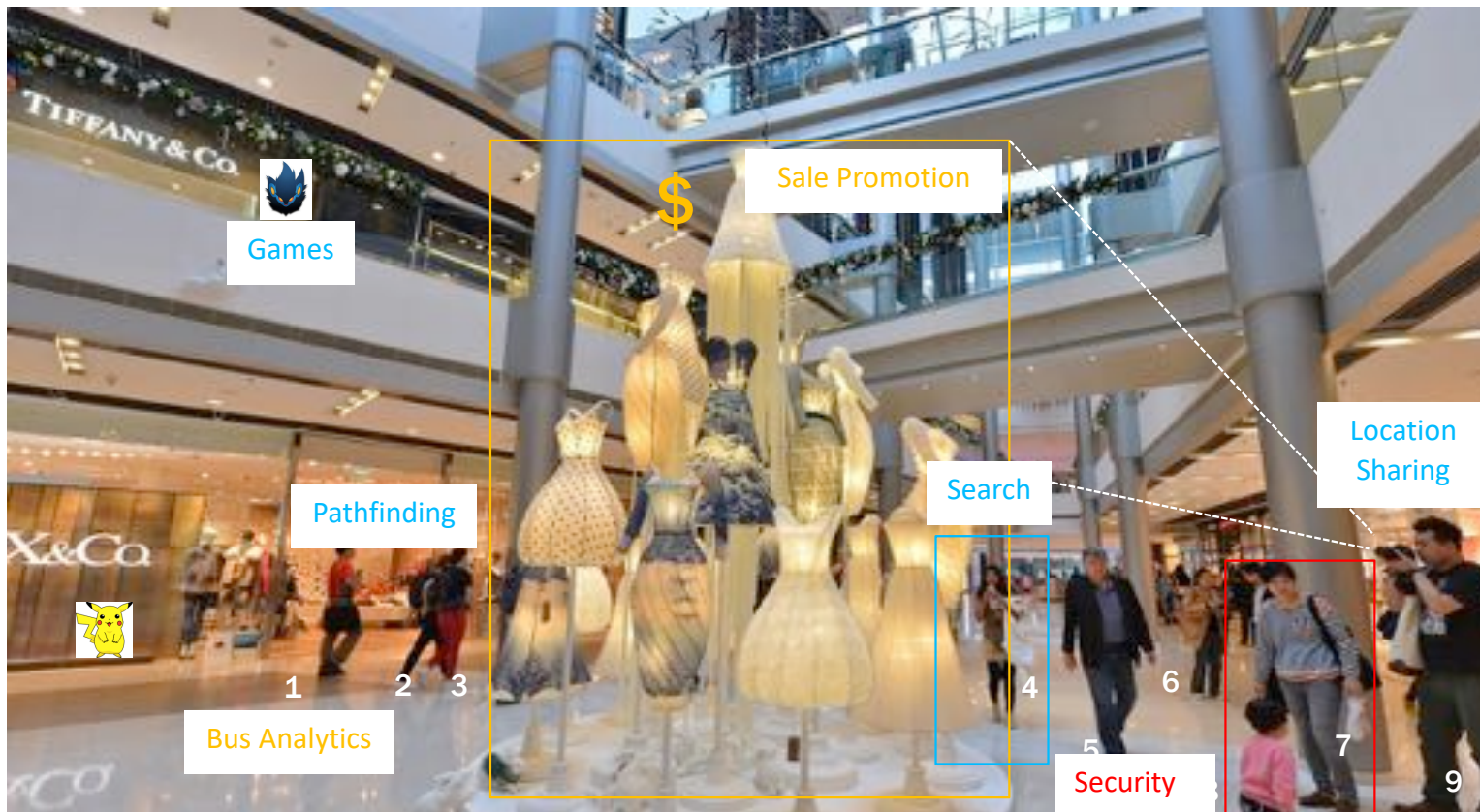
CUSTOMERS AND VENUE USERS



APP; GOVERNMENT; PROPERTY DEVELOPER AND MANAGEMENT; RAILWAY AND TRANSPORT; CONSTRUCTION MANAGEMENT; HOSPITAL AND NURSERY HOME; INDUSTRIAL CAMPUS

MARKET POTENTIALS AND DETAILS

❑ THE GLOBAL DIGITAL MAP MARKET SIZE BY 2024 REACHES 29.4 B USD AT 16.2% CAGR (MARKET AND MARKET, 2020)



LOCATION BASED SERVICE MARKET SIZE

❑ 184 B USD

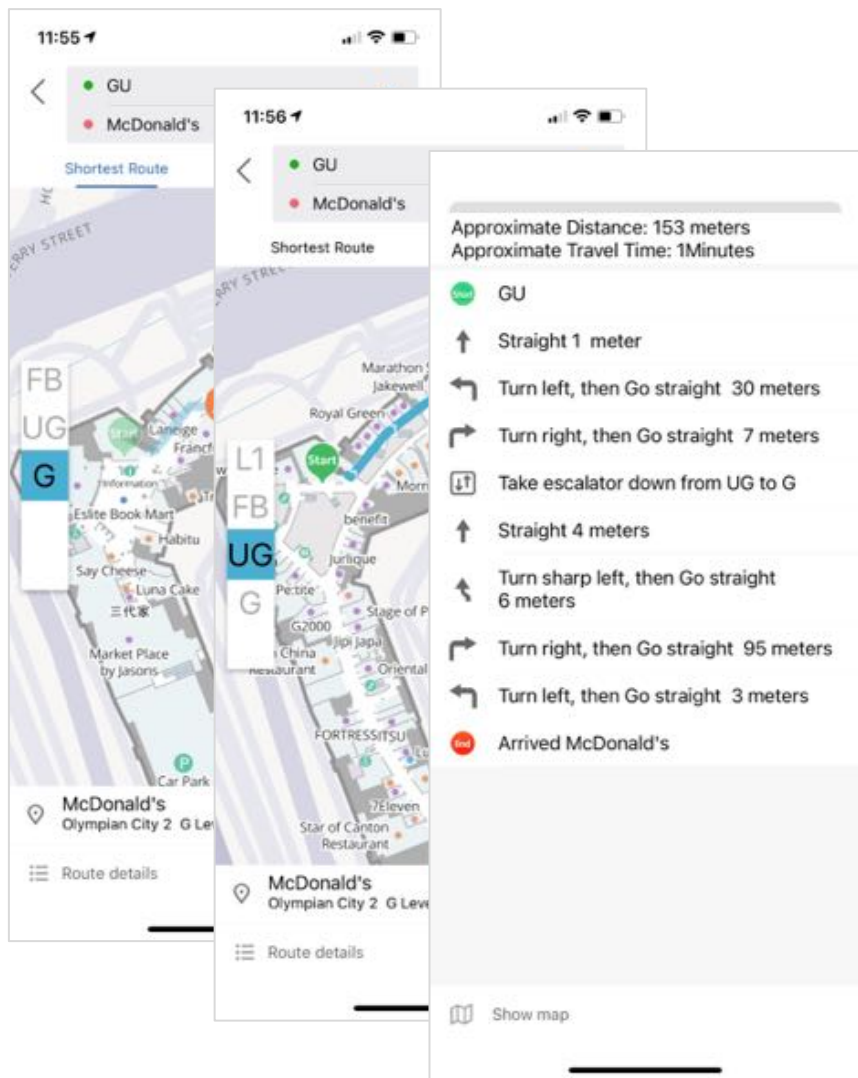
- POTENTIAL GLOBAL MARKET SIZE IN 2027
- AT CAGR: 26.3% FROM 2020 TO 2027 (ALLIED MARKET RESEARCH, JUNE 2020)
- ASIA-PACIFIC WOULD EXHIBIT THE HIGHEST CAGR OF 30.0%

❑ 120B USD

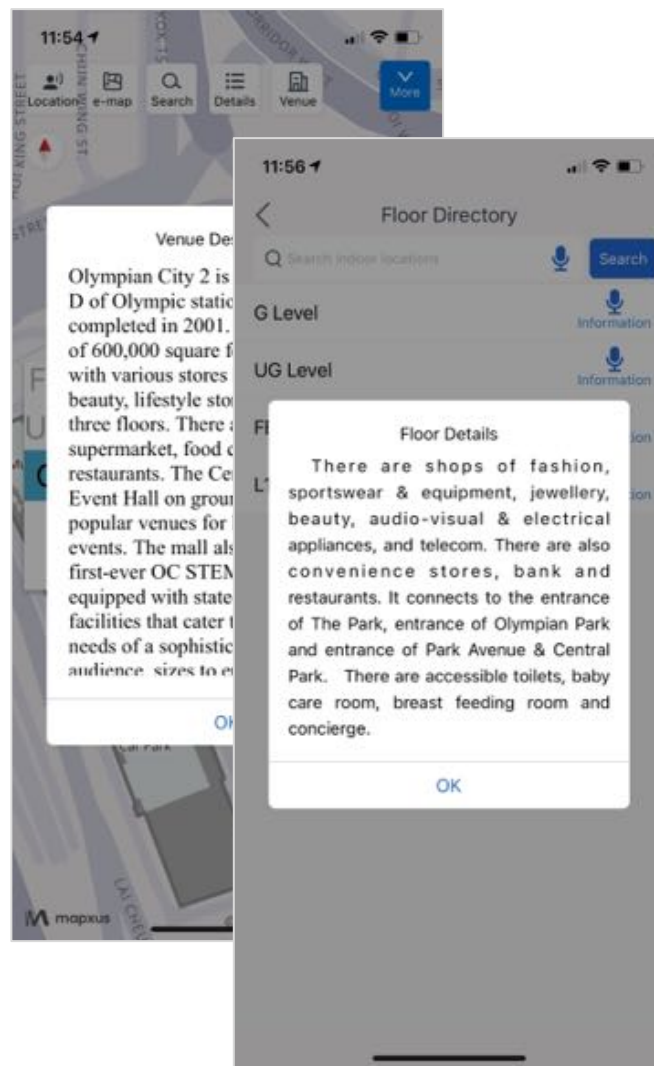
- SIZE WILL GROW BEYOND OUTDOOR MARKET FROM 2020 (PYRAMID RESEARCH, ABI RESEARCH, LD&A ESTIMATES)



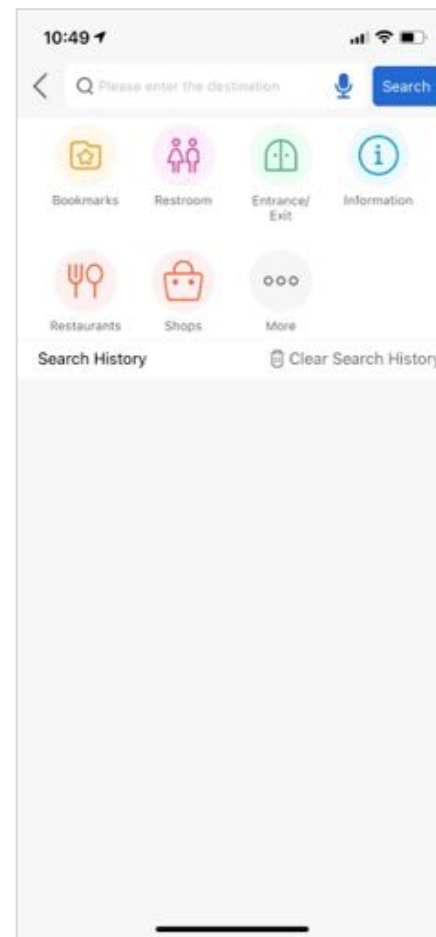
SMART CITY WALK: FIRST BARRIER-FREE APP FOR VISUALLY IMPAIRED



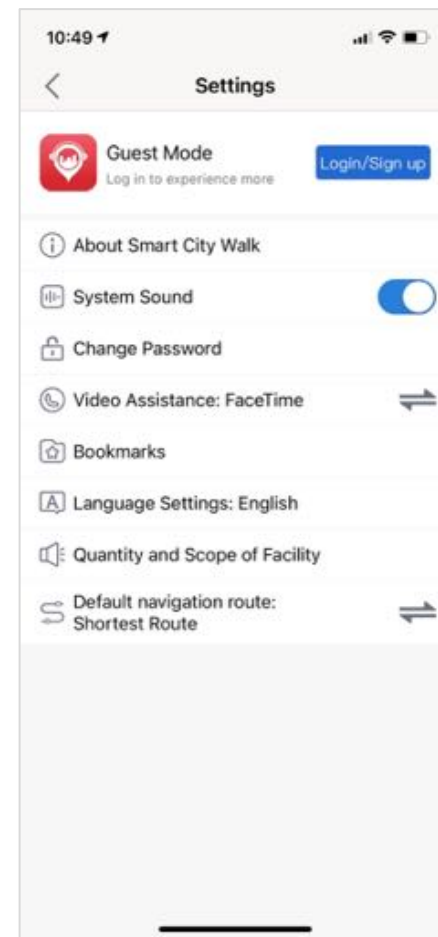
Barrier-free way-finding with turn-by-turn instructions



Venue and floor descriptions or the visually-impaired



User-friendly POI search by category



Language and audio/video assistance



YUE MAN SQUARE SHOPPING MALL APPLICATION: ONLINE IOT DATA



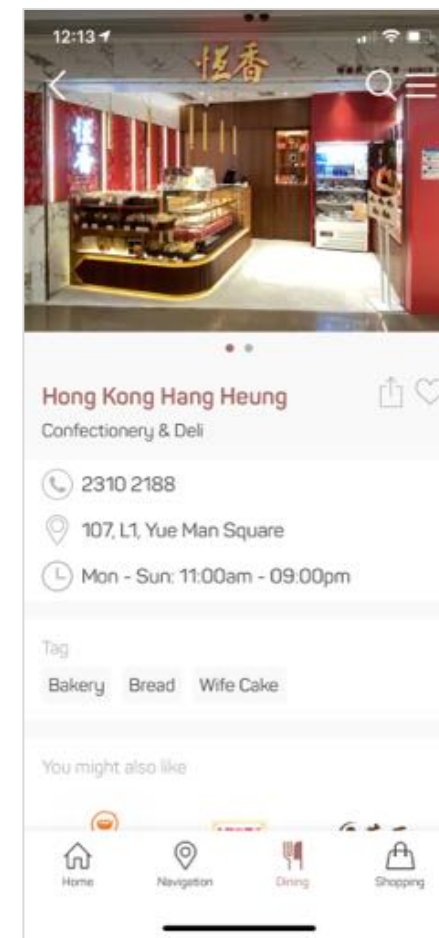
Customizable map style and view angle



Integration with existing IoT devices to provide enhanced user experience



Cross-floor way-finding with turn-by-turn instructions



Integration with mall's shops and facilities directory

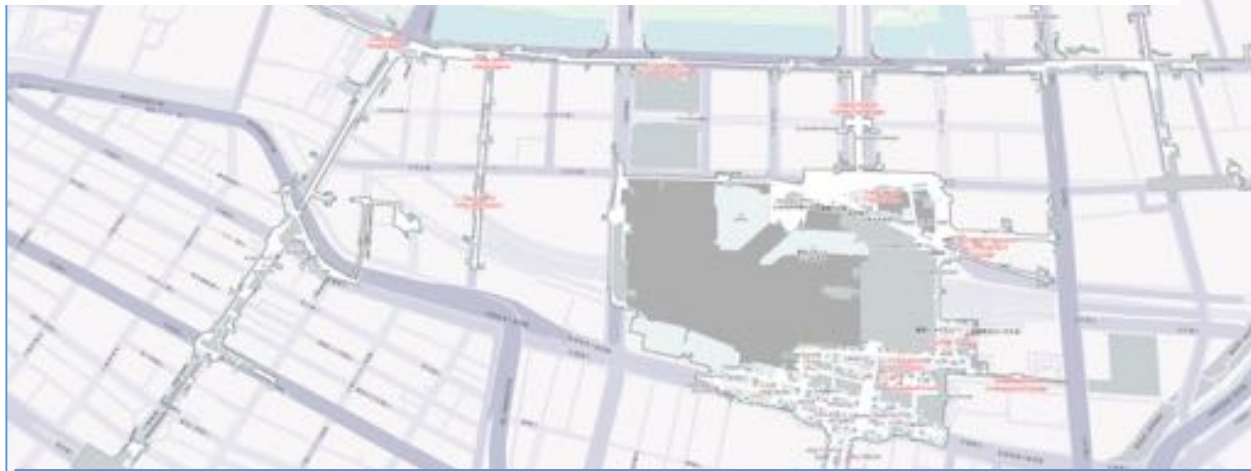


iPNT-K MAP INDOOR POSITIONING FOR EVERYONE IN JAPAN

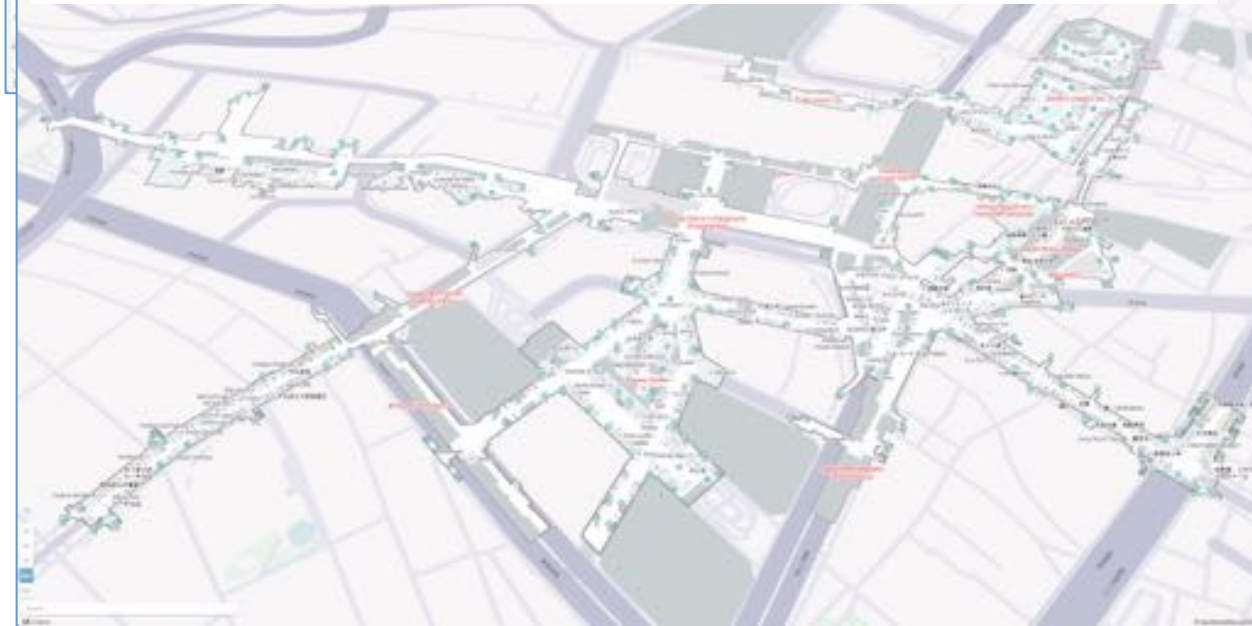
Shinjuku Station & connected undergrounds and stations 新宿駅與相連地下街及車站



Tokyo Station & connected undergrounds and stations 東京駅與相連地下街及車站



Osaka Station & connected undergrounds and stations 大阪駅與相連地下街及車站



Sapporo Station & connected undergrounds and stations 札幌駅與相連地下街及車站





Location Ai

BUILDING AND CONSTRUCTION: PROCESS VISUALIZATION



<https://youtu.be/ICFnXeGBYK4>

❑ FIRST ADOPTION: NEW WORLD CHINA



STRATEGY – BUSINESS EXPANSION IN JAPAN



MARKET EXPANSION IN JAPAN

- ❑ iPNT-K MOBILE APPLICATION
- ❑ INDOOR POSITIONING SERVICE AS AN INFRASTRUCTURE
- ❑ NATURAL DISASTER RESECURE ASSISTANCE AND DAY-DAY NAVIGATION
- ❑ NATIONAL COVERAGE; 10 MAJOR CITIES MAPPING AT THE MOMENT
- ❑ EXCLUSIVE TECHNOLOGY PROVIDER TO KAWASAKI HEAVY INDUSTRY

INVESTMENT HIGHLIGHT



DISRUPTIVE CITY SCALE 3D INDOOR MAP & NAVIGATION SERVICES FOR HUMAN AND MACHINE



FAST GROWTH BLUE OCEAN MARKET & WELL PROVEN BUSINESS MODEL



GREAT SOCIAL IMPACT ON BARRIER-FREE SMART CITY DEVELOPMENT



POTENTIAL EXPONENTIAL GROWTH OF BUSINESS IN APAC

Create A Smart City With Mapxus Global Indoor Map



WWW.MAPXUS.COM
CONTACT: JOHNCHAN@MAPXUS.COM