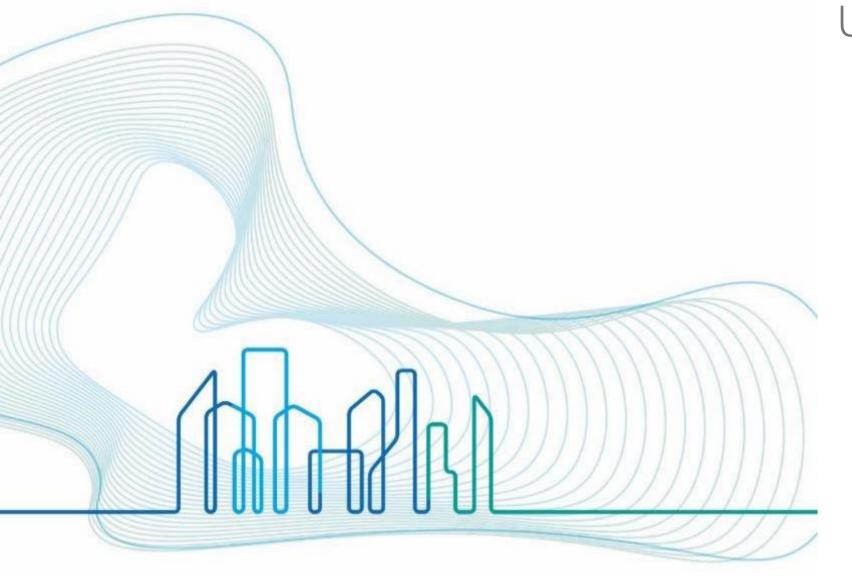


XensePath

UWB Positioning & Safety Management System



XenseTech — Company Profile SMART CONSTRUCTION TECHNOLOGIES

XenseTech Limited ("XenseTech") was sparked in the new era of Construction 2.0, a time of rebirth and reinvention of construction industry processes, products, people and paradigm.

Based in the Science Park, XenseTech is purposed for **bridging the gap between** idea and implementation in this Renaissance Moment.

We strives to collaborate with institutes, researchers and innovators to develop and provide total sustainable solutions to all stakeholders of the construction industry in Hong Kong.

Research Develop Apply

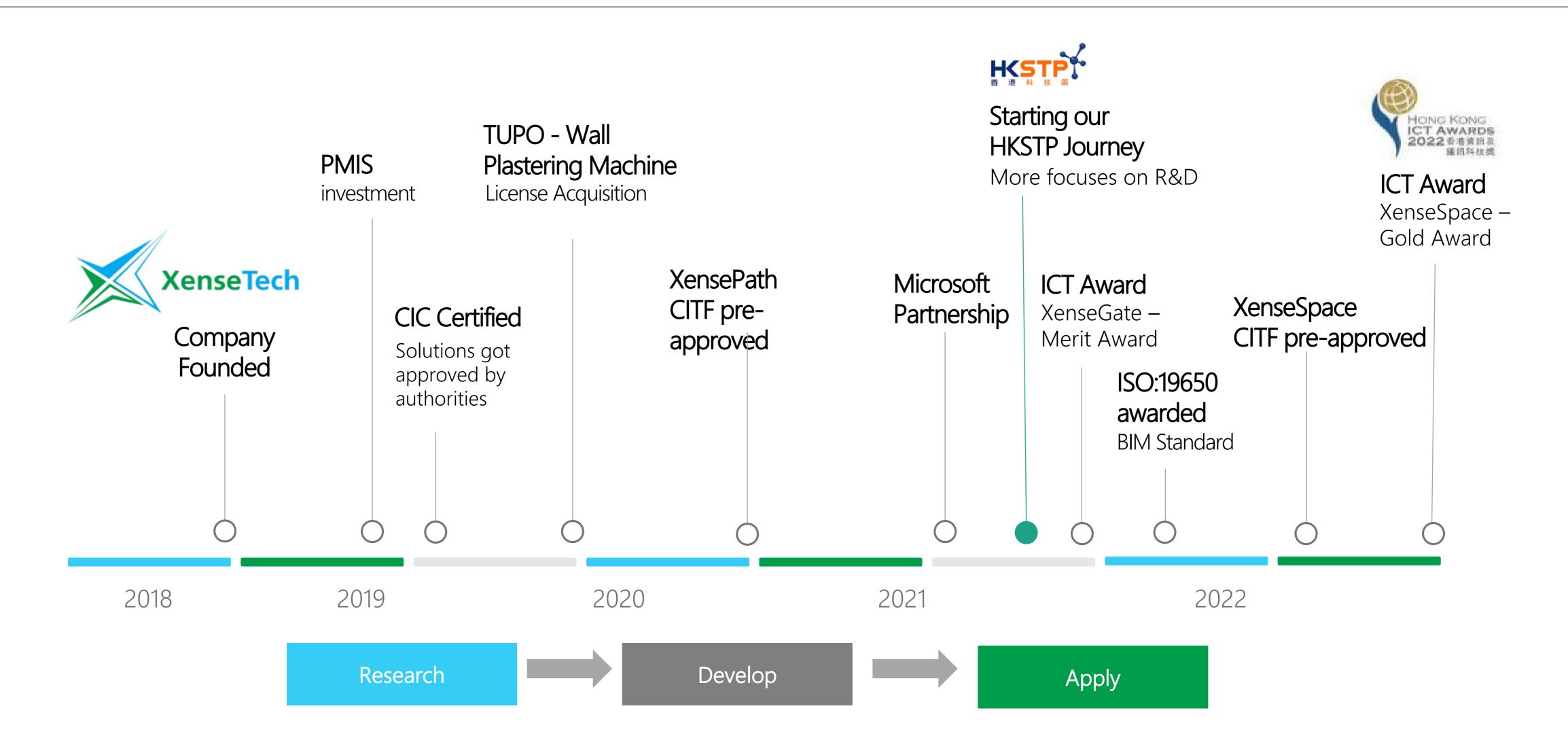


Registered address: Unit 715, 7/F, Building 12W, 12 Science Park West Avenue, Hong Kong Science Park



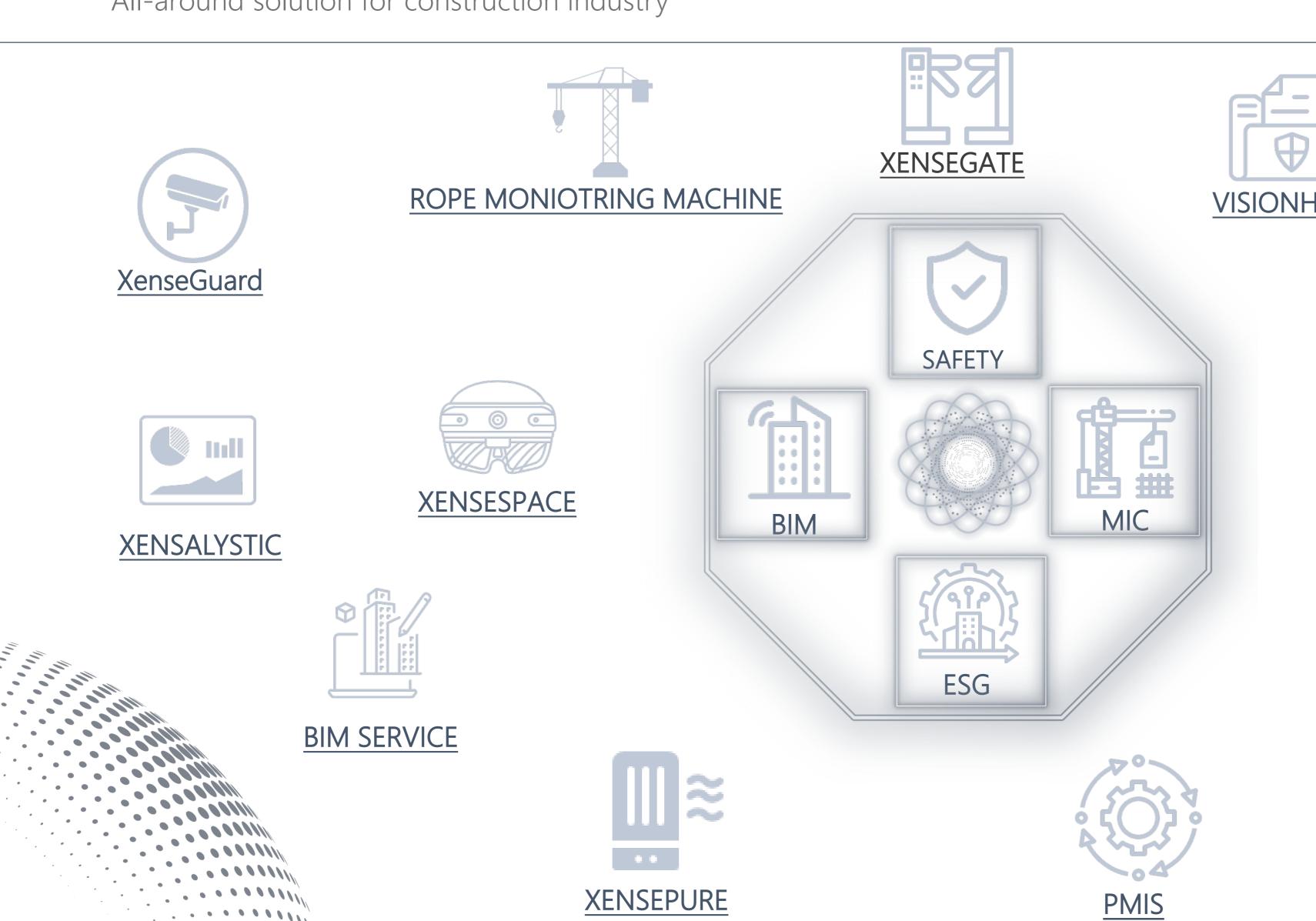
XenseTech — Company Profile

Rapidly growing: history from the beginning



Smart Construction Technologies

All-around solution for construction industry











MIC CANDLE-LOC **SYSTEM**

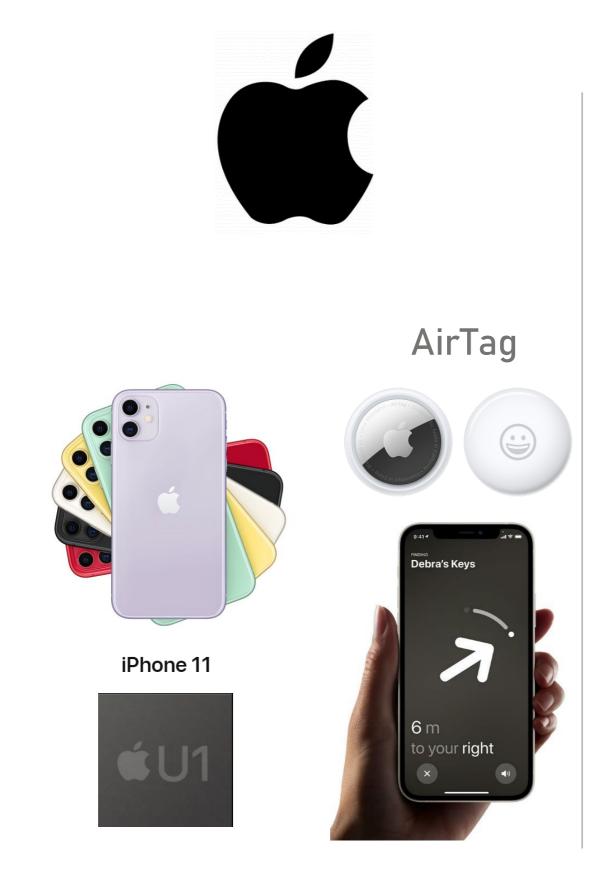


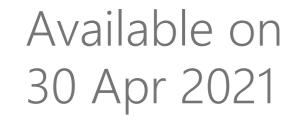




XensePath - UWB Positioning & Anti-Collision

UWB – the future of positioning technology









Available on 14 May 2021











Introduced in Oct 2020

Demonstrated on 2019 Cocktail Party

UWB vs RFID vs GNSS

UWB – what make us different

Feature	Ultra-Wideband (UWB)	Radio Frequency Identification (RFID)	Global Navigation Satellite System (GNSS) e.g. GPS
Location Tracking Accuracy	Up to 10 cm	Depends on distance between readers	Up to 5 m
Outdoor Location Tracking			
Indoor Location Tracking			
Local Anti-collision			
Energy Durability			
Installation & Maintenance			

UWB Positioning & Anti-Collision

UWB Safety Management System





Smart Helmet

Smart Card



Wireless Long
Range
Positioning
Antenna Station

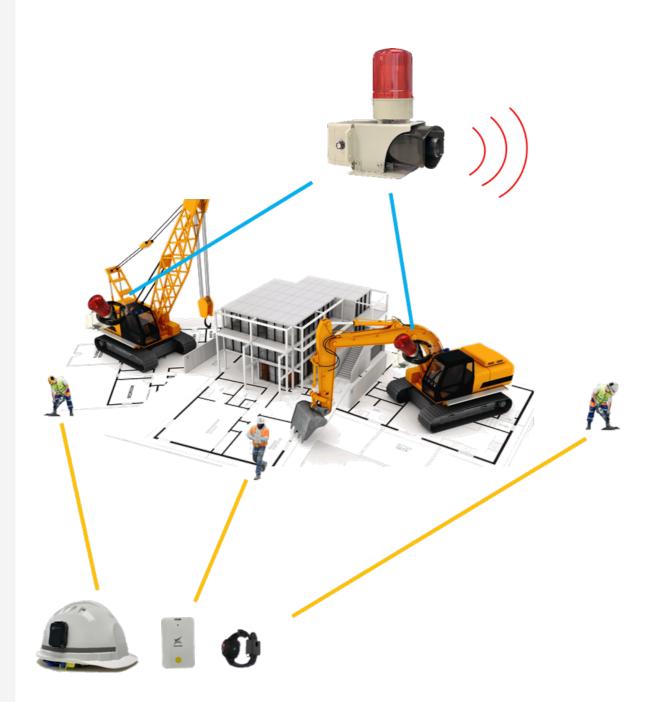


Long Range Positioning Gateway



Anti-Collision
Antenna Station

XensePath utilize the UWB technology which achieved location tracking with accuracy up to 10 cm. The application of XensePath cover both positioning, behaviour monitoring and anti-collision.



Behaviour Monitoring



Anti-Collision & Danger Zone



Location Tracking

UWB Positioning & Anti-Collision

Site Setup

XensePath utilize the UWB technology which achieved location tracking with accuracy up to 10 cm. The application of XensePath cover both positioning, behaviour monitoring and anti-collision.



Smart Helmet



Smart Card



Anti-Collision Antenna Station



Anti-Collision & Danger Zone



Location Tracking



Behaviour Monitoring



Smart Helmet



Smart Card



Wireless Long
Range
Positioning

Antenna Station



Long Range Positioning Gateway

Hardware list



Positioning Gateway

Coverage: Diameter 300M



Wireless Positioning Station

Coverage: 100M (sight distance) 20M (with occlude)



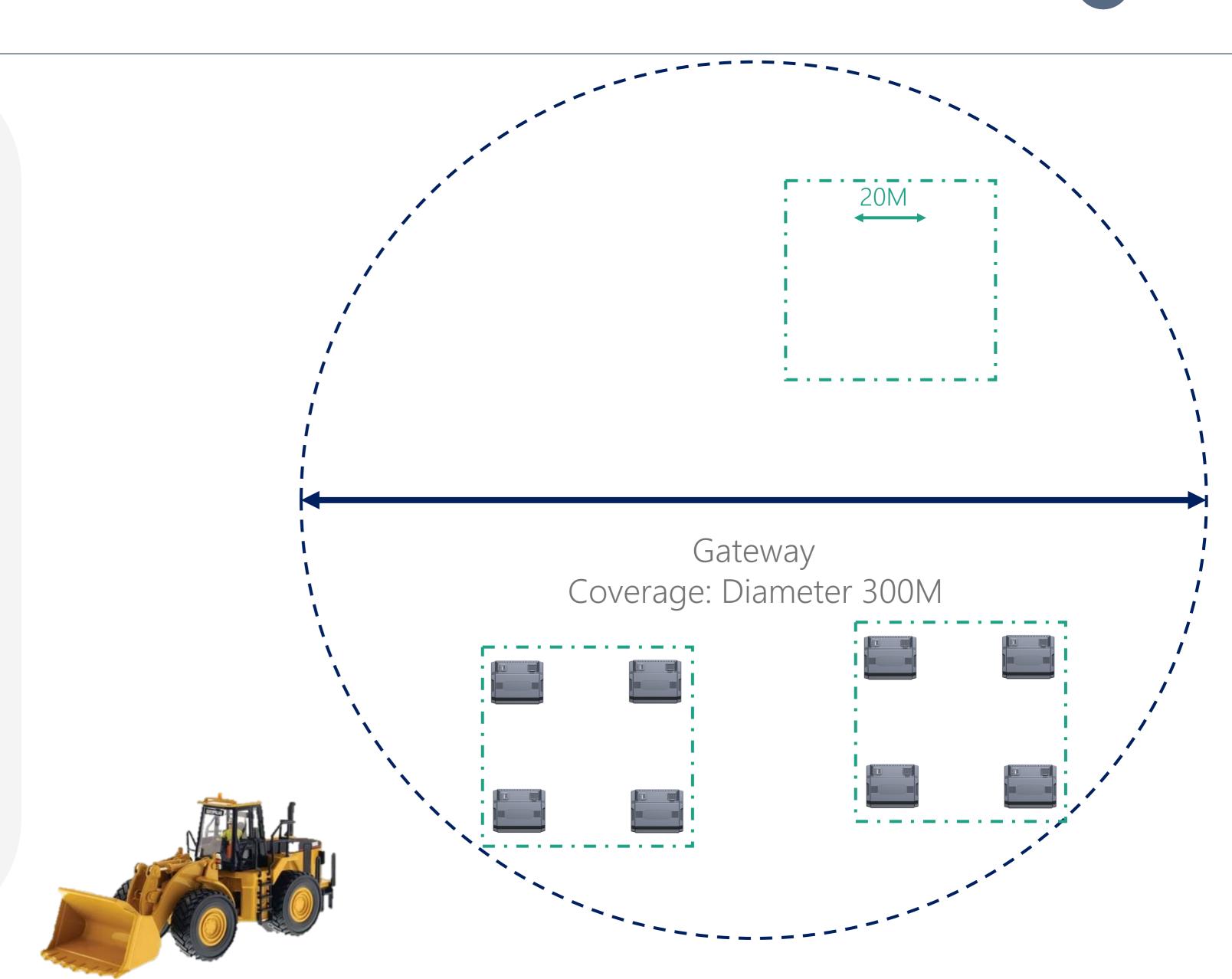
Anti-Collision Antenna Station

Anti-Collision Antenna Station can be installed outside of the positioning



Smart Worker Card tag

Carried by worker for both positioning and anti- collision

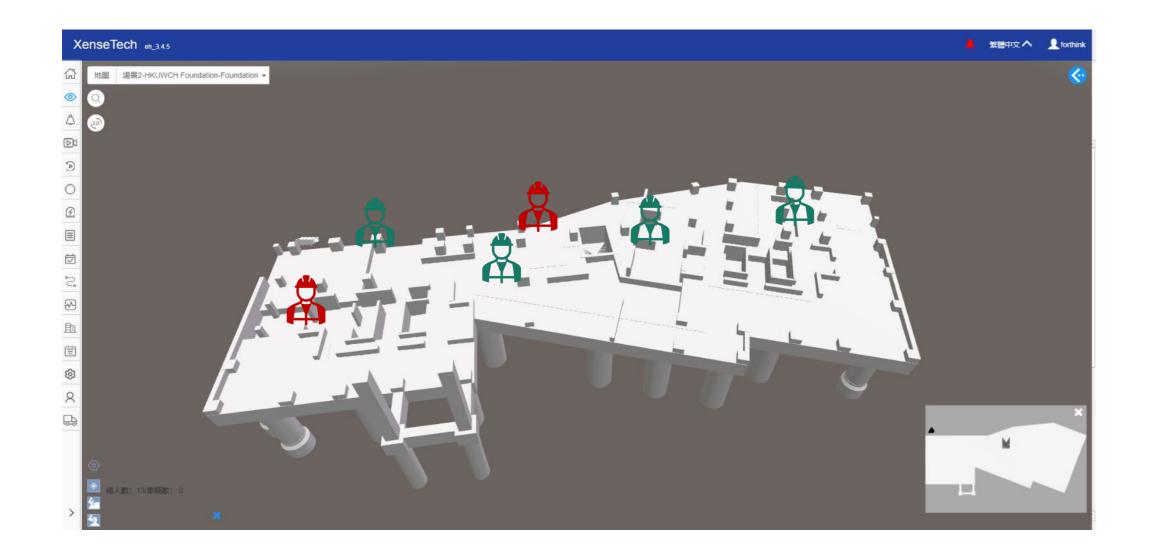


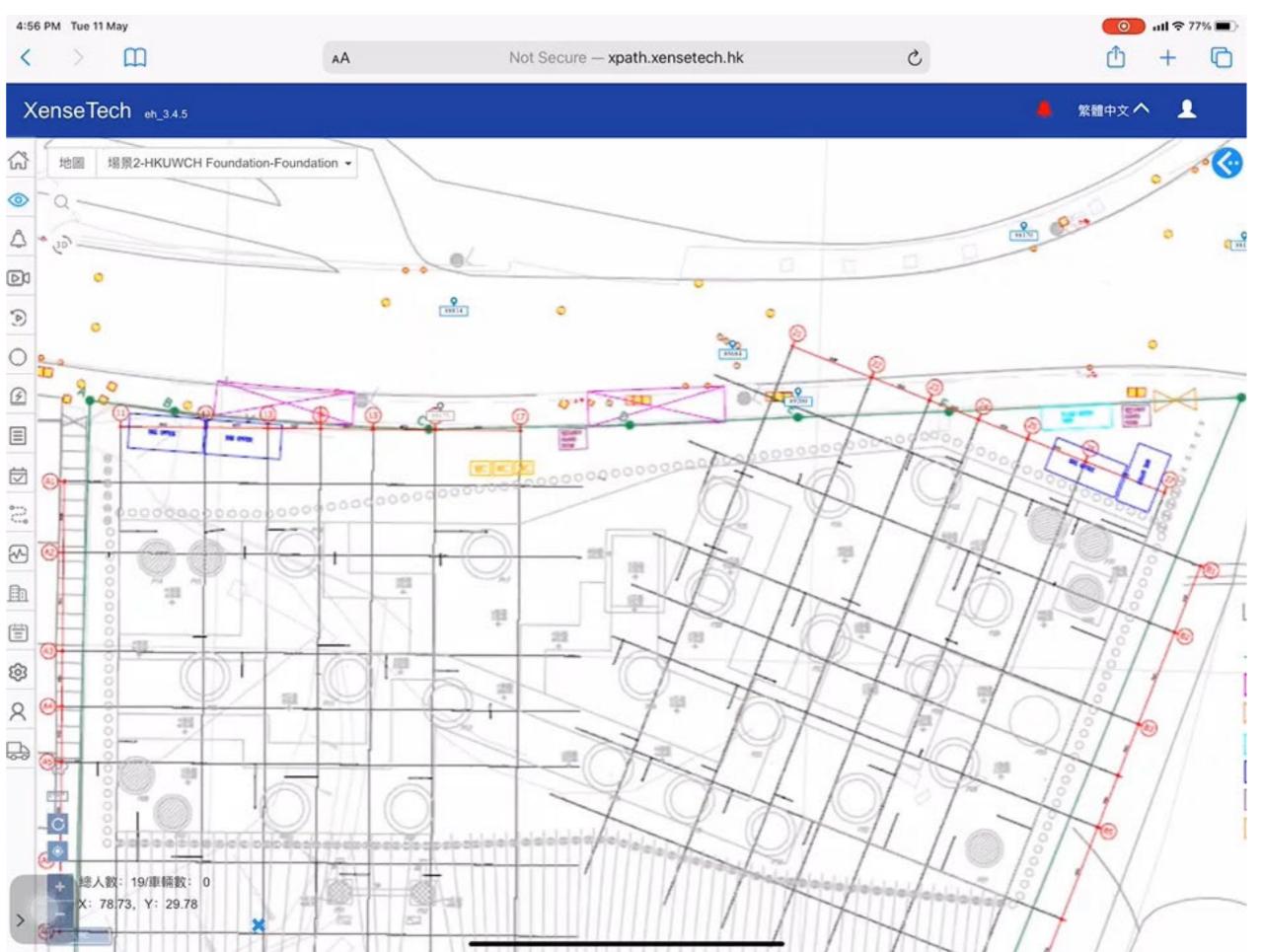
Real-time Worker Positioning

High Tracking Accuracy

Features

- Display & Monitoring in 2D & 3D
- Trajectory playback for incident investigation
- Geo-fencing monitoring for danger zone like confined space





Behaviour Monitoring

Flexible Alarm Triggering Logic



Disappearance from post

Alarm about disappearance of staff from working area



Actionless

Alarm about no-action beyond the pre-set time limit Self-defined time limit



No company

No-company alarm about entry into critical areas or no company



Source of danger

Alarm about approaching source or danger

Applicable to collision-proof lifting work by forklift

Prevented access to any toxic or harmful area



Stray alarm

Applicable to mutual surveillance group
in jail and fire work monitor management



Overtime stay

Alarm about overtime stay
Self-defined area and time limit
for the stay



Multi-card monitoring

Alarm about carrying several tags by one person



Crowd gathering

Alarm about crowd gathering Self-defined number of safely gathered staff

Anti-Collision Module

Early Warning for Workers Near Moving Objects / Danger Zones

Features

- Up to 1Hz directional distance measurement
- Alert workers & operators of danger
 - Vibration prompt (card tag)
 - Audible warning (anti-collision antenna)
 - Visual warning (anti-collision antenna)
- Setting of safety operation distance for different machines
- Optimal for all environment
 - Outdoor (foundation / civil projects)
 - Indoor (building)





Anti-Collision Module

Early Warning for Workers Near Moving Objects / Danger Zones

Features

- Up to 1Hz directional distance measurement
- Alert workers & operators of danger
 - Vibration prompt (card tag)
 - Audible warning (anti-collision antenna)
 - Visual warning (anti-collision antenna)
- Setting of safety operation distance for different machines
- Optimal for all environment
 - Outdoor (foundation / civil projects)
 - Indoor (building)







We provide a total sustainable solution to all stakeholders of the construction industry in Hong Kong.

- XenseTech







Unit 715, 7/F, Building 12W 12 Science Park West Avenue Hong Kong Science Park

Contact Info

Email: info@xensetech.hk

7 Telephone

Office Phone: +852 2838 3030

Fax: +852 2838 3025

THANK YOU

PRESENTED BY XENSETECH