Empower Mobility, Without Uncertainty

Dead-Reckoning Solution

October, 2018

SkyTraQ

SkyTraq Dead-Reckoning Solution

Application

* For wheel vehicle continuous navigation and tracking

12mm x 16mm

Benefit

* Position available immediately after power on
* 100% coverage, continuous navigation in tunnels and underground parking lot
* More accurate positioning in multipath urban canyon
* More accurate in differentiating altitude in multi-level roads, bridges, and car parks

Characteristic

* Use 3-axis gyro & accelerometer, no limitation to mounting orientation
* Use barometric pressure for higher accuracy altitude sensing
* Automatic sensor calibration

Automotive Dead-Reckoning (ADR)

Application

* For before market 4 wheel vehicle continuous navigation or tracking

Requirement

* Wheel-tick signal from vehicle
* Forward/reverse signal from vehicle (optional)

Benefit

* Highest possible position accuracy with dead-reckoning

Odometer-less Dead-Reckoning (ODR)

Application

* For after market 4 wheel vehicle continuous navigation and tracking
* For vehicle telematics and insurance

Requirement

* None

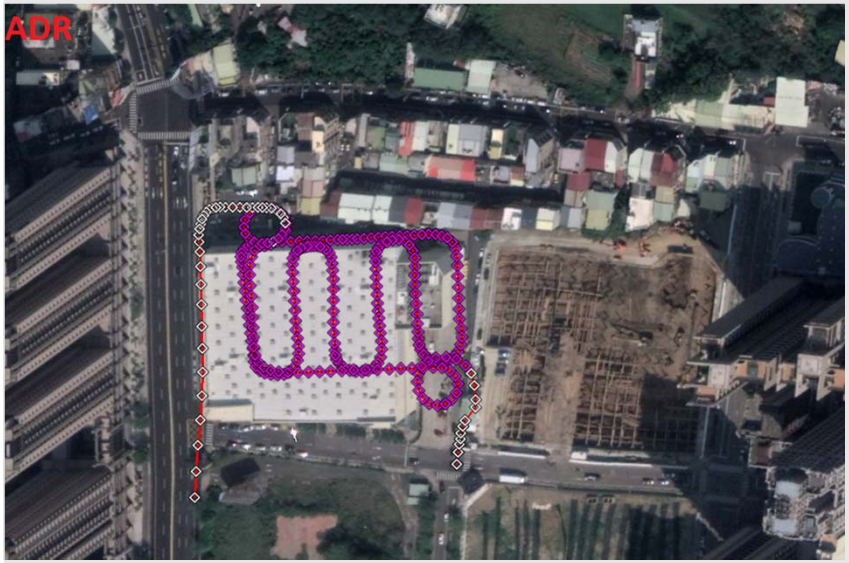
Benefit

* More accurate position reporting
* More accurate distance calculation for road tolling
* Additional gyro & accelerometer output for driving behavior monitoring
* Additional attitude output for car crash monitoring to enable auto distress calling

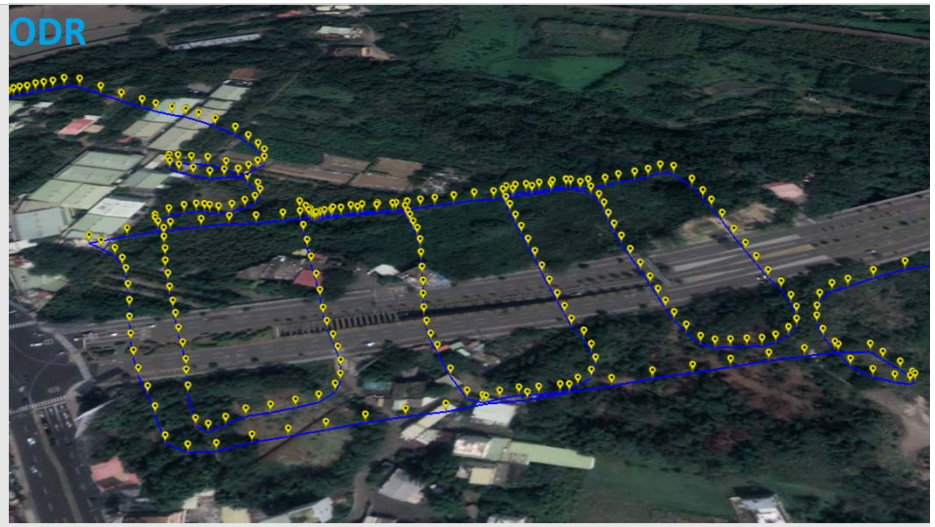
Underground Parking Lot Testing (1 / 3)

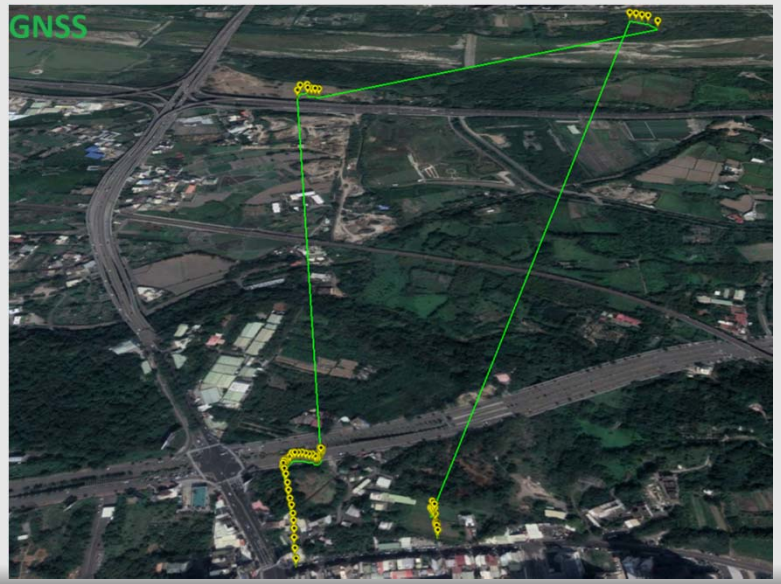
Costco Underground Parking Lot (F1 ➔ B1 ➔ B2 ➔ B1 ➔ F1)

Underground Parking Lot Testing (2/3)



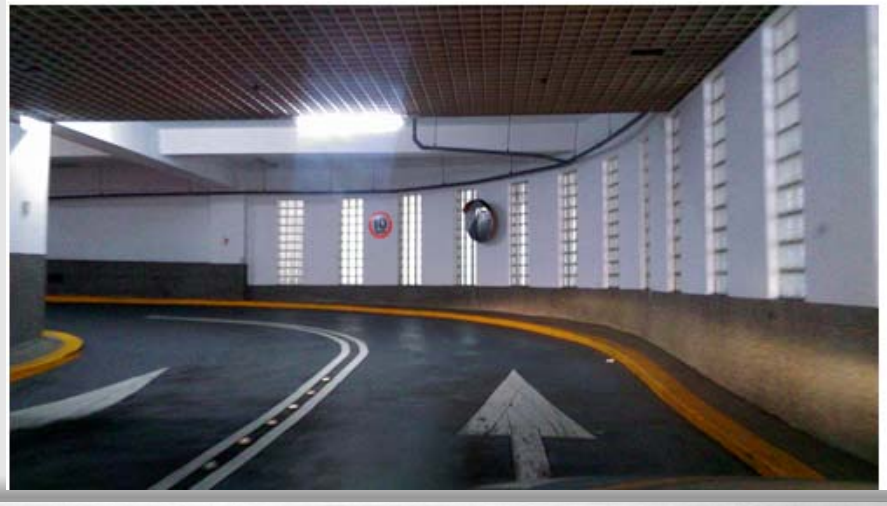
Underground Parking Lot Testing (3/3)



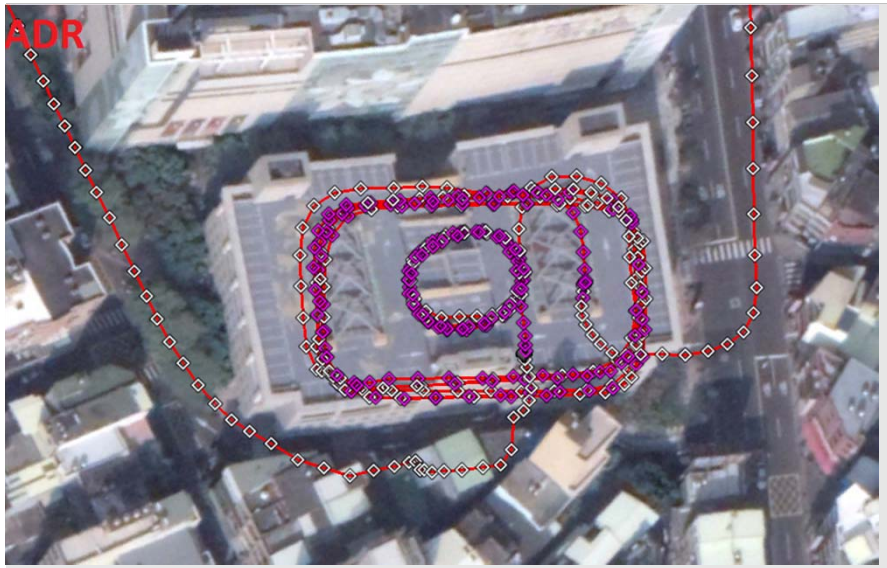


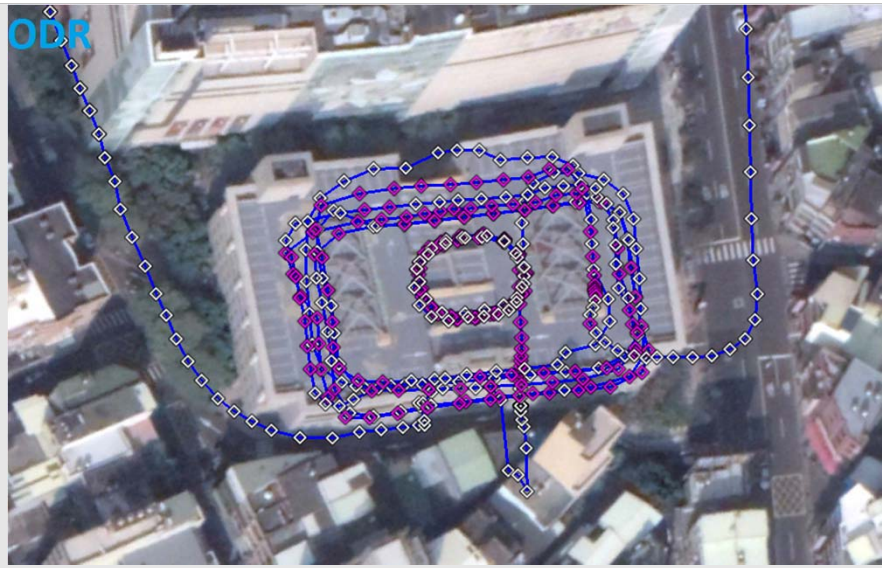
Multi-Story Car Park Testing (1 / 3)

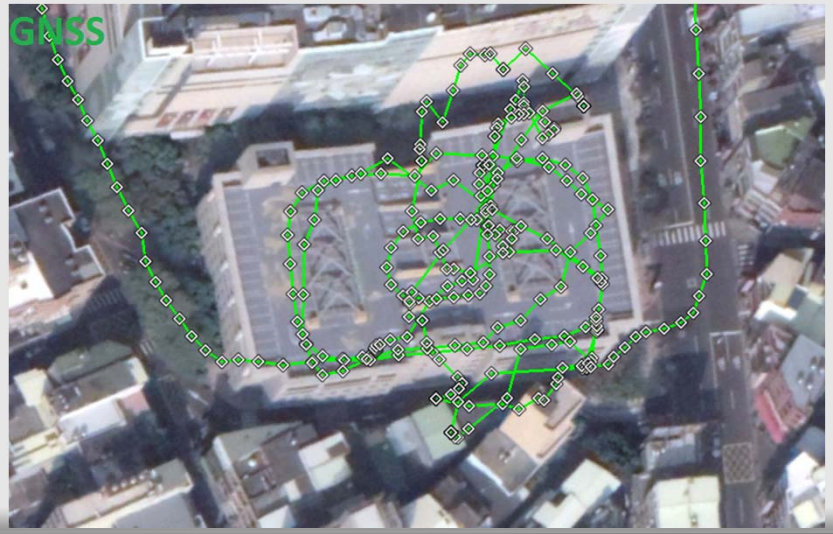
Multi-Story Car Park (F1 ➔ F2 ➔ F3 ➔ F4 ➔ F5 ➔ F6 ➔ F7)



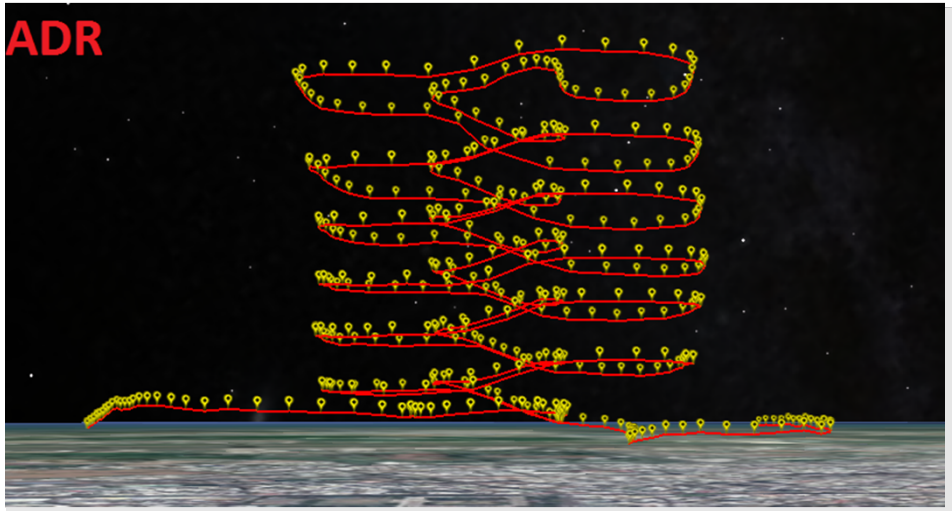
Multi-Story Car Park Testing (2/3)

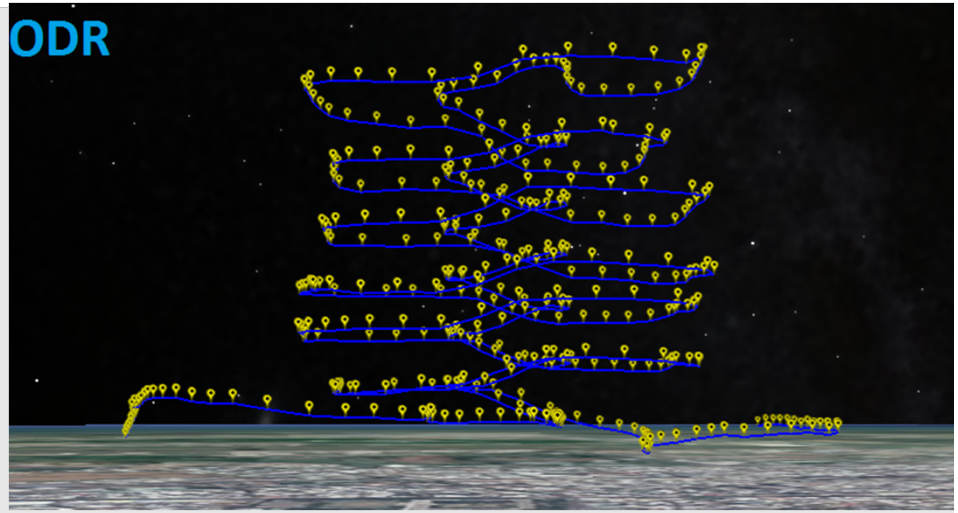


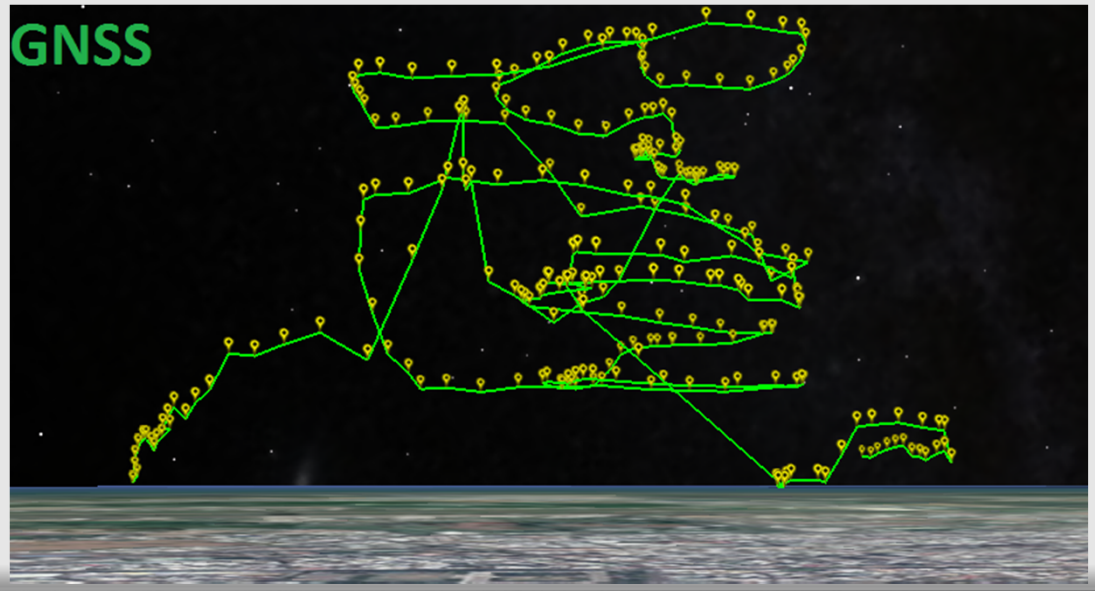
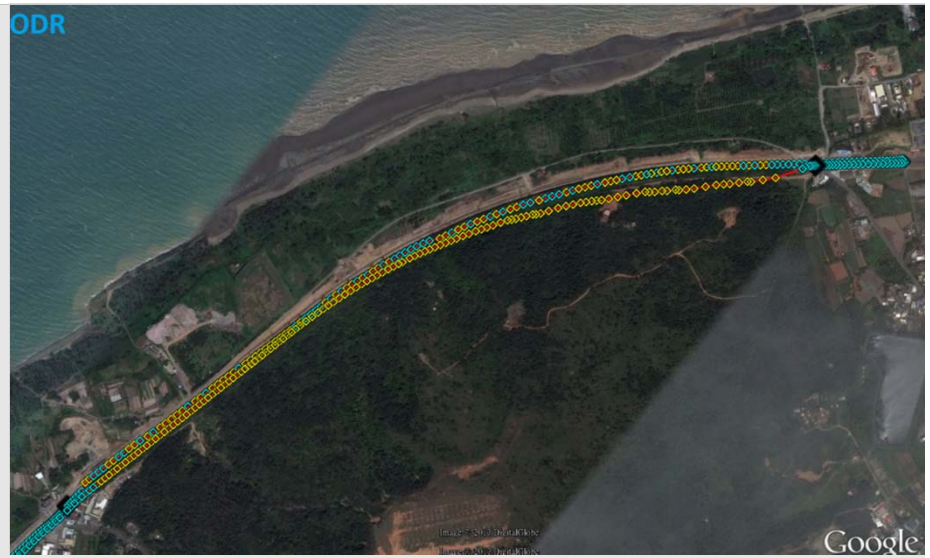




Multi-Story Car Park Testing (3 / 3)







Tunnel Road Test