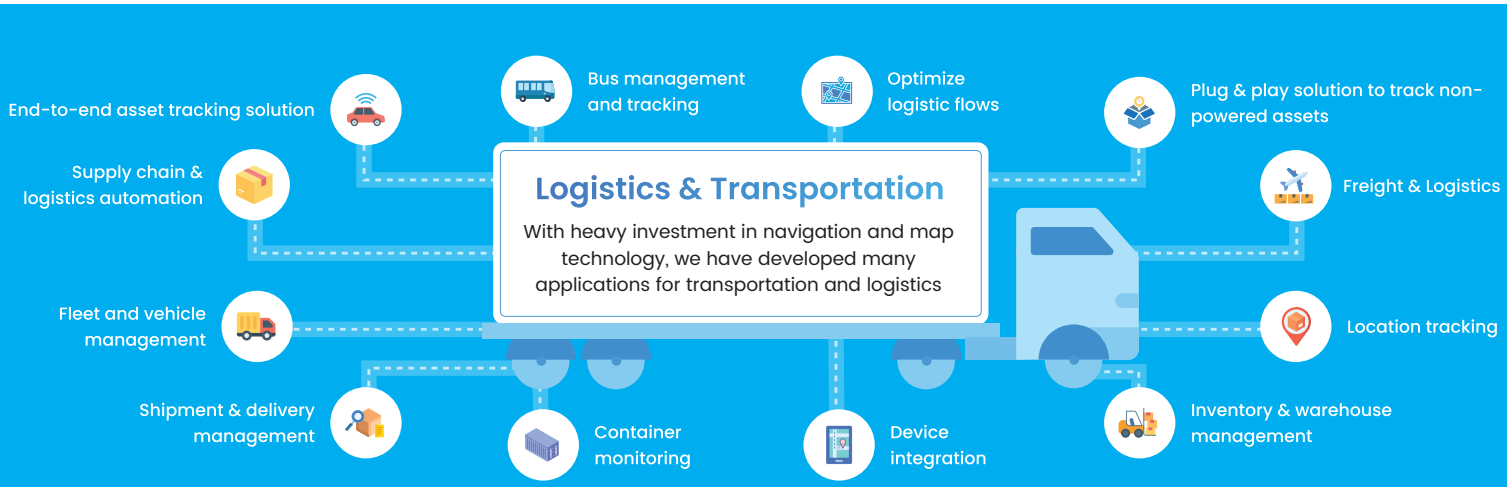
Logistics & Transportation



13 Years of experience

150 Engineers

Customers from many countries: **Belgium, Hong Kong, Japan, Thailand, Malaysia, Vietnam**

Services

Providing end-to-end software development services in large-scale systems for big logistics & transportation customers

Consult and develop management systems i.e HR, CRM, Warehouse, Delivery, etc. to ensure continuous operation.

Support import and export data connections from existing systems to increase operational flexibility.

Apply Big Data & Analytics & AI technologies to solve problems, and increase visibility to achieve business efficiency.

Customize and refine both commercial and open-source platforms to reduce development time, and speed up business expansion needs.

www.tmasolutions.com +84 28 3997 8000 sales@tmasolutions.com

Technologies

With heavy investment in technology, we provide solutions to transport and logistics companies based on modern technologies

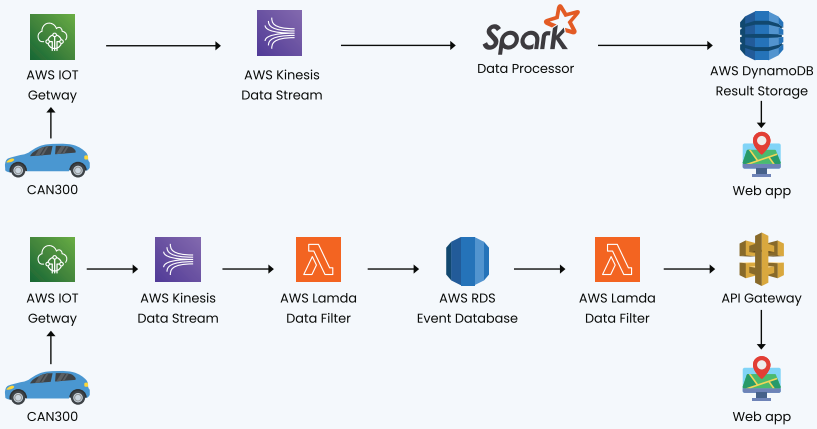
- Microsoft Technologies
- Big Data & Analytics & AI
- Java
- Web & Mobile Technologies
- Cloud & DevOps
- Open Source Technologies

Case Studies

Vehicle Traffic Management

TMA helped customer successfully:

- **Get a quotation:** allows users to get quotations based on recipient address, parcel information, and shipping services without booking parcels.
- **Create and pay for parcel orders:** allows the user to book, pay and deliver their parcels to other recipients.
- **Detect unusual occurrences:** log where each asset has been, and how long it stayed there and send a notification in case of an abnormality. Issue a warning if an asset has been stopped for too long at a suspicious place.

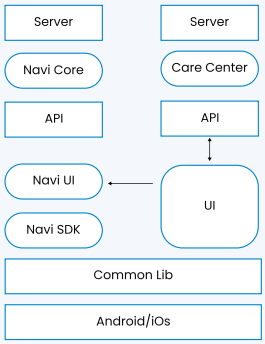


Case Studies

Navigation Solution

TMA helped customer successfully:

- **Monitor container performance metrics:** track and adjust the container's temperature, pressure, humidity, and over 100 other indexes
- **Extract Pre-Trip Inspection error code:** log the pre-trip inspection to check whether the refrigerated container has a problem. Send an abnormal alert to the management centre to assign technicians to fix the problems.

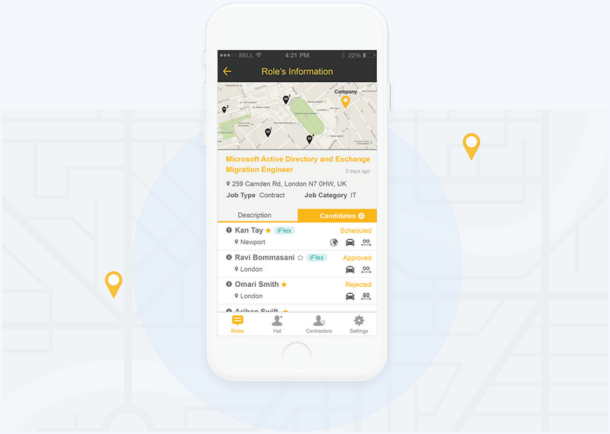




Route Information Lookup

TMA helped customer successfully:

- **Manage Delivery Booking:** the agent can register to book for both registered and non-registered customers. Non-registered customers can enter the service point and ask for shipping services. The registered customer only needs to come and drop off the parcel.
- **Manage Transaction:** the store owner can manage the booking and track the parcel status
- **Report:** provide summary data of reports and send them to store owners.



Lane and Vehicle Detection

TMA helped customer successfully:



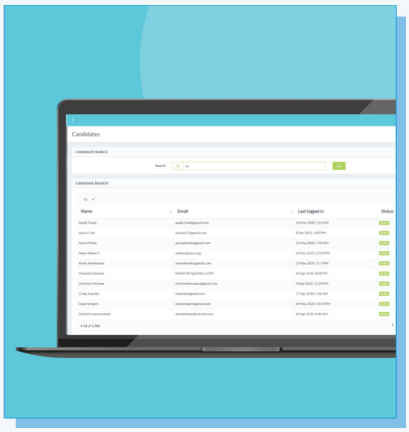
- **Locate assets:** Searching for assets by using the web or mobile app and get an overview of all locations with the asset map (street view or satellite) or drill down to locate an individual assets
- **Monitor asset journeys:** Follow assets as they move from site to site by estimating routes and distances, logging visited locations, and monitoring stopping times
- **Detect unusual occurrences:** Log where each asset has been, and how long it stayed there. Send a notification in case of an abnormality and a warning if the asset has been stopped for too long at a suspicious place.
- Meet the deadline for product launch and win the "disruptive innovation" award in the European Satellite Navigation Competition (ESNC).
- Operate in eight European countries and open up a new range of great business opportunities related to positioning such as tracking trailers, containers, machinery, tools, and bikes.

Case Studies

School Furniture - Sales and Distribution Management System

TMA helped customer successfully:

- **Manage Duress:** manage all the emergency alarms displayed on the system to assign staff to support the user.
- **Report status & position:** collect and report radio coverage data, including map display to track transit operations and route compliance.
- **Manage configuration:** configure to manage fleet and assign terminals to the fleet.
- Increase test automation coverage from 20% to 70%.
- Complete the project on time



The Mobile Access Controller - Management Centre

TMA helped customer successfully:

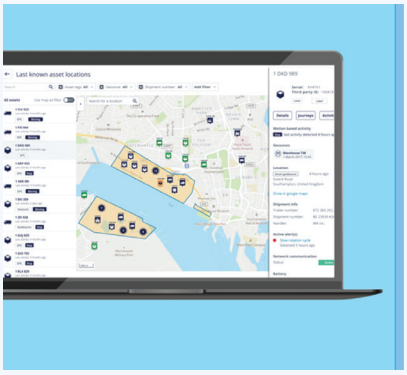
- **Manage Product Catalog and Warehouse:** supports managing product information, warehouse management, and tracking inventory levels, orders, sales, and deliveries.
- **Manage Customer Relationship:** supports finding customers, scheduling appointments, and managing the shopping activities of customers.
- **Manage Supplier:** control supplier classification and manage debt for each supplier.
- **Manage Order:** helps to synchronize orders from the website, automatically calculate shipping costs, and link shipping units.
- **Report:** report and analyze all business activities



Inventory Monitoring

TMA helped customer successfully:

- **Develop ADAS functions using camera:** Intelligent Parking Assistance, Traffic Light Alert, Lane Change Assist, Sign Panel Detection.
- **Develop AI Camera Image Processing:** Static/Moving Objective Detection.
- **Test AV navigation system**

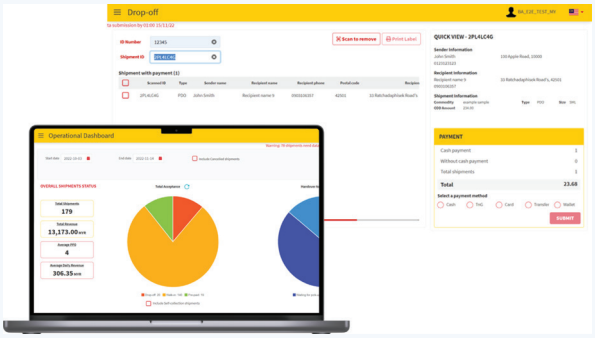


Case Studies

Service Point Application

TMA helped customer successfully:

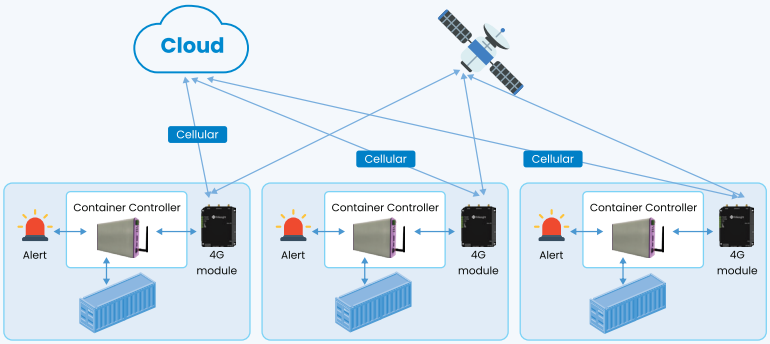
- Search for the best route between departure and destination locations
- Show detailed information about the route (ticket fare, departure time, arrival time, train line, etc.).
- Show street view.



Remote Container Monitoring System

TMA helped customer successfully:

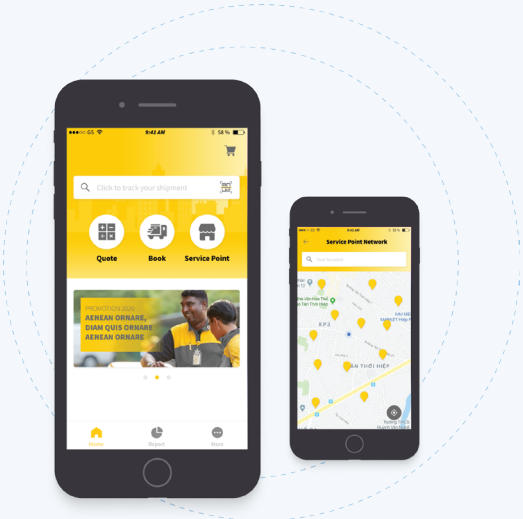
- Locations and Routes
- Traffic information
- Notification of ETA Home and find nearby
- Locate other parking
- Trip Rally, Racing, Planner and Share
- Walking Navi
- Find customer privilege nearby
- Navigation AV



Logistic Mobile Application

TMA helped customer successfully:

- **Develop Data Collectors, BigData Processing Pipeline:** Processing pipeline receives data from vehicles or mobile applications
- **Develop FullStack web application to monitor traffic:** jam, single spot information.
- **Estimated travel time:** Big data warehousing, collector and analyzer get info from millions vehicles to provide estimated travel time for users.
- **Space Map:** Web App requests data from Information Provider and collectors then show on a map.
- **Traffic monitoring and management:** Develop Big Data Services for traffic monitoring and management.



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