

otonomo



SWAT
MOBILITY

Transforming journeys and
optimizing movement



PROFILE

SWAT Mobility is a Singapore-based smart mobility company that provides demand-responsive and ride-pooling technology in high capacity vehicles. With the belief that efficient transport is a fundamental right, SWAT endeavors to use its core mobility engine to improve the way people commute, ease congestion, and improve their quality of life.

HIGHLIGHTS

- Optimize transportation routes
- Automate manual planning
- Maximize utilization and service levels
- On-demand ride booking

USE CASES

Public Transportation
Shared Mobility
Field Mobility
Employee Transportation

AUTOMOTIVE DATA PARAMETERS USED

Timestamp
Latitude
Longitude

CHALLENGE

The majority of the local working population utilize time-consuming public or employer-provided transportation to work. Employees may spend more than two hours a day getting to and from work using public transportation, while employer-provided commuters are typically required to travel to a designated pick-up location, which implies longer commutes and more transfers. Private transport commuters may save time at the cost of aggravating congestion and damaging the environment.

Consequently, employees may have trouble getting to work on time due to inconvenient journeys, whereas organizations face problems hiring and retaining employees as people find it hard to get to a workplace.

Companies that provide transport and commuting services find it increasingly difficult to meet the complex and changing demand. Planning transportation services is a complicated task with multiple factors and constraints to consider. From traffic congestion factors, vehicle routing, and guaranteed seats for everyone, to minimizing walking distance, total distance traveled and journey duration, transport considerations need to offer greater convenience, while reducing the overall costs.

Furthermore, fleet operators need to avoid low and inefficient fleet utilization, while cities and governments ought to address First/Last Mile problems and provide efficient transport in low ridership areas.

The future of transportation relies on technologies to efficiently use resources and ultimately direct the flow and movement of vehicles. Mobility technologies require real-time traffic data for optimizing their routing algorithms and solutions.

“Otonomo’s one-stop shop services enable SWAT Mobility’s speed calibration process to improve our customer’s overall riding experience.”

EVGENY MAKAROV
HEAD OF DATA, SWAT MOBILITY



SOLUTION

SWAT Mobility offers smart transport solutions for greater convenience and better commutes in high-capacity vehicles. Their smart transport solutions harness demand-responsive and ride-sharing technology for pooling passengers in shared vehicles and generating the optimal routes to pick them up and drop them off.

SWAT Mobility's routing engine generates optimal routes using an advanced, award-winning algorithm, where speed map data is one of the factors in the calculation. "Speed maps are an important aspect of our services that determines and drives the success of our business," explains Evgeny Makarov, Head of Data at SWAT Mobility. "We utilize Machine Learning to transform Otonomo's vehicle data into a road speed graph. The resulted speed map is incorporated into the routing engine to solve routing problems. Speed maps are regularly re-calibrated with fresh data to ensure the accuracy of our routing engine."

SWAT Mobility's solutions serve fleet operator companies, large corporations from different industries, as well as governments.

"We are leveraging the real-time data generated by vehicles to transform journeys through smart mobility"

EVGENY MAKAROV

RESULTS

Utilizing Otonomo's cleansed and normalized traffic data in its Machine Learning algorithms, SWAT Mobility has greatly optimized the pickup time, journey time and pooling rate of all offered rides.

SWAT Mobility's solutions generate cost savings, increase employee productivity and facilitate global business expansion.

- **Corporates save costs** by providing shuttles instead of individual cars, while offering their employees additional benefits to lower attrition, increase satisfaction and improve productivity. With SWAT Mobility, companies can offer efficient and convenient commutes that caters to shift workers as well as for remotely located offices, while reducing the

manual overhead of transport planning as well as billing reconciliation.

- **Fleet operators streamline their operations** and expand their business by fully utilizing and optimizing their resources.
- **Government transportation projects** address traffic congestion, low and inefficient fleet utilization, and efficient transportation in low ridership areas.

"We are leveraging the real-time data generated by vehicles to transform journeys through smart mobility" Evgeny Makarov concludes. "With Otonomo's enhanced and reliable data, we are now able to provide improved riding experience for all."

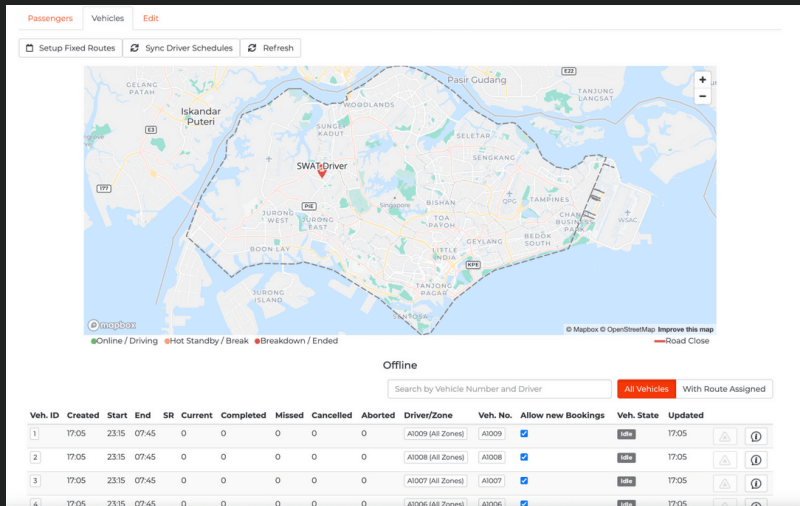
WHY OTONOMO?

SWAT Mobility has partnered with Otonomo to gain an immediate and convenient access to traffic data worldwide for catering to its rapidly growing global business needs.

“Otonomo’s One-Stop Shop services meets our expectations and requirements.” says Evgeny Makarov, Head of Data at SWAT Mobility. “The vehicle data is straightforward and easy to interpret and ingest. Only minimal data processing is required before feeding the data into our vehicle data processing pipeline.”

“Otonomo’s one-stop shop services meets our expectations and requirements.”

EVGENY MAKAROV



Passengers Vehicles Edit

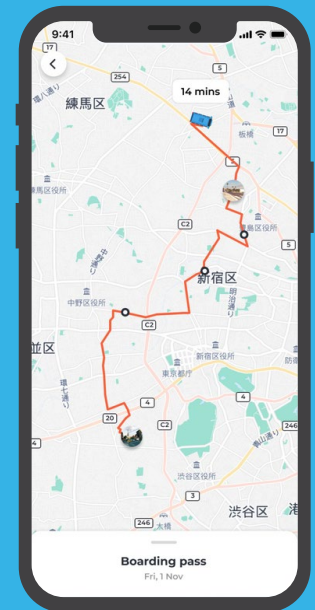
Setup Fixed Routes Sync Driver Schedules Refresh

Offline

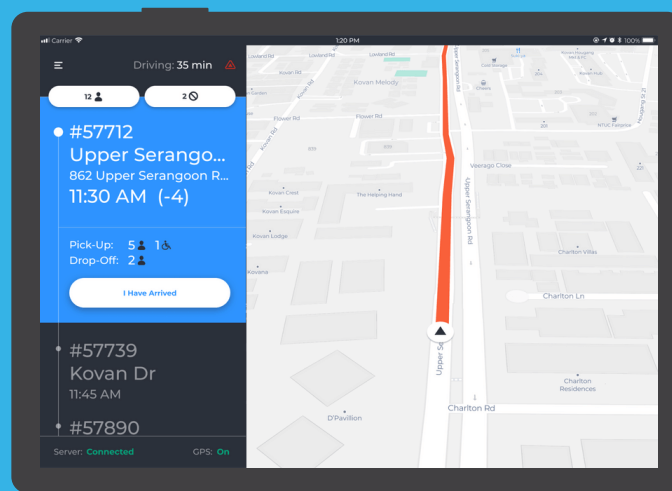
Search by Vehicle Number and Driver All Vehicles With Route Assigned

Veh. ID	Created	Start	End	SR	Current	Completed	Missed	Cancelled	Aborted	Driver/Zone	Veh. No.	Allow new Bookings	Veh. State	Updated
1	17:05	23:15	07:45	0	0	0	0	0	0	A1009 (All Zones)	A1009	<input checked="" type="checkbox"/>	Idle	17:05
2	17:05	23:15	07:45	0	0	0	0	0	0	A1008 (All Zones)	A1008	<input checked="" type="checkbox"/>	Idle	17:05
3	17:05	23:15	07:45	0	0	0	0	0	0	A1007 (All Zones)	A1007	<input checked="" type="checkbox"/>	Idle	17:05
4	17:05	23:15	07:45	0	0	0	0	0	0	A1006 (All Zones)	A1006	<input checked="" type="checkbox"/>	Idle	17:05

PASSENGER APP:
EMPOWERING
COMMUTERS



FLEET OPERATOR:
STREAMLINE
OPERATIONS



DRIVER APP:
SEAMLESS
NAVIGATION

ABOUT OTONOMO

Otonomo (NASDAQ: OTMO), the platform powering the mobility economy, is igniting a new generation of mobility experiences and services. With Otonomo, over 100 providers in the transportation, mobility, insurance, and automotive industries are finally able to harness mobility data and insights and transform them into strategic assets and market advantages.

Our partners gain access to the broadest, most diverse, range of data from connected vehicles, mobile phones, public transport, EV infrastructure, and MaaS with just one contract and one API. Vehicle and multimodal mobility data is reshaped and enriched to provide deep visibility and actionable insights and empower planning, deployment, and operations.

Architected with privacy and security by design our platform is GDPR, CCPA, and other privacy regulation compliant, ensuring all parties are protected and companies remain privacy compliant across geographies worldwide.

Otonomo has an R&D center in Israel and a presence in the United States and Europe.

More information is available at otonomo.io

ABOUT SWAT MOBILITY

SWAT Mobility (SWAT) is a Singapore-based smart mobility solution firm that provides demand-responsive and ride-sharing technology in high-capacity vehicles. With the belief that efficient transport is a fundamental right, SWAT endeavours to use its core mobility engine to improve the way people commute, ease congestion, and improve their quality of life.

Founded in 2016, SWAT has completed over 2 million dynamically routed rides worldwide for commuters. The firm's solutions are used by clients across Asia Pacific, including Sumitomo Corporation, Toyota Corporation, Transportation for New South Wales and Sembcorp Marine. Since its inception, the firm has garnered more than US\$12 million in funding from investors such as the ComfortDelGro Ventures, Goldbell Group, iGlobe Partners, Singapore Economic Development Board (EDB) Investments, EDB New Ventures, SMRT Momentum Ventures and the University of Tokyo Edge Capital (UTEC).

The company is headquartered in Singapore, with operations across seven markets including Australia, Indonesia, Japan, the Philippines, Thailand and Vietnam.

More information is available at swatmobility.com