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## About **TATAWWAR**

Tatawwar global Information Technology is a specialized company in developing software and solutions for small and medium enterprises as well as large corporations. Among these systems is the TMT GPS Vehicle Tracking and Transportation Solutions, developed after extensive research and study of the transportation sector worldwide. The system was designed to meet market demands and requirements, evolving over several years through the efforts of our dedicated team, which continuously delivers the latest global technology to enhance transportation solutions in our region.

## "Leadership in smart business solutions since 2012."





"Since our launch in 2012, we have been evolving and setting new standards in the fields of digital transformation and IoT solutions. Thanks to our commitment to quality and innovation, we have received accreditations from leading organizations and various government entities, earning the trust of thousands of clients who rely on us to achieve their smart vision. We are here to provide you with a connected and secure future with the latest technologies."



### **OUR VALUES**







#### Integrated Planning

We are pioneers in product development, utilizing the latest technologies and methods to ensure we deliver innovative products that meet customer expectations.



#### Efficiency and Economy

Enjoy streamlined operations and significant savings.



#### Excellence

With our extensive experience in software, we provide you with innovative and effective solutions. We are leaders in this field and are committed to always delivering the best for you.



Customer satisfaction is our primary and ultimate goal. Therefore, we work hard to provide the best and most efficient services.





#### **OUR GOALS** Innovation and Excellence at Every Step



#### Supporting Saudi Arabia's Vision 2030

At tatawwar, we strive to actively contribute to achieving Saudi Arabia's Vision 2030 by embracing innovation and modern technology.



#### **Supporting Digital Transformation**

We are committed to driving digital transformation in the Kingdom and supporting institutions and individuals on their journey toward digitization.



#### Towards a Safer Environment

At tatawwar, we place sustainability at the heart of everything we do. We work to provide technological solutions that help reduce environmental impact and promote optimal resource use.

### **OUR VISION**

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- Providing advanced solutions for vehicle and asset location tracking in the Kingdom, enhancing operational performance and ensuring road safety through the latest technologies and innovative solutions.
- Keeping pace with the qualitative mobility in the transportation and logistics sector in the Kingdom by offering integrated and smart solutions for vehicle tracking and asset management, enabling partners to make sound decisions and maximize the benefits of their resources.
- Improving fleet performance and significantly reducing costs through Tatawwar platform, real-time fleet monitoring, data analysis for valuable insights, and making informed decisions to enhance operational efficiency.

## **Technology Solutions**





We are a company specialized in fleet management and governance solutions of all types. We offer comprehensive services for technical integration with platforms, government entities, and the private sector. Additionally, we provide innovative systems for equipping vehicles with advanced tracking systems and integrated technological solutions.



## **Tracking Systems**





#### Multiple Navigation Systems

The device supports several global navigation systems, including GPS, GLONASS, and Beidou.



#### Remote Software Updates

This ensures you have access to the latest features and bug fixes.





#### **High Accuracy**

The device uses an advanced Qualcomm GPS chip.

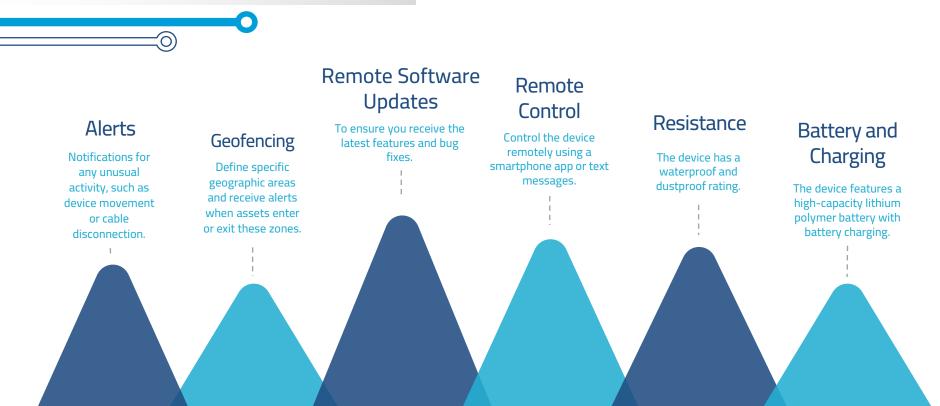


#### Fast Response

It excels in location determination even in challenging conditions.

## Features and Functions of Tracking Systems





## Fleet Tracking and Management Platform TMT GPS





### Accurate Reports and Analytics

Detailed data for analyzing fleet performance, improving efficiency, and reducing costs

#### Improving Customer Service

Providing more accurate delivery times and real-time updates

### Enhancing Safety

Addressing excessive speed or improper use reduces potential accidents

#### Reducing Fuel and Maintenance Costs

Tracking driver behavior, including speeding, sudden acceleration, and hard braking

#### Improving Operational Efficiency

The platform allows real-time tracking of vehicle locations and their status

#### Reducing theft and improving emergency response times

Locating vehicles in the event of theft and providing accurate information about incidents

#### Driver Management

Monitoring driver performance and providing tailored training programs to improve their performance

#### Compliance with Government Regulations

Providing detailed reports on each vehicle and its condition

### Increasing Productivity

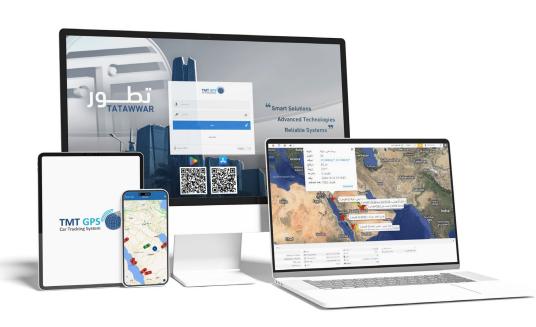
Improving the use of resources and vehicles through the analysis of reports and data provided by the platform

#### Cargo Management

Tracking cargo and its status, and accurately monitoring weights

#### **TMT GPS Features**





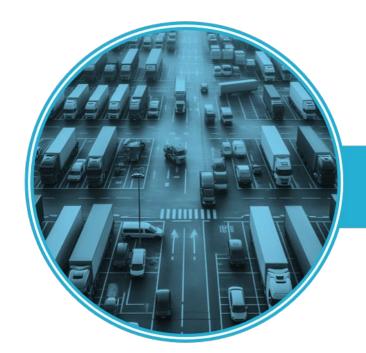
• The TMT GPS tracking system includes features for managing all aspects of the vehicle fleet and monitoring driver performance, routes, cargo, maintenance, planning, safety, and fuel. These features enable managers and drivers to achieve optimal performance in fleet management and monitoring, reducing losses and positioning the company for business growth.

### **Company Activities**





- Supply and installation of vehicle tracking devices from 175 manufacturers worldwide.
- Technical integration with all platforms and government and private sector entities.
- Provision of alternative communication systems for data transmission via satellites, which operate automatically in the event of cellular or data network coverage interruption.



## **Bus Preparation**



- Screen Systems: Installation of main screens to display the route and driver information or any content required by the transport authority.
- Sub-screens and Signage: Installation of sub-screens inside the bus to display information for passengers and guidance instructions during the journey.



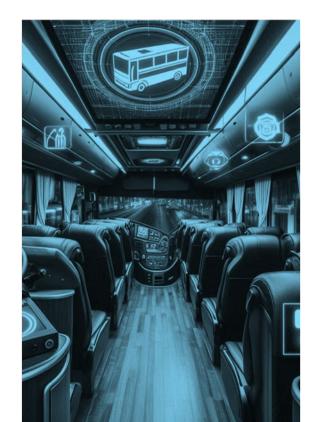








- Cameras and Video Systems: Installation of MDVR video recording devices and internal and external surveillance cameras.
- Safety Systems: Providing advanced
  technologies such as DMS for monitoring driver
  behavior and compliance with safe driving
  regulations, ADAS for secure vehicle operation,
  and BSD for blind spot detection and early
  warning to prevent accidents.



#### **Bus Card Reader**

It is a device used in public transportation systems to verify passenger cards, such as RFID, NFC, or QR Code cards. This device allows passengers to check in or make payments easily when boarding the bus, helping to improve passenger flow during payment processes. The device is suitable for transit systems that rely on smart cards or electronic ticketing solutions to monitor and manage passengers.



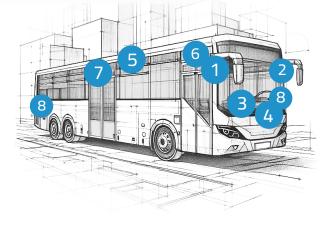
## **Bus Preparation**



















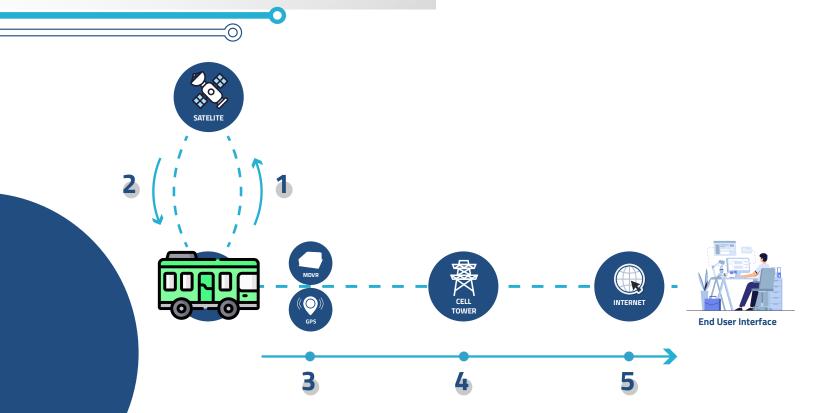






# Operational Mechanism for Bus Solutions





## **Truck Preparation**



- Weight Sensors: Installing weight sensors on trucks to accurately monitor their load, whether with mechanical or air suspension. This helps in understanding and improving load management and reducing operational risks.
- Surround Camera Systems: External cameras
   providing full visibility around the truck to ensure safe
   operation and loading.
- **Trailer Sensor:** Identifies the trailer to be connected and determines if it is approved for connection or not.







 Advanced Control and Tracking Systems: Tracking the load and its condition, ensuring that operations comply with government regulations.

• **Night Vision Systems:** Night vision cameras to ensure safe operation in low-light environments.

## **Truck Preparation**















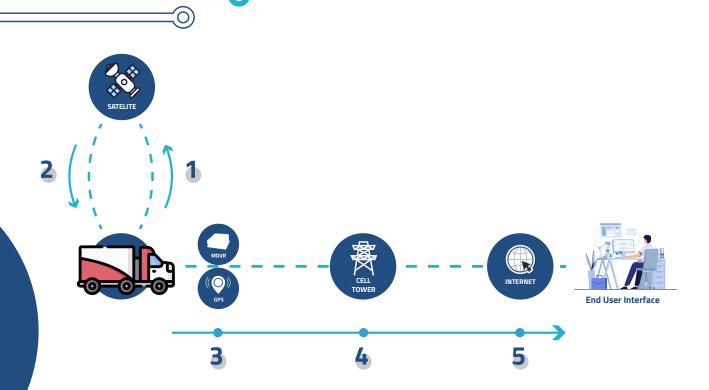






# Operational Mechanism for Truck Solutions





### **Taxi Preparation**

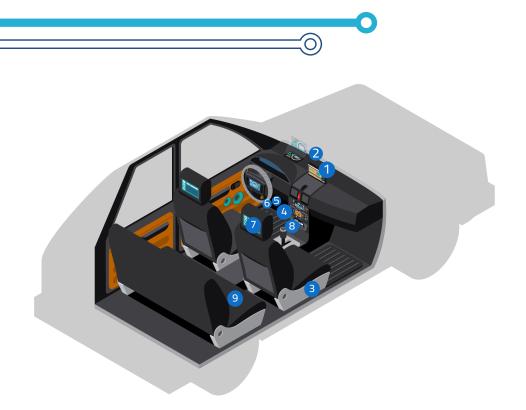
- Equipping taxis with MDT screens licensed by OIML to display road information, speed, and distance.
- Installing an electronic payment system to facilitate payment for passengers.
- Activating a driver recognition system and trip logging







### **Taxi Preparation**















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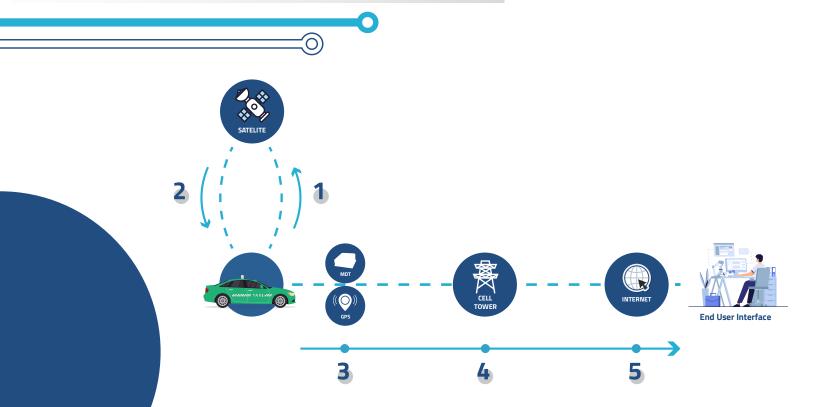






# Operational Mechanism for Taxi Solutions









## **Waste Management**

- Equipping waste containers with sensors to monitor fill levels and ensure automated emptying processes.
- Installing smart cameras connected to a waste management platform to facilitate operation monitoring and ensure containers are emptied on schedule.
- Installing sensors to monitor waste compaction processes within the equipment.
- Installing readers to track the emptying of construction and demolition containers







## **Waste Management Preparation**













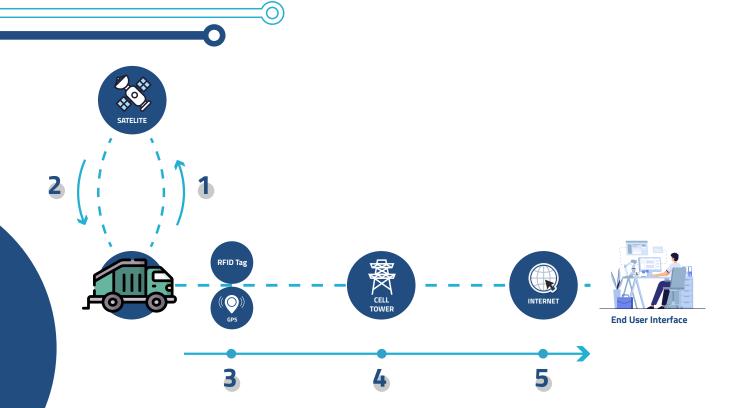






# Operational Mechanism for Waste Management





# Temperature and Humidity Monitoring

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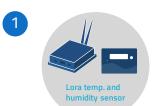
- environmental conditions of temperature and humidity within fixed and mobile assets.
- Precise tracking systems for assets to ensure damage reduction operations



# Temperature and Humidity Monitoring Solution Devices





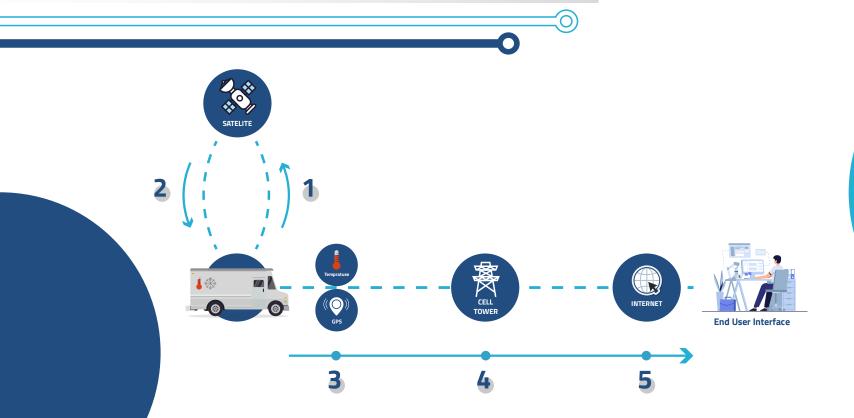






## Operational Mechanism for Temperature and Humidity Sensors





### **Asset Tracking Devices**



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These are advanced, long-lasting solar-powered devices designed to track and secure valuable assets such as containers, trailers, and equipment. They support various communication technologies such as Bluetooth, 4G, and Wi-Fi, along with a wide range of features that make it a comprehensive solution for protecting your assets.



Frequency Ranges

The device supports a wide range of frequency bands



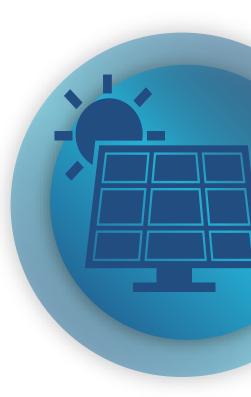
Network and Operation

Supports all changing operating conditions



Compatibility with 4G Networks

The device supports 4G networks, ensuring wide coverage and high data transfer speeds























#### **How the System Works:**

Due to various challenges faced by fuel transport companies, we have provided an automated valve that can be controlled remotely or automatically for opening and closing, ensuring that fuel quantities reach the designated geographic area for stations without any loss or tampering.

- It is used to accurately determine the location of the truck.
- The valve opens automatically upon reaching the authorized location (Geo-fencing).

## **System Components:**



#### •Geographic System:

- Defines the authorized locations for unloading.
- The valve opens when the truck enters the permitted area.

#### Smart Valves:

- Equipped with motors for remote control.
- They receive commands from the central system based on the truck's location.







## Security Features:

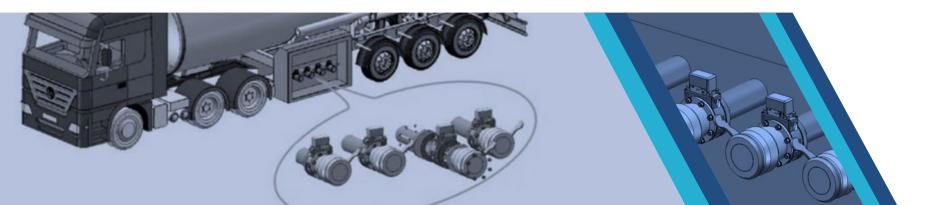
- Includes the use of RFID/NFC for identity verification.
  - Valves automatically close in case of a malfunction.

## Central Control System:

- Monitors the location of trucks and collects operational data.
- Provides detailed reports on loading and unloading operations.

## Integration with Systems: RFID/NFC

- For verifying the identity of the truck authorized for unloading.
- The valve can automatically lock when leaving the site.



## Technological Solution Devices for Controlling Truck Filling Valves





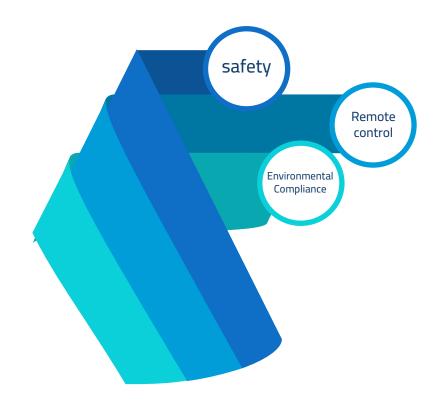




#### **System Advantages:**

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- **Safety:** Prevents unauthorized unloading.
- Remote Control: Effective centralized monitoring.
- **Environmental Compliance:** Utilizes technologies to ensure standards.



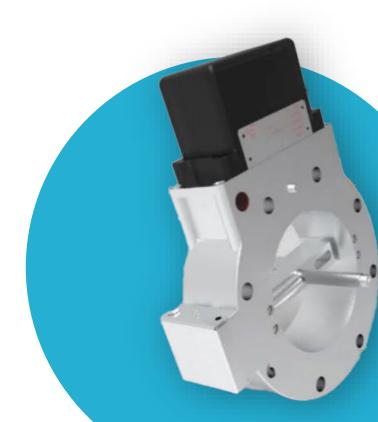
#### **Product Description**

**Smart Valve** 



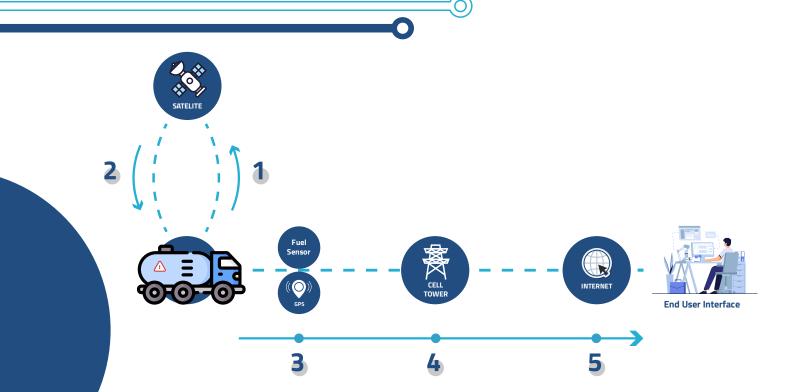
• **Communication:** Connects to the main lock for data transmission and control.





### Operational Mechanism for Fuel Truck Loading and Unloading





### Concrete Mixer Tracking Solutions

A solution is provided to monitor the quality of concrete and ensure it reaches the site efficiently, as well as to monitor the vehicle's operation from the time the concrete leaves the factory until it reaches the client

 Mixers are equipped with a tracking device, a sensor for water quantity, and another sensor to monitor the number of mixer rotations to ensure that the concrete components are transported according to the required standards





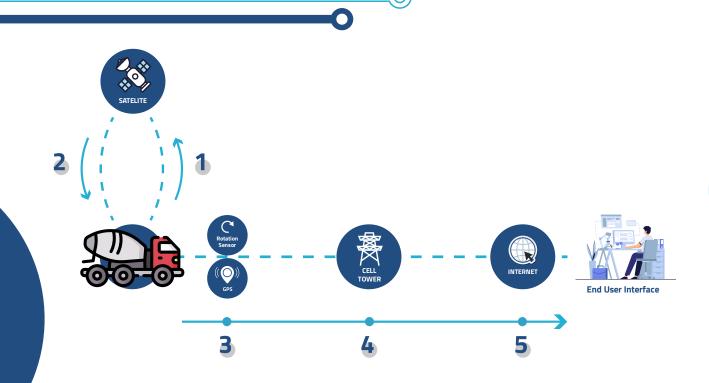
#### **Concrete Mixer Monitoring Devices**





### Operational Mechanism for Monitoring Concrete Mixers





### Individual Tracking Bracelet Solutions

- Precise Electronic Monitoring.
- A tracking device designed for monitoring low-risk individuals under electronic surveillance.
- An attractive option for those with limited budgets.
- Comfort.
- Accuracy.
- The individual tracking device relies on GPS and LBS technology to accurately determine the location of the person wearing it.



#### **Key Features**

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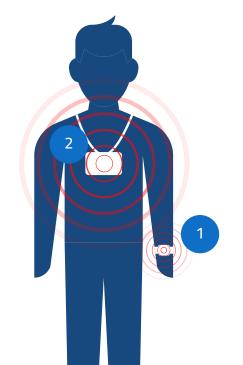
- Real-time GPS tracking.
- Safe and restricted areas.
- Voice identity verification.
- Alerts.
- Safety.
- Made from durable and tamper-resistant materials.
- · Removal detection.



## Individual Tracking Solutions Individual Bracelet Tracking Setup

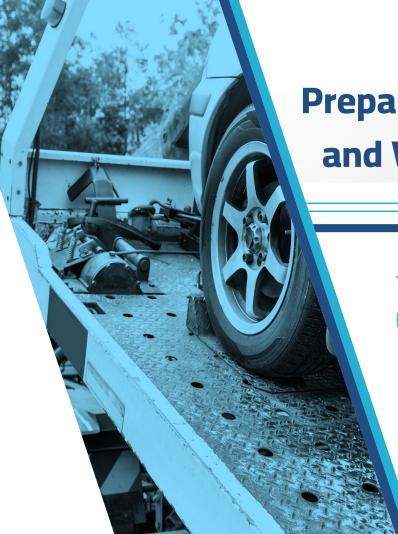














## Preparation for Towing and Vehicle Transport

The solution facilitates the connection between permitted trailers and trucks.

#### **Features:**

- Tracking Device
- Weight Sensor

#### **Preparation for Towing and Vehicle Transport**







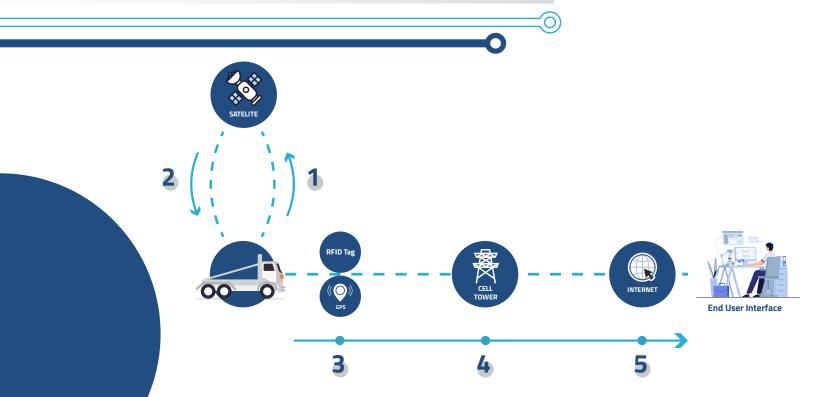






### Operational Mechanism for Towing and Vehicle Transport











### **Money Transport and Banking Solutions**

Providing security solutions that assist money transport companies in securing assets

- MDVR: Video storage unit.
- Cameras: Internal and external for monitoring, tracking, and recording events in real-time.
- SOS Button: Alert button for emergency situations.
- Portable Tracking Devices: Placed inside money bags to ensure the funds reach their final destination.

### **Preparation for Money Transport and Banks**



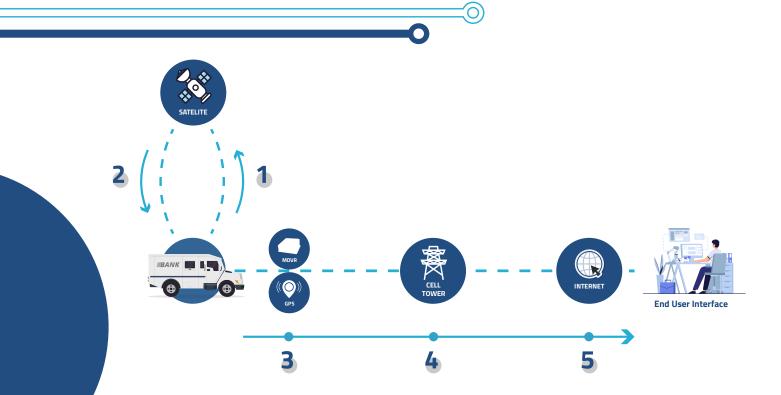






### Operational Mechanism for Money Transport and Banks









### **Emergency and Ambulance Transport Solutions**

A solution has been provided for continuous monitoring of ambulance locations to ensure operational efficiency and the safety of drivers and vehicles.





#### **Features**



- Real-Time Location Tracking.
- Monitoring Vehicle and Road Conditions.
- Operational Efficiency and Safety of Drivers and Vehicles.
- Secure Patient Data Transmission.
- Emergency Case Management.
- Smart Alert System.
- Data Security.
- Comprehensive Reporting.

## Preparation for Emergency and Ambulance Transport

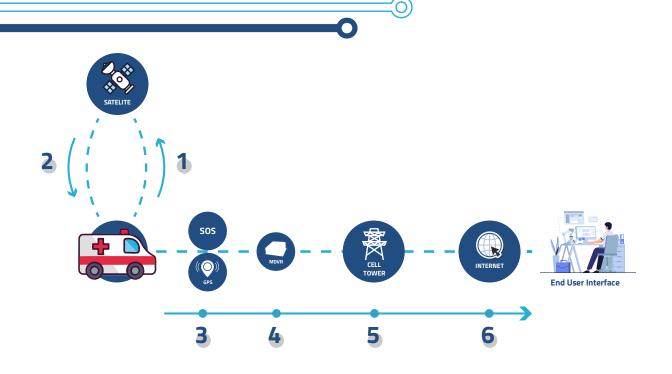






## Operational Mechanism for Emergency and Ambulance Transport





### Truck Proximity Warning System Solution



The PWAS system is a technology-based assistance system designed to improve safety levels around heavy or large vehicles

#### **Features**

- Side, Front, and Rear Cameras
- Blind Spot Monitoring
- Driver Alerts
- Integrated Display
- Accident Reduction
- Increased Safety
- Continuous Monitoring

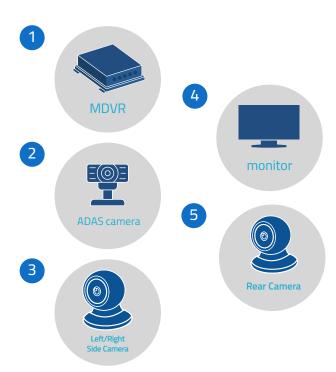


### Preparing a Truck Proximity Warning System Solution



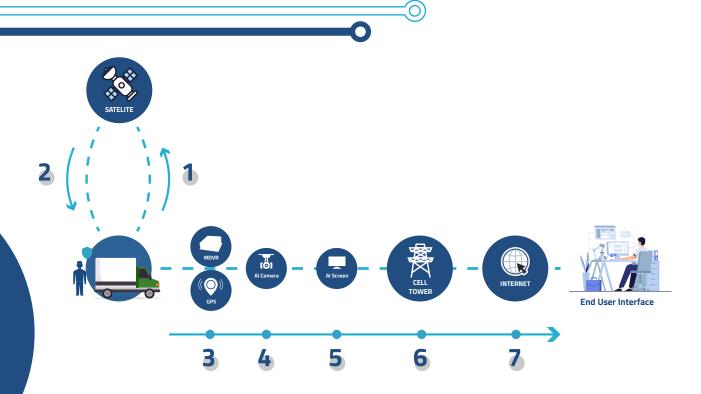






## Mechanism of Operation Truck Proximity Warning System Solution



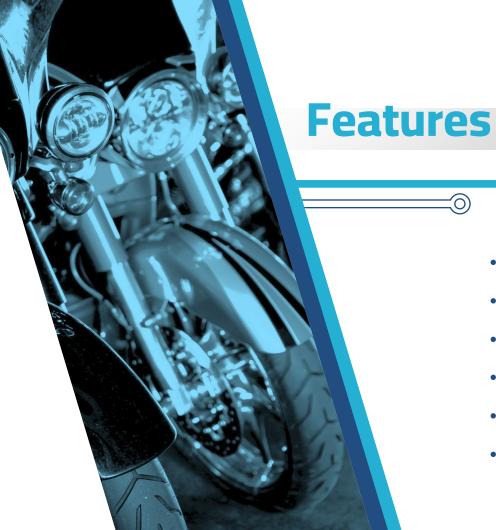








These solutions offer a wide range of features that can help companies and individuals manage motorcycle fleets more efficiently and safely. By combining advanced tracking devices and powerful software platforms, these solutions can help improve fleet performance, reduce costs, and increase profits.







- Main tracking device.
- Additional sensors.
- User interface.
- Data analysis.
- Remote control.
- Provision of smart helmets for recording

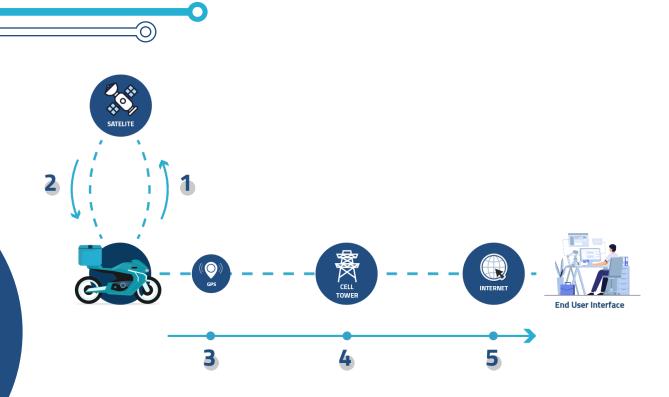
## Motorcycle Fleet Management Setup





### Mechanism of Operation Motorcycle Fleet Management Solution





#### **Car Sharing Solutions**

This solution offers car rental companies the ability to share vehicles with individuals, allowing the rental process to be completed from the last parked location without needing to visit a branch, while monitoring the vehicle remotely by the rental company.









#### **Features**

- Remote control devices for unlocking and locking the car without keys.
- Real-time vehicle tracking.
- Defining safe and restricted zones.
- Ability to remotely control the car doors (open/close).
- Ability to remotely stop the vehicle.

### Car Sharing Installation Devices













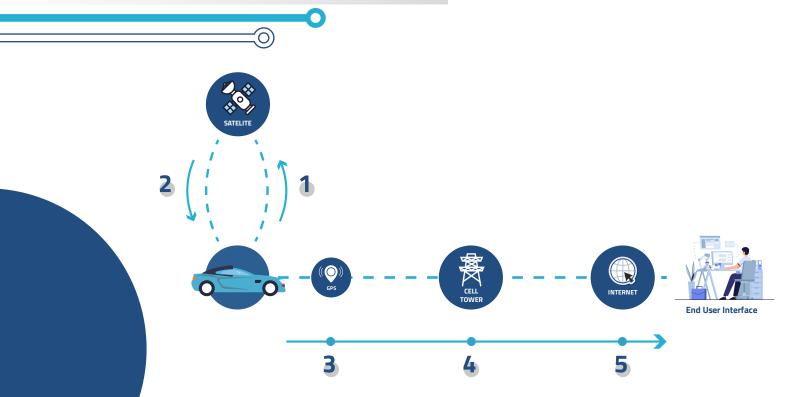






### Mechanism of Operation Car Sharing Solution





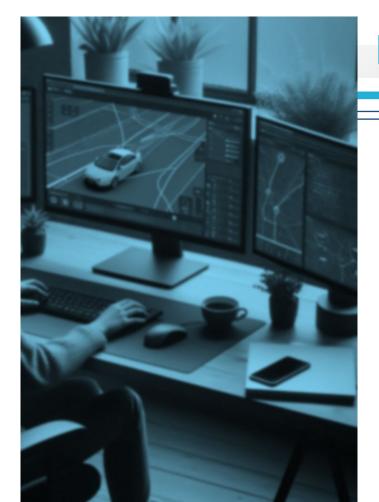
### Car Rental Company Solutions

This solution allows car rental companies to track and manage their fleet efficiently through the use of advanced tracking devices, which helps improve operations, monitor vehicle movements, and provide an exceptional customer experience by accurately pinpointing locations and protecting vehicles from theft or misuse.









#### **Features**

- Contract and Customer Management: Track the timeline for each rental contract (start and end of rental period) and link the vehicle directly to the active contract.
- Remote Control: The ability to remotely lock and unlock vehicles using smartphone apps or integrated systems.
- Driver Behavior and Usage Monitoring: Record speed, harsh braking, sudden acceleration, and sharp turns.
- Vehicle Security: Monitor vehicle stop locations and alert management if the vehicle exits predefined zones for added protection.
- Integrated Contract Management Systems: Follow up on contracts and notify management when the rental period is about to expire.

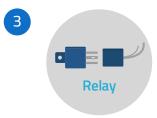
#### **Car Rental Preparation**





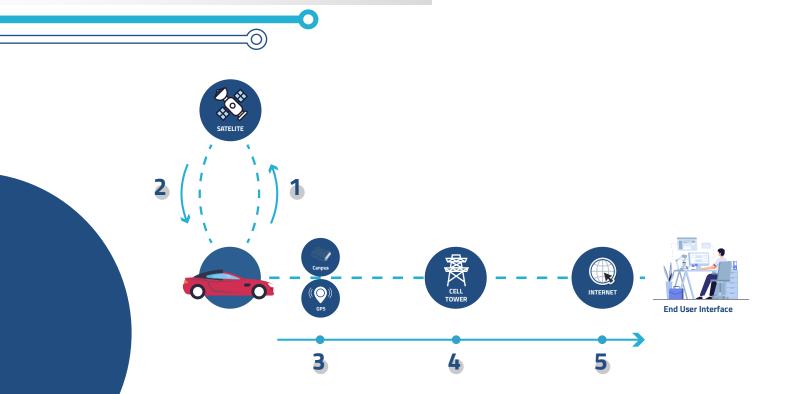






### Operational Mechanism for Car Rentals





# Equipment Management and Monitoring Solutions for Movement and Excavation Works

With this integrated solution, operators and fleet managers can track all details related to the safety and performance of heavy machinery, while simultaneously improving productivity.

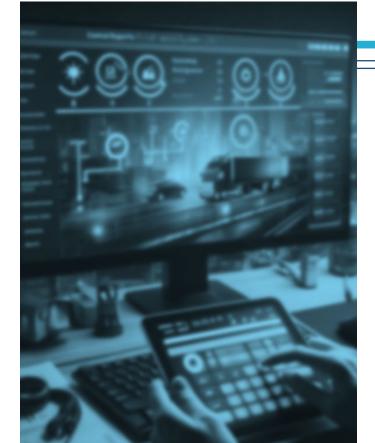
#### **Features**

- Real-Time Location Tracking: Accurately determine the location of equipment to avoid loss.
- Equipment Condition Monitoring: Use sensors to monitor the status of the engine, battery, and oil pressure.





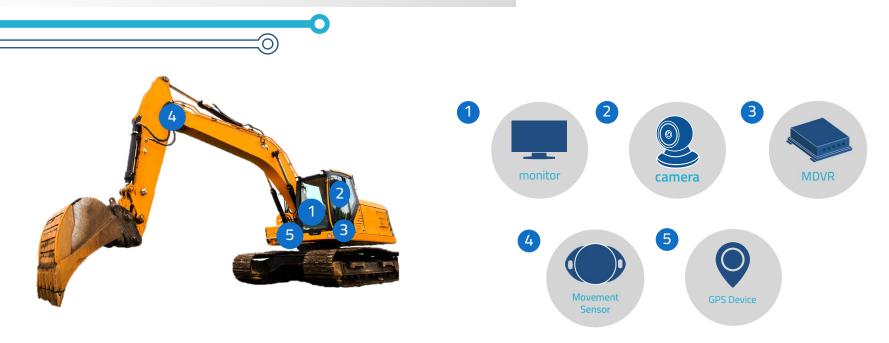




- Preventive Maintenance Alerts: Reminders for regular maintenance based on operating hours or equipment condition.
- Fuel Consumption: Precise monitoring of fuel consumption to reduce waste
- Data Transmission and Reporting: Comprehensive reports on equipment performance and operating times.
- Equipment Operating Time Awareness: Monitor performance using motion or pressure sensors to ensure required tasks are performed
- Integration with Other Systems: Link solutions with asset management systems for data analysis.
- Continuous Technical Support: Maintenance and technical support available 24/7

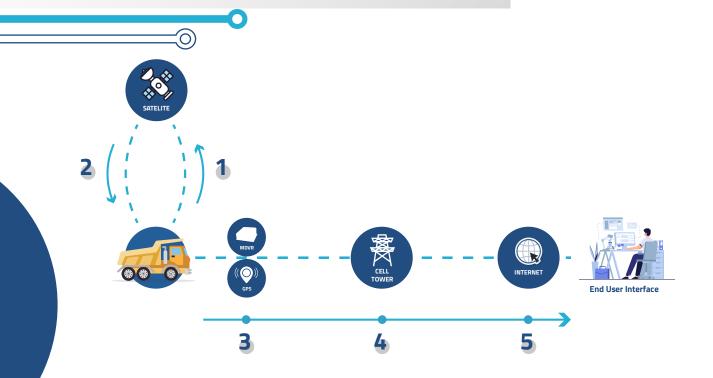
# Preparation for Equipment Management and Monitoring of Movement and Excavation Works





# Operational Mechanism for Equipment Management and Monitoring of Movement and Excavation Works









#### Our expert team at tatawwar



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Our success and partnerships are driven by our expert team, whose combined skills and experience enable us to deliver innovative solutions that meet our clients needs and contribute to our shared vision



#### Continuous Development

Constantly acquiring new skills and expertise to enhance our work.



#### Creative Thinking

Innovating with unconventional solutions to save time, effort, and costs.



#### Customer Communication

Engaging with customers and valuing their feedback to achieve their goals.



#### Collaboration

Working together to create customized solutions for our clients.

### Level of post-sale technical and support services.







Provision of all remote configuration and upgrade services for all devices.

**Customer Service** 



Commitment to respond to service requests within one business day.

Field Operations Support



Availability of 15 branches across the kingdom to offer support and maintenance services.

**Customer Support** 



Training sessions with the option to record the training for presentation to other employees in the company.

#### **After-Sales Services**





- Authorized distributors for 175 manufacturers worldwide.
- Two-year device replacement warranty.
- Free maintenance throughout the subscription period.
- Installation of the device by a specialized vehicle electrician.
- Customer training on how to use the system.
- System protection against hacking or internet attacks.
- 24/7 technical support service available in all cities across the Kingdom.
- High-speed M2M SIM cards to ensure fast data transmission.
- Providing technical integration services with other software and systems.



#### Licensed by





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