wialon

Ultimate platform for
GPS tracking and IoT

SYSTEM
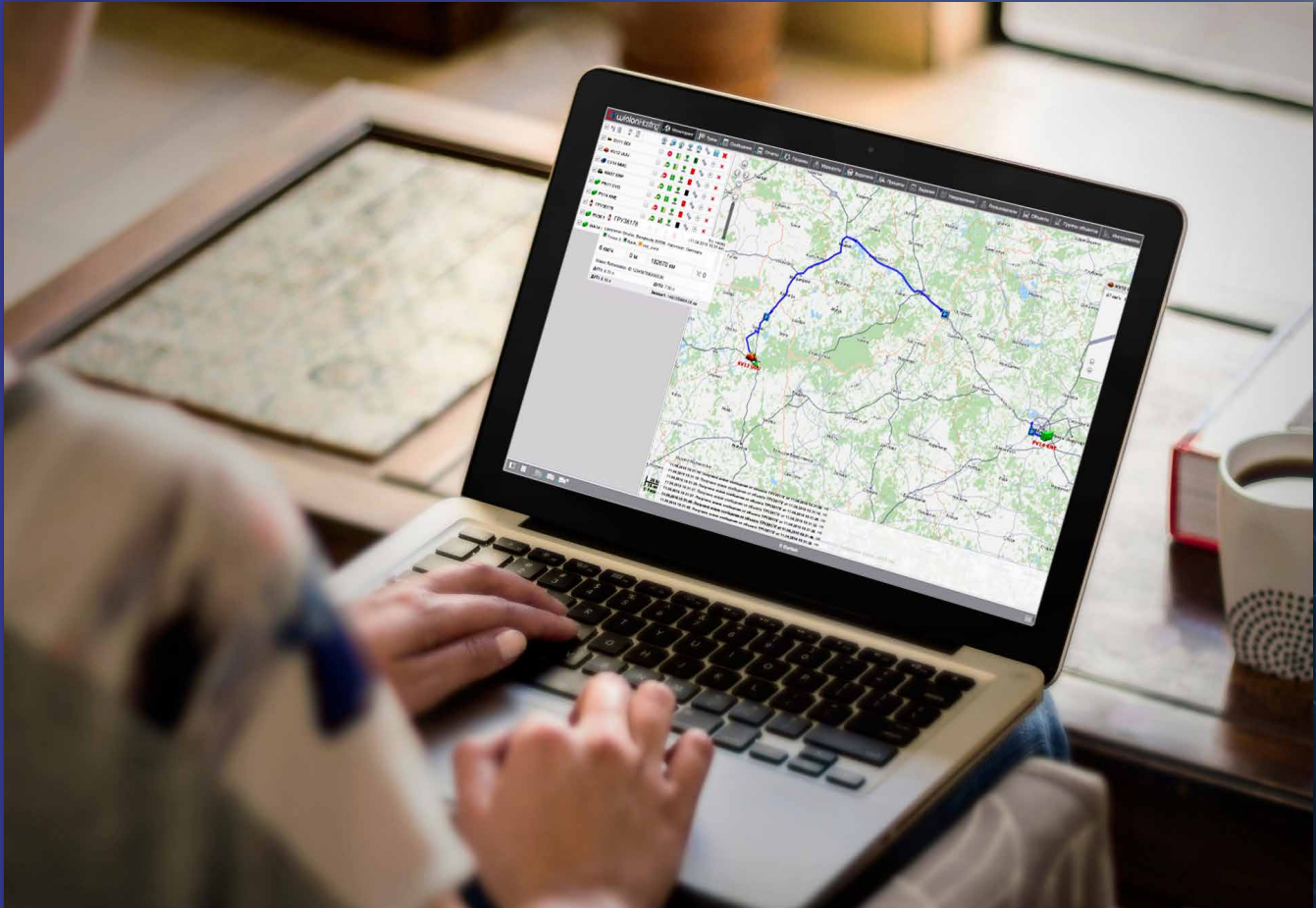# OVERVIEW

GURTAM
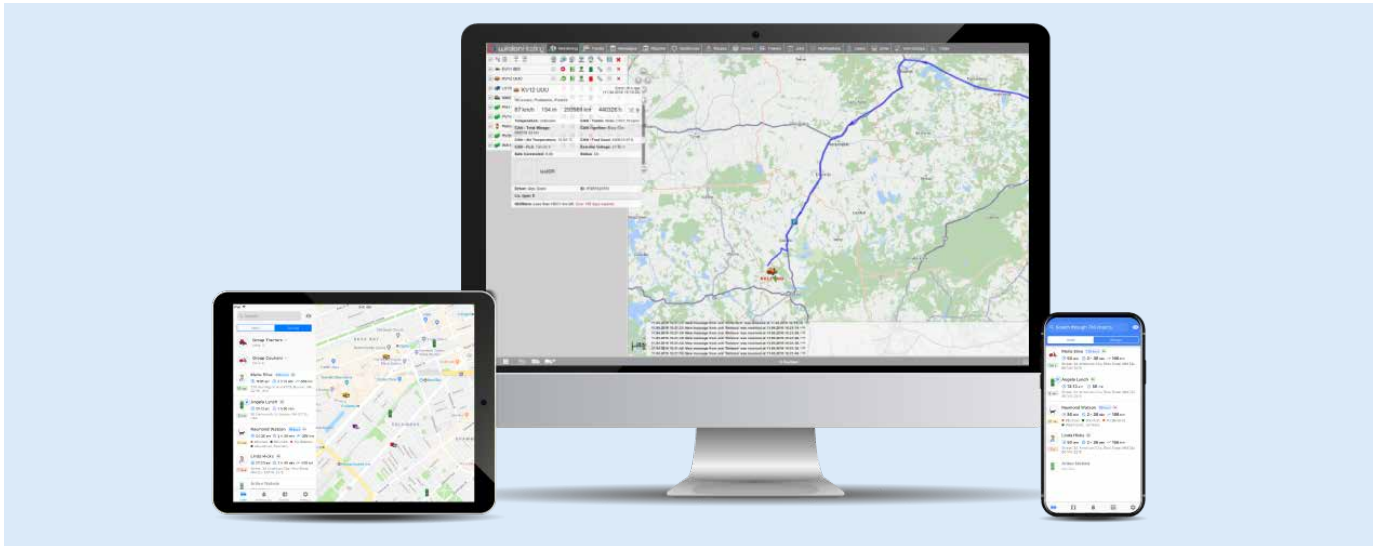
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Content

WIALON: THE PLATFORM FOR GPS TRACKING AND IOT

Wialon: the ultimate solution for intelligent GPS tracking and fleet management

Companies in 150+ countries choose Wialon to track 3 million assets worldwide. You can instantly start using the system with almost any type of AVL hardware, personal, asset, satellite trackers, and various MDVRs. The universal platform goes beyond simple monitoring and allows you to launch tracking in remote areas with satellite communication option and benefit from sophisticated video monitoring solutions.

Wialon promotes advanced security, ensures precise location detection and total visibility into the performance of your assets through real-time monitoring, powerful analytics, alert and notification system allowing for early response to any emergencies.

Wialon: the ultimate solution for intelligent GPS tracking and fleet management

SCOPE OF APPLICATION

- Fleet management
- Video surveillance
- Cold chain transportation
- Driver behavior monitoring
- Staff monitoring
- Fuel consumption control
- Scheduled transport
- Delivery monitoring
- Hazardous goods

SYSTEM FUNCTIONALITY

- GPS/LBS location detection
- Alert and notification system
- In/out geofence control
- Fuel consumption/fillings/thefts reports
- Video telematics solution
- CAN bus data reading
- Route optimization/management
- Flexible report-building tools
- Data capture from sensors, counters, RFID readers, etc.

wialon

WIALON DASHBOARD:
A PERFECT TOOL FOR DATA ANALYSIS AND VISUALIZATION
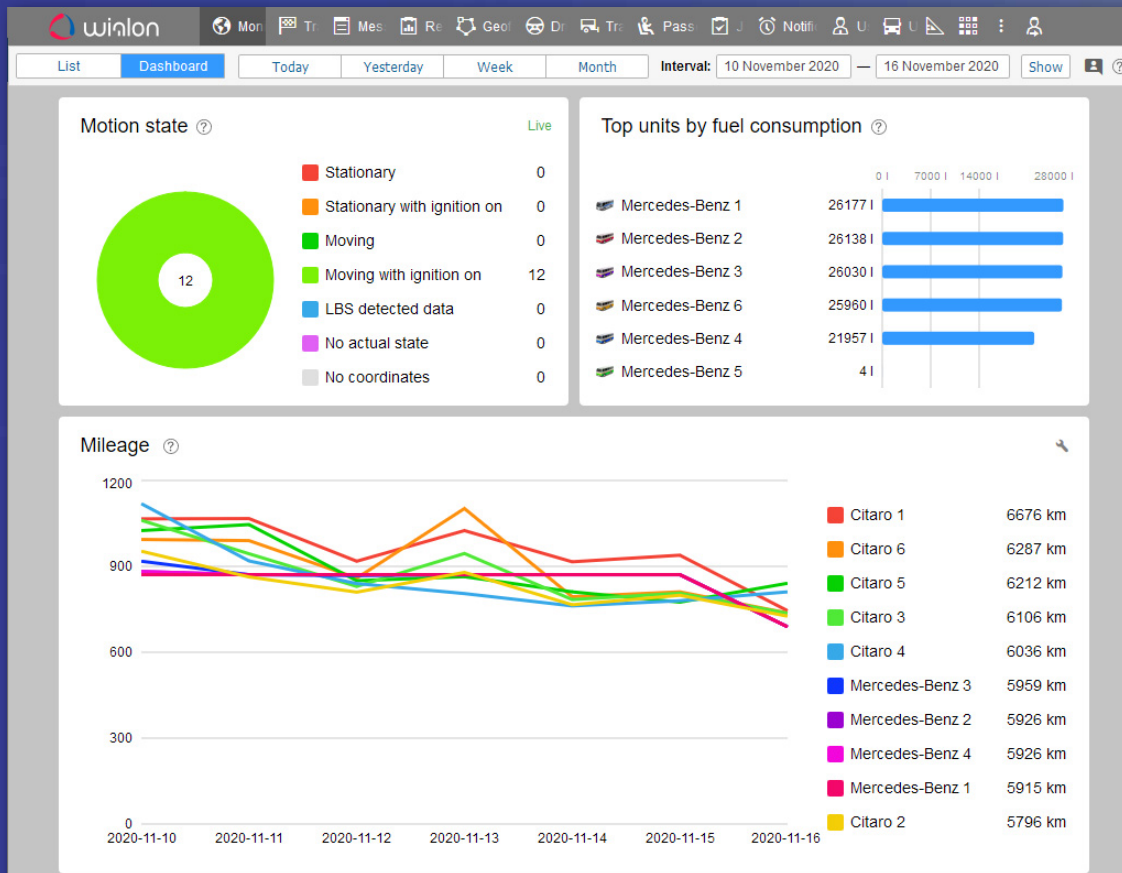
Wialon Dashboard: a perfect tool for data analysis and visualization

Fleet performance evaluation is based on mileage, fuel consumption, engine hours, and other indicators.

Wialon offers the Dashboard – a universal tool for quick, easy data at hand for day-to-day fleet control and analysis.

Browse through vivid blocks displaying the data on:

- Connection state
- Motion state
- Top units by fuel consumption
- Top units by mileage
- Geofences
- Mileage
- Notifications
- Fuel consumed by FLS
- Speedings

Configure and fune-tune the blocks to display only the data you need right now, choosing the units, types of blocks, and time periods you'd like to analyse the info for.

No matter how diverse and complicated the data is, Dashboard makes it simple and perceptible both for novice users and top managers.

VIDEO TELEMATICS:
REAL-TIME AND EVENT-BASED VIDEO MONITORING

WIALON BRINGS TOGETHER SATELLITE MONITORING AND VIDEO SURVEILLANCE IN ONE PLATFORM

Feature-rich Wialon system, combined with MDVRs functionality, allows you to watch the assets and the events on the way with your own eyes.

Accurate unbiased video records enable precise incident analysis which in the end leads to reduced accident rates, increased fuel economy, improved road safety, and enhanced smart insurance practices.

FEATURES:

- Video playback and livestream
- View accident videos right from the reports
- Easy setup and configuration
- Automatic and manual saving of video clips
- A video player
- A complete toolset for work with video broadcasting and video files
- Convenient to search through the clips catalog with tags

Wialon and CMSv6 integration

- Time-saving service
- Live stream
- Video playback
- Video downloading
- Picture snapshots

ADVANCED REPORTS:
POWERFUL ANALYTICS IN WIALON
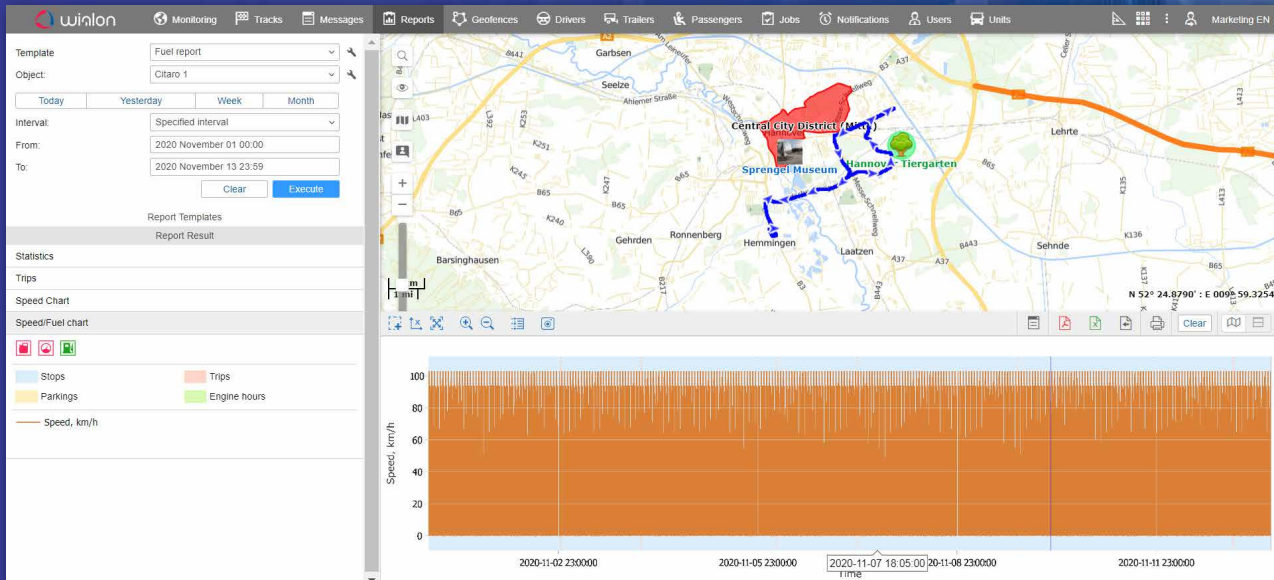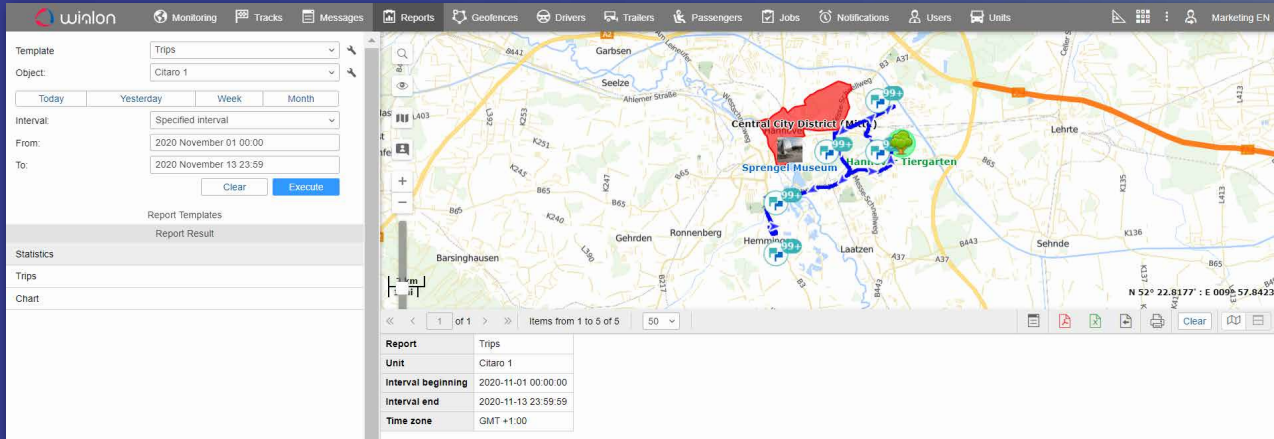
Reports are used to analyze and present information on unit activity in handy tables and charts. The system allows creating flexible report templates, viewing reports in a browser, exporting them to files in various formats, and sending by e-mail.

- **Report queries**
  Study reports online, get scheduled and event-based reports or execute them in one click from the monitoring panel

- **Handy data management**
  Use multi-level grouping, sorting, detalization mode, interval filtration, and time limitations for data display

- **Informative charts**
  Study charts with auto-scaling, zoom, single/multiple axes view, message points tracing; add backgrounds, event markers, and different line colors
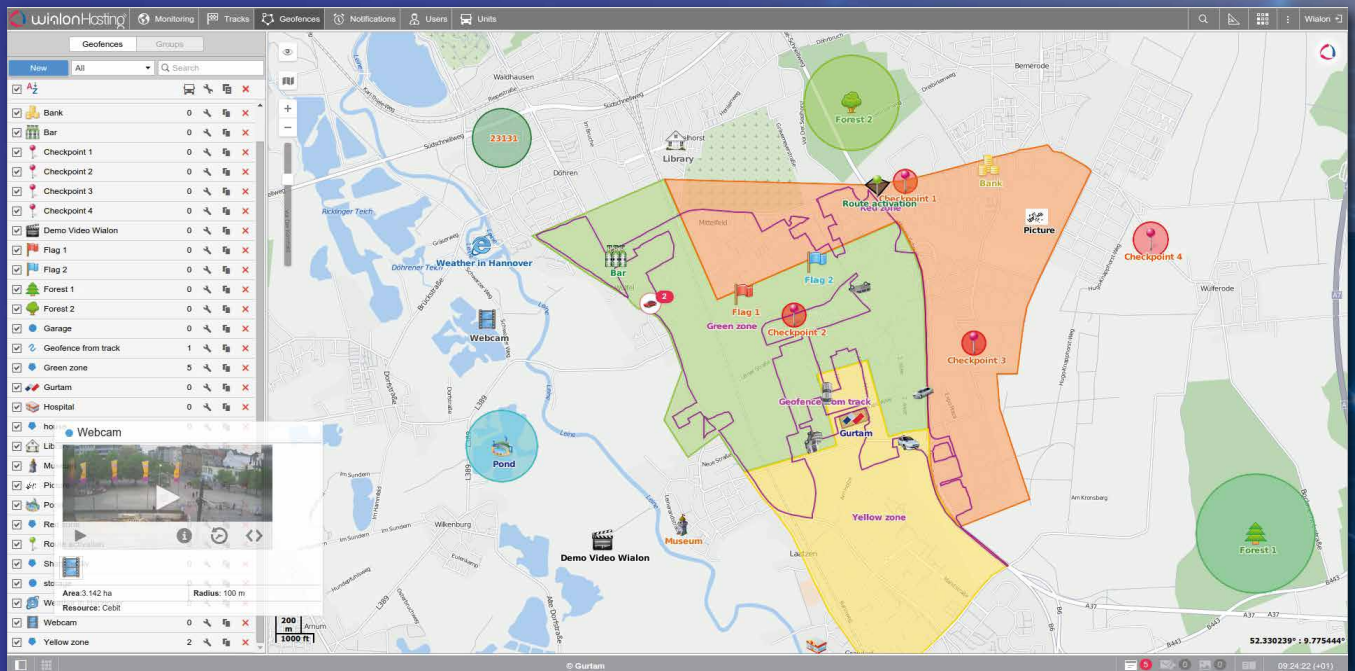
- **Mapping options**
  Take advantage of a scalable map featuring event markers, geofences, units, and tracks with the option to attach it to a report

- **Extended information**
  Complement reports with precise addresses, statistics, and data on 300+ monitoring parameters

GEOFENCES AND NOTIFICATIONS:
CONTROL EVERY ASPECT OF UNIT PERFORMANCE IN/OUTSIDE THE SPECIFIED AREA

1. GEOFENCES

Create any number of geofences of various shapes, colors, and sizes to restrict unit movements, prevent vehicle thefts, and control its activities within a specified area.

- **Control** unit performance inside or outside geofences, including speed limit violations, sensor value variations, and access to vehicles
- **Use** geofences as addresses in reports and tooltips whenever precise address information is missing or control route performance by using geofences as checkpoints
- **Benefit** from dynamically updated images, screenshots, and other information bound to geofences
- **Be notified** on any events taking place within geofences

2. NOTIFICATIONS

Receive email, SMS or pop-up notifications if a certain event occurs (e.g. violations, alarm button activation, sensor value variations, connection loss, idling, etc.).

- Use the information from notifications to trigger certain processes in the system, for instance, sending messages to a driver, executing a command, emailing reports
- Inform users about the unit activity via adjusting online notifications
- Notify users by email, sms, Telegram
- Enable web push notifications to view a notification from any tab of browser, or when the browser is minimized

Tracks and minimaps: extended information on units and routes

Tracks: create tracks to display unit movements on the map and get quick access to unit activity data via event markers. Track Player app makes it easier to simultaneously follow several units on the map, analyze tracks and timeline events in a handy interface.

Minimaps: use minimaps to instantly access extended unit information, current location, speed, and address or follow units with Google Street View.
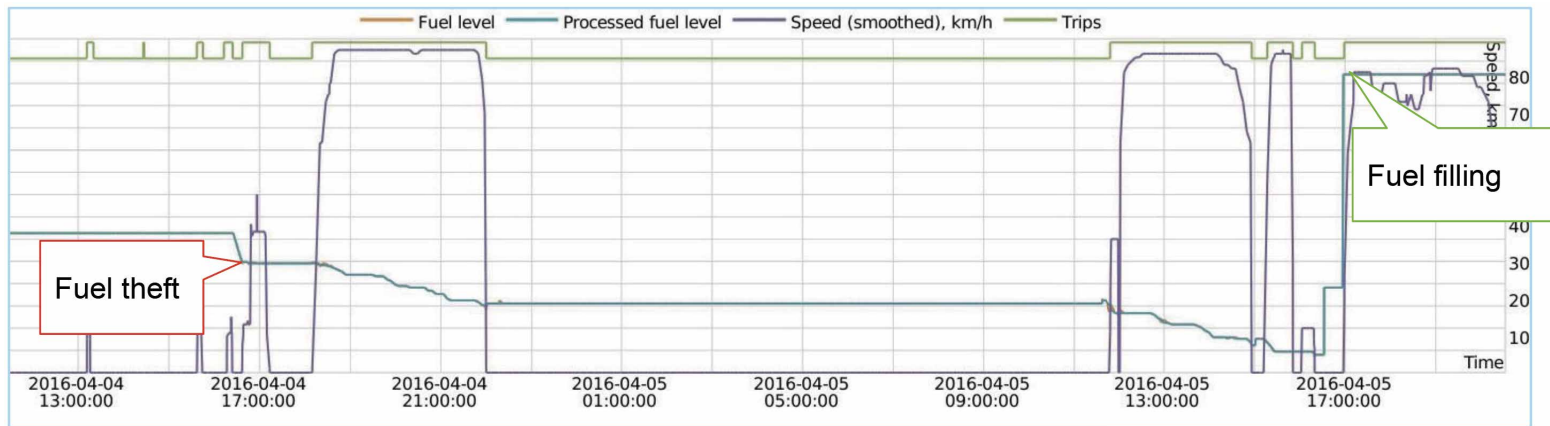
Detect any type of fuel misuse and control the whole cycle of fuel distribution from filling stations to vehicles and machinery. Fuel management allows decreasing fuel thefts by 90%.
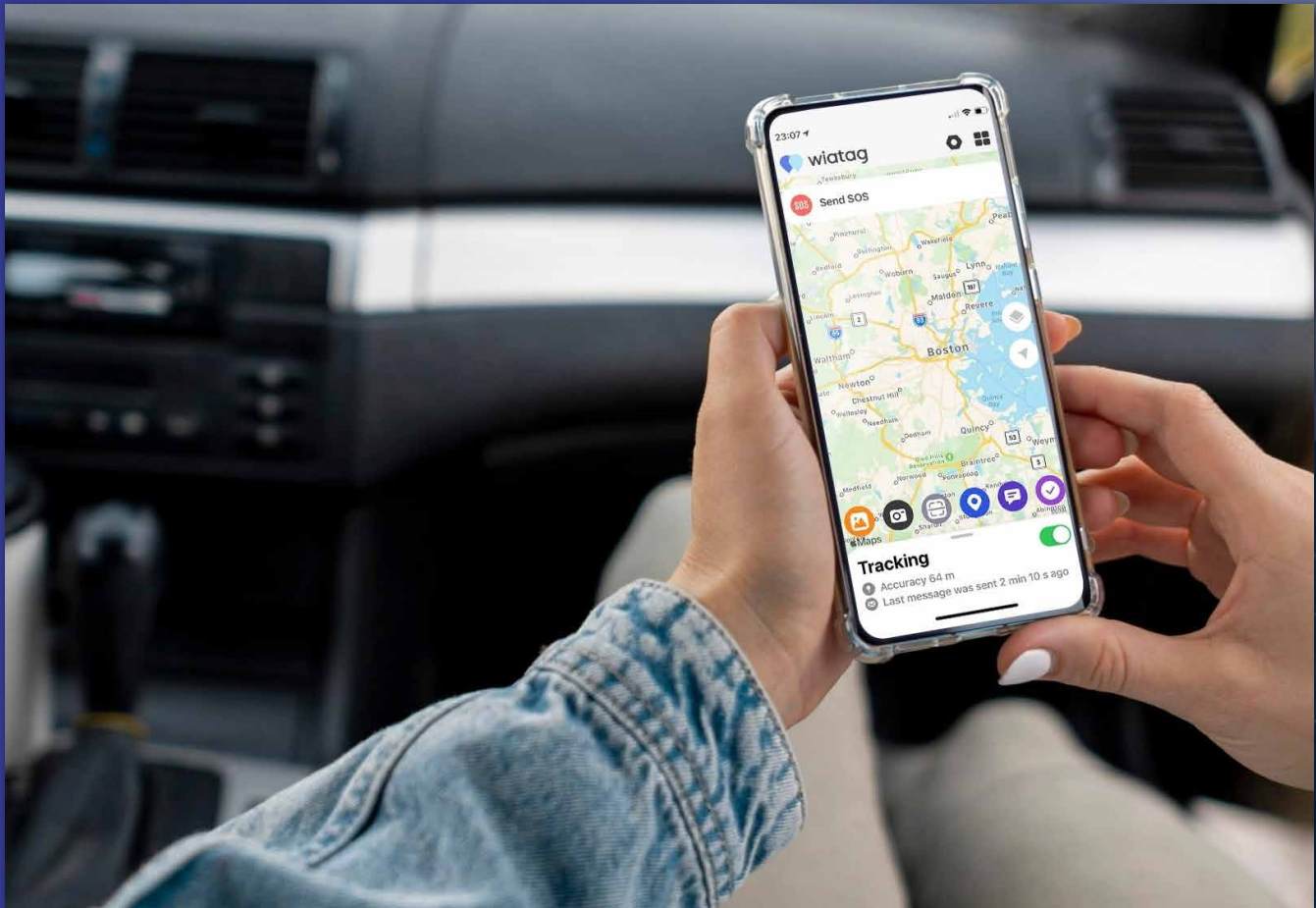
FLS data. Analyze fuel consumption depending on a fuel level in the tank at different time points.

CAN bus data readings. Tap into fuel parameters received via CAN bus of your vehicles.
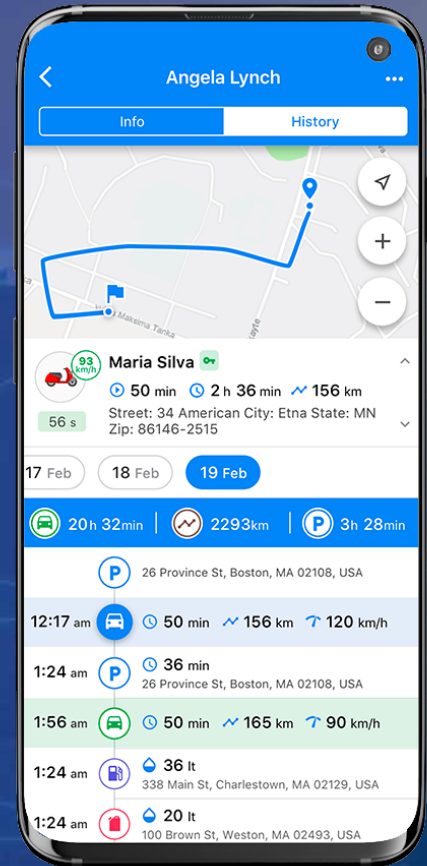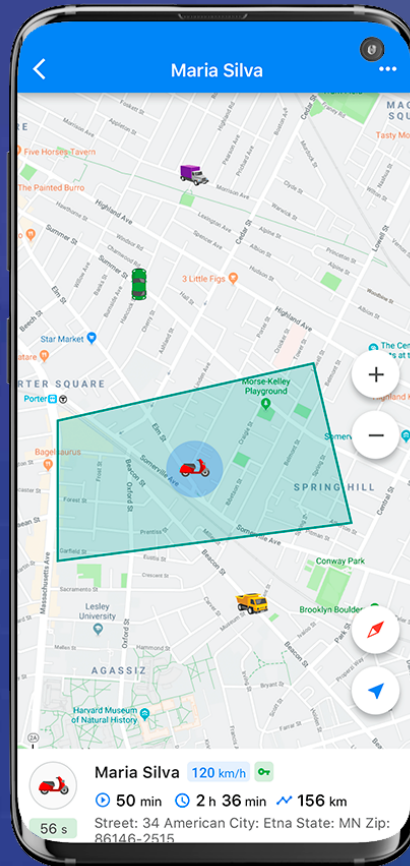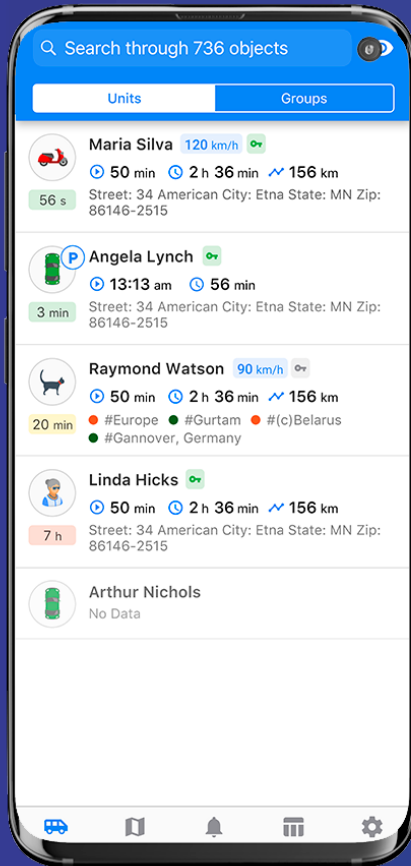
Fuel consumption by math. Use engine operation and efficiency sensors as coefficients for fuel consumption rates.

The proprietary fuel management system. Detect fuel thefts in the most complicated cases, including underfillings, card frauds, insufficient driving, siphoning, and much more.

Sensolator: a convenient control panel designed to monitor sensor performance

This tool comes in handy for controlling dozens of parameters of diesel generators, cooling and freezing chambers, and other stationary units. Sensolator is used to visualize values of counters and sensors from any number of units. Use it both for online tracking and performance analysis based on historical data.

- Fully customizable interface for real-time asset management

- Drag-and-drop feature to reorganize dashboard

- Online alarms, SMS, and email notifications to respond to device failure

- Video streaming from the specified URL

- Report generation from flexible templates

- Command-sending capabilities

- Multiple ways to customize counter and sensor visualization

MOBILE APPS AND WIALON-BASED SOLUTIONS

WIALON APP
FOR IOS AND ANDROID

Wialon app for iOS and Android

With the mobile Wialon app, maintain access to Wialon GPS tracking platform anytime, anywhere. It offers both basic and advanced functionality of the desktop version in a user-friendly mobile interface.

FEATURES

- **Units list control**
  Get all the necessary information on movement and ignition state, data actuality, and unit location in real time.

- **Commands**
  Send commands: message, route, requests for configuration or photo from the camera for the unit remote control.

- **Geofences**
  Switch on/off the visual display of the unit's location inside of a geofence instead of address information.

- **Informative reports**
  Use the detailed data on the vehicle's rides, stops, fuel thefts, and fillings for decision-making on the spot.

- **History**
  Control the unit's events (movement, stop, fuel filling, fuel theft) in chronological order and display them on the map.

- **Map mode**
  Access units, geofences, tracks and event markers on the map with the option to detect your own location.

WIATAG: GPS TRACKER IN YOUR SMARTPHONE
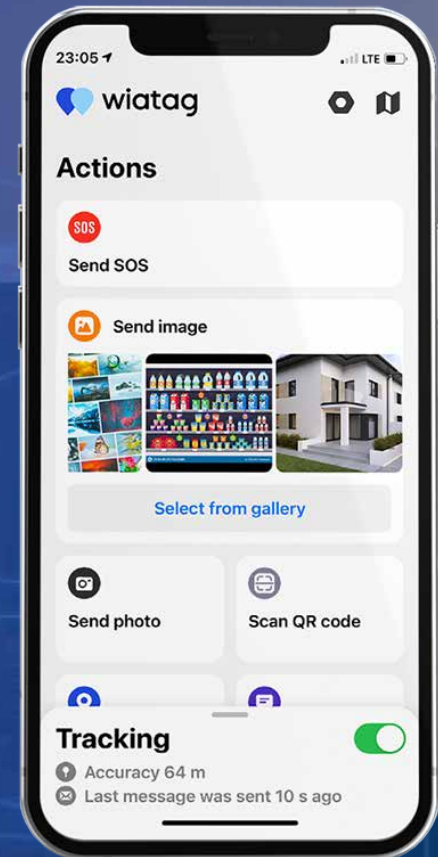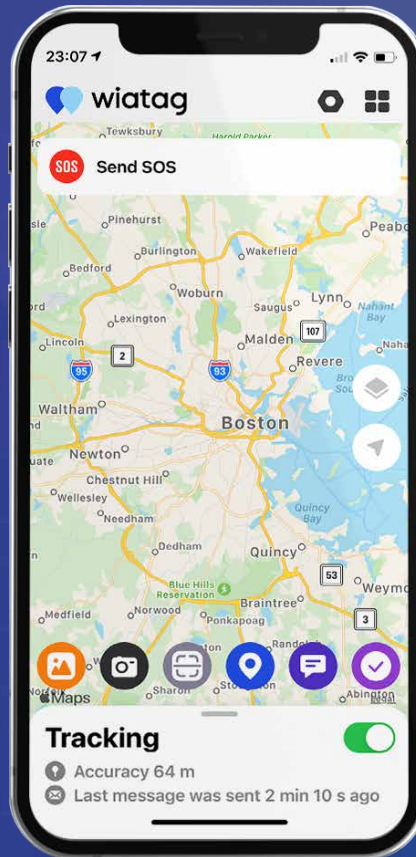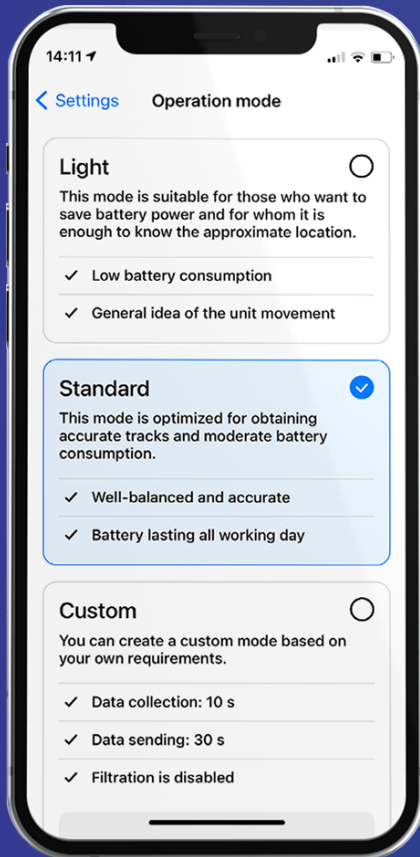
WiaTag: GPS tracker in your smartphone

It is an effective and easy-to-use iOS/Android app turning your device into a GPS tracker. The application relieves you from costs associated with hardware acquisition and allows starting effective personal tracking and workforce management with a single mobile device.
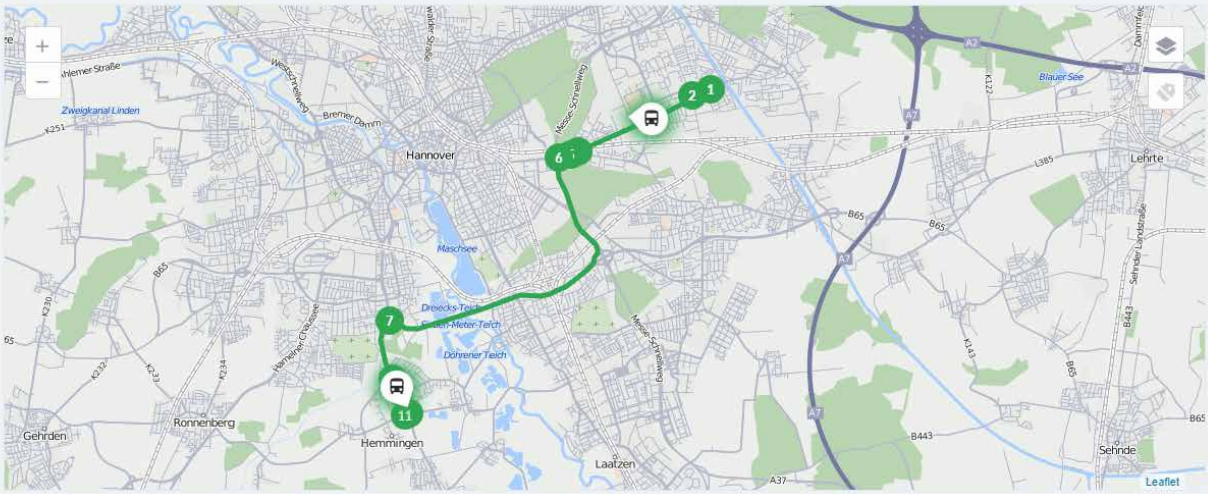
FEATURES

- **Latest data at hand**
  View the main tracking parameters on the home screen for quick checks.

- **Data from workers**
  Workers are able to send pictures, SOS messages, or location info.

- **WiaTag Configurator**
  Configure units in bulk and remotely, generate QR codes to quickly log in to the app, and request logs from devices for diagnostics without user participation.

- **Various user modes**
  Choose the best mode for a perfect balance between battery life and data precision.

- **Remote control**
  Request actions such as a camera snapshot or a service stop and change settings of the app remotely.

- **Chat with employees**
  Send and receive various types of messages from the field workers.

WHAT'S MORE?

Add the GPS tracker functionality to a custom application. With WiaTagKit, you get the ready-made component, which means you don't have to spend extra time and money for development. The elaborated communication protocol for Wialon helps you release the new solutions faster. Use the library for iOS, Android, and any devices with Java apps support.

NIMBUS: THE SOLUTION FOR PUBLIC TRANSPORTATION COMPANIES

NimBus: the new solution for public transportation companies

This module is designed to control vehicles on route. The service enables route planning and performance control, proper distribution of vehicles between rides and precise schedule management. The solution also ensures efficient real-time monitoring and detailed reports on fleet activity.

FEATURES

- **Handling stops**
  Create and import stops distinguished by a vehicle type; make use of quick search and detailed description.

- **Routes management**
  Generate routes with precise schedules, individual operating patterns and bound units.

- **Online tracking**
  Employ handy timeline, quick notifications, and multiple mapping options to control late/early arrivals and deviations from routes.

- **Rides**
  Plan rides based on active routes with schedules and operating patterns.

WHAT'S MORE?

NimBus features intuitive navigation and user-friendly interface, handy timeline and event-based notifications for online tracking, special ACL system and the proprietary API for third-party software integration and custom developments.

LOGISTICS: THE SOLUTION FOR DELIVERY MONITORING

Logistics: the solution for delivery monitoring

The service allows performing a wide range of tasks in the area of logistics and delivery – transportation arrangements, delivery route optimization and cost saving. Logistics comprises a web-version for dispatchers and a mobile application for drivers.

FEATURES

- **Orders**
  Create or import orders with the detailed description.

- **Delivery route planning**
  Select orders and vehicles and get preliminary routes comprising data on the estimated arrival time and mileage. Use Google Maps data for precise address info and routing.

- **Delivery process monitoring**
  Track the delivery process in real-time mode and respond to emerging issues through phone calls or chatting with the driver.

- **Reports and notifications**
  Get analytics from reports and communicate with clients by e-mail notifications with built-in HTML editor.

WHAT'S MORE?

The app web-version ensures effective operating procedures management: order placement, planning and distribution, Google Maps-based routing, delivery process monitoring and coordination.

Logistics mobile app is designed for delivery men and mobile employees.

ECO DRIVING: IMPROVE FLEET SAFETY, REDUCE FUEL COST, AND ENHANCE CARGO SAFETY
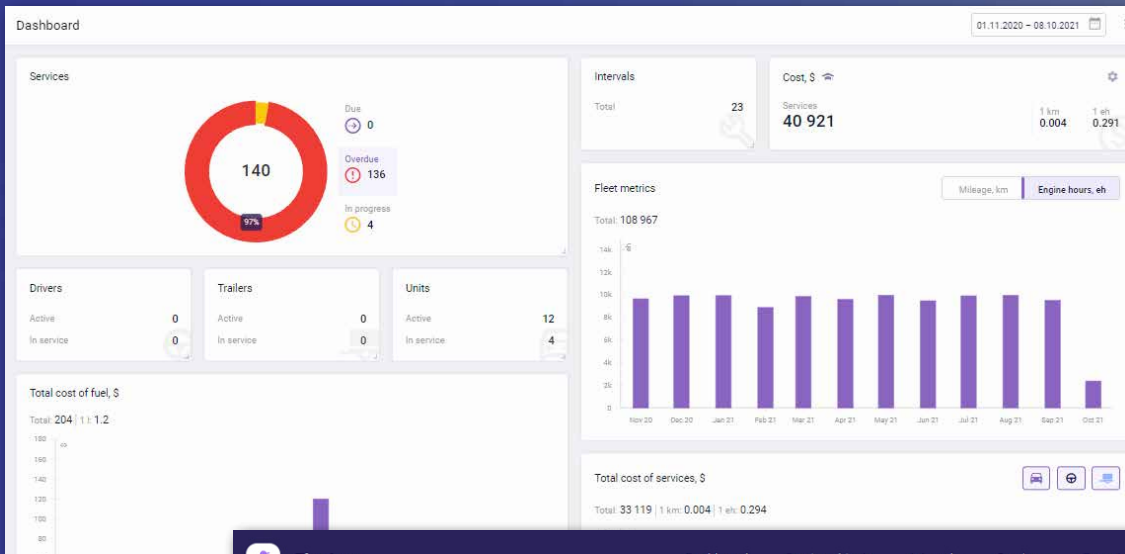
DRIVER BEHAVIOR MONITORING

Flexible configuration allows creating a customizable driving quality assessment model based on violation criteria and coefficients that can be set for each vehicle individually.

Each violation adds penalty points that may be used as a basis for driver ranking. The fewer penalty points you get, the higher the rank and the quality of driving are.

INDIVIDUAL SETS OF CRITERIA

♦ **View the detailed presentation** of driving quality for each vehicle in a fleet in a user-friendly visual format. You get access to the details on violations with tracks and event markers on the map.

♦ **Evaluate driving quality** based on acceleration, breaking, cornering, turn, speeding, reckless driving, or custom criteria.

♦ **Rank your drivers** based on total or average penalty points scored for all trips.

♦ **Configure the module quickly** with violation criteria presets for cars, buses, and trucks.

FLEETRUN:
THE SOLUTION FOR FLEET MAINTENANCE CONTROL

wialon

Fleetrun:
the solution for fleet maintenance control

This app is designed to control all types of works, services, and expenditures for spare parts, vehicles, and even miles driven. We developed it for those willing to cut operating costs, avoid critical breakdowns, and minimize the time spent at service stations.

FEATURES

- **List of units**
  Access to data on mileage, engine hours, Services, and advanced information on each unit

- **Reports**
  Analysis of the performed Services by fleets, units, and intervals

- **Intervals**
  Automated Service creation by time, mileage, and engine hours for the specified units

- **Services**
  Registration of works in the system: types, duration, spare parts, prices, and results

WHAT'S MORE?

Analyze the fleet status — overdue services, financial and time expenditures. Create the hierarchy of users and distribute the responsibilities among the workers with the help of access rights. Invest in the vehicles with high mileage but no breakdowns and give up those going out of order not even leaving the fleet yard.

Plan the workload bearing in mind how many vehicles are not running or will undergo the service shortly.

HECTERRA: THE SOLUTION FOR AGRIBUSINESSES

Hecterra: the solution for agribusinesses

This is a simple yet effective app for the agroindustry, which allows controlling field works based on telematics data. The solution delivers transparent data about fields, crops, and field operations to the employees and managers of agricultural enterprises. Having this data at hand, the clients can effectively plan and improve the agribusiness processes.

FEATURES

- **Fields and crops**
  Import and creation of fields. Crop rotation control, crops catalog, and the detailed history of cultivations for each field

- **Field cultivations**
  Detection of new field cultivations. Options to edit and approve the cultivations before adding them to the registrar

- **Special vehicles and drivers**
  Using drivers, units, and trailers created in Wialon. Calculations of fuel consumption, speed, mileage for each field cultivation

- **Reports**
  Easy reports generation by drivers, fields, operations, or units. CSV import option

WHAT'S MORE?

Automate business processes and improve the effectiveness of the agricultural organizations: integrate Hecterra with any accounting or reporting system of the client's enterprise through API.

wialon | developed by Gurtam

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