Eco Driving

The solution for driver behavior control

wialon

What kind of business needs Eco Driving?

Almost any!

Renting and leasing services

The fewer vehicles are used to the maximum and need repair, the wider choice has the client, and the more vehicles are daily at work

Taxi fleet

Rides with watchful drivers turn one-time clients into long-term ones

Insurance companies

GPS data explain the cause of the accident and help to assess risks before the renewal of the insurance coverage

Transport operators

Absence of accidents means a safe supply chain

Your business

You will witness the results in 1 month

Eco Driving

What are Eco Driving benefits?

Where does the money go?

✓ Traffic fines   ✓ Forfeit penalties   ✓ Maintenance/repair   ✓ Fuel

The slower you go, the less you pay or why Eco Driving is useful

We do not guarantee 100% protection from traffic fines. We suggest you get the drivers to behave more carefully and minimize them

Your savings become your profit

Pushing the gas pedal to the floor means doing the job faster. Also burning the fuel at lightning speed, "wasting" the vehicle, and damaging the cargo

Fewer
traffic tickets

Cheaper
minor violations

Confident
with GPS data on your side

Less
fuel consumption

Less frequent
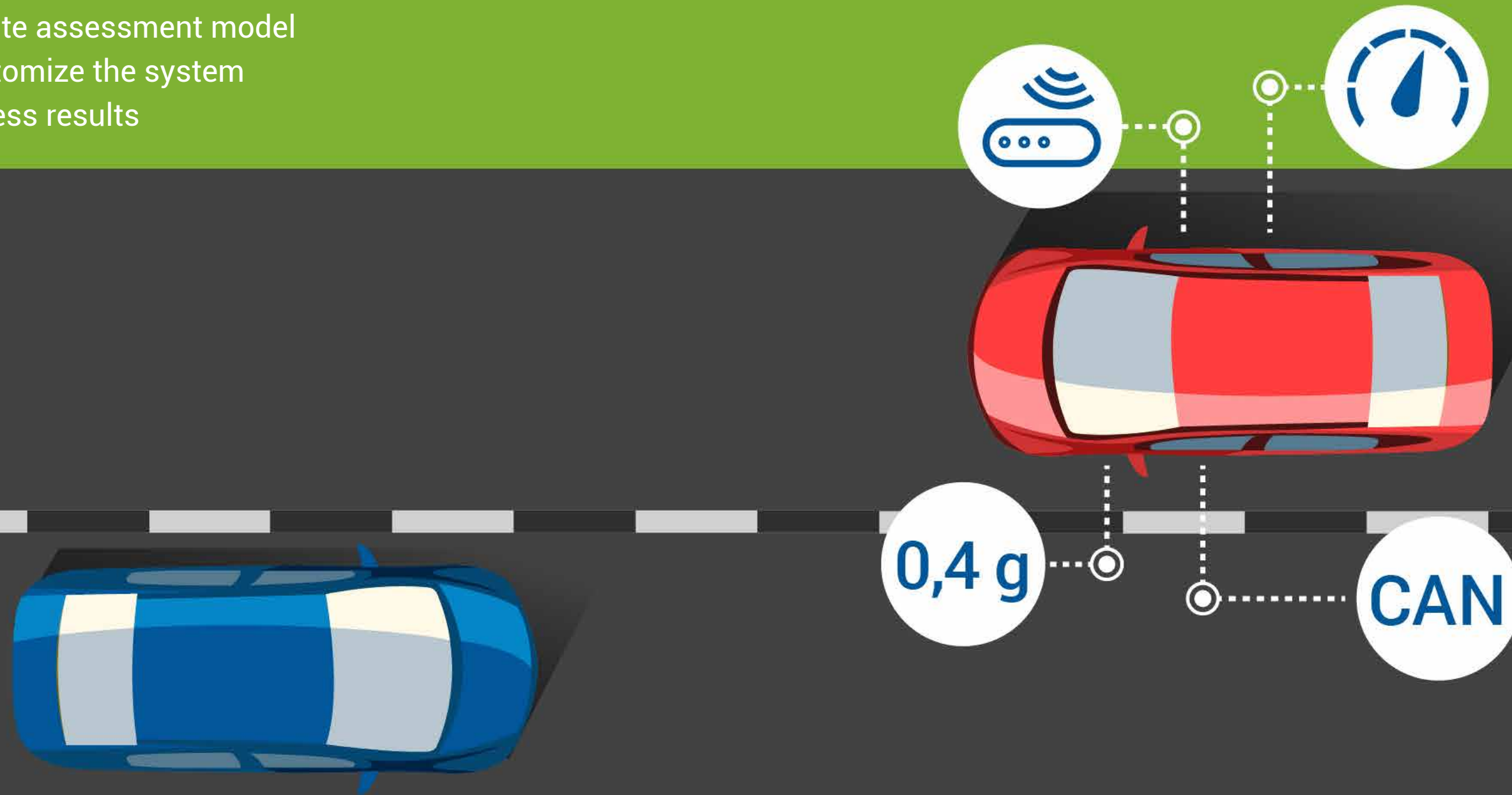critical breakdowns

Safer
cargo, passengers, drivers, nerves

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How it works?

1. Create assessment model
2. Customize the system
3. Assess results

0,4 g

CAN

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Step 1. Create assessment model

1 **Select the parameters to control:**
speeding, acceleration, braking, cornering, reckless driving

Add a new criterion

Criterion: *		Validator: None
	Speeding, km/h	
	✓ Acceleration, g	Averaging: By mileage
	Braking, g	
Name: *	Turn, g	
Min/max value:	Reckless driving, g	Min/max duration: sec
	Custom	
Penalty: *	2000	Min/max speed: km/h

Cancel   Save

2 **Show the system which values are to be considered a violation**
For example, if the system gets the "Acceleration" parameter with the values starting from 0.4 g, it means a severe violation

Add a new criterion

Criterion: *	Acceleration, g	Validator:	None
Name: *	Acceleration: extreme	Averaging:	By mileage
Min/max value:	0.4	1	Min/max duration:	sec
Penalty: *	2000	Min/max speed:	km/h

Cancel   Save

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3 **Add custom criteria**
In this case, any value of any sensor can be viewed as a violation: from increased engine speed to the wrong gear

Add a new criterion

Criterion: *	Custom ▼	Validator:	None ▼
Name: *	Cabin temperature	Averaging:	By mileage ▼
Sensor: *	Temperature sensor ▼	Min/max duration:	sec
Min/max value:	35 100	Min/max speed:	km/h
Penalty: *	2000		

Cancel   Save

4 **Set the fine for each violation**
Penalty points are used to rank the drivers while creating the rating

Add a new criterion

Criterion: *	Acceleration, g ▼	Validator:	None ▼
Name: *	Acceleration: extreme	Averaging:	By mileage ▼
Min/max value:	0.4 1	Min/max duration:	sec
Penalty: *	2000	Min/max speed:	km/h

Cancel   Save

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Step 2. Customize the solution

The number of criteria is unlimited, that's why we can create a customized assessment model for your company, individual vehicle, or region

1. Capture unusual violations from the sensors data

N parameters in a message = **N violations**

2. Rank the violations by their severeness

Acceleration	Violation	Fine
5-10 km/h	Minor	500 scores
11-15 km/h	Moderate	1,000 scores
16-300 km/h	Severe	5,000 scores

3. Set additional parameters for exceptional circumstances

For example: The truck is full
• Install the axle load sensor that will show that the truck is full
• Make it the validator sensor in Wialon
• **Activate multiplicator option:** if the truck moves under load, additional penalty points are given for each violation because the driver damages not only the vehicle but the cargo as well

4. Create a fair rating with the help of averaging

For example:
The driver Max got 5 violations for the whole day.
The driver Zach got the same number of violations having driven to the shop just a few blocks away.

300 km ≠ 5 km

10 violations   10 violations

The averaging by time or mileage spent while traveling will help to see the real situation. In this case, the total number of penalty points is divisible by each kilometer or minute of the ride.

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Step 3. Assess results

In Eco Driving web application
This interface was designed to view Eco Driving overall score for a specified period or a particular ride. Here, you can also view the comparative information from all vehicles. Besides, the app sums up individual rides in the graph, features violations list and markers on the map
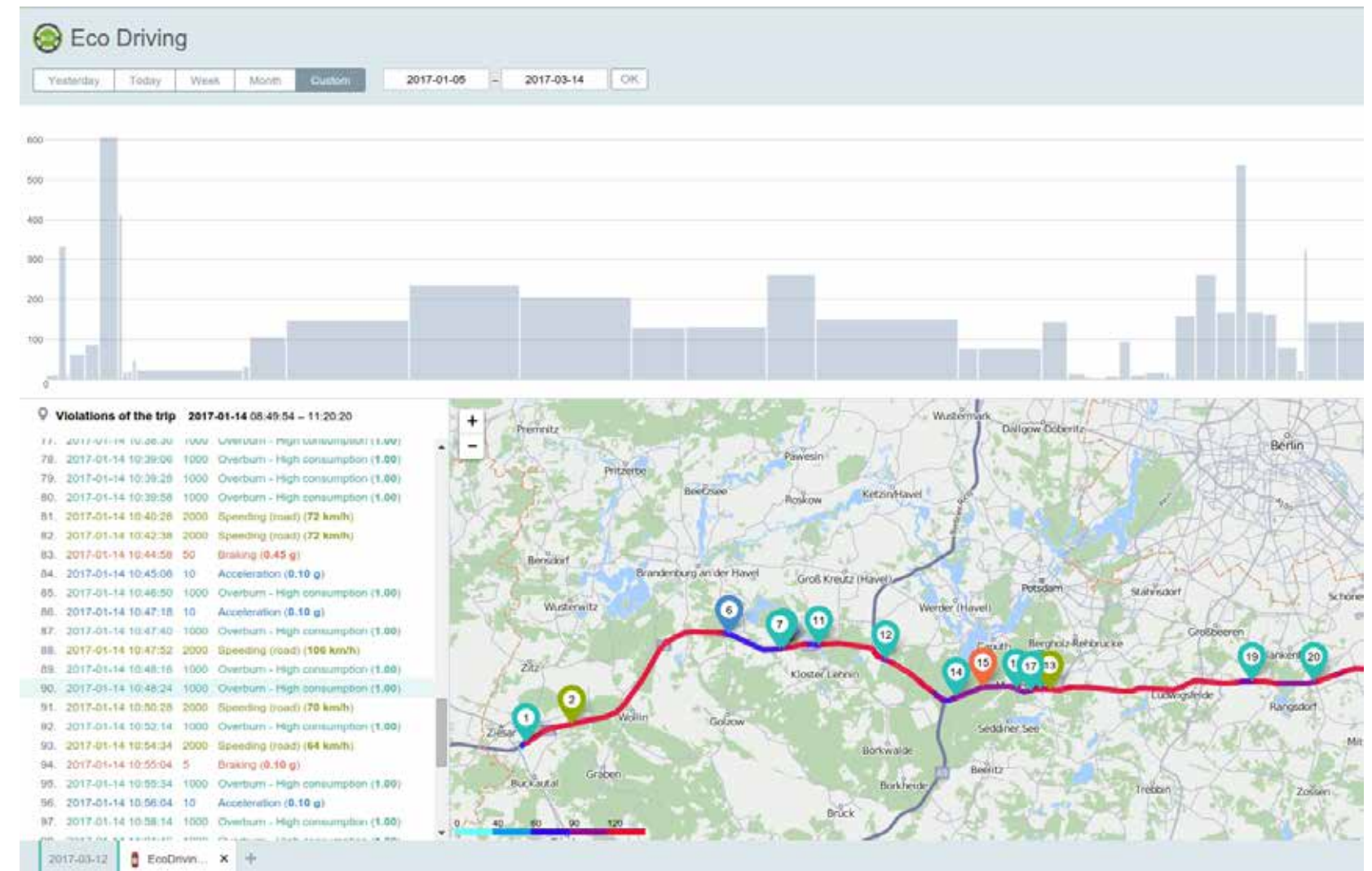
In reports
"Eco Driving" table specifies each violation: what happened, where, when, and who was driving. Here you will find the score, the driver rating, and 12 other parameters

In notifications
In case of custom criteria violation, all persons concerned get an email, SMS, or a pop-up message in the system interface

Eco Driving

WITHOUT Eco Driving

We tempt fate
When you exceed the average speed of the flow by 1 km/h, the accident risk increases by 10-15%. While exceeding by 10 km/h, the number of accidents increases drastically

We watch the column of flames
When two light vehicles get into an accident, we see two grieving men. When a 30-tons fuel tanker gets into an accident, we see the column of flames several kilometers away. This is beautiful, expensive, and sad. If you control speed, gear shifting, heavy braking, acceleration, and cornering, you can save up to $150,000 per accident or at least identify the ones to blame

We don't give a damn about ecology
The driver pedals to the metal and discharges more CO_2. Wialon will calculate the exact amount of discharge and show how you should drive to reduce it. The French, for example, can't do without it. And if you don't care, just purchase another six-liter G-Wagon

We "waste" the critical vehicle parts
The frequent "gas-brake-gas" shifting increases the clutch system deterioration in case of slam acceleration and braking system deterioration in case of dead halt

We lose Shell
Shell uses third-party fleets that must be connected to a GPS monitoring system. The oil major recommends using only three systems in the world and Wialon is one of them. Shell picked Wialon because of its Eco Driving module. So, if you don't control the driving quality, forget about connecting the fleets of this oil company

We burn the fuel all out
All-wheel drive car burns much fuel, so they turn this option only under off-road conditions. If you don't control the 4x4 turning on in the city and on the highway, you can't call your driving fuel-efficient

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