

# ECO Drive —

an application focused on assessing and enhancing skills for economical truck driving



## Who is this solution for?



### **Transport companies**

In the short term, paying attention to road conditions and careful operation of vehicles can reduce costs and ensure cargo safety.

In the long term, it has have a positive impact on traffic safety and the environment

**With ECO Drive, savings turn into profits**



### **Vehicle manufacturers**

Creating more powerful and economical trucks does not resonate with fleet owners whose drivers continue to use outdated driving methods, failing to fully realize the vehicle's potential

**Improving economical driving skills can change this situation**



### **Satellite monitoring systems integrators**

Economical driving is a required skill for international drivers transporting goods to European countries.

Therefore, applications for assessing driving quality are already in high demand

**Be among the first to offer your clients a turnkey solution**

# How does ECO Drive work?

The application collects information from the CAN using equipment installed in the vehicle. Then patented calculation algorithms compare the received data with a reference value and generate a driving quality score



## Main Window

selection, configuration, and editing of objects and intervals

## Predefined intervals

## Custom interval configuration

## List of available drivers or cars

The screenshot shows the ECODRIVE interface with a configuration panel on the left. The panel is titled 'Cars' and 'Drivers'. It features a search bar, a list of available vehicles with checkboxes, and a section for interval configuration. The 'Tracked Items' list shows the following items:

Vehicle	Start Date	End Date
Mercedes Euro 6 - 4	01.09.24 00:00	30.09.24 23:59
Volvo Euro 5	01.09.24 00:00	30.09.24 23:59
Volvo Euro 6 - 1	01.09.24 00:00	30.09.24 23:59
Volvo Euro 5	23.09.24 00:00	06.10.24 23:59
Mercedes Euro 6 - 4	30.09.24 00:00	06.10.24 23:59

1

To receive a driving score, select one or more vehicles or drivers from the list

2

Set the time interval and confirm the action

3

Adjust the objects and intervals in the navigation panel if necessary

### Summary Table Window

detailed information for the specified interval, overall driving assessment

Select data source: CAN or GPS

Column configuration, visibility, sorting

Show drivers assigned to the vehicle

**With ECO Drive, you can compare drivers against each other:**  
discipline aggressive ones, encourage excellent ones, motivate laggards

Interval	Car	Average score	Train weight	Cargo weight	Mileage	Avg speed	Fuel consumption per 1 ton of train	Fuel consumption per 1 ton of cargo	Avg fuel consumption	Total fuel used	Fuel used while idling
> 23.09.2024, 00:00 29.09.2024, 23:59		56.67 %	0.00	0.00	0.15	3.72	0.00	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		59.05 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49	0.94
> 23.09.2024, 00:00 29.09.2024, 23:59		88.25 %	0.00	0.00	3059.57	62.31	0.00	0.00	22.62	725.00	11.09
> 23.09.2024, 00:00 29.09.2024, 23:59		78.54 %	0.00	0.00	2964.39	69.66	0.00	0.00	24.26	719.00	27.70
> 23.09.2024, 00:00 29.09.2024, 23:59		84.50 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		92.16 %	23.88	0.00	2965.28	66.73	0.81	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		81.72 %	0.00	0.00	2637.75	72.09	0.00	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		92.77 %	0.00	0.00	827.33	66.58	0.00	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		88.53 %	0.00	0.00	1933.79	67.72	0.00	0.00	0.00	0.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		80.87 %	0.00	0.00	3399.94	65.54	0.00	0.00	26.79	911.00	7.76
> 23.09.2024, 00:00 29.09.2024, 23:59		93.75 %	0.00	0.00	3051.89	66.10	0.00	0.00	26.47	808.00	0.00
> 23.09.2024, 00:00 29.09.2024, 23:59		94.04 %	0.00	0.00	3051.56	69.21	0.00	0.00	25.86	806.00	0.00
<b>SUMMARY</b>		<b>81.85 %</b>	<b>53.04</b> t	<b>0.00</b> t	<b>61673.13</b> km	<b>50.92</b> km/h	<b>0.07</b> l/t	<b>0.00</b> l/t	<b>17.63</b> l/100 km	<b>16916.52</b> l	<b>385.41</b> l

## Driving Assessment Window

overall score and quality assessment based on 10 criteria

Detailed description of the criterion, tips for the driver

Comparison of the score with the results from the previous period

Criteria tabs

Object tabs

Detailed information about the criteria

mileage, fuel consumption, engine hours, speed, etc.

Observe how the driver improves economical driving skills or maintains the status quo:

compare scores from the previous period and identify areas for further development

Identify common driving mistakes by analyzing the events map

Map displaying the driving assessment

route, stops, events

**Final grade**  
Summary information for the reporting period

**91.75%**  
79.24%

**Preventive Acceleration**  
↑ 12.51%

**How to increase rating:**  
To improve the overall score, focus on improving results for each individual criterion

**What reduces rating:**  
Neglecting eco-driving principles reduces the score

Detailed information	
Start of interval	31.08.2024, 21:00
End of interval	30.09.2024, 20:59
Duration	1 m.
GPS mileage	4824 km
Avg. GPS speed	67 km/h
CAN mileage	11137.20 km
Avg. CAN speed	154.47 km/h
Motor hours	3 days 5:54:23
Motor hours in motion	2 days 21:54:46
Motor hours idle	7:33:26
CAN fuel used	2537 l
Avg. CAN fuel consumption	53 l/100 km
DUT fuel used	1210 l
Avg. DUT fuel consumption	25.09 l/100 km
CAN fuel used during idle	16.23 l
Avg. CAN fuel consumption during idle	2.15 l/h

Criteria	Score	Change
Preventive acceleration	68.10	↑ 18.20%
Preventive braking	98.02	↑ 13.79%
Uniform Speed	92.60	↑ 3.73%
Gas Pedal	95.32	↓ 0.83%
Reeling	73.73	↑ 0.47%
Cruise Control	92.35	↑ 3.31%
Engine Speed	97.41	↑ 0.64%
Deceleration	100.00	↑ 85.72%
Speed > 85 km/h	100.00	↑ 0.14%
Handbrake in Motion	100.00	↓ 0.00%

**Parking**  
Address: Hungary, Vas vármegye, 9700 Szombathely, Zanati Ut, 33  
Start: 20.09.2024, 14:42  
End: 20.09.2024, 15:24  
Duration: 42 min.

# ECO Drive evaluates driving quality based on ten parameters, each ranging from 0 to 100%

you can read a brief description of each criterion below



## ECO Drive Control Indicators: brief description



### PREVENTIVE ACCELERATION

This criterion evaluates the driver's ability to take into account the road situation while accelerating; the fewer speed fluctuations during acceleration, the more economical driving is.

✓ fuel consumption

✓ driving efficiency



### EVEN SPEED

This criterion evaluates the duration of movement and changes in the amplitude of the reference speed during driving

✓ fuel consumption

✓ driving efficiency



### ACCELERATOR PEDAL

This criterion takes into account the frequency and intensity of pressing the pedal, since any impact, even minor, leads to fuel supply for acceleration

✓ fuel consumption

✓ driving efficiency



### PREVENTIVE BRAKING

This criterion evaluates the driver's ability to predict the road situation while decelerating the car, which helps to prolong the lifespan of brake pads and discs

✓ braking system

✓ driving efficiency



### DECELERATION

This criterion evaluates the ratio of using the footbrake pedal and non-wearing braking systems

✓ braking system

✓ driving efficiency



### HANDBRAKE IN MOTION

This criterion records the facts of use and evaluates the suitability of applying the parking brake while driving

✓ braking system

✓ driving efficiency



## ECO Drive Control Indicators: brief description



### CRUISE CONTROL

This criterion evaluates the duration of driving in cruise control mode, which contributes to fuel savings and reduces vehicle strain

✓ fuel consumption

✓ braking system

✓ engine strain

✓ driving efficiency



### SPEED > 85 KM/H

This criterion records cases of exceeding this value, as speeds above 85 km/h for trucks are inefficient and pose a driving hazard

✓ fuel consumption

✓ driving efficiency



### REELING

The criterion evaluates the driver's ability to use the kinetic energy of the vehicle [coasting motion] while driving

✓ fuel consumption

✓ braking system

✓ engine strain

✓ driving efficiency



### ENGINE SPEED

This criterion evaluates the driver's ability to help the vehicle maintain engine RPM in the green zone, reducing engine strain and extending its lifespan

✓ engine strain

✓ driving efficiency

**«The main advantage of using ECO Drive is that drivers strive and gradually improve their results, and there's the ability to follow these improvements. You can see it by the indicators» —**

feedback from a partner after 6 months of using the application



## case #1

### Customer:

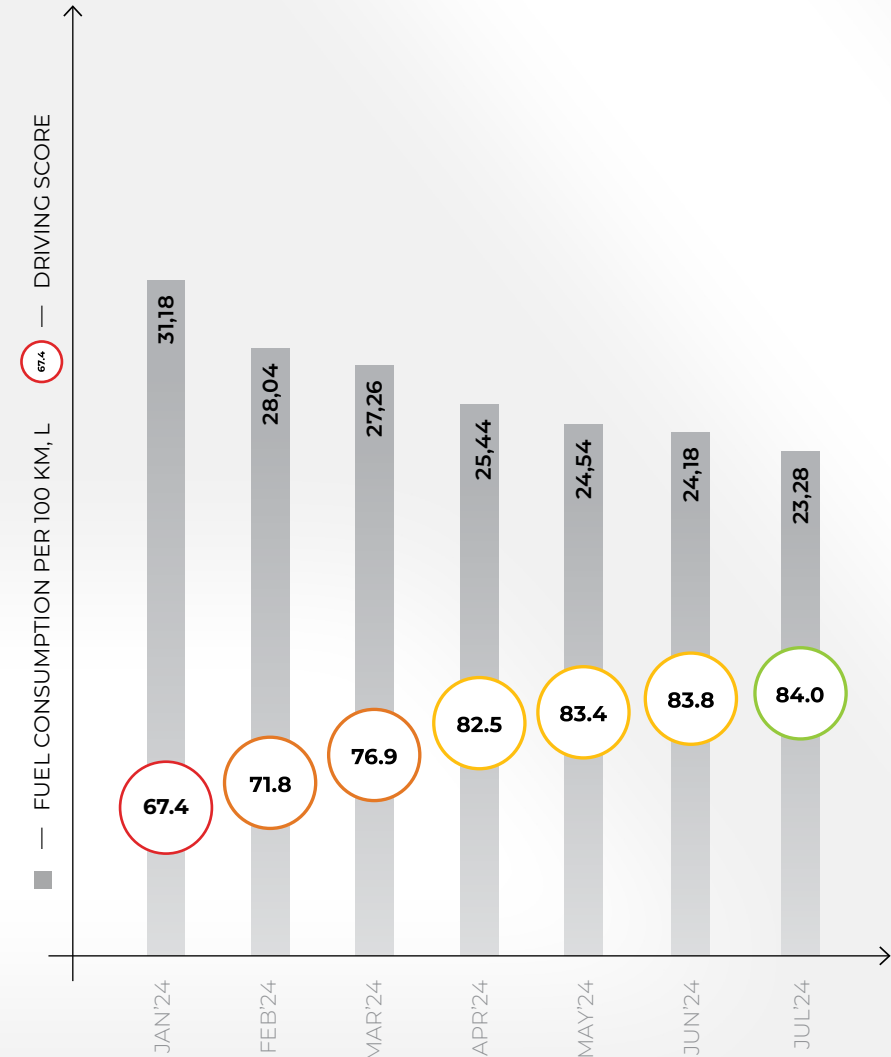
a company providing international cargo transportation services

### Usage Period:

6 months +

**There's a noticeable reduction in the average fuel consumption across the fleet as the skill of economical driving improves**

Driving score vs.  
Average fleet's fuel consumption



## case #1

# Amount of fuel saved from February to July — 1189 liters\*

\* Calculated relative to the consumption rates set for each month

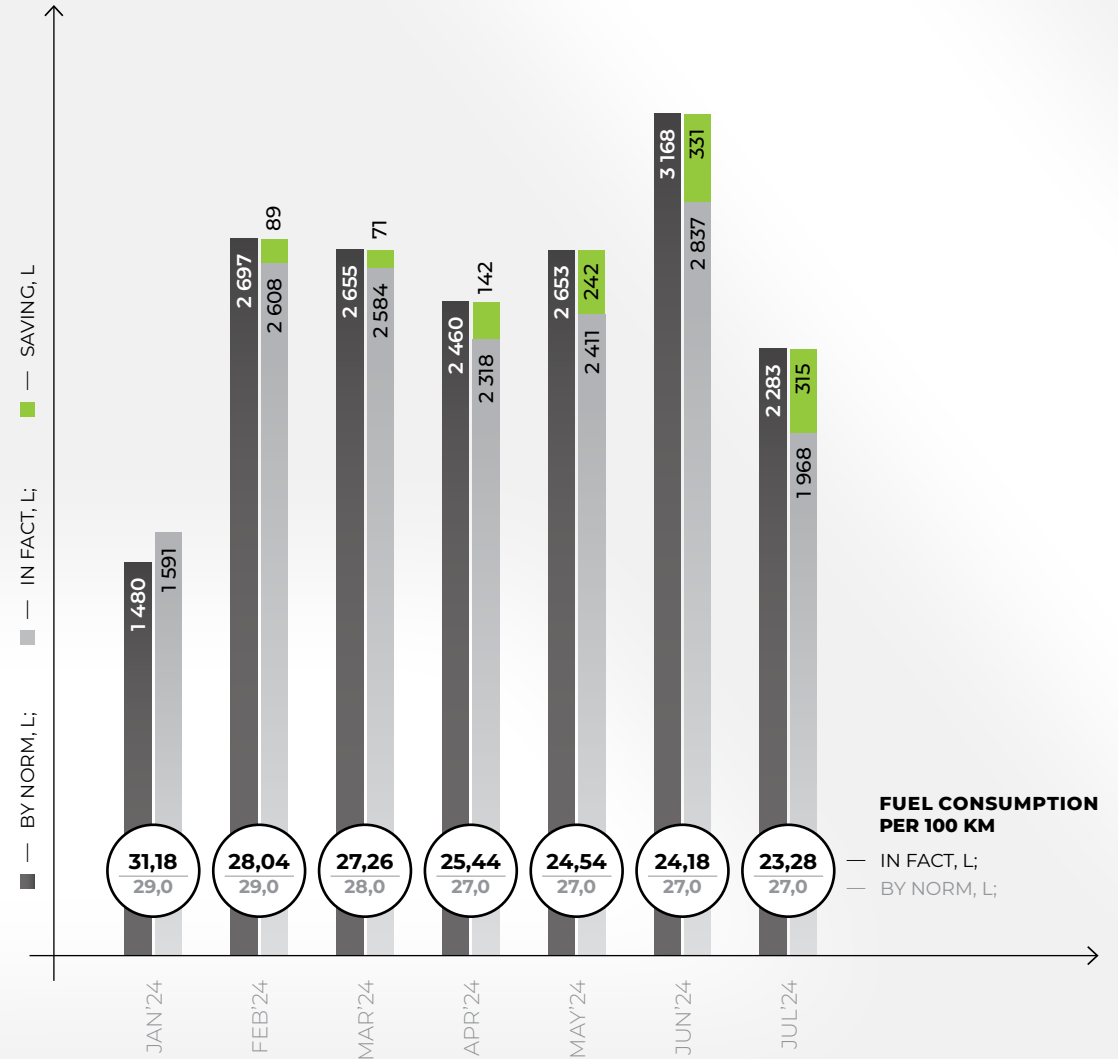
### Customer:

a company providing international cargo transportation services

### Usage Period:

6 months +

Fleet's fuel consumption results  
by norm vs. actual values



**«We would like to note the cross-platform nature and versatility of this system. It showed stable results and identical driving style analysis on different cars by different brands and configurations» —**

feedback from a partner who has been using the application for several years



## case #2

**Total estimated cost reduction**  
**for one truck + MEGA semi-trailer —**  
**8500 € per year**

### Customer:

a company providing international cargo transportation services

### Fleet:

Mercedes-Benz Actros MP4 Euro 6, MAN TGX Euro 6, MAN TG3 Euro 6, VOLVO FH Euro 6, KAMAZ 5490, KAMAZ 54901, IVECO STRALIS EEV

### Usage Period:

24 months +

Result for 12 months

**24,9 l / 100 km**  
average annual **fuel consumption** in the fleet

**0,84 l / 100 km**  
average annual **AdBlue consumption** in the fleet

**650K km**  
**brake pad lifespan** for the truck

**550-600K km**  
**brake pad lifespan** for the semi-trailer

**0,7 mm / 100K km**  
**brake disc wear**

**29,7 l / 100 km**  
average annual **fuel consumption before** implementing ECO Drive

**1,20 l / 100 km**  
average annual **AdBlue consumption before** implementing ECO Drive

**350K km**  
**brake pad lifespan before** implementing ECO Drive

**300-350K km**  
**brake pad lifespan before** implementing ECO Drive

**1,2 mm / 100K km**  
**brake disc wear before** implementing ECO Drive

Average transported weight – 14 tons; average mileage per vehicle – 132,000 km

## case #2

**Drivers with a driving score of 90+  
generally show low fuel consumption regardless  
of the weight of the transported cargo**

### Customer:

a company providing international cargo  
transportation services

### Fleet:

Mercedes-Benz Actros MP4 Euro 6, MAN TGX Euro 6,  
MAN TG3 Euro 6, VOLVO FH Euro 6, KAMAZ 5490,  
KAMAZ 54901, IVECO STRALIS EEV

### Usage Period:

24 months +

\*photo provided by the customer



**Bialystok - D99 Germany**

**Cargo weight:** 22 tons, 12 tons on the return way

**Fuel consumption:** 20.4 liters / 100 km

# ECO Drive is the key to

**freeing up funds** for further development

**cutting maintenance costs**

**extending the lifespan** of individual components  
and the whole vehicle

**reducing downtime** for service

**lowering fuel consumption**



**One of the ECO Drive's advantages is that the application  
can work outside the monitoring system**

you won't need to change your current telematics or operator

The application is available in **English, Polish and Russian,**  
and is successfully operating in the CIS and European  
countries



**Learn more about the possibilities of ECO Drive  
by calling**

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