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Development of new transport statistics

Light Utility Vehicle statistics*

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* Gross Vehicle Mass up to 3.5t

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Background

In recent years, freight transportation by road in Latvia has been growing by an average of 5 % annually.

H-Transporting and storage (NACE Rev.2) gross value added by kind of activity accounts 7 % of total gross value added in 2021 in Latvia.

In 2010 the road freight transport's share in the entire land transport sector was 49 %. In 2021 it increased to 79 %.

Until now, there are no specific studies in Latvia on freight transportation by light utility vehicles (LUV) (with a GVM of up to 3.5t), which on average annually make up more than 40 % of the total mileage of trucks.

According to Road Traffic Safety Directorate (CSDD) data, the number of these registered vehicles has reached approximately 60 thousand.

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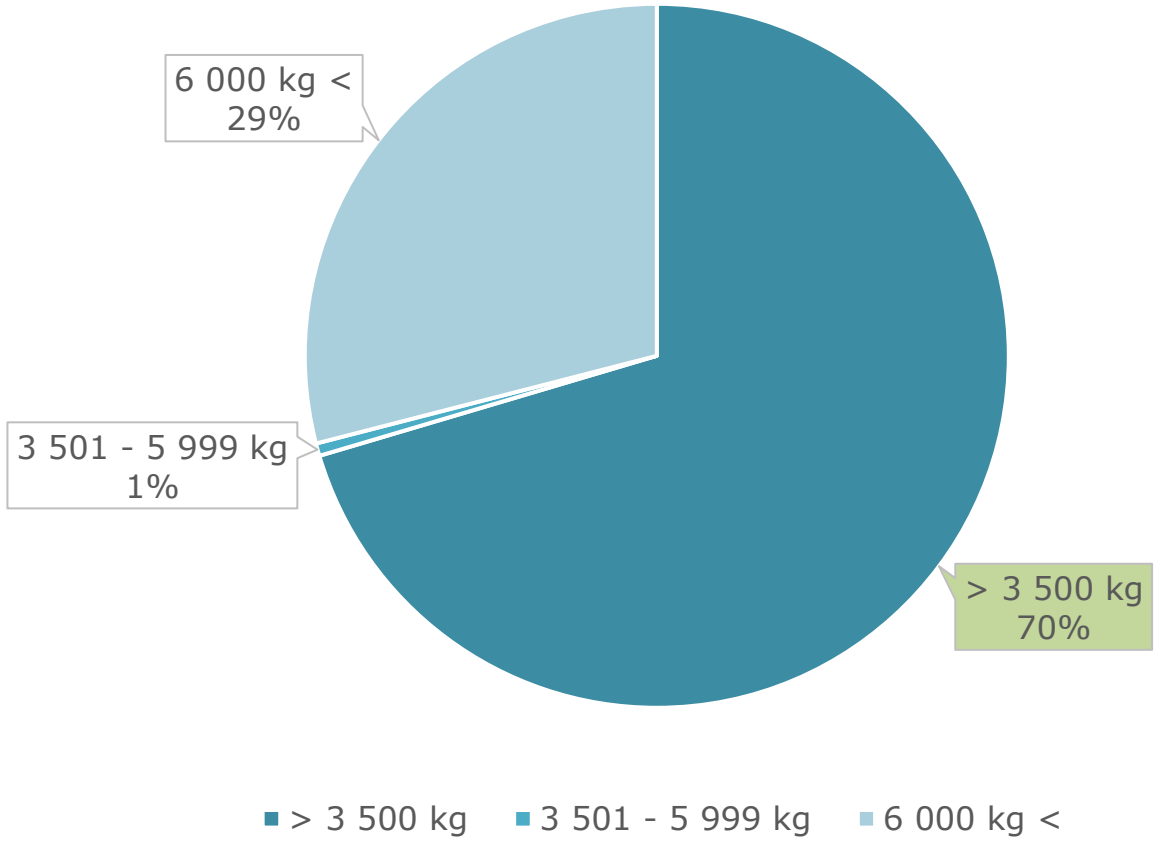
Vehicles registered (by Gross Vehicle Mass)



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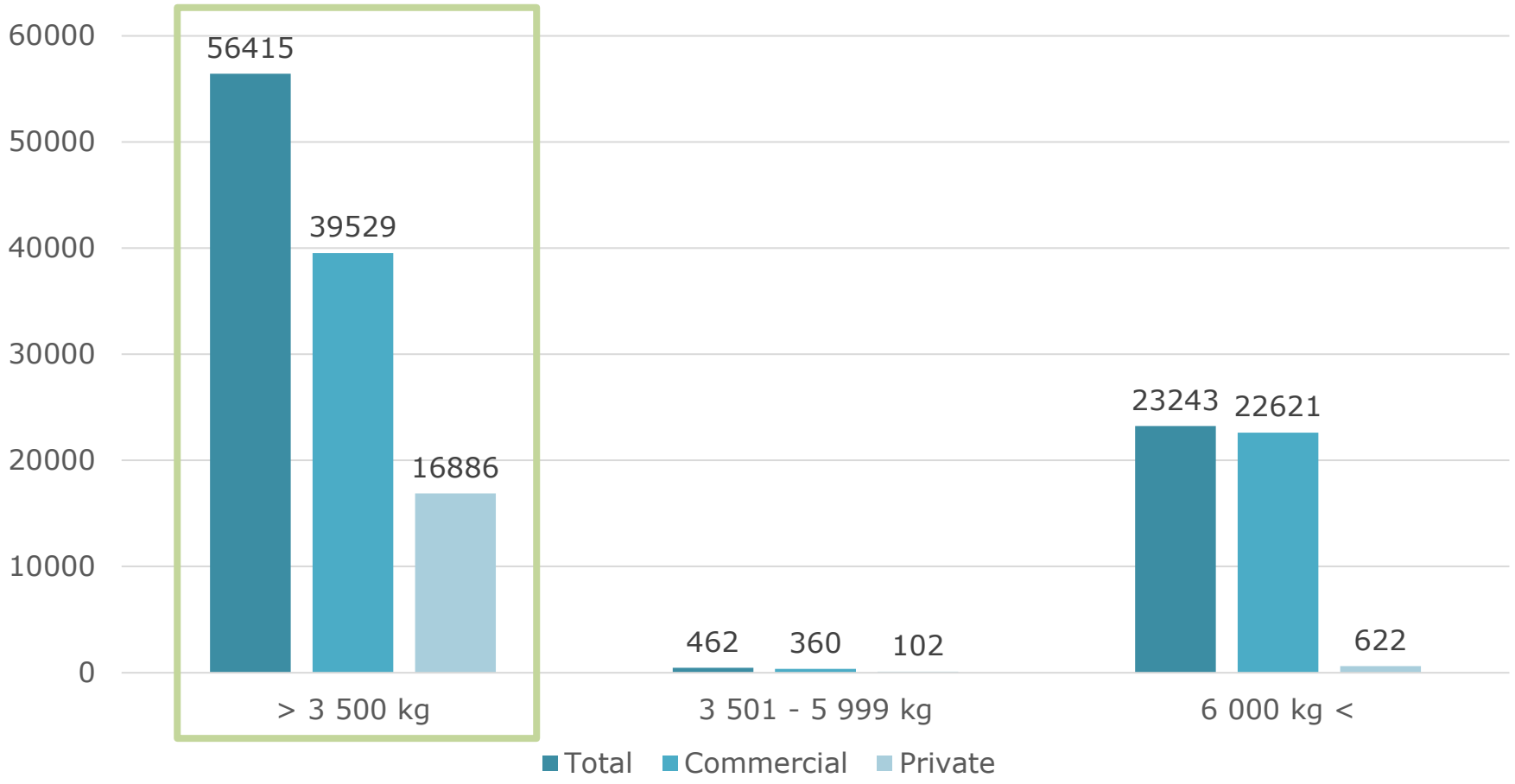
Vehicles registered (by Gross Vehicle Mass)



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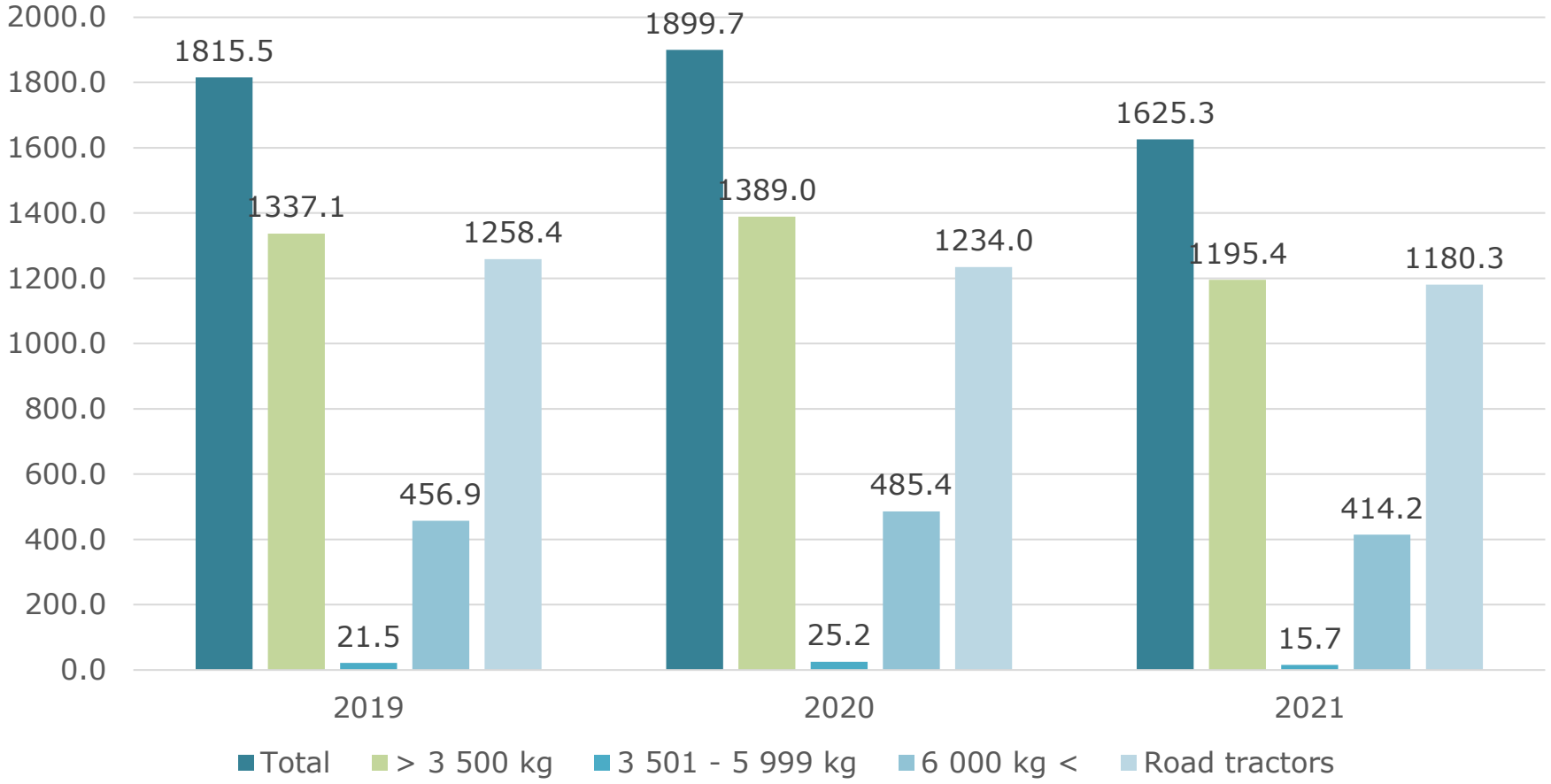
Vehicle kilometers per year by Gross Vehicle Mass (in millions)



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Importance in city logistics (1)

“Last mile” deliveries

Manufacturer | Long Distance Transport | Warehouse | Delivery | Customer

Importance for ministries and policy makers

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Importance in city logistics (2)

Data user needs

Professionals mainly from universities and associations, city planning could insist on continuation of the project and state budget allocation for that purpose.

Pre-survey carried out in August 2022 confirms data needs for road transport, infrastructure and environment for policy analysis and formulation, and for scientific research.

City transport modelling

Possible effects on better city planning and more reliable data in Transport flow macroscopic model.

Target groups: ministries, state administrations, city councils, urban planners and planning regions, universities, associations.

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Questionnaire (1)

Source: ESTAT Methodological document for the Task Force on Light Utility Vehicles (LUVs)

Surveyed vehicle:

Specific period for additional questions

Registration number:	(pre-filled)
License plate number:	(pre-filled)
Brand :	(pre-filled)
Model:	(pre-filled)
Body type:	(pre-filled)
Maximum Permissible Laden Weight	(pre-filled)
Load capacity:	(pre-filled)
Year of first registration:	(pre-filled)
Motor energy:	(pre-filled)

(pre-filled) specific day, 2 or 3 days or week

In blue : optional

Please rectify following estimated fuel consumption, if erroneous

Fuel consumption:	(pre-filled)	/ km

Owner and/or user:

(please tick the right box)

You own and you use this vehicle :	☐
You own but you rent this vehicle:	☐
You do not own this vehicle any longer:	☐
You still own, but nobody has used this vehicle for more than 1 year:	☐

If you are not the user of this vehicle, please explain who this user is and where we can contact him:

_____

You are the user (please rectify if erroneous):

Business (or private) name:	(pre-filled)
Category (business, administration, association, private):	(pre-filled)
Business Register number:	(pre-filled)
Activity (national NACE or in letters):	(pre-filled)

Contact person:	
Function:	
Phone number:	
E-mail:	

Kilometres travelled

	Date	km
Odometer measured during last technical inspection	(pre-filled)	(pre-filled)
Odometer measured at the beginning of the specific period		
Odometer measured at the end of the specific period		

Total number of kilometres travelled during specific period (= end – beginning)	**km**

If you have not used the surveyed vehicle during the specific period, please explain briefly why:

_____

Distance travelled during specific period, by type of roads (totals should be identical to above).

In urban areas	km
On roads (other than motorways, outside urban areas)	km
On motorways	km
	km

Of which abroad	km

Distance travelled during specific period, by purposes (total should be identical to above)

		distance	time	nb of trips
Transport of freight (with loading and unloading operations, including professional removal services)	For hire or reward (with invoice)	km	h m	
	For own account	km	h m	
Provision of services (including transport of machines and tools, but operations of loading / unloading do not constitute the main substance of the service provided)		km	h m	
Other (transport of passengers, trips from domicile to work, private use, etc.)				
		km	h m	

Number of stops during specific period (loading/unloading or whatever the reason)	
Of which on parking spots in public road space of urban areas (excluding company premises, private property, parking garages or underground parking lots)	

Please, fill in "0" in the cell if you were not concerned by this category of stops.

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Questionnaire variables

1. LUV equipment – Stock of vehicles (unit: number)
2. Distance travelled during a year (unit: vkm)
    2.1 by type of roads: urban areas / roads / motorways
    2.2 by purpose: transport of freight / provision of services / other
3. Fuel consumption (unit: depends on the type of motor energy)
4. Number of stops (unit: number, source: survey)
    4.1 Of which on parking spots in public road space of urban areas
5. LUV transport measurement - transport of freight (unit: tkm, vkm)
    5.1 by kind of goods (in divisions of NST 2007)
    5.2 national / international
6. Number of trips (unit: number)
    6.1 for transport of freight

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Timetable

2023

- Methodology research,
- Specification of needs,
- Questionnaire design and software testing

2024

- Data collection

2025

- Analysis of collected data
- Publication of data

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Sample design

The survey population includes LUVs owned by legal entities and individuals with a gross weight up to and including 3500 kg, which have passed technical inspection at the time of the survey and can be legally used.

All units were stratified to determine the preliminary sample size (28 stratas in total):

- Ownership (businesses / households).
- Respondents who own 5 or fewer vehicles, and for those who own 6 or more vehicles.
- NACE category (sector 'H' NACE 49-53/ or others).
- Vehicles with a gross weight up to and including 3500 kg.
- Age of vehicle up to 25 years (starting from 1998 and excluded 2023 released vehicles).

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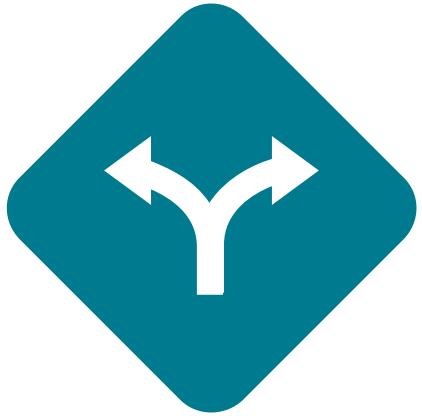
Size of the sample
Data collection in 2024

6292 vehicles from **57** thsd



Two samples

52 weeks

121 vehicles per week

3 days of a week

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Two samples – Balancing out respondent burden

4 316 vehicles

- for companies with 5 or more LUV vehicles registered and private individuals with 6 or more vehicles registered
- companies belonging to NACE category “H”
- surveyed quarterly (83 units per week)

1 976 vehicles

- for companies with less than 5 LUV vehicles registered and private individuals with less than 6 vehicles registered
- surveyed annually (38 units per week)

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Questions to be decided at a later stage

- Clarification of data user needs prior to designing of the survey
- Lessening the respondent burden
- How many survey days – 1-7 days?
- Estimation of cargo carried in tons
- Data validation options (distance, weight)
- Urban / non-urban zone separation

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Comments welcome!

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