



N.50



## Aim of the project

The project of MELEX aims at implementing the research topic ***N50, special vehicles, buses and other ones.***

Environmentally friendly transport solutions.

***MELEX intends to develop an innovative N.50 vehicle:***

- N1/L7e category electric vehicle
- modular design which ensures lower weight compared to conventional vehicles
- GVW - class vehicle with low curb weight below 1t (without batteries), reaches up to 1t of payload capacity
- width up to 1330 mm







## Research criteria

- Very good traction ability
- Light construction and strong suspension
- Front wheel drive and better mass distribution
- Optionally drive 4x4 WD
- High safety level- disc brakes on both axes
- Speed up to 60km/h
- High ground clearance crosswise and alongside ground clearance is 26cm (9 cm more than previous line!)
- High level of ergonomics
- Low deck
- Bigger capacity of vehicle up to 1000kg
- 5-function lamp
- Individual seats





# Mile Stones



N.50



old model

new model

Continuation of production

PROTOTYPES

start November 2019  
the end June 2020

INDUSTRIALIZATION  
AND HOMOLOGATION  
PROCESS  
autumn 2020

the beginning 2021







# Optimalization of vehicle structure

Optimalization of vehicle => new platform of vehicle PMTM (Modular Platform Truck Melex)

On one platform, Melex will be able to offer a wide range of bodies in several segments and through modularity of body- building tailored to different customers. They will include passenger and utility vehicles intended for transport, maintenance of greenery, municipal and other works.

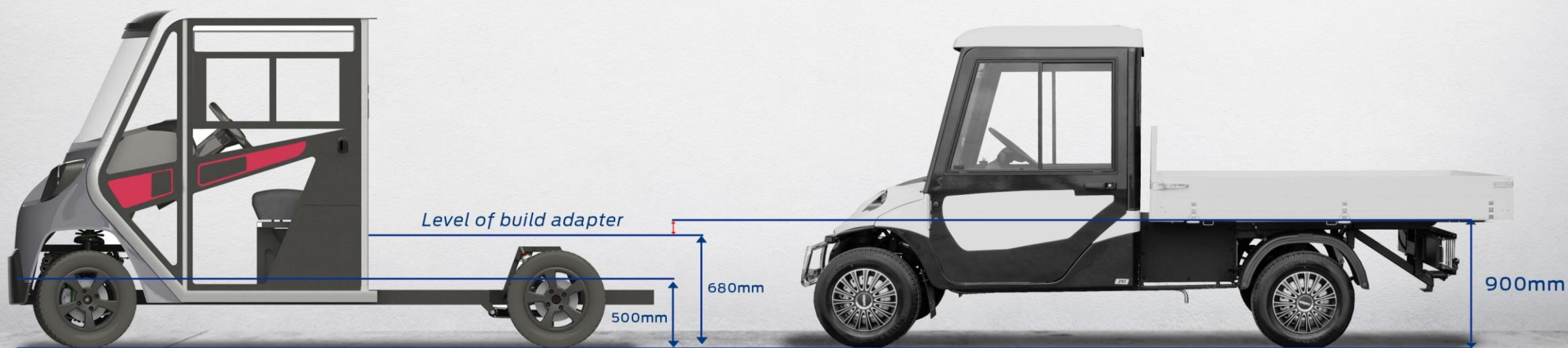
<i>short</i> platform 1950mm		<i>medium</i> platform 2500mm			<i>long</i> platform 3000mm			<i>6 passenger</i> platform 3500mm



## Optimalization of vehicle structure

### *Lowering the vehicle's center of gravity*

*The Truck Melex Modular Platform is flat, thanks to which the load level and the center of gravity of the vehicle will be lowered, which will make the vehicle more stable to drive.*





*New dashboard*







New Platform - New look





	N50	N50	N50	N50
	TECHNICAL DATA	TECHNICAL DATA	TECHNICAL DATA	TECHNICAL DATA
Wheel base	1950mm - short	2500mm - medium	3000mm - long	3500mm - 6 passenger
Length/Width/Height Standard Platform	2950 /1330/1850 mm	3450/1330/1850 mm	4000/1330/1850 mm	4400 /1330/1850 mm
Loading platform height	~ 500 mm	~ 500 mm	~ 500 mm	~ 500 mm
Wheels	13"	13"	13"	13"
DMC	< 3500 kg	< 3500 kg	< 3500 kg	< 3500 kg
Turning radius	~4m	~4,9m	~5,8	~6,7m
Max. Speed	~60km/h	~60km/h	~60km/h	~60km/h
Load	~800 kg	~1000 kg	~1000 kg	~800 kg
Range	< 150 km	< 150 km	< 150 km	< 150 km
Type of cabin	2 person	2 person/4 person	2 person/4 person	6 person
SAFETY				
ROPS/FOPS	o	o	o	o
NAPĘD				
Battery	10kWh/20kWh	10kWh/20kWh	10kWh/20kWh	10kWh/20kWh
Drive 4x4	o	o	o	o
SUSPENSION AND STEERING				
Front	McPherson	McPherson	McPherson	McPherson
Rear	wishbone	wishbone	wishbone	wishbone
Power steering	o	+	+	+
BRAKES				
Front	disc	disc	disc	disc
Rear	disc	disc	disc	disc
Parking brake	mechanical	mechanical	mechanical	mechanical
LIGHTING				
LED	+	+	+	+
ADDITIONAL EQUIPMENT				
Heating	o	o	o	o
Heated front glass	o	o	o	o
Rear view camera / speakerphone	o	o	o	o
HOMOLOGATION				
Homologation L7e/N1	L7e/N1	L7e/N1	N1	-

+ - standard      o - optional





# N.50

Thank you for your attention