



Redutowa: The First **Depot in Europe**
Designed for **Smartbuses**

From Ostrobramska to Redutowa – Lessons of a Pioneer

The depot is the heart of every transport system.

MZA Warsaw, as Poland's most innovative operator, conducted an operational assessment of its

Ostrobramska depot. The findings are typical of challenges faced by operators across Europe:

- peak-hour queues of up to 25 minutes,
- reversing manoeuvres as the main source of risk and stress,
- frequent minor accidents (mirrors, windshields, scratches),
- drivers forced to manoeuvre after their shifts instead of resting.

Redutowa: Safety as a Foundation

Redutowa addresses the challenges of Ostrobramska and similar depots:

- **no staff in the garage** – end of risky work underground,
- **autonomous vehicle movements** – predictable and supervised,



These lessons became the foundation for **Redutowa** – the first depot in Europe designed from the ground up for smartbuses.



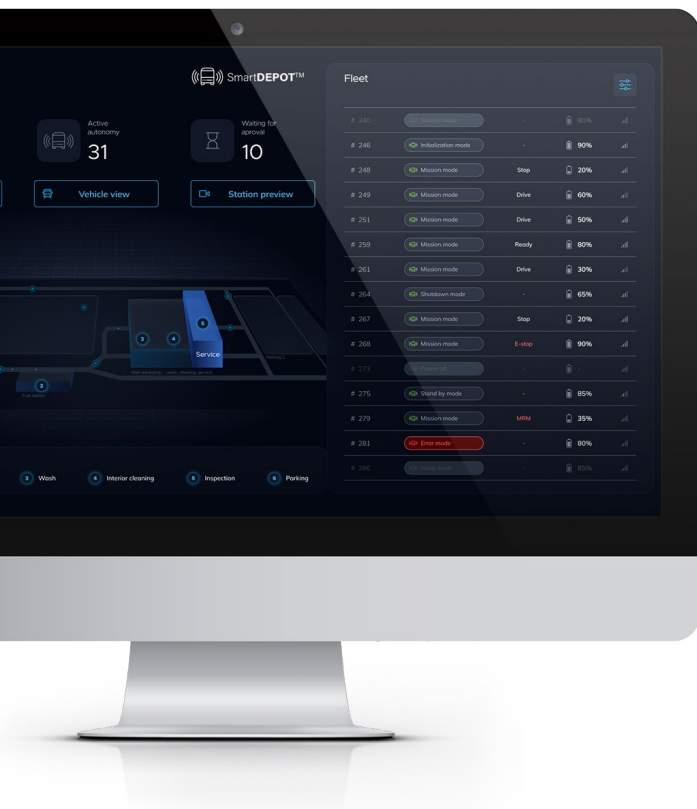
- **two-level structure** – compact, for 140 vehicles,
- **automatic fire evacuation** – fast, with no driver involvement.



Quote from President Kuźmiński:

„We are designing Redutowa so that in an emergency there will be no need to evacuate people – only vehicles. But safety is not just about fire scenarios – it is also about everyday working conditions. A driver finishing a shift should not have to worry about stressful maneuvers in a cramped hall. We want them to be able to rest immediately, while all the maneuvers are carried out automatically.”

Safety of people comes first: staff do not need to be present in the riskiest areas.



Smartbus control centre and the role of the Smartbus Coordinator

At Redutowa, all processes are integrated and managed from one place – the **smartbus control centre**.

- central planning and vehicle coordination,
- integration with chargers, wash bays, and workshops,
- real-time decisions on order, routes, and safety priorities,
- a new role – **the Smartbus Coordinator**: a specialist managing the fleet from a screen, not a steering wheel.

140 Smartbuses – Poland's Largest Opportunity

Redutowa has no ordinary parking slots. **Every place has been designed from the start with smartbuses in mind.**

For manufacturers, it is a clear signal: **buses must be ready to work with the autonomous driving system inside the depot.**

For operators, it is a chance to see what the depot of the future looks like in practice.

And for cities, it is proof that autonomous technology delivers real savings and greater safety.

140 smartbuses in one depot means a complete shift in how operations are run.



Business Case – Numbers from Ostrobramska

The operational assessment of Ostrobramska showed the scale of the opportunity:



up to **35 minutes saved per bus per day**,



elimination of 3–4 weekly collisions,



less downtime, higher fleet availability,



more than **PLN 383,000 (~EUR 88,000)** in labour cost savings per vehicle over a 12-year lifecycle.



This means benefits from day one: less stress, better working conditions for drivers, lower operating costs.

What Comes Next?

Redutowa is not a test. It is a project in execution.

MZA Warsaw first learned from Ostrobramska and is now building the depot of the future. The next step belongs to manufacturers, operators, and cities.

Quote from President Kuźmiński:

“Ostrobramska made one thing clear: every minute and every maneuver matters. That’s why at Redutowa, we want to implement technologies that cut queues, eliminate collisions, and deliver real savings – every single day. We’re building the depot of the future – the first to truly open the path toward autonomous urban transport. It’s already happening. The only question is: who will join the shift, and who will be left behind?”

Find out more

