

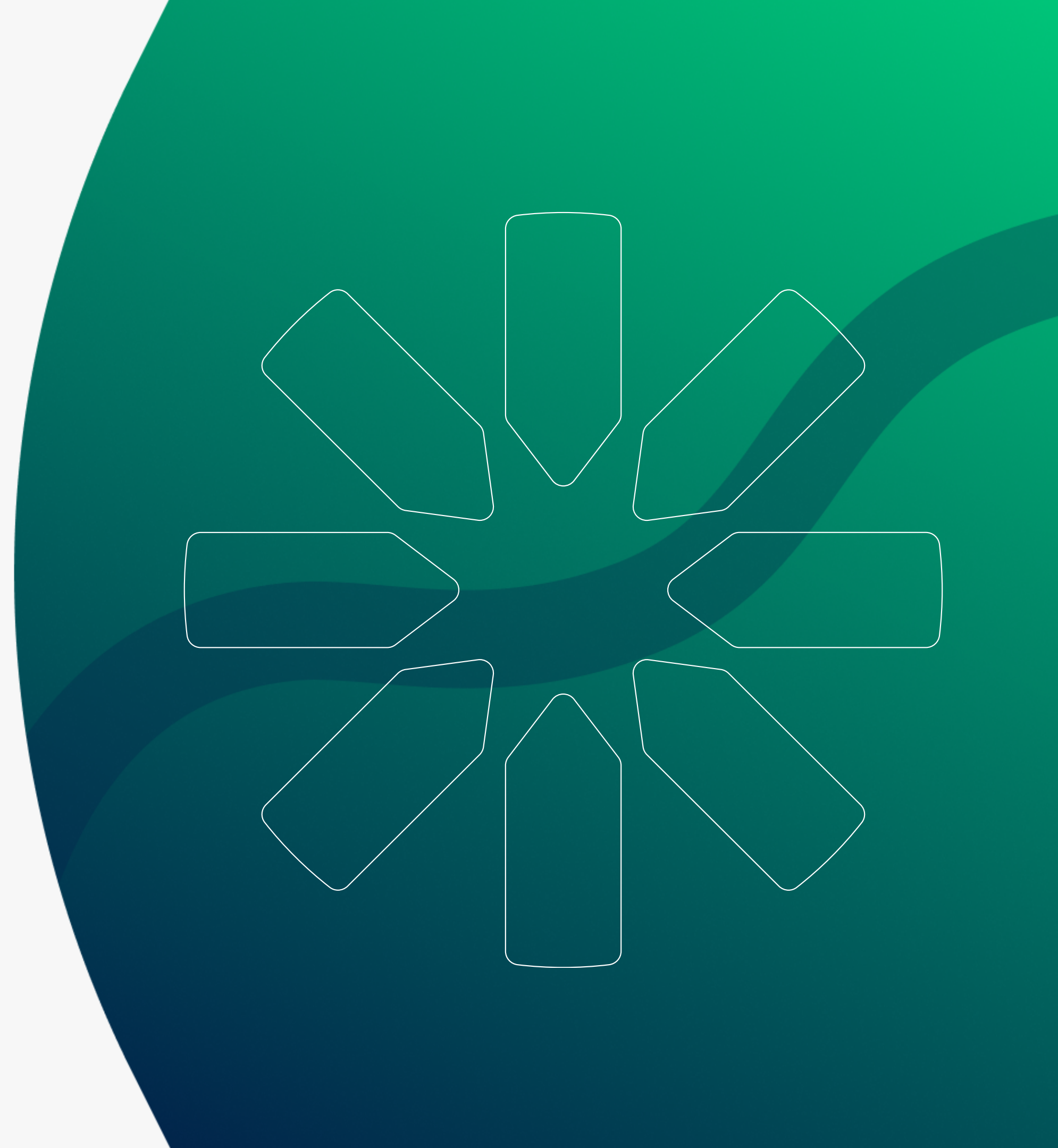


Predict the unknown.

Optimisation of the Supply Chain
and Aftermarket Logistic
using **Artificial Intelligence**.

YEAR
2024-25

PRESENTER
Martin Emery





OUR MISSION

By providing an advanced and customized technological solution to meet the specific needs of waste collectors, we aim to create a positive impact on our society.



“At OSCAL.AI we aspire to transform the unknown into measured and controlled predictions.”

- ▶ Transforming the way waste is managed.
- ▶ Promoting a circular economy.
- ▶ Reduce, recycle, and reuse resources.



Common challenges :

“

“Knowing how much and when to collect remains our greatest unknown...”

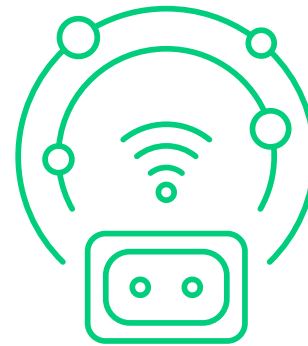
- ▶ Counter the effects of labor shortage.
- ▶ Forecast and predict required resources.
- ▶ Increase volumes and profitability.
- ▶ Combat seasonality.



Current solutions :



**Route Optimization
Software**



**Internet Of Things (IoT)
Sensors**



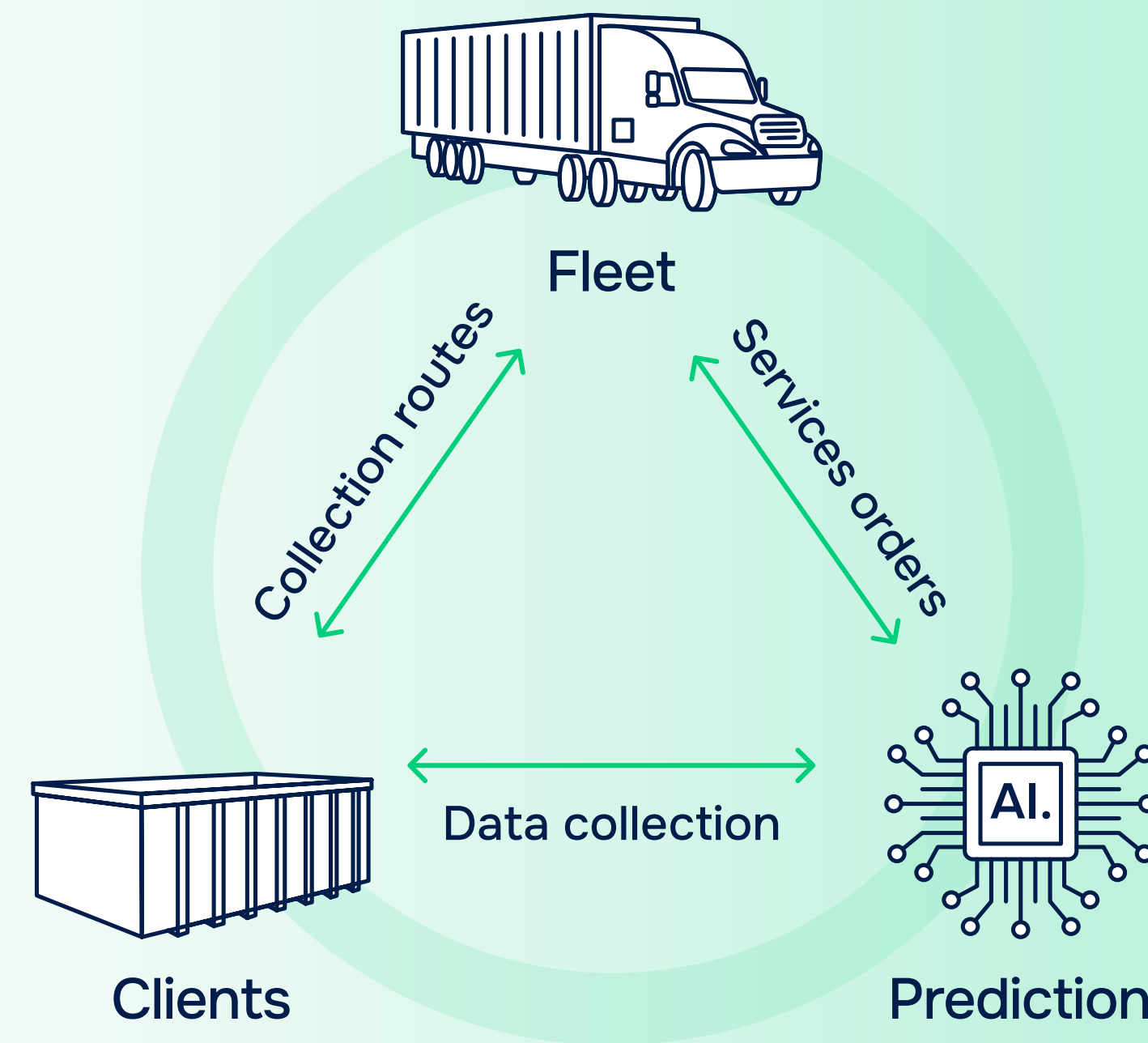
**Fleet Management
Systems**

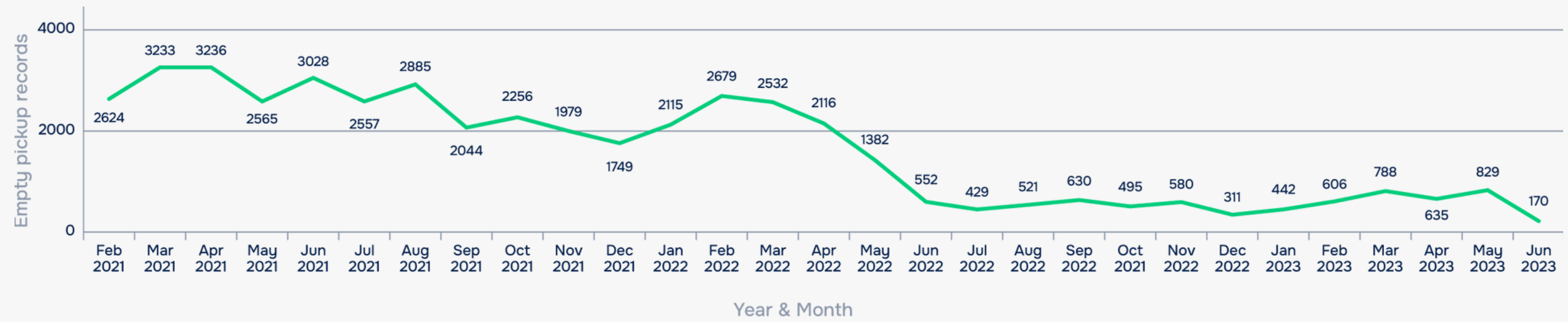


HOW IT WORKS

Predictive analytics using machine learning

Predictive analytics with machine learning for waste and recycling collection involves using data-driven algorithms to forecast optimal collection routes and schedules based on historical usage patterns and amount of material ready to collect.





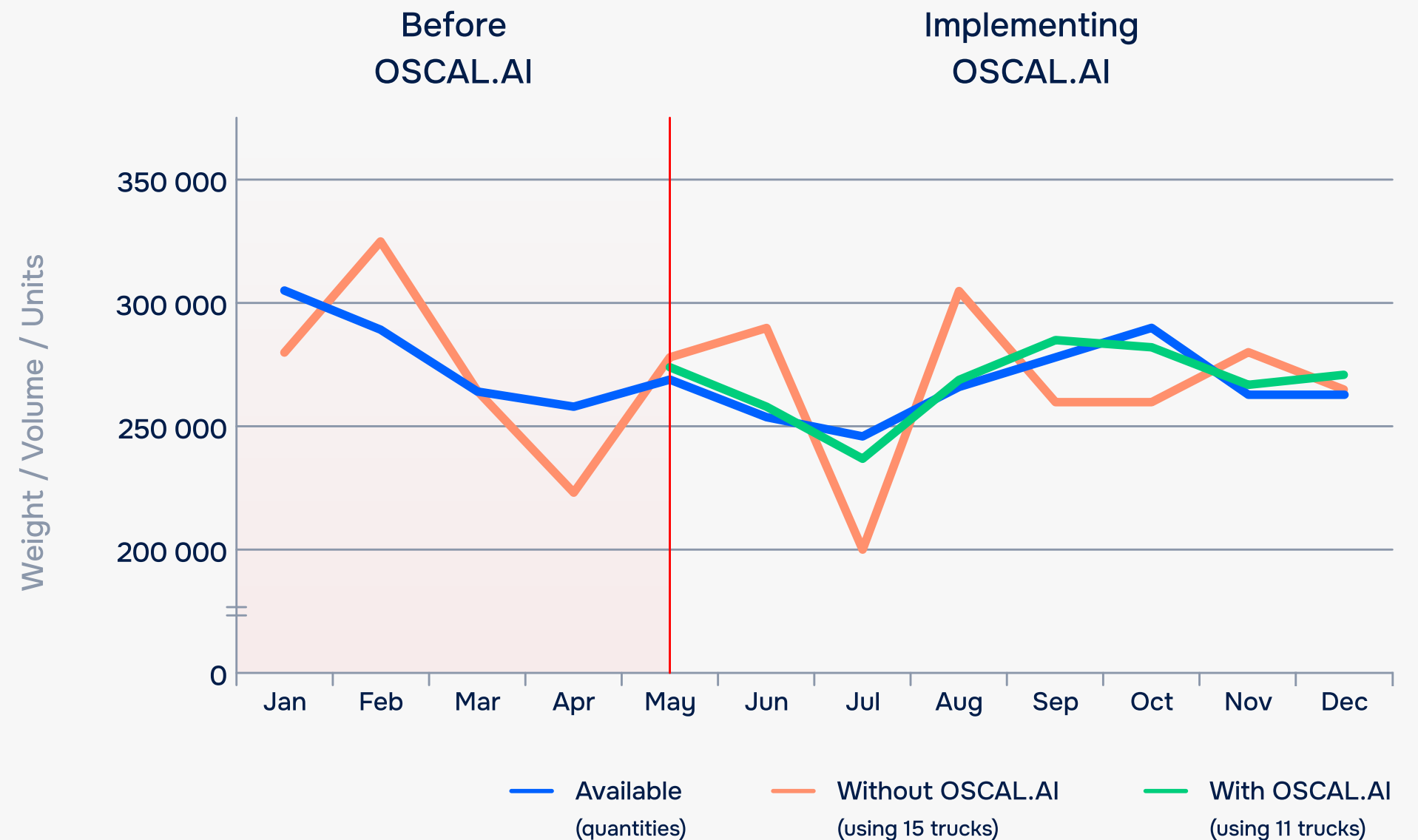


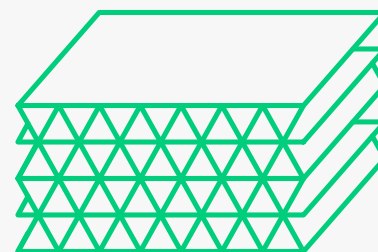
WHAT IT DOES

Optimize **your** **service level and** **volume collected**

Utilizing data for decision-making and enhancing the efficiency of waste collection to:

- Identify trends and patterns.
- Determine optimal service window.
- Improve operational efficiency.
- More sustainable outcomes.





Benefits for the reference period	Fiber		Oil	
	Light	Heavy	Mature	Growing
Number of trucks	-32%	-38%	-25%	-10%
Number of services	-27%	-57%	-41%	-24%
AVG weight per pickup	55%	136%	71%	57%



Knowledge equals empowerment

In a rapidly evolving industry, artificial intelligence equips us with the tools to provide improved services to our clients.

- ▶ Addressing the cost of unnecessary services.
- ▶ Effectively manage missed services.
- ▶ Proactively respond to client needs.
- ▶ Mitigate the risk of overflow.
- ▶ Reduce your environmental impact by doing more with less.



Thank You.

LEARN MORE
www.oscal.ai

