

Logistical Performance in Relation to Distance to Warehouse

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- Driving Automation

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How to Complete and Use the Model

To use the model correctly, begin by defining the location you want to analyze. The first step is to measure the actual distance from the warehouse to the store or destination. This distance is measured in meters and determines the position on the model's x-axis. Accuracy is important, as distance has a direct impact on overall logistical performance.

Once the location has been defined, the required data must be collected. This includes the total salary costs or number of working hours associated with logistics for the location. You should also record the store's operational hours, as opening times influence staffing needs and delivery patterns. The total number of daily trips between the warehouse and the store is a key indicator of logistical efficiency, while the number of trips made during rush hours highlights periods of increased congestion and cost.

After gathering the data, all four variables are plotted in the model. Each data point is placed at the same x-axis position, representing the distance to the warehouse, but displayed using different symbols and corresponding axes. This makes it possible to analyze each variable individually while still maintaining a holistic view of the location's logistics.

The final step is to interpret the background color of the model. The color zone represents the combined logistical performance of the location. Green areas indicate high efficiency and low operational strain, while yellow and red areas signal increasing pressure, inefficiencies, or potential risks. The background color acts as a visual summary derived from the interaction between distance, staffing, operating hours, and transport activity.

Interpreting the Results

A short distance combined with a green zone indicates an efficient logistics setup with low operational load and strong performance. In contrast, a longer distance paired with a high number of rush-hour trips suggests an increased risk of bottlenecks, delays, and hidden costs. If the model shows high salary costs but relatively few trips, this often points to opportunities for route optimization, process improvements, or better workforce planning.

Overall, the model serves as a practical decision-support tool, allowing you to quickly identify where logistics are performing well and where improvements are needed.

Ready to Move Out of the Red Zone?

If your data points are trending red, it may be time to rethink how internal logistics is handled.

Let's have a chat about the possibilities for automation.

Discover how flexible AMR solutions can help you reduce bottlenecks, improve efficiency, and future-proof operations.

We offer a **non-binding dialogue** where we review your current setup, challenges, and goals—with no obligation and no sales pressure: Contact our CCO Asim Ikram at aik@cm-robotics.com

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