

MRP Analysis Dashboard for Manufacturing ERP

A Power BI Solution Showcase

+ L U N I K O

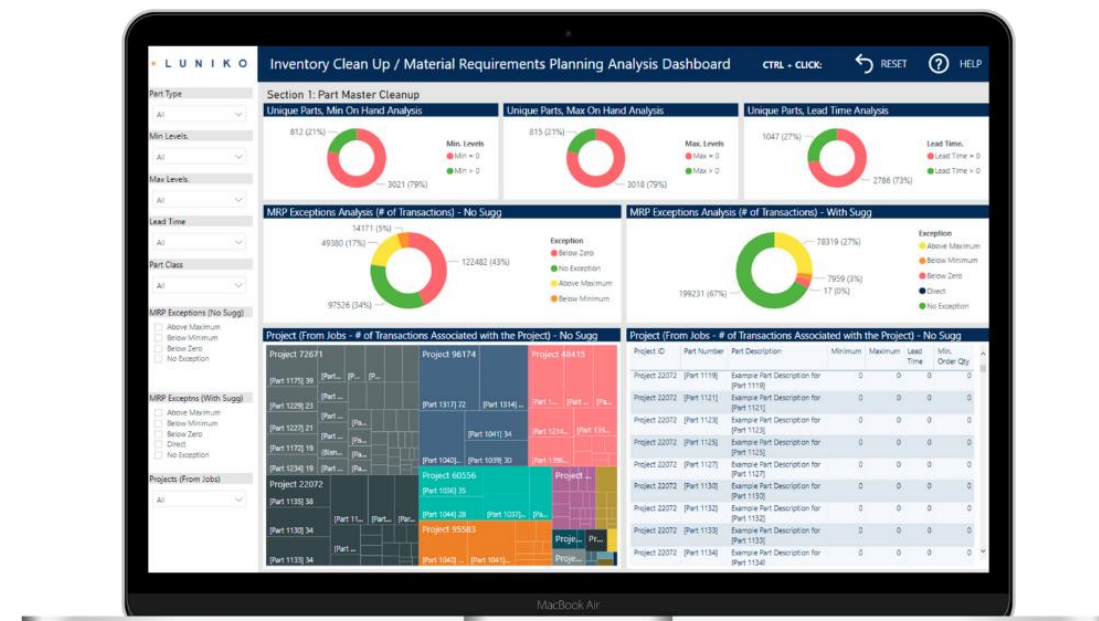
Solution Overview

Luniko has developed a material requirements planning (MRP) analysis solution that enables users to review parts data from their enterprise resource planning (ERP) system on a mass scale. With this report, users can

- quickly distinguish priority parts (parts with active demand);
- identify and update missing or inaccurate data for those parts within the ERP, and;
- visualize the resulting MRP outputs.

Objective

The objective is to identify parts with active demand and clean up the corresponding parts data within the ERP to be able to fully leverage the system's MRP capabilities.

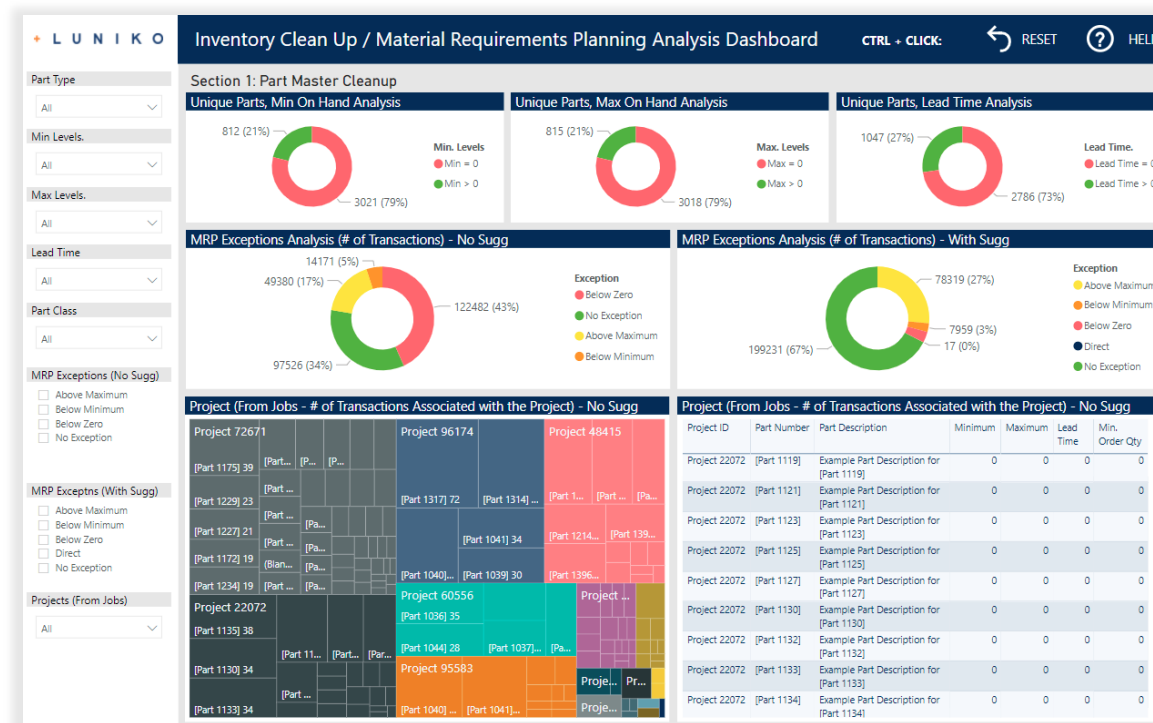


Section 1 Part Master Cleanup

This section visualizes data for all part numbers at a high level. These visualizations help users:

- quickly identify parts that are displaying unusual data;
- hone in on the min-max levels and lead times for each of these parts, and;
- use these insights to subsequently clean up the data in the part master.

This section of the dashboard also visualizes MRP exceptions so that users can easily pinpoint areas requiring immediate attention.



REMEMBER...

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Section 1 Part Master Cleanup

The top row of visualizations (1) enables users to identify parts whose data should be updated in the ERP system, specifically: (a) minimum inventory level, (b) maximum inventory level, and (c) lead time.

Viz 2 shows the forecasted number of parts transactions that would fall outside each part's min-max range should the business not take corrective action.

Viz 3 shows the forecasted number of parts transactions that would fall outside each part's min-max range should the client act according to MRP suggestions.

Viz 4 displays the volume of transactions related to specific projects and parts.

Viz 5 is a reference table that enables users to access additional information about a specific part, which they would select using Viz 4.



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Section 2 Time Phase Analysis

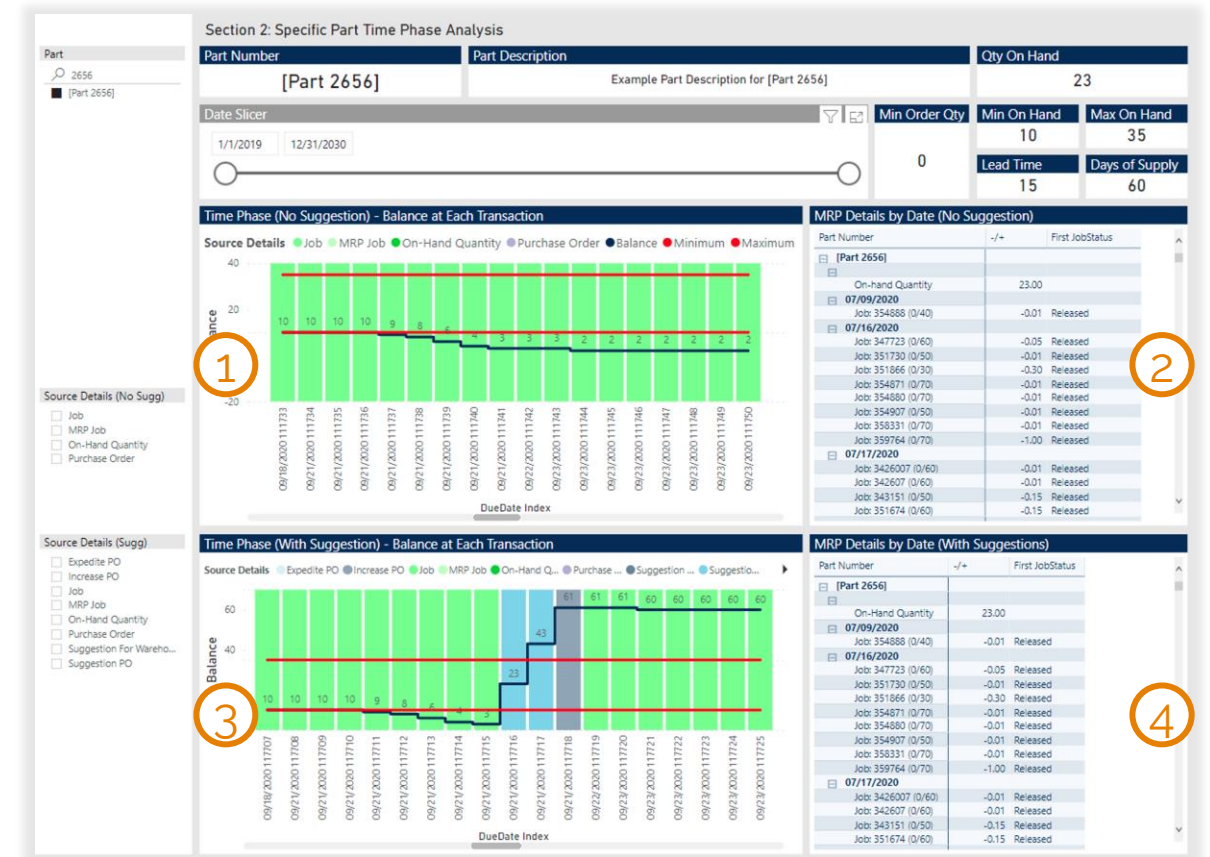
This section shows the time phase (line of balance) for a selected part. Users can select a part using the slicers on the left.

Viz 1 visualizes present and projected min-max levels and balance of inventory should the business not take corrective action.

Viz 2 is a reference sheet that enables users to access additional information about the selected part's time phase (**Viz 1**).

Viz 3 visualizes present and projected min-max levels and balance of inventory should the business act according to MRP suggestions.

Viz 4 is a reference sheet that enables users to access additional information about the selected part's time phase (**Viz 3**).



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Luniko Consulting is a boutique management consulting firm focused on strategy and project management for digital transformation initiatives. From local non-profits to global energy providers, we help organizations across North America get the most out of their data and technology.

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