Okay, let's imagine "Precision Dynamics Inc.," a medium-sized manufacturer specializing in custom aerospace components. Our primary goals for the next year are to increase production throughput by 15% and reduce scrap rates by 10% to maintain our competitive edge. The main challenge hindering this is our outdated, manual system for tracking jobs on the shop floor, which relies heavily on paper travelers and spreadsheets. This leads to delays, inaccurate inventory counts, and significant wasted time as supervisors hunt for job statuses, impacting our ability to meet delivery deadlines and increasing operational costs. We are looking for a new production scheduling and tracking solution to achieve real-time visibility into our manufacturing process. Success would be measured by hitting the aforementioned throughput and scrap rate targets, alongside a 20% reduction in time spent by supervisors tracking jobs. Currently, we're using a mix of Excel sheets and a legacy MRP system that doesn't offer real-time shop floor data; the lack of integration and real-time updates is a major drawback. Key functional needs for a new system include real-time job tracking, automated data capture from machines, integration with our existing MRP, and customizable reporting dashboards. When deciding, the most important factors for us will be ease of implementation, the system's ability to integrate with our current tools, proven reliability in a similar manufacturing environment, and strong post-sales support. We have allocated a preliminary budget for this initiative, sourced from our operational improvement fund, and are evaluating solutions within a specific investment range.