WISER Systems:
Real Time Location & Tracking System (RTLS)

NCMS Technology Showcase
FRC East

PROBLEM STATEMENT

Real Time Location Systems play a crucial role in addressing inefficiencies in manufacturing by:

- providing real-time visibility
- optimizing resource utilization
- reducing search times,
- enabling preventive maintenance,
- optimizing workflows,
- ensuring quality control, and
- facilitating data-driven decision-making.

Implementing RTLS technology can result in a more agile, responsive, and efficient manufacturing environment.

BENEFITS

RTLS is particularly useful in manufacturing environments that are chaotic, unorganized, and unstructured. By automating location-based updates, RTLS can improve reliability, speed up every step of the undertaking, and ultimately increase output by:

- Cutting down the time spent on reporting
- Keeping a better pulse on product quality parameters
- Gathering fresh data on production cycles and schedules
- Identifying bottlenecks and choke points
- Auto-tracking inventory
- Preventing unplanned downtime
- Clarifying opportunities for improvement
- Increasing productivity --and revenue --overall

TECHNOLOGY SOLUTION

- Provide asset visibility to prevent delays
- Monitor work-in-progress to identify bottlenecks
- Optimize resource allocation to minimize downtime, ensuring equipment availability when needed
- Reduce search time wasted searching for tools, components, or products
- Proactive predictive and preventive maintenance to reduce unexpected breakdowns and extend lifespan of equipment.
- Optimize workflow to identify opportunities for process improvement and implement changes that enhance the overall efficiency of the production line.
- Identify quality control issues enabling timely interventions
- Data-driven decision to identify areas for improvement

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