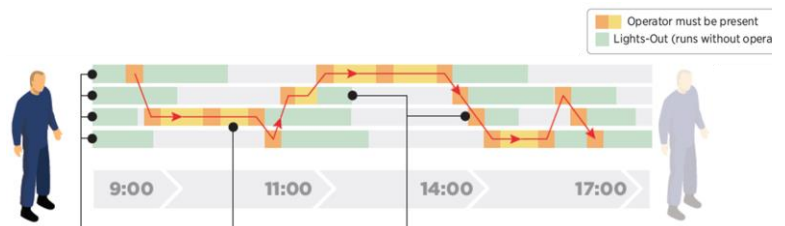# OPTIMAL PATH SYSTEM

Built on **CNC Machine Monitoring** that allows data visualization and powerful long-term analysis, **Optimal Path System** (OPS) matches live machine data with CNC programs in order to plan the activities of machinists on the shop floor
increasing uptime **by 20%** while doubling the number of machines that can be managed per operator.

Main Features

- **Compare estimated time with real time:** OPS uses algorithms to calculate the optimal sequence of actions for the machinist. It adapts to delays, reworks and to the start of new programs machines and identifies where human intervention will be required.

- **Monitor your availability and performance:** View real-time KPIs such as overall equipment effectiveness (OEE), availability rate, units produced and machine downtime by shift, machine or team.

- **Analyze tendencies:** View availability trends by week, month or year to gain insight into your productivity, and spot opportunities for improvement.

- **Visualize machine status in real-time:** Upload a floor plan of your factory and track machine status at a glance in order to react quickly when needed.

- **Display important KPIs:** View machine status at a glance, updated live on any device (TV, tablet, laptop)

- **Complete dynamic scheduling solution:** OPS positively complements machine monitoring and advanced planning scheduling (APS) solutions.

Benefits

- **Lower production cost:**
  - A machinist runs multiple CNC machines at the same time.
- **Minimize human intervention**
  - OPS calculates when and where a machinist is needed and suggests where to go next to prevent downtime.
- **Increase productivity**
  - Analytics help detect opportunities for improvement to CNC programs by improving lights-out, planned stop or stay-on-machine sequences.
- **Respond without delay**
  - All departments benefit from real-time data, from the shop floor to higher management.
- **Improve communication between the shop floor and the methods department**
  - Help empower your employees, track the advancement throughout the day and meet your objectives and deadlines.

About Gemba Systems Inc.

Gemba Systems Inc. supports manufacturing companies in the digitalization of their operations, especially focused on improving their manufacturing execution systems. We help companies navigate the complex and fast-evolving landscape of "smart manufacturing" and the Industrial Internet of Things. We offer guidance, tools, and hands-on support in the selection and implementation of those industry 4.0 technologies that will best support our clients' most critical business processes, and the people who perform them.

People

Our expert team will guide you through your digital transformation and operational excellence journey with the following services:

- Digital strategy development and execution support
- Needs assessment and opportunity prioritization
- Cost / benefit analysis, ROI assessment, and project justification
- Functional specifications development
- Vendor selection
- System implementation and integration
- User training and support
- Project planning and execution support

Processes

Gemba Systems will help you achieve your digitization, digital transformation, and operational excellence goals by implementing effective and efficient processes that deliver the best total return and realize the intended value of your solutions, from planning and assessment through testing, deployment, operation, and continuous improvement.

Technology

Gemba Systems Inc. offers guidance, tools, and hands-on support in the selection and implementation of proven or promising Industry 4.0 technologies, such as augmented reality (for digital work instructions and inspections, remote technical assistance or warehousing operations), real-time asset location tracking, productivity (OEE) reporting, advanced planning and scheduling, and more.

For more information, please visit www.gemba.systems or contact us at alain@gemba.systems.

GEMBA SYSTEMS™