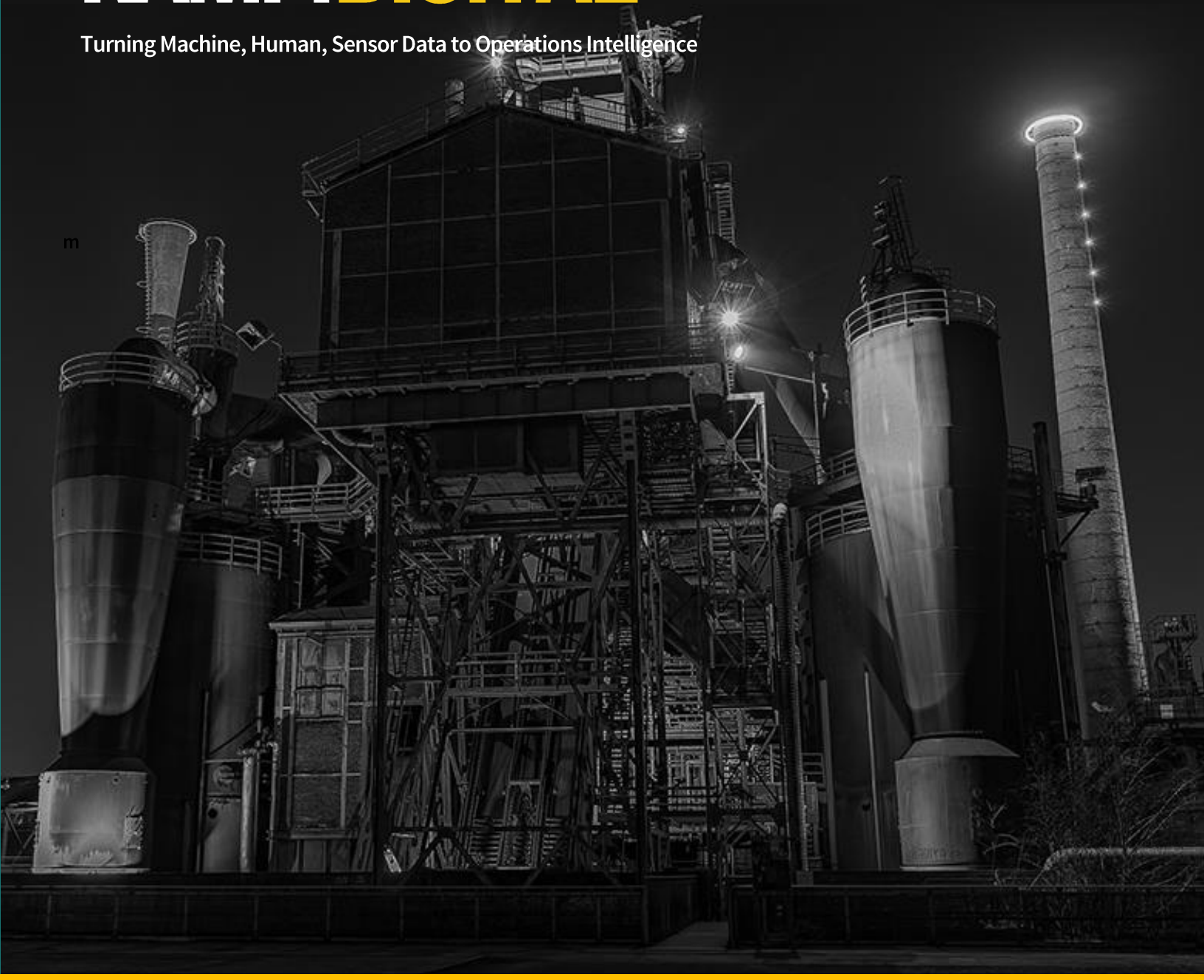
RAMP.DIGITAL

Turning Machine, Human, Sensor Data to Operations Intelligence



m

227 S Main St, Suite C
Milpitas, CA 95035 USA
info@ramp.digital
www.ramp.digital

ramp.digital
IoT for business

[Ramp Enables Industrial IoT]

Industrial IoT, Smart Factories or Industry 4.0 refers to use of sensors and data generated to control the flow of material, products and information with minimal human intervention. By industry experts' estimates could boost their productivity by 30% with the aid of Industrial IoT.
**Internet of Things/ Everything*

Companies and industries worldwide, based on their ability to harness IoT over the next decade, will capture tremendous value from it.

The value will come from key areas:

- Asset utilization
- Employee productivity
- Supply chain and logistics
- Reducing unplanned downtimes
- Innovation, including reducing time to market

Ramp provides custom software that allows machines, equipment and processes in your factory to communicate with each other in automated way. This is primarily done by connecting ramp software with existing computers and control systems that you have in place or by instrumenting additional sensors in the factory floor to gain visibility into aspects you never had before. All the data from the industrial systems or sensors is collected aggregated and processed continuously to give customers' 3-dimensional operational intelligence anywhere in the world on computer or smart phone.

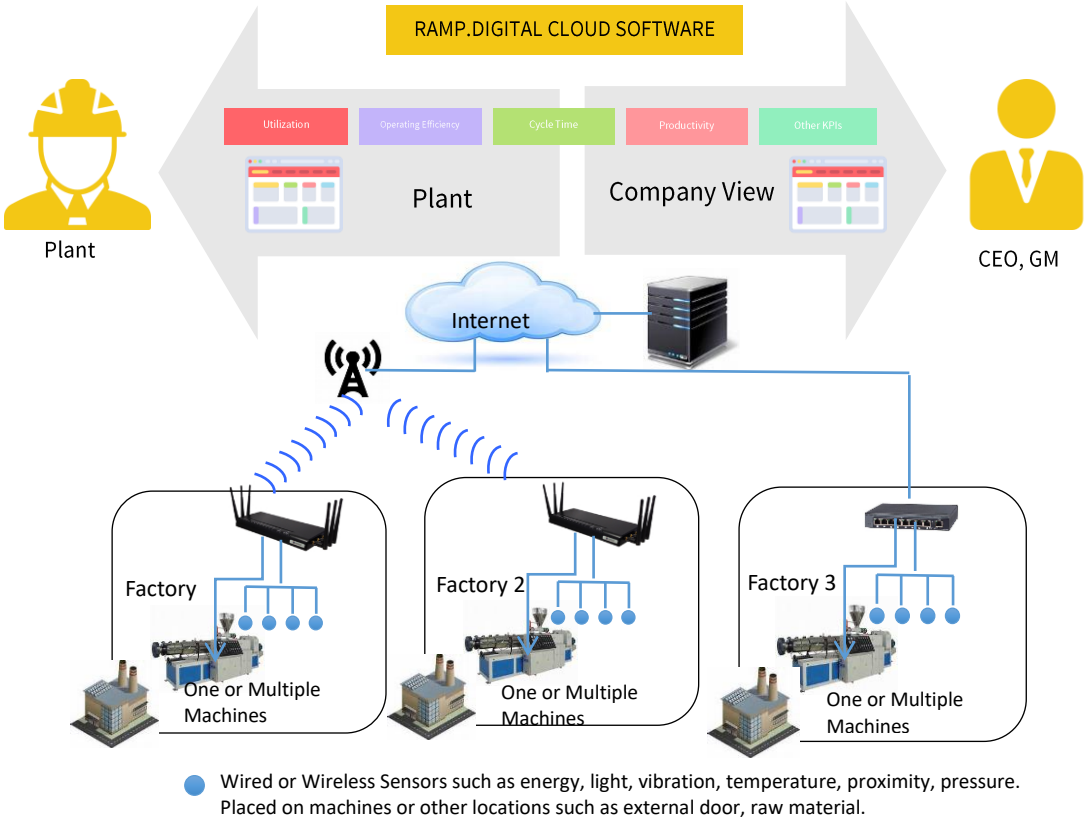
Some examples are -

- How is your factory doing today, right now?
- Are all production lines functional? Are they performing at planned capacity?
- What is the utilization of your high value machine? Are your capital assets under or over-utilized?
- How can you optimize maintenance of critical machines in the company so as to minimize service down time and at the same time not spend money on un-necessary maintenance? That is, service a machine just-in-time based on clear usage data from sensors.

[Clear visibility]

Break silos with Industrial IoT: Imagine the potential you could unlock in productivity, reducing costs and finding opportunities for growth, if you had a single real time, up-to date, KPI dashboard from all your factories at your fingertips.

Sensors give objects the power of perception—into conditions such as temperature, pressure, voltage, motion, chemistry and usage. Sensor-driven computing converts perception into insights (using industrial analytics) that operators and systems can act on.



60% of enterprises worldwide think IoT is strategic and can help them gain competitive edge. Ramp can get you that competitive edge. FASTER!

Real time visibility with dashboards and KPIs

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KPI: Key Performance Indicators, e.g. Throughput of a production line, Average Machine Use Time etc.

Historical Trends for Cause effect analysis

Log all historical information from sensor data with time stamps & context to produce easy to understand trends and charts. Un-cover insights about single factory or multiple factories and benchmark performance to raise early warning, alarms about anomalies next time.

Reporting and Compliance

Create reports on operational data, process data quickly and automatically to share within the company to outside for easy collaboration or compliance.

Optimize Costs, Operations & Workflows

Understand parameters like energy consumption, utilization, throughput etc. per machine, per production line or at factory level. Reduce maintenance costs & avoid costly downtimes by exactly identifying when does a machine need to be serviced based on its real time usage and condition. Get early warnings of possible equipment failure using advanced techniques such as detecting unusual current drawn pattern of a machine.