WAVE 7

DRIVE A 20%+ IMPROVEMENT IN PLANT OPERATIONS, ALL FROM YOUR SMARTPHONE.

Improve operations from a smartphone?

It's true. Right now you can analyze stocks, use amazing analytical tools to predict performance, and grow your wealth (or not), all from your smartphone. Yet you can't see if your plant is running, if you'll make your quota or if a problem is brewing. In fact, the typical way you try and make improvements or solve problems is after the fact, by manually looking through a 25 tab Excel spreadsheet filled with week old data.

What if you could have actionable information, in real-time, right on your smartphone? Not data – information. Would you be able to impact your operations in a positive way? Would your decision makers be empowered to make positive changes in real-time?

With Wave7 the answer is yes.

Unfortunately for most manufacturers, their chosen plant floor vendors are trying to provide a solution in the same old monolithic way, but that's never going to work. The solution requires a complete re-think; a viable, big data ready Manufacturing 2.0 solution that leapfrogs the currrent archaic offerings.
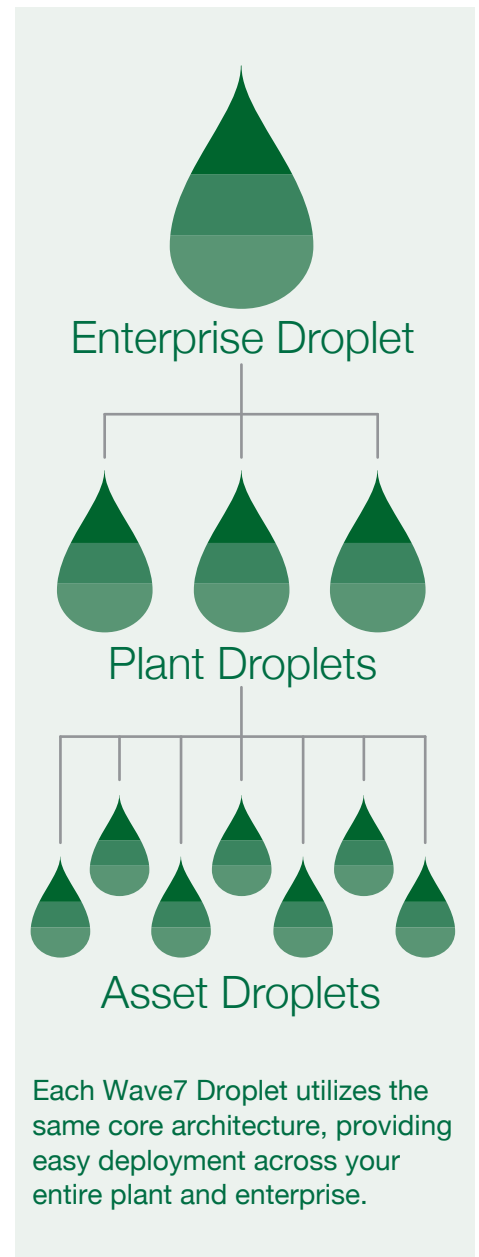
Data, more data and Big Data.

Amazingly, most plant floors already have valuable data, but data isn't information, and manufacturers are still in the same information poor position they've been in since the 1990s. To make matters worse, the Industrial Internet of Things is going to increase the amount of available data by orders of magnitude, and shortly almost every manufacturing asset will be monitored by IP addressable sensors. Massive quantities of data are certain, the question is what to do with it all. Clearly, those who learn how to ride the wave of information mining and visualization will have a competitive advantage.

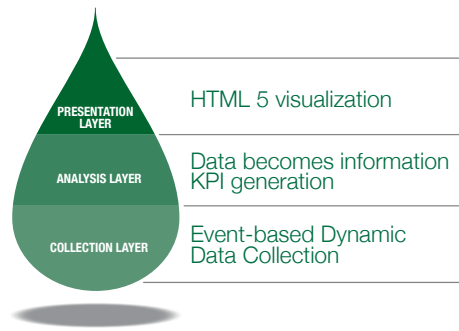### The Wave7 Droplet. Turning data into actionable information.

Manufacturing 2.0 is defined by focus and purpose, so the solution must share the same characteristics. The Wave7 platform was designed from the ground up to solve any information need. No massive monolithic software and services requirement, just a simple modular, scalable solution. Wave7 connects intelligent data collection to analysis and visualization, all through a lightweight, modular device called a Droplet. The Droplet delivers *any* KPI from *any* of your assets in real time, and it doesn't require a large investment.

Enterprise Droplet

Plant Droplets

Asset Droplets

Each Wave7 Droplet utilizes the same core architecture, providing easy deployment across your entire plant and enterprise.

We know the plant floor.

Wave7 is the only solution designed for factories and plants engaged in discrete and batch manufacturing.

Wave7's Event-based Dynamic Data Collection is the "Unhistorian." Historians are legacies of the continuous process industry, and Wave7 engineers re-imagined the very way in which data is collected. Instead of doggedly collecting every data point based on time, the Wave7 Droplet models the condition of your machine or process and collects data that is correlated, economical and attached

PRESENTATION LAYER — HTML 5 visualization

ANALYSIS LAYER — Data becomes information KPI generation

COLLECTION LAYER — Event-based Dynamic Data Collection

The Wave 7 Droplet is built for big data

to events in real-time. The ability to model the data coming from an asset and then compare it to known or unknown condition patterns means you can make assessments, adjustments and decisions in real-time.

The Analysis Layer of the Droplet is where data is transformed into actionable information. Aggregation, conditioning, analysis and KPI generation allow the presentation of information to be role specific, actionable and real-time.

The native HTML5 Presentation Layer visualizes the KPI's you need and delivers them right to the palm of your hand. Wave7 is designed for both iPhone and Android based phones and tablets, as well as any other HTML5 compatible device.
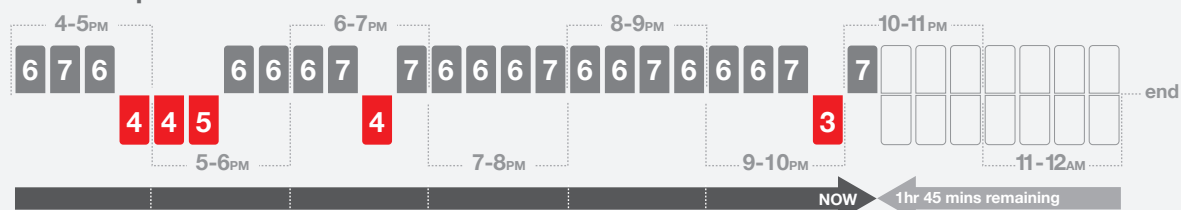

Aircraft Manufacturing Inc. Western Region. Factory 14.

Shift 3. April 12 2015. 4PM-12AM
Duration: 8 hours

Line 16: landing strut fasteners
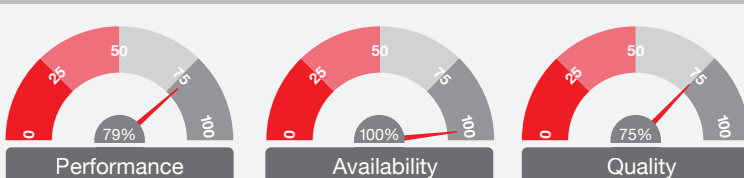**Operator:** 00002345
Supervisor: 00005372

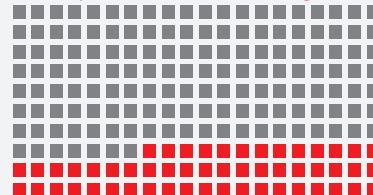|	
Production Target:	**200**
Avg. hourly output need:	**25**
Current avg. hourly output:	**23**
Projected output shortfall:	**16**

WAVE7

Line output—15 min totals.

● On track   ● Below quota

4-5PM: 6 7 6
5-6PM: 4 4 5
6-7PM: 6 6 6 7
7-8PM: 4
7 6 6 6 7 6 6 7 6 6 6 7
8-9PM
9-10PM: 3
10-11PM: 7
11-12AM

end

NOW — 1hr 45 mins remaining

Overall Equipment Effectiveness **59%**

Performance — 79%
Availability — 100%
Quality — 75%

Completed: 147   Remaining: 53

Simulated presentation of a common Wave7 metric display on a big screen or mobile device.

The Wave7 advantage.

Wave7 provides you with an immediate improvement in your bottom line. Because each Droplet is a full Wave7 system, you can start with one on any asset, and see immediate returns. Once you've solved your first problem Wave7's modular architecture provides you with unlimited scalability. Whether you want visibility at the machine, plant or enterprise level, the Wave7 platform ensures actionable information across your entire organization.

Wave7 displaying KPI metrics in real-time on your iPad and iPhone.

Is your plant ready for the next wave of manufacturing?

http://wave7.systems

For more information call 509.203.4206

Wave7
104 Clover Island Drive, Suite 202,
Kennewick, Washington, 99336