



Making Smarter Operations Visible



## SOLUTION BRIEF

## YARD OPERATIONS

In this era of exploding new technologies like artificial intelligence (AI) and the industrial internet of things (IIoT), it's surprising how primitive and manual yard operations are for bulk material producers and manufacturing companies.

Now, there's a way to harness these new technologies and capitalize on new opportunities to increase productivity.

# THE HARD FACTS

Research shows that the yards with the most efficient operations are efficient because of a variety of factors, especially those about how people interact with the machines and equipment, and the flow of operational steps. Most yards can't automatically capture data around these interactions and flow with the automated analytics to determine its states to tell a complete story or lead to productivity improvement.

## THE PROBLEM

The current manual processes of tracking truck activity, times and weights are slow, incomplete, and unreliable. GPS systems are unable to precisely track vehicles within a facility and cannot produce granular data on yard entry and exit, weigh stations, or loading/unloading docks.

Frequently, managers cannot figure out which truck is in the yard and at what location. In fact, they don't have accurate or up to date data captured to tell their customers whether their trucks are stuck in their yard for loading or if they're even in the yard at all.

Further, managers have no true visibility into how long a truck is taking in each of the loading and unloading zones nor can they identify opportunities to reduce cycle time.

## THE SOLUTION

Automate your entire yard operation with real time, digital feedback, gathered automatically and displayed simultaneously.

This visual stream of data is actionable intelligence delivered to your operational team in the same moment it's captured allowing them to immediately intervene and resolve issues on the spot.

Actionable intelligence = increased productivity!

That's Atollogy.

## A (MUCH) BETTER WAY

Atollogy was founded to give everyone real-time reporting on critical activities and events in their yards. With Atollogy, decision makers are fed actionable intelligence in real time enabling them to take immediate action to correct an operational issue and get back full productivity.



# HOW ATOLLOGY WORKS:

1

## Instrument



Non-invasive sensors and Atollogy Outriggers are rapidly installed. No retrofit necessary and it's adaptable to any vintage machines.

2

## Analyze



Atollogy captures the data to our cloud, feeds the artificial intelligence pipeline, and translates your physical operations into analytical data.

3

## Action



Atollogy delivers real time feedback of actionable intelligence to understand and act upon.

Actionable intelligence is machine-derived information you can actually understand and find valuable. This intelligence was either nonexistent or insanely costly due to all the various moving parts in typical operational environments. Atollogy enables your team to deal with issues on-the-spot in real time and avoid management by wandering around (MBWA). Many users report discovering insights and seeing benefits in the first two weeks of operating with Atollogy.

# YARD OPERATION SOLUTION

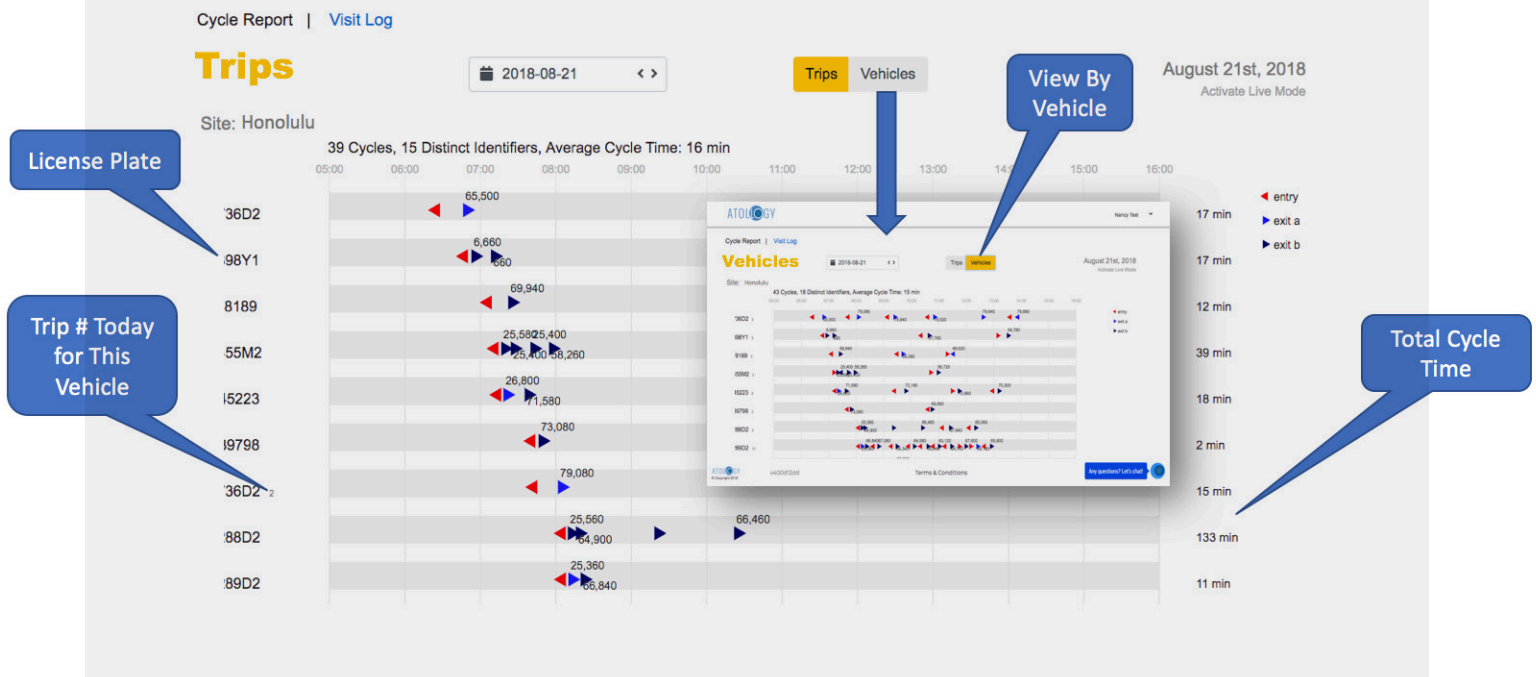
Atollogy's Yard Operations Solution gives you the full picture - by measuring both machines and equipment (utilization) & people (efficiency), true productivity is captured for the first time.

Atollogy can deliver:

- Average truck cycle time inside facility
- Truck entrance and exit times including truck identification
- Actual visit time stamps sharable with your customers.
- Duration trucks wait to be unloaded after arrival
- Duration a loading dock was inactive while trucks were waiting in the yard
- Actual weights of truck loads and real time alters when trucks are overloaded

## VEHICLE MONITORING: Cycle Times, Weights & Trips/Day

Composite Analytics generated by these measurements give supervisors and operators a view of current operational status driving real time actions and responses.



## GET STARTED WITHOUT DOWNTIME

Atollogy's sensor devices can be installed in minutes without the need for IT support, changes to existing processes, or downtime. Based on a few simple questions, we'll begin learning about your operations and concentrate on your known pain points. Soon, you'll be seeing new operational insights as soon as the first week and we'll help point out secondary areas that could use improvement too.

- The sensors watch and learn how to visually identify movement in the yard
- Computer vision tracks movement of vehicles in and out of the yard
- Sensors monitor equipment status without costly hardware or interfaces
- Outriggers connect automatically to manufacturing cloud to feed AI processes
- Actionable insights are delivered via situational composite analytics



## TRY IT NOW

Empower your team to make real-time, informed decisions that decrease cycle time without retrofit and increase margins without disruptions to yard operations, all without expensive investments in new machinery or IT infrastructure. Atollogy's Yard Operations Solution democratizes enterprise-level IIoT and AI technologies to deliver true, "always on" visibility into operations with rapid time-to-value.

Ready to see a 10% productivity improvement? Contact us today.

650-382-0065

[atollogy.com](https://atollogy.com)





## Atollogy Partners

### About Atollogy

Atollogy's proprietary algorithms and capabilities are revolutionizing how physical operations are managed by integrating the physical world with artificial intelligence. Our goal is to help our customers leverage enterprise-class computing and analytics without the need to endure the pain, expense, and process changes of classic enterprise systems. Atollogy is a privately held startup founded in 2016 with headquarters in Santa Clara, California.

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