

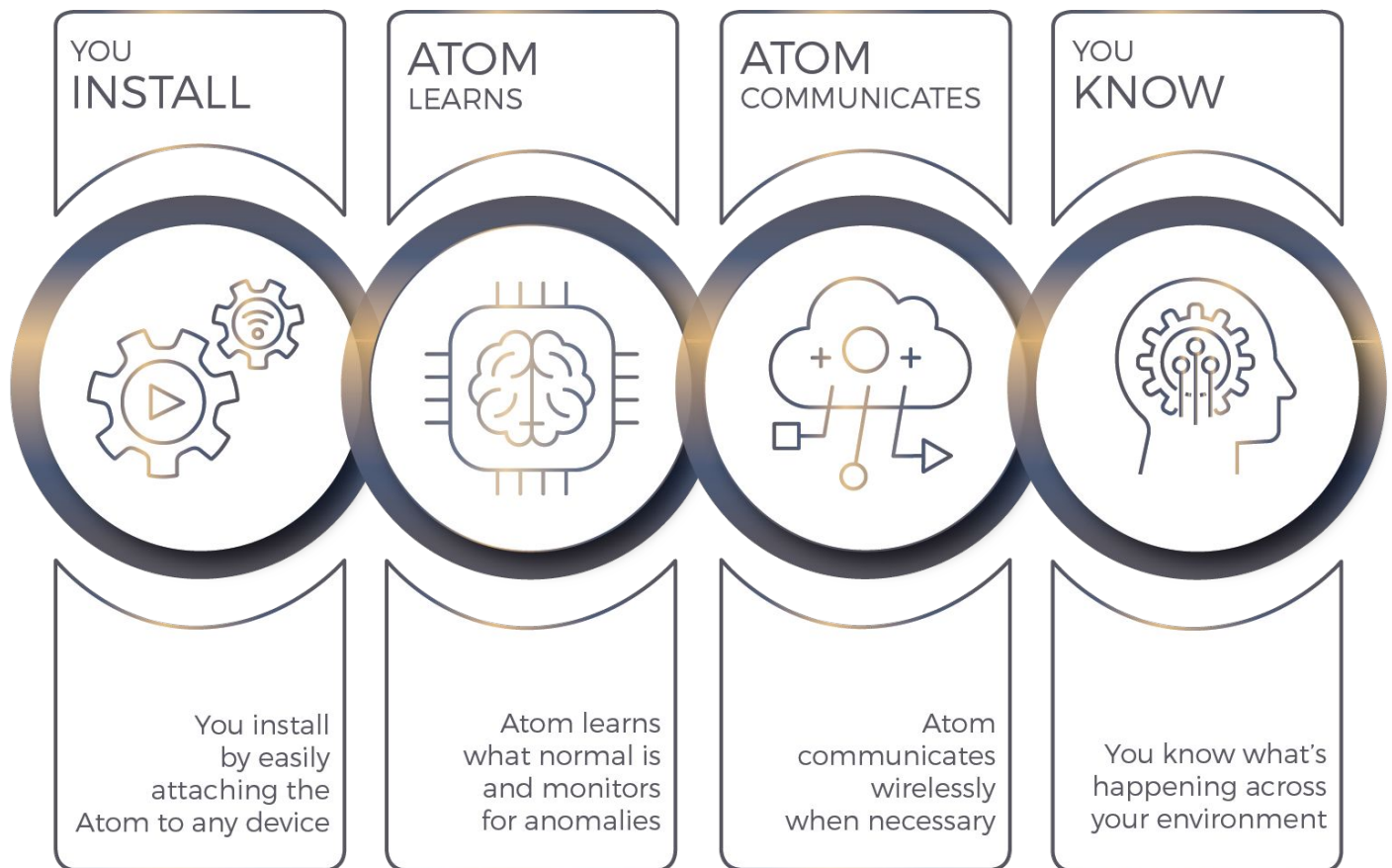
Simple, Smart
and Scalable
IoT Solution

Automation

Add Legacy Devices to the IoT

Atoms are easily installed on any machine regardless of age or type, allowing previously overlooked equipment to be added to the IoT. Atoms do not require additional IT infrastructure or complex integrations. Set-up can be completed in minutes by anyone on your team with the Atomate It! app. Atoms are easily configured and users can continuously add Atoms to the platform, giving you insights on machinery, engines and devices that aren't currently monitored by existing networks.

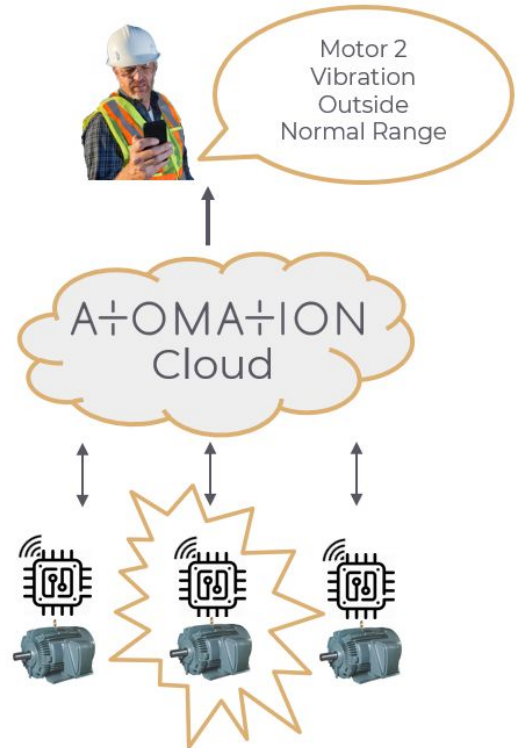
- Understand normal behavior of your devices and monitor usage
- Immediately identify equipment abnormalities and failures in the field
- Dispatch resources more efficiently to manage equipment acting outside of normal or exhibiting issues
- Reduce downtime, improve operational forecasting and increase organizational efficiencies



The Power of Atoms

No Custom Programming | No Lengthy Implementation

Atoms are small, battery-operated wireless sensors with computing and memory capabilities. Atomation's secret is the powerful edge computing capabilities that allow Atoms to recognize normal operational behavior for any device. Atoms continuously monitor and process information locally, instead of sending a constant stream of data back to a central system. When thresholds are exceeded or your equipment is acting outside of normal, Atoms send information, notifying you of problems before your equipment fails.



Solution Features



Easy Installation



One-Touch Configuration



Exception-Based Alerts



Wireless Communication



Battery Powered



Track Equipment



Continuously Add Atoms

The Atomation Platform

Atom Specifications

AT-C 1.0

Simple “Early Warning” for Machinery

- **Sensors:** Vibration, Temperature, Humidity, 3-Axis Accelerometer, Impact
- **Wireless Communication:** Bluetooth Low Energy
- **Size:** 28.5mm x 17.7mm

AT-R 1.0

Compact Robust Sensor Solution

- **Sensors:** Vibration, Temperature, 3-Axis Accelerometer, Impact, EMF Connection to External Sensors
- **Wireless Communication:** Bluetooth Low Energy
- **Size:** 57.91mm x 64.01mm x 35.05mm

GW-R 1.0c

Connect All Atoms to the Cloud

- **Wireless Communication:** LTE Cat-M1 Cellular and Bluetooth Low Energy
- **Compatibility:** AT-C 1.0 & AT-R 1.0
- **Size:** 146mm x 87mm x 57mm



Access Actionable Information Anywhere

Atomate It! Mobile App

- Android and iOS compatible
- Activate Atoms
- Collect Data
- Graphs and Sensor Data
- Configure Profiles
- Set Thresholds

Cloud Database

- Analytics
- Graphs and Maps
- Historical Data
- Set Up Email and Text Alerts



Atoms in Action

Customers Solving Problems with Atoms



Atoms Monitor Any Device

Motors Pumps Cranes Refrigerators Gears Bearings
Transformers Conveyor Belts Pulleys Valves

Case Study: Motor Manufacturer

Goals

- Avoid machinery failure and downtime
- Improve efficiencies for maintenance visits
- Increase post sale-revenue using aftermarket service

Requirements

- Add on device for predictive maintenance
- Adaptable for most types of machines

Results

- Improved scheduling of maintenance visits
- Reduced equipment failures and downtime through proactive maintenance and exception-based alerts
- Over 1000 devices deployed in field





Smart

Atoms combine onboard sensors and computing with an individualized object profile to understand normal operational behavior and communicate only when necessary



Simple

Atoms easily attach to any object regardless of age or type and transmit information wirelessly to our cloud without additional customer IT infrastructure



Scalable

Flexible, cost-effective solution that is quick to deploy and configure

A÷OMATION

190 Carondelet Plaza, Suite 1130
St. Louis, MO 63105
www.atomation.net | 314-379-0150