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Build a bright future with 3 must-have technologies

Look forward to smoother, predictable planning

You're all too familiar with changes in your world of operations and asset management. You've always overseen the day-to-day – keeping operations costs down, critical equipment running, clients safe and happy, maintenance requests moving, and energy consumption under control. But in this time of unprecedented change, your expectations have grown. You're being asked to attain new infrastructure funding, build smart systems to anticipate problems, hit aggressive sustainability targets, proactively engage your community, and evolve your operations over a growing footprint. You're constantly on the hunt for ways to streamline and speed up your day-to-day while planning for the future.

The opportunities are tremendous, but how do you capitalize on them when your head's-down in the day-to-day? New technology can help and it can be scary, too — new learning processes, new systems to teach your team and new ways of doing things. Change isn't always easy, but the key to good change is knowing what will make things better, making it all worth the investment.

That's where these 3 technologies can illuminate your future.

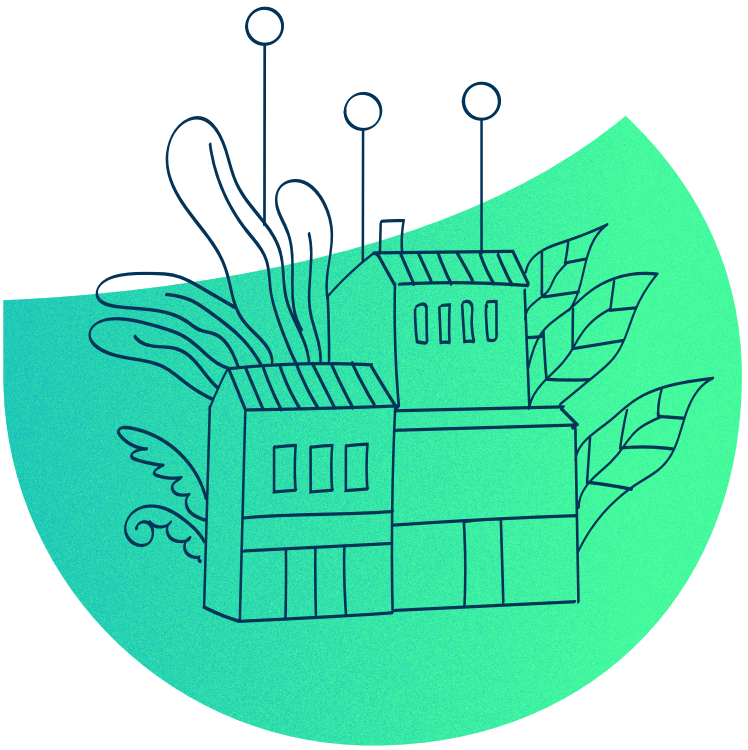
They're each about making connections that can help you:

- → Complete work faster and easier
- → Maximize your team resources
- → Improve the safety and longevity of your organization
- → Predict asset breakdowns and needs sooner

It all comes back to smarter asset management and looking toward a better future, one where you have a complete picture of all your assets, so you can build sustainable, safe and thriving communities.

Let's dive in to learn more about the three technologies you need to future-proof your organization:

1. **Internet of Things (IoT)**
2. **Strategic Asset Management (SAM)**
3. **Enterprise Asset Management (EAM)**



Internet of Things

You've likely already heard of the Internet of Things (IoT), and while the term sounds a bit generic, this little acronym has massive real-world value — when understood, that is. IoT has been said to be 'the next IT' and is the future of communicating between devices. And, we believe that it's going to become a crucial part of your operations management in the future.

What is IoT?

IoT refers to interconnected sensors, instruments and other devices networked together within computers' industrial applications. This connectivity allows for data collection, exchange and analysis, and it facilitates improvements in productivity and efficiency with the overall goal of improving asset performance, uptime, longevity and ultimately profitability.

IoT connects with many types of systems, assets, devices and sensors:

- HVAC, lighting and security systems
- Modern "smart" devices such as doorbells, speakers, and lights
- Asset and facility sensors that measure temperature, pressure, vibration, hours run, etc.
- Internet-ready personal devices such as mobile phones, tablets, smart speakers

Whether you realize it or not, you likely already have many IoT devices in your possession that wirelessly share data (typically through the cloud). And, your maintenance operations will similarly benefit from sharing digital data directly from your facilities and assets.

Why does IoT matter?

Within your workspace, whether that be a manufacturing floor, school, hospital, community or otherwise, you have plenty of devices and assets that you need to monitor.

Imagine if you had an IoT connection that could do all your monitoring and alert you when your HVAC unit gets too hot, or if that piece of machinery's vibration is off. And, if connected straight into your CMMS (computerized maintenance management system), it allows your assets and facilities to tell you when they need help and attention. For example, is a production asset vibrating outside of tolerance, possibly affecting quality? Is a pump running too hot and risking failure?

Having answers to these questions streamlines preventive maintenance and extends the life of an asset, promoting both greater profitability and sustainability — two critically important goals for organizations.

Now, think of all the time and hassle that could save your team, especially when IoT reduces asset downtime.

IoT will help create better uptime and quality production, leaving more time for your team to continue onto more productive tasks. And, you can look forward to a more preventive culture, better controlled costs and improved profitability.

Trends in IoT: from a subject matter expert

Imagine if our assets could tell us if they need help — automatically, 24 hours a day. IoT is a phrase we see in articles and reports all of the time, but most have a hard time understanding where the practical use — and more important — value derives. “IoT” as a simplified technical term means that billions of devices, sensors, networks, assets, software and people can share information. In the manufacturing world, this democratized the ability to inexpensively and efficiently share information from the factory floor. IoT, especially combined with artificial intelligence and machine learning, leveraged by modern cloud-based software is making our manufacturing operations more streamlined and efficient (“lean”). This will promote more uptime, keep your teams optimized and ultimately improve profitability.

That IoT data is getting into operators’ hands through things like artificial intelligence (AI), machine learning (ML) and IoT platforms. IoT also helps fuel predictive (PdM) and prescriptive (RxM) maintenance.

IoT is a conduit to get us data. AI, ML, platforms, PdM/ RxM is the intelligent use of this data. This intelligence will make our operations software smarter, furthering a lean and efficient organization with maximum uptime.

Paul Lachance
Senior Manufacturing Advisor, Brightly

Strategic asset management

Strategic asset management is all about making future-based decisions to improve the way assets are managed and utilized – and it's paying big dividends for organizations utilizing it.

What is SAM?

Strategic asset management (SAM) is an established approach to asset management for long-term planning for maintenance and operations.

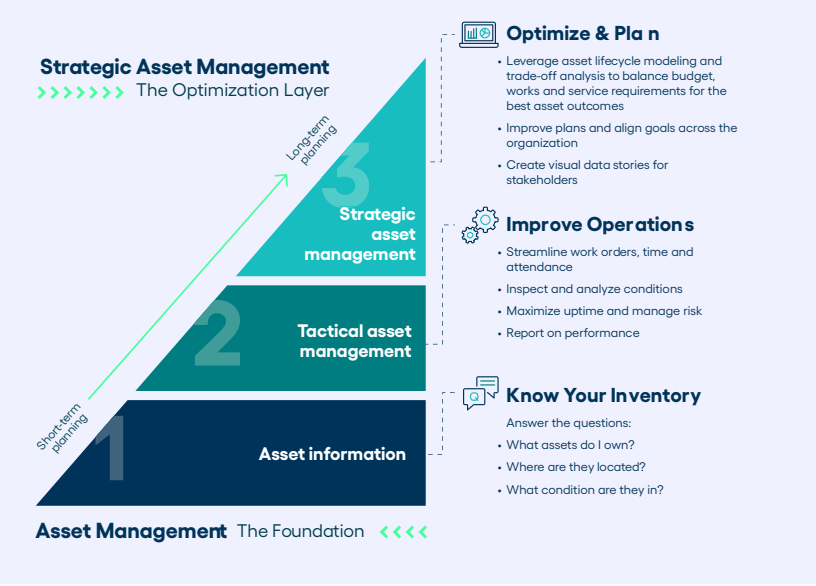
Strategic asset management is a framework that can be used to understand and visualize asset management needs today and 5, 10 and 20+ years into the future. It is an approach that delivers solid, integrated long-term capital works and financial plans that powerfully demonstrate the consequences of today's decisions on tomorrow's infrastructure and facilities.

Why does SAM matter?

Strategic asset management helps give your organization the answers to important questions like:

- How much funding do you need for specific assets?
- Where should you spend your budget?
- Which assets are likely to fail?

Industry-specific algorithms help accurately predict the future condition and service state of an asset portfolio and create powerful visualizations that show how different funding strategies would impact assets and service to inform and align stakeholders across roles.



The engine & partner you need to power this technology

Any change in technology requires three things:

1. The right technology
2. The right team
3. The right partner

Each of these elements is critical to your success. You need a software platform that empowers you to utilize these new technologies to discover efficiencies and data that transform your organization for the better.

Ready to get started using our data-driven engine to power yours? **We're ready to take the next steps with you.**

Trends in SAM: from a subject matter expert

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We’re moving into a world of unparalleled technological pace using cloud analytics, true platform-driven approaches, open integration APIs and software with ever-more subject matter expertise built in. Today, a new SAM practitioner has emerged – no longer one who develops a capital works program or populates a register or configures a CMMS; the practitioner of today owns the skill of telling a story about the future. We are in an era now where the best story, backed by evidence and choices, will be the one that gets funding, stimulus or rate cap reviews.

We’re moving to a world where the following game changing predictions are within reach:

- 2025: Asset inspections, above and below ground or underwater, will be totally drone and robot operated with AI that determines asset health
- Mechanical, electrical and structural assets will be self-diagnosing, completely eliminating time-based maintenance
- Data is available on an hourly, nightly and daily basis from IoT, and asset management plans are a live dashboard in central control rooms
- 2030: The reality of future-proofed build – gender sensitive design, adaptive facilities, driverless transport compliance and climate resilient infrastructure

Ashay Prabhu
VP, Strategic Asset Management, Brightly

Enterprise Asset Management

What is EAM?

Enterprise asset management, or EAM, is a more future-proofed way to manage physical assets by understanding the entire lifecycle of each asset within your operational ecosystem.

Through integrating strategic asset management with preventive and predictive maintenance, EAM gives operators and executives a complete picture of their assets, enabling them to make smarter data-driven decisions about repair, longevity and lifecycle.

Why does EAM matter?

When paired with a solid preventive and predictive maintenance program, EAM software analyzes the data gathered and gives you a holistic view of where your assets are today and what you need tomorrow, allowing for better financial planning.

With EAM, you gain the insights you need to proactively plan for and complete maintenance, protecting your assets so they last longer and preventing costly shut-downs. When you can see this across your entire asset portfolio, you gain a clear understanding of the future of each asset and can make adjustments to optimize.

EAM makes it possible to:

- Stretch asset lifecycle by understanding age, condition and longevity
- Create reactive, corrective, predictive and preventive maintenance work
- Predict asset breakdowns and needs sooner with data and analytics on the full lifecycle
- Provide data for better capital planning, so it's easier to predict needs and allocate resources

Trends in EAM: from a subject matter expert

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That wraparound of enterprise — all data on all assets — enables you to have a better predictive model and drives automation. If you know what you've got, where it is, what condition it's in, you can automate that with IoT sustainability. It enables you to have a better predictive model that drives automation. The two come together to show all of your assets across multiple locations, facilities and geographic regions.

You want to know every asset you've got — where it is, how it's performing, its condition. Because, if you know all that data, you can use that as the basis of building out predictive models and predictive maintenance, and really improving the efficiency of your maintenance regime in that core CMMS piece, such that you're making more informed decisions.

It's building that sustainability piece into the lifecycle of your asset, which you don't get if you're purely managing maintenance.

Marc Evans
VP, Strategic Asset Management, Brightly

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Each of these elements is critical to your success. You need a software platform that empowers you to utilize these new technologies to discover efficiencies and data that transform your assets and your organization for the better.

Ready to gain the insights you need to plan and protect your assets? **We are ready to walk you through the process.**

About Brightly Software

Brightly, the global leader in intelligent asset management solutions, enables organizations to transform the performance of their assets. Brightly's sophisticated cloud-based platform leverages more than 20 years of data to deliver predictive insights that help users through the key phases of the entire asset lifecycle. More than 12,000 clients of every size worldwide depend on Brightly's complete suite of intuitive software – including CMMS, EAM, Strategic Asset Management, IoT Remote Monitoring, Sustainability and Community Engagement. Paired with award-winning training, support and consulting services, Brightly helps light the way to a bright future with smarter assets and sustainable communities. For more information, visit brightlysoftware.com

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