

# 5 market trends facing the manufacturing industry

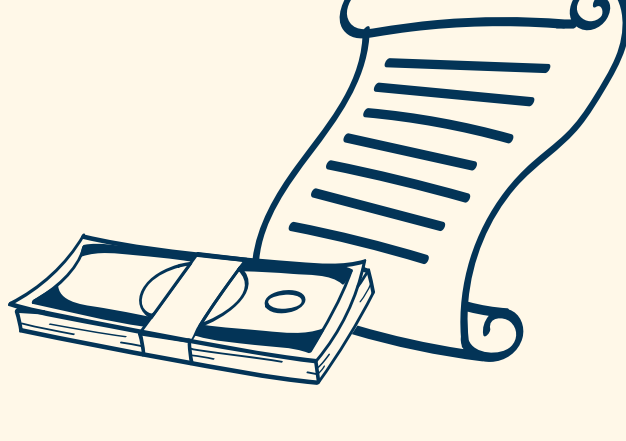
How Brightly can help you make the most out of operational and asset data



## Trend 1

### Using data to access the Infrastructure Investment and Jobs Act (IIJA) and other funding

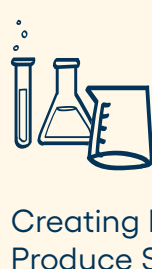
In the US, lawmakers have passed funding opportunities and manufacturers can take advantage—so long as orgs can prove they qualify.



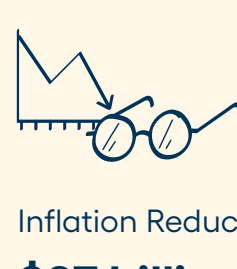
#### Funds available:



IIJA:  
**\$1.2 trillion**



Creating Helpful Incentives to Produce Semiconductors and Science Act of 2022 (CHIPS Act):  
**\$50 billion**



Inflation Reduction Act:  
**\$27 billion in competitive grants**

Total funds: **\$1,277,000,000,000**

#### What will you need to access these funds? Data!

Manufacturers can use strategic asset management tools to easily access the data required to apply for IIJA and other grants. Applications will require data on things like:

- Lifecycle costing
- ESG assessments
- Climate resilience

Money is there if you know where to look—the key is leveraging data to apply and qualify for government funding. A [computerized maintenance management system \(CMMS\)](#), paired with an [energy management solution](#), is the ticket.

## Trend 2

### Sustainability, rising energy costs and using data to help

A shift towards sustainability can help businesses meet environmental goals, realize cost savings and attract investors.



Quality and sustainability must be symbiotic, especially as utility costs skyrocket

**81%**<sup>1</sup>

share of all industrial energy used in the U.S. that goes to manufacturers

**30%**<sup>2</sup>

of energy is wasted in the average building

**30%**<sup>2</sup>

of all U.S. greenhouse gases are emitted by the manufacturing industry

#### Investors will increasingly rely on environmental, social and governance (ESG) data to make investment decisions

Companies seeking investors will need to follow sustainable manufacturing practices and prove their compliance with data on things such as:

- Reducing waste
- Improving energy efficiency
- Using renewable materials

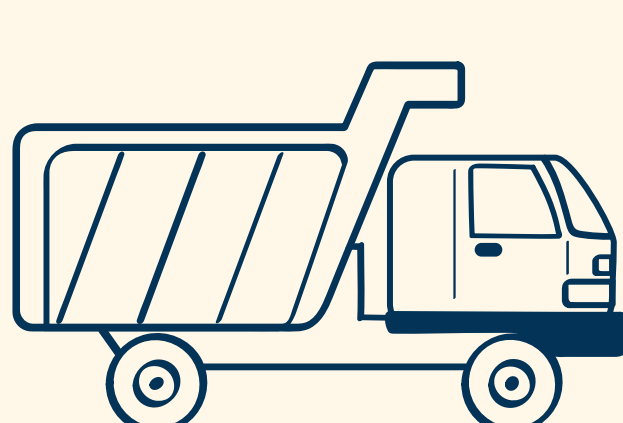
**89%** of investors consider ESG issues as part of their investment approach<sup>3</sup>

**46%** of investors cited lack of robust data as the biggest hurdle to adopting ESG as part of the investment process<sup>3</sup>

## Trend 3

### Simplifying supply chain challenges with data

From timing and procuring to higher costs, if anything is causing your operations professionals grief, it's the supply chain.



#### Uncertainty persists in supply chain management

Over the past 12-18 months:

**80%**

of executives report experiencing “heavy” to “very heavy” impact of disruption to supply chains<sup>4</sup>

**72%**

believe that a persistent shortage of critical materials and ongoing disruptions present the biggest uncertainty<sup>4</sup>

#### Data helps manufacturers work smarter, not harder to solve supply chain issues

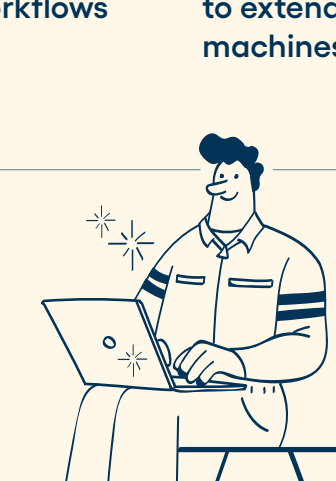
The right tech can centralize operational information so you can make wise business decisions.

- Know the ins and outs of inventory
- Easily manage parts ordering
- Optimize your business's workflows
- Utilize asset tracking to extend the life of machines

## Trend 4

### Using data to make sense of skills and assets

Manufacturing is more than machines producing products; it's a web of people, workflows, factories and plants, inventory and supplies, all connected.



#### Past, present and future, data brings the full picture into view

Past	Present	Future
<ul style="list-style-type: none"> <li>Analyze performance to benchmark OEE</li> <li>Predict maintenance</li> <li>Track progress against <a href="#">key performance indicators (KPIs)</a></li> </ul>	<ul style="list-style-type: none"> <li>Analyze profit-per-hour</li> <li>Reduce energy consumption</li> <li>Document processes and training procedures</li> <li>Identify hidden bottlenecks</li> </ul>	<ul style="list-style-type: none"> <li>Run optimization models</li> <li>Identify where improvements will make the most impact</li> <li>Predict profitability with more accuracy</li> </ul>

## Trend 5

### Tackling health and safety challenges with centralized data

If manufacturing managers track everything on paper or in disparate systems, it can be too easy to skip an inspection or miss a training opportunity.



#### Mitigate risk by documenting and checking all the boxes for safety

**13,455,000**<sup>6</sup> numbers of workers in manufacturing industries at risk for fatal and non fatal injuries

**\$1 billion** per week<sup>7</sup> estimated total cost per week workers in the U.S. paid for non worker's compensation costs

#### Tech can ease workforce management

As trends with labor pose huge health and safety challenges, it's more critical than ever to create, document and build procedures and policies into the day-to-day workflow of your ops department.

- A CMMS can boost digital documentation for all aspects of manufacturing operations:
  - Work orders
  - Equipment and asset conditions
  - Safety manuals
  - Utility use

- Smart tools can also help track:
  - Asset health
  - Workflows
  - Compliance data

## Get ahead of trends with Brightly

Whether it's [Asset Essentials](#) to centralize data, Brightly [Energy Manager™](#) solution to help lower energy bills and gain tangible data on sustainability initiatives across your organization, or [Brightly Stream™](#) to achieve ambitious energy, water and carbon targets with scalable ESG data software and expert services, Brightly understands manufacturing.

Brightly's cloud-based solutions are backed by experts excited to partner with manufacturing leaders to ensure operations are at their most efficient, asset life cycles are extended and teams can be as productive as possible.

To dive deeper into the trends above, check out our full-length [Guide](#).

#### Sources

- U.S. Energy Information Administration, "Use of energy explained"
- U.S. Environmental Protection Agency, "CI brochure"
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- Deloitte "2023 manufacturing industry outlook"
- CDC.gov "Manufacturing Program: Occupational Safety and Health Risks"
- OSHA.gov "Business Case for Safety and Health"