

A Comprehensive Guide to No-Code Process Improvement Tools

Learn How These Tools Are Changing the Game for Manufacturers





About Cadynce

At Cadynce, we believe improving processes is the key to success. Striving to improve processes and foster efficiency creates an environment where teams can collaborate and align to business goals. Cadynce allows business leaders to connect all the dots for your business allowing you to scale and boost profits.

Our team at Cadynce is committed to working together and providing an environment where ideas can be shared and teams can work together to reach their objectives. This is the key to achieving better results for everyone involved.

Cadynce allows collaboration, creativity, and positive change to thrive. We give our employees the ability to take risks and embrace change in order to keep climbing to advance our goals.

We strive for creativity in all aspects of collaboration, from problem-solving to innovation. By embracing change we stay adaptable and resilient as a team.



**We look forward to helping you
Find Your Cadynce!**

An introduction to No-Code Solutions

Business gurus tell us that typical operational process improvement challenges in manufacturing can be resolved through software technology.

While the vision of common process improvement methodologies propelling the organization into the efficiency hall of fame is enticing – it's also unrealistic for many manufacturers.

Small to mid-sized organizations or family-run companies often lack the budget or IT team needed to

put complex, end-to-end ERP solutions in place. This deficiency can be life-



threatening in high-stake situations. Fortunately, game-changing low-code/no-code tools are now available, giving manufacturers the ability to create process improvements — without needing developers on staff.

Our Journey So Far

The low code development platforms (LCDPs) provide seamless and simplified techniques for IT professionals and other workers within an organization. The tools have rapidly gained recognition and acceptance among business process management leaders — largely due to COVID-related pressures. Global lockdowns created challenges for new ways of working, collaborating, sharing data insights, and selling to consumers. Remote workers required self-serve software tools to help them remain productive when the company IT team was no longer down the hall.

With an influx of new technology and digitalization, the way work is done has drastically changed. This is true for manufacturers as well as consumer-based businesses. So, with great granddad's long-held processes obsolete, company owners have been forced to find the next generation of process improvement management tools for tracking and



According to [Fortune Business Insights](#), the global low-code development platform market is projected to grow from about \$14 billion in 2021 to \$95 billion by 2028, at a CAGR of 31.6% from 2021 to 2028.



managing production, inventory, orders, customer records and financial data. Most manufacturers have not implemented a continual improvement process strategy. Static spreadsheets and manual processes no longer make the grade for any organization.

The need to re-define software strategies has caused enterprise software providers to change focus from touting behemoth on-premises ERP solutions to offering quick-to-deploy multi-tenant cloud solutions, including Manufacturing Execution Systems (MES) for shop floor operations for discrete and mixed mode manufacturers. A whole



McKinsey reports that organizations with citizen developers score **33% higher** on innovation rankings. Innovation leads to new products, new value-add services, and new ways of collaborating with co-manufacturers or suppliers.

arsenal of specialized point solutions is also available to address a manufacturer's challenges, from field service management to inventory planning and supply chain planning.

While multiple solutions exist, they often need to be modified or integrated together to fit the organization's overall objectives. With today's severe shortage of IT professionals, making those changes can be a challenge.

Highly skilled developers, capable of writing new code from scratch, may not be within a region's talent pool, or within the hiring budget of the company.

Office managers and IT managers with network administration skills, not coding skills, are often tapped to oversee deployment of tools and personalization. Manufacturers need solutions they can easily tailor to their needs, quickly master, and securely integrate with legacy systems.

Enter low-code and no-code tools designed to equip "citizen users" with developer-like abilities, without requiring developer-level training and skills. These types of solutions are changing the software industry. They



are also making organizations more innovative, proactive, and productive. With these new tools on hand, the action-oriented, front-line workers find new use cases for technologies like AI, machine learning, and work-flow automation. Creative problem-solving is often the result.


The Importance of the Interface

IT professionals are in great demand. Even as some [high-profile layoffs](#) have led the news over the past few months, developer jobs are still vacant. IT jobs in manufacturing are particularly hard to fill, as jobs in manufacturing seem to have limited appeal to recent graduates.

[Computer World](#) reports 76% of IT industry employers say they have difficulty finding the hard and soft skills needed, with developers being particularly hard to recruit and retain.

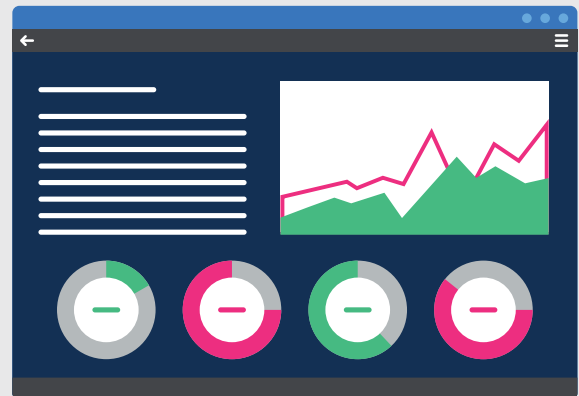
Fortunately for manufacturers, much of the process refining and software modifications they need can be executed by individuals without coding



expertise. The user interface (UI) provided by low code platforms is the key. The UI is the tool that turns very complex behind-the-scenes operations into simple yes/no questions, drop-down options, or check boxes. A toolbox of widgets provides many options. 

01 Embrace Highly Distinct Operations

This can include the many highly specialized activities unique to discrete manufacturers, beyond the basic financial management and ledger sheets. Low-code/no-code tools can help refine processes for the different departments, business units, or functions, such as product lifecycle management, asset maintenance, data mining and sharing, customer order input, bill of materials, shop floor scheduling, inventory planning, shipping, and scheduling of work crews — from quality inspectors to delivery drivers. Depending on the vertical, manufacturers may also face numerous regulatory compliance issues that call for process audits or performance reporting. Adjustments to existing software may need to be made to capture relevant data and submit forms.



02 Manage Departmental Needs

Because different departments and users have multiple applications, the requirement for flexibility and the ability to tailor work-flows and automated triggers for a supervisor's approval is key. For managers, reporting on the use of resources — from raw materials to labor — may be the priority. For front-line workers who engage with customers, easy access to data so they can quickly answer customer questions or expedite service might be the high priority.

How Low Code Platforms Work

Powerful AI-driven algorithms, like complex ERP solutions use, run in the background. But easy-to-use dashboards, drag-and-drop screens, templates, and question-answer worksheets direct the business user to define and implement solutions to help run operations. Interchangeable modules and pre-configured applications are integrated, drawing from data silos, to accomplish tasks — big or small.

Departments can initiate or keep projects moving without waiting for assistance from the IT department or hiring third party resources. This saves time and costs, keeping initiatives in motion, even when developer resources are out of reach. The IT team, often stretched beyond capacity, can assign some low priority tasks to junior team members. Even highly skilled developers can use the tools to quickly generate code, improving their productivity and speeding output.

03 Empower Individuals



Individuals in the organization often have personal Key Performance Indicators (KPIs) they track.

This can be part of the organization's formal performance review program, or an individual's own goal setting for professional growth.

In either situation, individuals will appreciate tools to help them monitor specific critical points, making comparisons over time, and allowing them to drill into data points for specific dates or incidents that may require further analysis.

When this information is well organized and easily consumable, the business user will be more efficient at leveraging the information and more likely to have a meaningful user experience improvements.

Thanks to the ease of development and speed of deployment, organizations can accelerate the execution of new digital ideas, putting process improvement in place rapidly.

Applications in Manufacturing

Manufacturers today face immense pressures to modernize so they can keep pace with changing customer demands, market volatility, and supply chain risks. These pressures can be mitigated with new software and technologies, but many approaches can be expensive and time consuming. These challenges have created a new market of tools which can be used by the average employee.



04 Maintain Proprietary Machinery

Manufacturers often run machinery that is highly proprietary, often developed by their own engineers or R&D team. Processes related to the machinery will require monitoring and tracking, such as a schedule for preventive maintenance or instructions for replacing consumables, like ink or glue. This type of proprietary information needs to be recorded and accessible by team members.

The industrial engineers who design and build the unique machinery may have limited code-writing skills and will appreciate low-code/no-code tools to help them create unique software to help run, monitor, and maintain the equipment. These tools help specialized teams take advantage of software capabilities – without needing to consult with the IT team or hire developers. They get do-it-yourself convenience and control of how the solution will display information and what security precautions are needed for access.

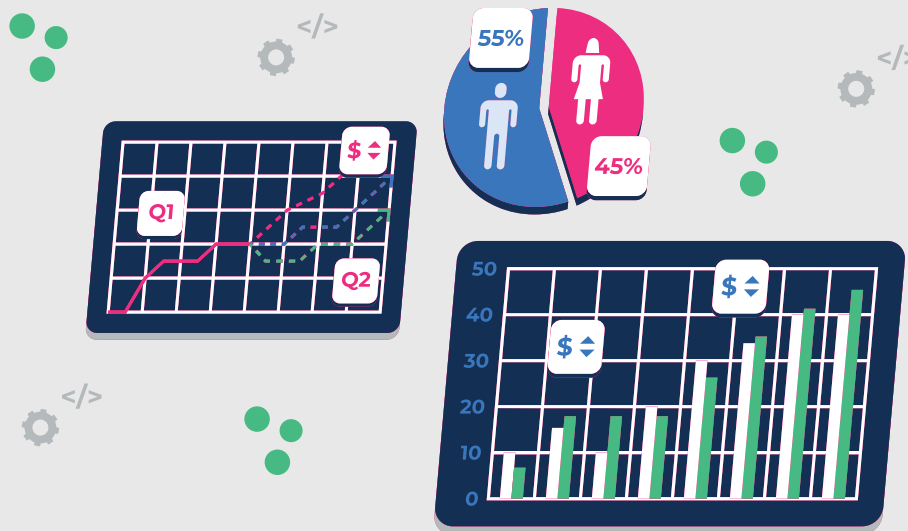
Using low-code and no-code tools, manufacturing leaders can adapt existing IT software, add functionality, combine work-flows, tailor prerequisites, or extend compliance requirements allowing them to focus on business process improvement.

New solutions can also be built starting with a blank canvas. Either way, the company takes control of the holistic use of technology – and data. Beginning with process mapping strategies, companies decide how “standard processes” should be modified by streamlining steps or adding steps to improve quality and compliance.

05 Solve Unusual Pain Points

The organization likely has highly specialized issues or pain points that can be improved by identifying, capturing, tracking, and analyzing relevant data. These pain points may be unique to the company, the product, or the way the team is organized.

If the need is highly specialized, the existing business solutions on the market will likely be too generic to cover the unusual process or problem. Managers can take existing software and enhance or boost capabilities to solve even the most unusual issues.



Tracking screens, reporting forms, guidance for users, or modules for quality control or regulation compliance can be added and highly useful. New functionality can be easily defined, created, and integrated to existing solutions, through low-code/no-code tools. New stand-alone solutions can also be developed, without developer-skills required.

Spotlight: Cadynce Provides the Tools Manufacturers Need

Cadynce is a no-code work-flow automation platform that helps manufacturers streamline operations, improve internal communication, increase customer satisfaction, accelerate onboarding and consuming data insights.

If continuous improvement is what you need, Cadynce will help you achieve continuous process improvement while aligning your business goals in the process. Users improve productivity and gain efficiencies.

Tools include a powerful work-flow engine, document management and infinite elements and collections that can be combined to tailor solutions.

Learn more about specific features [here](#).



06 Connect the Dots & the Data

Every manufacturer has silos and pockets of disparate data. It happens, despite the best efforts of intelligent people armed with average software. Manufacturers often need help connecting the dots and finding correlations between cause and effect. Different teams may view the same data differently, creating confusion or duplicated efforts.

Different apps may be used by different teams, making collaboration difficult. Easy-to-use no-code/low-code tools can help integrate solutions, combine data sources, and create shared visibility. The proper interface can help teams who were disagreeing about data integrity come together to share insights and solve problems. Tools can also help connect robotics, machine-to-machine data sharing, and internet of things (IoT) use cases. Breaking down silos is a critical step in creating company-wide efficiency.



07 Avoid Over-Solving

Manufacturers no longer need to buy costly enterprise-wide solutions when they only need one or two process improvements or new functionality to solve a single issue. Many software solutions are big, sprawling solutions with multiple modules, providing more features and functions than a start-up or mid-sized organization needs and could disrupt manufacturing processes. Other solutions are too simplistic

or consumer-like for manufacturing operations. Finding the right-sized solution can be a challenge — when shopping for software off the shelf. Low-code and no-code solutions allow organizations to build focused solutions on blank canvases.

They can be highly selective in setting goals and applying new process improvements, expanding the solution to match their growth plans, scaling as they want, how they want. As these solutions are implemented, they quickly identify opportunities for improvement in existing business processes.

Finding the Right Solution for Your Organization

Manufacturers who want to learn more about low-code and no-code tools and applications, should turn to a trusted provider who specializes in this segment. The ease-of-use is just as critical as the back-end algorithms, analytics, and data management tools which provide powerful insights. Look for a provider who offers templates and starter-tools to get business users up to speed quickly — and in the right direction.

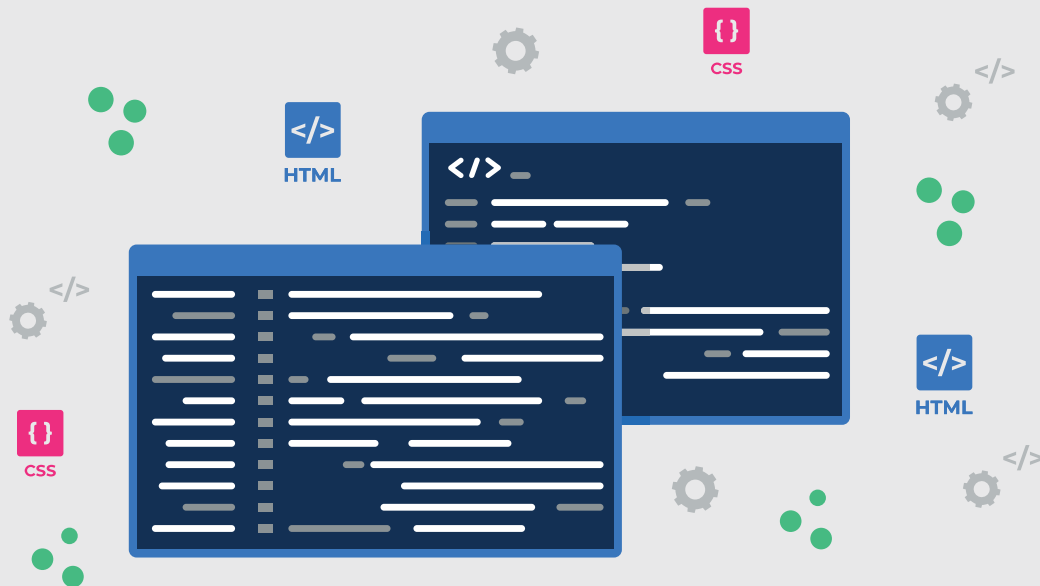
Taking swift action is important. The current economic forecasts indicate challenges will continue to plague manufacturers, forcing them to stretch resources and cut unnecessary costs to maintain margins. Making changes to processes will be a critical step in the evolution. The software that runs these processes will need to be fine-tuned to meet new needs.



08 Refine the Process

Work-flows in the manufacturing process can become complex, especially when the company offers make-to-order and engineer-to-order options.

Highly configured products, too, can add to complexity of operations. Highly engineered or capital-intensive products also add potential complications, from extra quality control steps to collaboration with the customer, and processes for change-orders, costing, and managing margins.



Processes built into the enterprise solution or MES system will likely need to be tailored to manage the work-flows. Process automation is critical to optimizing productivity in manufacturing.

Careful documentation of the desired process helps everyone within the organization follow standardized steps. Tools for process mining and process documentation can be applied to existing solutions.


Developers will not always be available to make changes to software or build custom applications. Giving easy-to-use tools to the workforce is the answer for the various adjustments that help boost performance. Citizen-users can reduce these challenges allowing team members to put their ideas into action and refine existing processes.

More intensive strategies may be required. Staying competitive requires manufacturers to be proactive, updating processes, offering innovative products, and offering value-add services to customers. This requires a larger digital transformation, smart operations, and data insights. More than a few tweaks to the current system may be needed. This level of problem-solving can also be addressed through



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no-code platforms. Armed with powerful toolboxes, business users can become citizen-developers, creating answers.

Now is the time to examine solutions; from the ground up, forming a strategy on how to enhance capabilities and extend new product and service offerings. No-code and low-code platforms and tools will help achieve the next generation of operational efficiency — quickly, easily, and cost effectively. 



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