Top 8 Manufacturing Challenges for 2023

Get our insights to address today's biggest manufacturing barriers.



Reshore Manufacturing to Mitigate Risk

Reshoring is becoming central to supply chain resiliency strategies.

83% of U.S. manufacturers responded "likely" or "extremely likely" to reshore.1



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- Seffective analysis includes determining material availability in a reshored region. To gauge production capacity, manufacturing teams simulate production runs in targeted reshored geographies.
- Teams then review these results to compare factories and regions based on cost, capacity, and production speed.



Extend Supply Chain Visibility

Cost and production capacity insights only tell part of the story.



83%

of companies have **supply** chain visibility challenges.²

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68% of manufacturers agree that inflation is likely to remain elevated.³

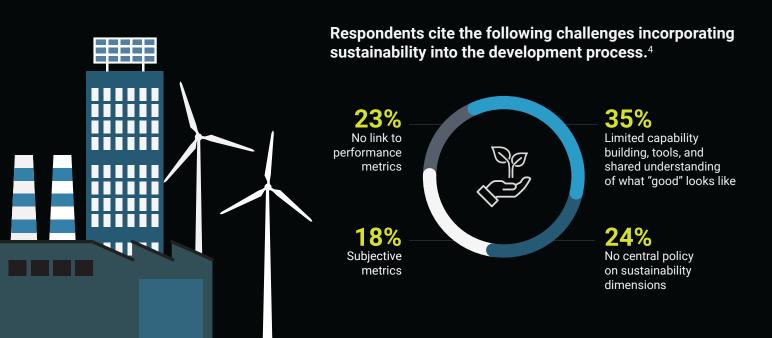
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Simulate product designs using different materials and receive alerts if a $\langle \checkmark \rangle$ material substitution creates a design for manufacturability (DFM) risk. Teams can then compare all options and determine next steps.

🗸 🛛 Use regional cost data – including labor, overhead, and tool-shop rates – to evaluate **country-specific manufacturing costs** accurately.

Design Products for Sustainability

C-level manufacturing executives are struggling with ESG execution.

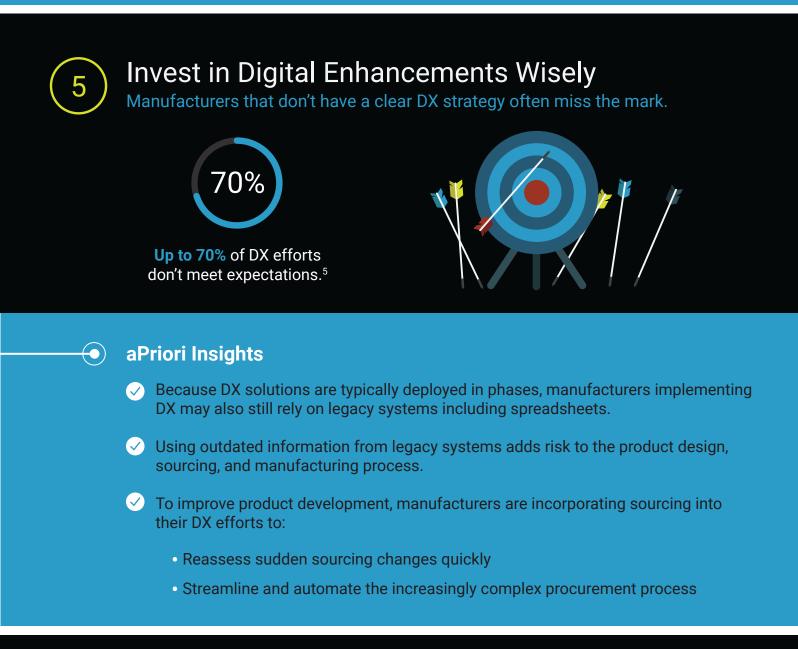




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- Incorporate sustainability into your overarching DFM/design for excellence (DFX) benchmarks and processes to:
 - Understand a product's CO, impact during early design phases
 - Evaluate opportunities to reduce a product's carbon footprint

Simulate design alternatives using different materials and manufacturing processes to meet CO_2 emissions, cost, and performance targets.





Address Manufacturing and Tech Skills Shortages

Mechanical engineering, software development, and other technical skills are essential for manufacturing success in the digital economy.





of U.S. manufacturers say hiring and retaining quality employees is a top focus.⁶

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Automate tasks and processes, and enable employees to focus on more valuable activities

- Connect teams through collaboration to simplify real-time information sharing
- Provide junior engineers with real-time guidance to improve product DFX



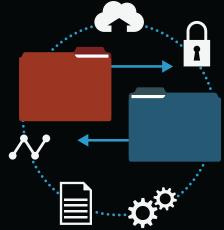
Strengthen Brand-Supplier Collaboration



Manufacturers are increasingly drawing on suppliers' expertise and resources to help reach their goals.

Manufacturing industry companies that advance data sharing across key areas stand to gain

\$100+ billion in total value.⁷



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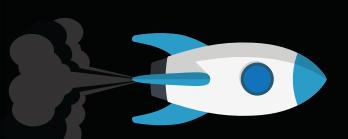
- Sharing digital product twin information between manufacturers and suppliers is essential to drive value.
- Product brand-supplier transparency that starts early during new product development can reduce operational costs, mitigate disruption, and accelerate time to market.



Launch Products Faster

Speed is an underlining business imperative.





Accelerate time to market 20-40% by digitizing key business operations.⁸



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- Businesses can improve planning accuracy by simulating production based on detailed product specifications, sourcing information, and manufacturing parameters. Manufacturers and their suppliers can then use this insight to identify the best path to market with confidence.
- Companies that combine speed and visibility can capitalize on new opportunities and address supply chain challenges quickly.

Learn how aPriori can help you develop products faster, reduce cost, and mitigate risk.

Contact us at productcost@apriori.com to learn more or schedule a demo today. ăPriori

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