



# Exploring digital transformation in manufacturing





# Introduction

The manufacturing industry is experiencing a surge in digital transformation. Projections indicate that the global manufacturing market could reach **€1400 billion by 2030** (Allied Market Research).

This requires skilled software engineers to implement **effective, fast, and scalable** strategies, boosting productivity and addressing the rising platform economy and customer demands during this transition.



# Reshaping manufacturing through digital transformation

**Digital manufacturing** revamps outdated practices, accelerating process while increasing the quality using **AI and ML technologies**.

Efficiencies throughout the supply chain improve significantly, with IDC predicting **60% of g2000 OEMs** utilizing AI-ML data by 2024.

Implementing simulation, 3D visualization, analytics, and collaboration tools becomes crucial for this transformation.





# Leveraging offshore talent

An effective **digital transformation strategy** necessitates a dynamic approach. This means enlisting skilled software engineers with the requisite expertise. By **offshoring software development** for manufacturing, organisations can:

- Access top tech talent worldwide.
- Heighten operational efficiency in development.
- Elevate manufacturing quality standards.
- Enrich client experiences.
- Strengthen decision-making capabilities.
- Sustain a competitive edge.
- Swiftly address market and client demands.



# Manufacturing's digital revolution

Our interconnected world thrives on real-time data, driving digitalisation across operations from product creation to delivery. **Industry 4.0 is reshaping manufacturing** through digital convergence, with investments in technology:

- streamlining operations
- enhancing customer experiences
- synchronising business functions





# Reshaping manufacturing's future: key digital trends

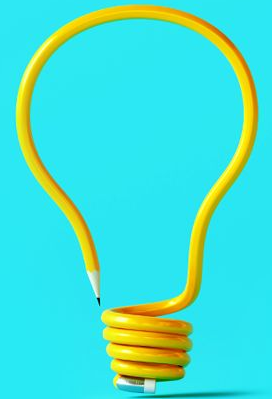
**IoT Transformation:** Real-time tracking and data-driven decisions redefine manufacturing processes.

**ML & AI Integration:** Insights across the supply chain driven by data and computing power fuel AI adoption.

**Robotic Evolution:** Automation reduces errors and liberates human resources, advancing adaptable, independent robots.

**3D Printing Progress:** Swift, economical prototyping accelerates product launch and operational enhancements.

**AR & VR Impact:** Augmented reality enhances assembly speed and informed decisions, boosting worker efficiency.





# Understanding manufacturing challenges

Budget constraints, employee pushback, and communication hurdles often deter organisations from embracing digital manufacturing transformation. Yet, ongoing digitisation **eliminates inefficiencies and improves resource** allocation.

Building a skilled developer team is **vital to address IT infrastructure and tech stack hurdles**. Recruiting tech-savvy individuals aware of digital technology's benefits is a must for successful transformation.





# Summing up

Smart factories are changing industries with **digital tech that improves efficiency, optimises sectors, and predicts changes.**

As digitalisation spreads, businesses need developer teams skilled at integrating new tech.

**At The Scalers**, we assist organisations in finding the experts needed to advance business and transform processes.

Contact us today to explore how we can achieve the same for your business!





# Thank you



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