soft**serve**

MANUFACTURING **INNOVATION WITH GENERATIVE AI**



General

61-

G 89002

Renewable Energy project Solar Panels Wind Turbine and Solar Panels

Efficiency 98% Capacity 10.01 kWp

THE FUTURE OF MANUFACTURING WITH GENERATIVE AI

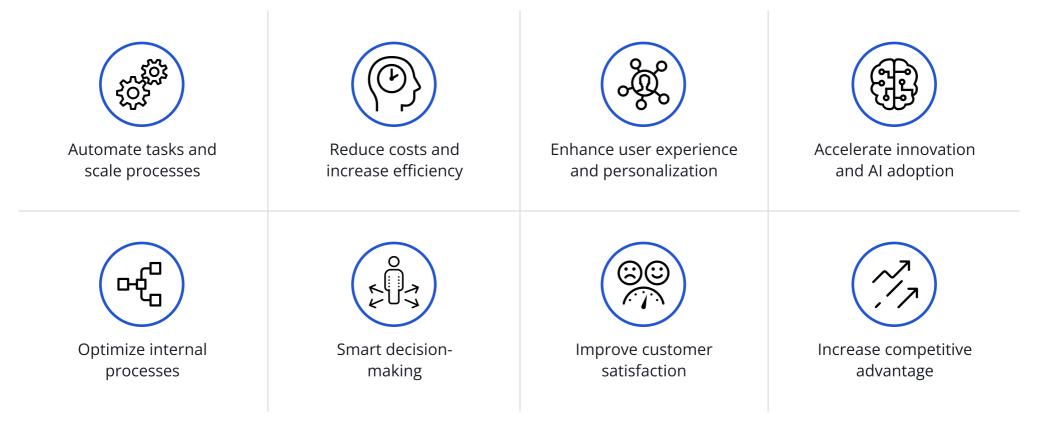
Political, economic, environmental, and demographic trends challenge manufacturers to rethink and adjust their operations and strategies. The COVID-19 pandemic is a recent example in which supply chains and staff management became a top priority for decision-makers. The rapid developments in Generative AI in combination with prior technological developments like industrial IoT or digital twins offer new ways to transform manufacturing organizations.

KEY CHALLENGES

ECONOMIC OUTLOOK	 Inflation forces companies to adjust their pricing, production costs, and wages to stay competitive. Rising interest rates slow down investments and may restrict growth. Trade disputes and political circumstances make it hard to operate globally.
SUSTAINABILITY AND ESG	 Manufacturing companies are dedicated to reducing their environmental impact. Traceability of carbon emissions throughout the value chain. Upcoming ESG reporting forces companies to invest in the appropriate solutions and processes. Customer behavior is changing, favoring products with a minimized environmental footprint.
SUPPLY CHAIN	 — Supply chains are being restructured to be more resilient. — Post pandemic growth is challenged by ongoing material shortages and rising prices. — Insight into the supply chain's carbon footprint to comply with ESG regulations. — Supplier relations and selections change in prioritizing stronger and more local connections.
WORKFORCE	 Knowledge attrition keeps evolving and is accelerated due to an aging workforce. Shortage of skilled workers across value chain and business functions. Changing expectations towards employers in terms of wages and working conditions.
TECHNOLOGY	 Industry 4.0 keeps maturing to increase productivity and optimize processes. Investments into existing digital initiatives around IoT but also emerging technologies around digital twins, industrial metaverse, and Generative AI.

GENERATIVE AI BUSINESS BENEFITS

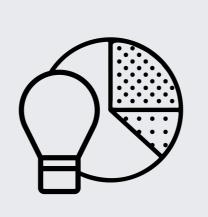
Generative AI can lift value across the entire manufacturing business chain.



MOST PROMISING GENERATIVE AI USE CASES

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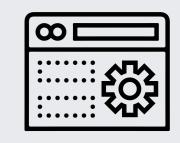
ENTERPRISE SEARCH AND DATA INSIGHTS

Structured and unstructured data sources can be used to improve the knowledge management within the company. It can interpret data that enables employees to operate more effectively by providing documentations, best practices, process insights or technical expertise.

PRODUCT DEVELOPMENT AND ENGINEERING

Accelerate tech product development in design and optimize engineering with goal-oriented components, reducing development and testing iterations for increased efficiency.







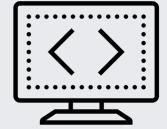


PROCESS OPTIMIZATION

Improve operations by analyzing data across the production, identify areas of optimizations, and retrieve recommendations on appropriate measures. By continuous monitoring, actions can be adapted to the given circumstances. This can affect the minimized usage of resources and optimized utilization of the shopfloor.



By leveraging historical and current data alongside forecasts and projections, analysis and recommendations are generated to increase supply chain efficiency. Inventory and schedules can be adapted accordingly to meet demands and better respond to external factors.







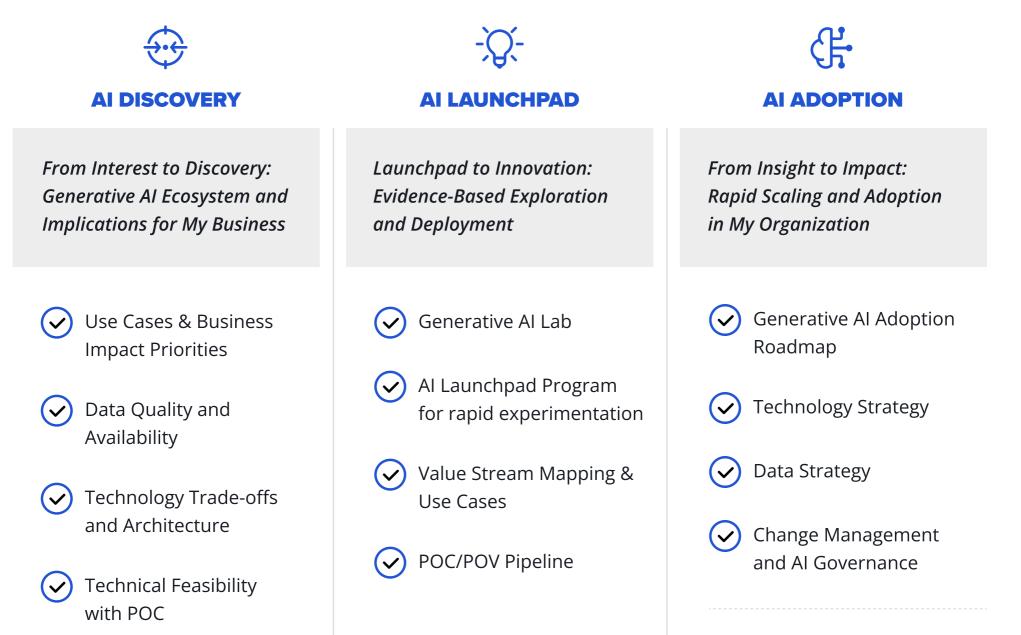
GUIDED MACHINE MAINTENANCE

By analyzing data, predictive analytics from generative AI can identify anomalies and patterns that indicate potential failures or maintenance needs. Staff can then be subsequently directed to the right handbooks and procedures ensuring that maintenance is conducted at the right time in the right way.

GET STARTED ON YOUR GENERATIVE AI JOURNEY

LET SOFTSERVE ACCELERATE YOUR GENERATIVE AI JOURNEY WITH 3 OFFERINGS

Don't be left behind in the race to harness the disruptive innovation of Generative AI. SoftServe defined **Generative AI adoption patterns** that are designed to help you navigate the complexities of this emerging technology. We will help you select an appropriate adoption pattern or its combinations for building tailored solutions to meet your enterprise's unique needs. Expedite your journey towards a new way of productivity and creativity with SoftServe Generative AI offerings, positioning your business as a leader in the industry:





Generative Al Solution Development



Generative AI in Product and Engineering Teams

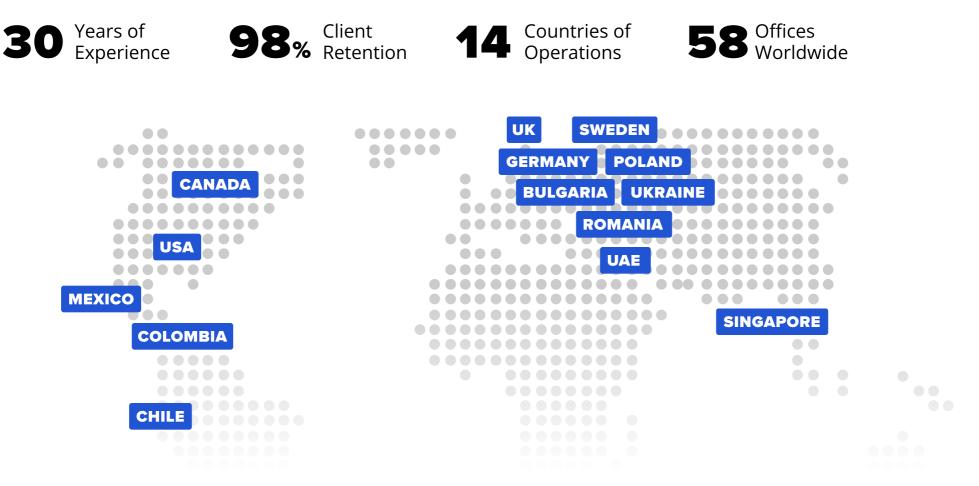
It's urgent and the time to start is now. But you know that Generative AI is not a deployment sprint. With SoftServe's experts to address your unique enterprise needs and guide you through possible adoption options, you will move past the hype and harness its benefits for your enterprise.

Learn more about SoftServe's Generative AI Lab, POVs, offerings, and partners. Visit us at our <u>Generative AI website page</u>.

YOUR PARTNER FOR THE FUTURE

DIGITAL ADVISORS, SOFTWARE INNOVATORS, AND EXPERIENCE BUILDERS

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GOOGLE CLOUD EXPERTISE

As a Google Cloud Partner and the winner of the 2020 Google Cloud Partner of the Year Award for Machine Learning, SoftServe is committed to helping customers solve their most pressing business challenges. SoftServe utilizes Google Cloud's AI ecosystem, including tools such as Google Cloud Vertex AI and Generative AI App Builder. <u>Learn more</u>

120+	690 +	100+	3
GCP Enabled	GCP Certified	Data Science	Anthos
Customers	Recources	Experts	Fellows



AMAZON WEB SERVICES

As an APN Premier Services Partner, SoftServe acts as an exceptional cloud guide, vastly decreasing the time to achieve cloud value. By doing so, SoftServe ensures that your AI initiatives unleash the full potential of AWS Machine Learning services, such as Amazon Bedrock and SageMaker, and that they are deployed in accordance with AWS Well-Architected best practices. Learn more

500+	100+	50+	11
AWS Certified	AWS Certified	AWS Professional	AWS
Resources	Solution Architects	Certifications	Competencies



Microsoft

MICROSOFT

NVIDIA

Innovate with purpose, rationalize costs, and drive efficiencies with Microsoft Azure's open and flexible cloud computing platform. Leverage Azure OpenAI and Machine Learning services to deliver next-generation AI solutions. As a Gold Microsoft Partner, SoftServe enables your business to build and deploy on your terms — both today and in the future. Learn more

250 +	19 +
Azure Certified	Years as a
Professionals	Microsoft Partner



As an NVIDIA Service Delivery Partner, SoftServe harnesses NVIDIA's cutting-edge technologies, like GPU-accelerated compute infrastructure, to deliver robust AI solutions. Leveraging NVIDIA's NeMo Service, SoftServe streamlines the development of Generative AI products, driving rapid digital transformation. Learn more

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DEEP TECHNOLOGY EXPERTISE IN AI/ML

HUMAN-FIRST APPROACH TO DESIGNING EFFECTIVE EXPERIENCES

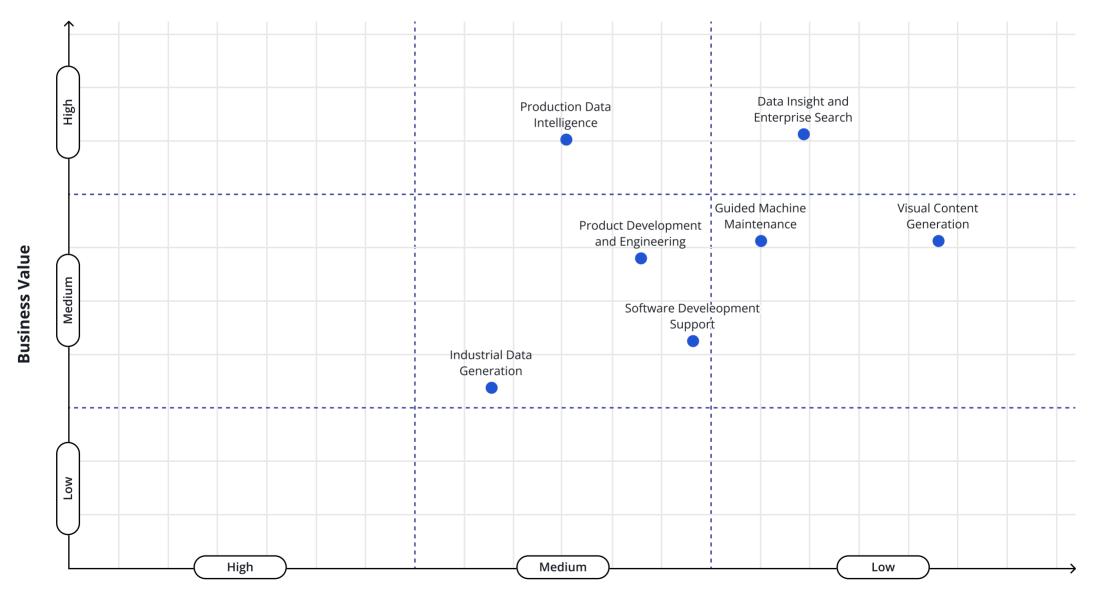
INDUSTRY EXPERTISE AND PARTNERSHIPS WITH CLOUD SOLUTIONS PROVIDERS

LET'S TALK



BUSINESS OPPORTUNITIES

Generative AI in manufacturing offers increased efficiency, cost reduction, and enhanced product innovation through automated design, optimization, and production processes.



Use Case Complexity