

tcs MasterCraft™



Gen AI-powered automation for application modernization



In today's rapidly evolving digital landscape, enterprises must continuously modernize to remain competitive. TCS MasterCraft empowers organizations to transform legacy systems into agile, scalable, and future-ready platform.

TCS MasterCraft — an intelligent automation product powered by genAI and agentic AI — significantly accelerates legacy modernization, reducing costs by over 70% and delivering results twice as fast as traditional approaches. The product supports human-in-the-loop decision-making, allowing experts to guide and validate AI-driven processes, ensuring accuracy, compliance, and contextual relevance.

Introduction

In today's rapidly evolving digital landscape, enterprises face mounting pressure to modernize legacy systems while maintaining business continuity. The latest update of TCS MasterCraft is engineered to meet this challenge head-on. Powered by generative AI (genAI) and agentic AI, TCS MasterCraft delivers intelligent, scalable, and future-proof modernization—transforming legacy applications into agile, cloud-native systems with unmatched speed and precision.

Key features

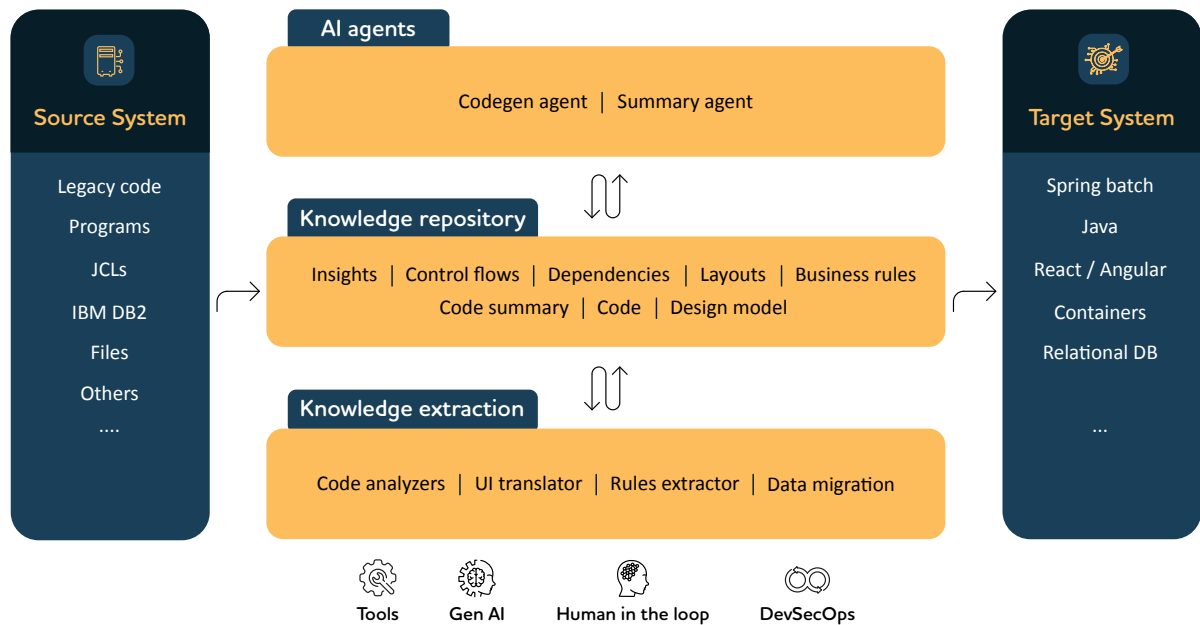
GenAI and agentic AI: Accelerate complex modernization with intelligent agents powered by TCS' expertise by automating business logic mining and code transformation. Leverage conversational and summarization agents for insights, and a code generation agent to generate accurate, efficient code — reducing manual effort and accelerating delivery.

Smart decomposition and modularization: Break down legacy systems into logical, reusable components, enabling scalable, modular architectures. This approach improves agility, simplifies maintenance, and supports faster deployment cycles in modern IT environments.

TCS meta model and knowledge repository: The TCS meta model offers a structured transformation framework with a centralized knowledge repository that captures reusable insights, ensures consistency, and offers complete source to target lineage.

Integrated DevSecOps pipeline: Automate packaging, testing, security, and deployment, incorporating human-in-the-loop oversight to ensure transparency and reliability —enabling secure, end-to-end modernization workflows.

Comprehensive data migration: Extract, transform, and validate legacy data using intelligent automation for seamless migration to modern relational databases, minimizing business disruption.



TCS Mastercraft™ for modernization

Benefits

- **2x faster transformation:** Accelerate modernization timelines with AI-powered automation
- **40–70% efficiency gains:** Significantly reduce manual effort and operational costs
- **Zero-error code generation:** Generate reliable, iso-functional, and iso-performant code with high accuracy
- **Future-ready systems:** Build modular, maintainable, and cloud-native architectures
- **Risk mitigation:** Minimize transformation risks through proven methodologies and intelligent automation
- **Continuous modernization:** Maintain long term agility with preserved through application knowledge and design insights
- **Enhanced agility:** Improve the maintainability and scalability of modernized applications

TCS Advantage

- **Decades of experience:** Over 40 years of delivering large-scale transformation programs
- **Proven track record:** Hundreds of successful modernization projects across diverse industries
- **Domain expertise:** In-depth knowledge of both legacy and modern technologies
- **Global delivery model:** Agile, location-independent delivery with integrated change management
- **Innovation at scale:** Ongoing investment in AI, automation, and engineering excellence

Awards and accolades



Contact

Visit the **TCS MasterCraft™** page on <https://www.tcs.com>

Email: mastercraft.sales@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is a purpose-led transformation partner to many of the world's largest businesses. For more than 50 years, it has been collaborating with clients and communities to build a greater future through innovation and collective knowledge. TCS offers an integrated portfolio of cognitive powered business, technology, and engineering services and solutions. The company's 469,000 consultants in 46 countries help empower individuals, enterprises, and societies to build on belief.

Visit www.tcs.com and follow TCS news [@TCS_News](https://twitter.com/TCS_News).

All content/information present here is the exclusive property of Tata Consultancy Services Limited (TCS). The content/information contained here is correct at the time of publishing. No material from here may be copied, modified, reproduced, republished, uploaded, transmitted, posted or distributed in any form without prior written permission from TCS. Unauthorized use of the content/information appearing here may violate copyright, trademark and other applicable laws, and could result in criminal or civil penalties.

Copyright © 2025 Tata Consultancy Services Limited