

Mainframe Simplification and Modernization to Azure.

Reduce technical debt
Mitigate business continuity risks
Simplify and optimize

Consulting-led. Al-optimized.







67 Fortune 100 companies
44 of the worlds top 50 banks
8 of the top 10 insurers
8 of the top 10 telcos
7 of the top 10 retailers
4 of the top 5 airlines

...still use mainframes

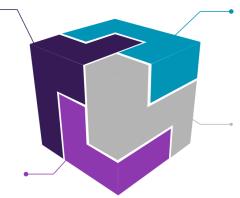


The risks are very high...

Mainframes are core system of records. Any disruption or loss of functionality may impact business.

Governing Transformation

With many moving parts and stakeholders, modernization projects are inherently complex.



Constrained on the budget

With most of the budget going towards managing the existing systems, there is no separate budget left to transform.

Missing Strategy & Roadmap

Many companies don't know where to begin the journey and what the target end state should be

2021 "Global Application Modernization Business Barometer" report reflected the difficulties of replacing legacy technologies, highlighting the fact that 77% of organizations that started a legacy system modernization project failed to complete it.

ModerniZ: E2E Platform To Accelerate & De-risk Modernization Journey

modern is an Integrated platform for end-to-end Al-powered Modernization



Analysis & Assessments

RFXX & GenAl Utils



Experience Modernisation

3270, 5250 Automatic conv



Application Modernisation

Refactor, Decompose



Validation

Cross Platform Comparator



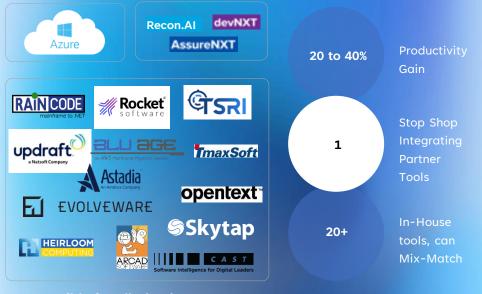
Data Modernisation

Offload, Migrate, Unlock





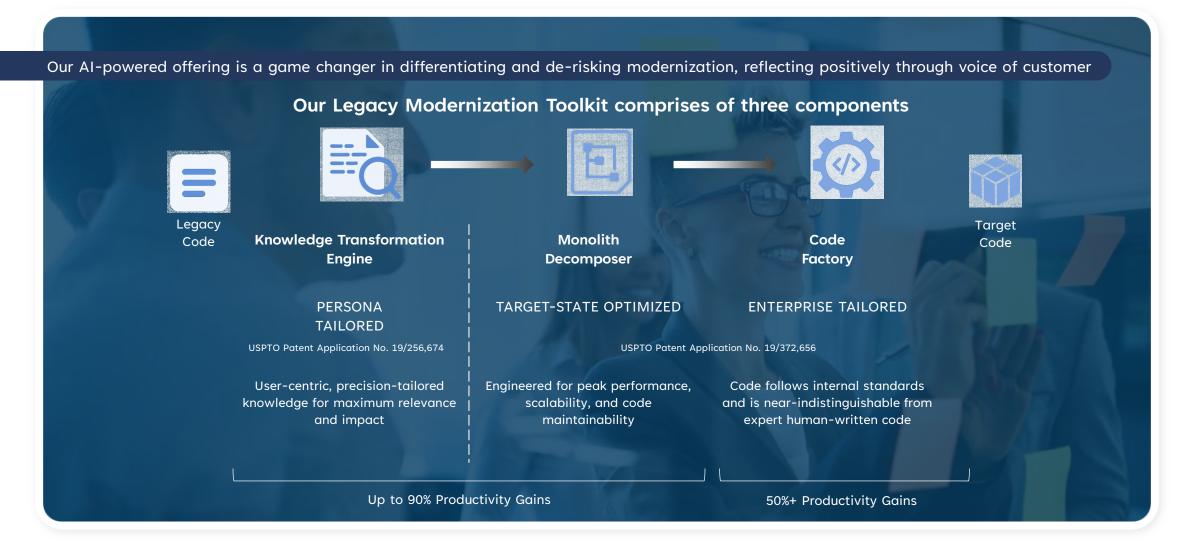
AI-powered accelerators: AI-Pedia with Ask Anything AI chatbot, Monolith Decomposer, Code Factory and Automated Unit Testing



Compatible for all Cloud DBs & Ecosystem

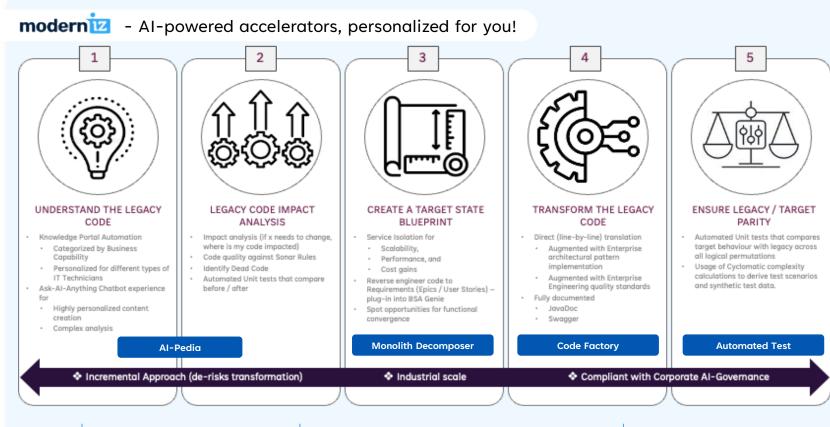
wipro CAPCO

Increased Customer Demand in leveraging AI-powered Modernization



Wipro's Al-powered Mainframe Modernization Solution





Differentiated tangible Benefits

- Cost Reduction By reducing reliance on legacy knowledge and minimizing manual discovery, impact analysis, and coding efforts
- Risk Mitigation By employing a systematic approach that allows for a controlled (crawl-walk-run) transition from legacy to target and plugging in proven patterns and best practices into the process
- Accelerated Time-to-market –
 Through automated knowledge harvesting and code translation that considers client's technology environment and engineering standards
- Future Proof By ensuring that the target architecture blueprint is optimized towards target service isolation which is key to industrial scalability and performance

20 to 40% Productivity Gain

1 Stop Shop Integrating Partner Tools



20+

In-House tools, can Mix-Match

Wipro's Al-powered Mainframe Modernization Case Studies



Across various industries and legacy/target technology stacks

Wealth Management Division - T1 Bank

- Performed extensive analysis and reverseengineering of COBOL/JCL/DB2 systems, generating Java microservices and validating functional parity. Defined a BIAN-aligned functional taxonomy and delivered detailed knowledge repositories for four IT personas.
- Outcomes covered analysis of 2 million lines of code, creation of 8 microservices, and 70 test cases.

US-based Power Company

- Analysed and modelled legacy COBOL code from a Time Reporting Information System, automated test scenario creation, and built a comprehensive knowledge repository.
 Generated detailed functional taxonomy and extracted hundreds of business rules.
- Outcomes included 262,000 lines of COBOL analysed, modelling of 95 programs, 71 subprograms, and 855 business rules.
- Currently performing automated conversion of this legacy stack to C#.

Brazilian State-owned Company

- Migrated two complex Natural/Adabas programs to Java/Quarkus, creating detailed documentation and business-rule extraction.
 Delivered enhanced Java applications with clear logic parity, comprehensive metadata, and automated unit tests.
- Outcomes include detailed reverse engineering of 21 programs, 5,000 lines of code analysed, and data lineage documentation.

American Financial Services Company

- Demonstrated rapid reverse-engineering of JCL/COBOL applications, producing taxonomies, knowledge graphs, and sample Gen-AI prompts. Delivered detailed documentation and virtual replicas for accelerated code analysis.
- Outcomes encompassed 40,000 lines of code analysed, modelling of 16 jobs and 69 COBOL programs.

T1 Bank in USA

- Significantly accelerated the generation of data lineage assets through automated analysis of COBOL applications. Produced detailed dependency maps, process flows, and data dictionaries, reducing weeks of manual effort to mere days.
- Outcomes featured analysis of 9,000 lines of COBOL, creation of data lineage assets in two weeks, and comprehensive knowledge portals.

German Bank

- Created a detailed virtual replica of a 150,000-line Java monolith, aligned it with the BIAN taxonomy, and provided interactive documentation for multiple business and technical roles. Delivered accurate modernization effort estimations and actionable insights via an AI-driven interface.
- Outcomes included reverse engineering of 1200
 Java files, detailed virtual replica creation with
 over 7000 interconnected nodes, and answering
 over 30 critical business and technical
 questions.

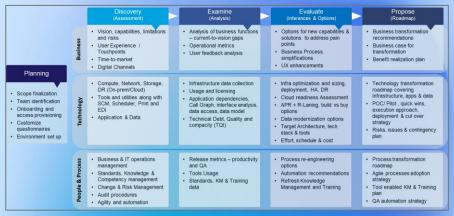
Partnering with Microsoft on Modernization Assessment

- Wipro conducts Legacy Modernization Assessment (LMA) workshop and/or interviews with stakeholders
- Combine the strengths of Wipro's DEEP assessment framework and Azure's Cloud Adoption Framework assessment
- LMA Questionnaire with around 100 questions survey covering Customers As-Is, current challenges, future goals and To-Be understanding
- Deliver comprehensive recommendation covering Modernization roadmap, Business case and ROI, Execution plan

Value Delivery | Project Success | Quick Wins | Defining MVP | Rol Threshold | Critical Success Factors

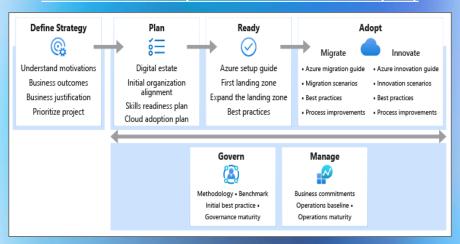


Wipro's DEEP Modernization assessment framework





Microsoft Cloud Adoption Framework for Azure (CAF)



While CAF focus more on Technical Capability, Defining Architectural Tenets and Solution Principles and validating the Target Fitment will be focused on DEEP assessment framework

Wipro's experience, scale and ingenuity deliver faster results

3,200+

Legacy modernization technology experts

40+

Solutions and Frameworks

50+

Mainframe Modernization technology partners and strategic alliances

200+

Active AD/AMS Maintenance and Modernization engagements

18,000+

Cloud Certified professionals

250,000+

MIPS Modernized



Leader 2023 – 2025 ISG Provider Lens TM Mainframe –Services and Solutions



Leader 2024 Mainframe Services PEAK Matrix



Market Leader 2025 in Legacy Application Modernization



Why Wipro?

Get comprehensive solutions

We cover APR, technology and business led modernization, addressing all modernization requirements

Get proven experience

Excellent track record and reference in executing large scale transformation engagements in large enterprises

Get deep expertise

Expert application modernization and GenAI based Automation to accelerate your modernization journey.

Get the confidence of de-risked modernization

We mitigate every risk from loss of knowledge, to avoiding disruption.

250K+

3,200+

Legacy modernization

technology experts







Mainframe
modernization for
a leading for-profit
American health
insurance company

Domain Driven Design | Data Offload to Cloud | Microservices and containerized based architecture. | UI Modernization



Challenge

- Portfolio Landscape (Service Funds)
- Highly critical, complex & tightly coupled mainframe apps
- Proprietary COBOL language with significant volume of data managed on DB2 and VSAM.
- Need for Single view of Participant
- Partners demanding for API's
- Lack of agility and time to market
- Limited enhancement opportunities and releases per year, due to monolithic nature of applications and lack of test automation



Solution

- .Net core based high-performance application deployed with Azure native services. Implemented Microservices architecture for claims processing
- Containerized code as webapp for hyper-scaling
- Architecture and design evolved multiple times with agility in meeting client's target env. expectations
- Microsoft partnership was evident in securing architecture guidance, initial POC Azure instance and licensing support, which played a key role



Results

- **58.7M** records processed in 95 min. with **96**% record accuracy for estimated ~**25**% lower infra cost
- Leveraged Wipro as well as Customer Azure environments for Webapps, Azure SQL, Databricks, ADF, DevOps, Key Vault, App Insights, Logic Apps, Functions
- Updraft Dcode was used in extracting business rules gaining ~30% efficiency over manual efforts





Mainframe
modernization for
a multinational
investment bank
and financial
services company

Al-powered | Knowledge
Transformation | Microservices
and containerized based
architecture | Automated Testing



Challenge

- Portfolio Landscape (Wealth Management)
- Highly critical, complex & tightly coupled mainframe apps
- COBOL language with significant volume of data managed on DB2 and VSAM.
- Need innovative GenAI solution to exit mainframe in 3-5 years horizon
- Lack of agility and time to market
- Limited enhancement opportunities and releases per year, due to monolithic nature of applications and lack of test automation
- Other Sis presenting traditional options



Solution

- GenAI based differentiated solution to showcase:
- Persona based knowledge documentation for BA, Developers, Data architects and Testers
- Decompose monolith COBOL to Enterprise grade Java microservices
- Automated approach to create and test functional equivalence
- Strategic Microsoft partnership to implement this on Azure



Results

- Wipro GenAI tools established 50% productivity in knowledge transformation, **40**% in decomposition and **100**% test coverage
- Smart Impact analysis, Increased significant developer productivity, and reduction of SME dependency
- Leveraged Wipro as well as Customer Azure environments, ADF, DevOps, Logic Apps, Functions

