AI-POWERED INTEGRATION PLATFORM MODERNIZATION FOR MICROSOFT AZURE

Leveraging automation and AI technologies to enable a seamless transition from legacy to modern platforms

2025

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MARKET CONTEXT & CHALLENGES

Modernizing legacy* Integration platform is no longer optional for organizations

FUTURE-PROOF THE BUSINESS

Legacy Integration Platforms lacks the flexibility to adapt to emerging technologies, maintain compliance, or capitalize on modern advancements. Microsoft Azure provides a next-generation Integration Platform powered by automation and AI, enabling businesses to meet evolving needs with agility and innovation.

OPTIMIZED CUSTOMER EXPERIENCE

Legacy integration platforms hinder seamless data exchange and personalized customer interactions. Migrating to Azure enhances customer experience by enabling faster, more efficient data flows and personalized engagement at scale.

HIGH COST OF MAINTENANCE

Maintaining legacy integration stack is costly due to outdated technology and limited expertise. Migrating to Azure offers cost-effective, scalable, and reliable solutions, reducing maintenance challenges and improving performance

ACCELERATE TIME-TO-REVENUE

Legacy Integration Platforms lack of in low-code and automation slows development. Migrating to Azure delivers faster, scalable integrations powered by automation & AI

COMPOSABILITY

Legacy Integration Platforms lack the flexibility and modularity needed for dynamic business needs. Azure migration enhances composability and scalability

COMPATIBILITY WITH MODERN SYSTEMS

Legacy Integration Platforms struggle with modern protocols, APIs, and SaaS apps. Migrating to Azure ensures seamless integration and future-ready compatibility

Yet many organizations are not inherently equipped to embark on modernization journey

The difficulties in migrating a legacy platforms such as BizTalk or TIBCO to Azure often arise due to a combination of technological, strategic, and organizational factors
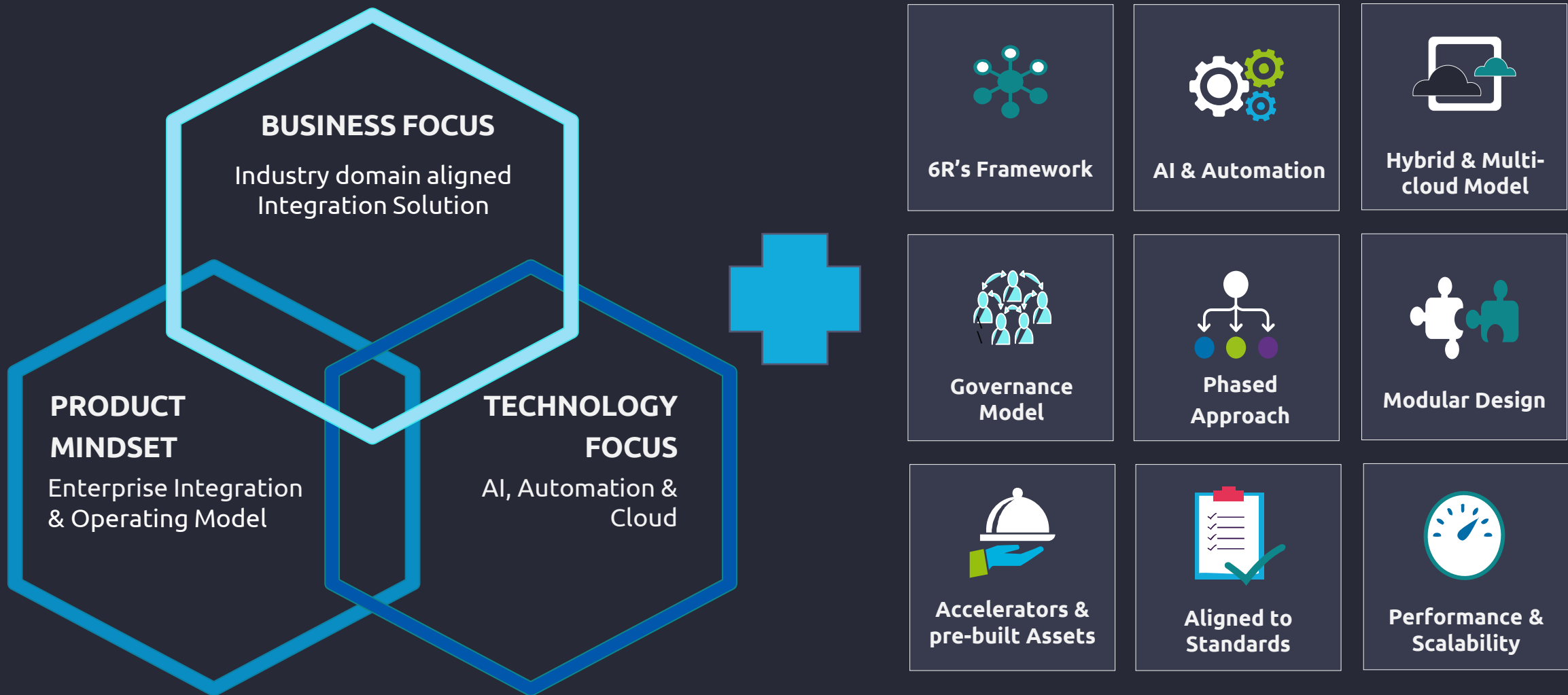
Failure to Monitor and Optimize
Can lead to missed opportunities for in-prompt optimization and improvements

Lack Of Proper Governance
Can result in uncontrolled changes, misaligned solution & compliance issues

Insufficient Testing and Quality Assurance
Inadequate testing can result in issues after deployment

Key Challenges
- Strategy & Vision
- Complexity
- Monitor & Optimize
- Budget Constraints
- Governance
- Quality Assurance

Lack of a Clear Strategy & Vision
Embark on modernization without a well-defined roadmap or understanding of what success looks like

Complexity of Legacy Systems
High risk of breaking critical business processes during migration

Securing Executive Sponsorship
Modernization programs require significant upfront investments

02

OUR VALUE PROPOSITION & SOLUTION

Our approach to overcoming Integration modernization challenges

Achieving legacy* integration platform to Azure modernization through a balanced approach of strategy, technology, and alignment

BUSINESS FOCUS

Industry domain aligned Integration Solution

PRODUCT MINDSET

Enterprise Integration & Operating Model

TECHNOLOGY FOCUS

AI, Automation & Cloud

6R's Framework

AI & Automation

Hybrid & Multi-cloud Model

Governance Model

Phased Approach

Modular Design

Accelerators & pre-built Assets

Aligned to Standards

Performance & Scalability

Maximizing value through assets and AI in our holistic approach to legacy integration for Azure modernization

Biztalk Modernization for Azure Integration

STRATEGY & PORTFOLIO ASSESSMENT

- Business Objective & IT strategy Assessment
- Integration Portfolio Assessment
- Migration Approach following 6R's framework
- Governance Setup

DESIGN & PLANNING

- Detailed Integration /API Assessment
- Define Migration Plan & Migration Testing Strategy
- Define Target Architecture
- Conduct Proof Of Value (PoV)
- Setup DevOps

MIGRATION & TRANSFORMATION

- Setup Target Environments
- Migration Execution - leverage Capgemini assets for migration & testing
- Security Testing & Validation
- Rollback testing & Validation
- Cutover & Transition Execution

OPERATION & OPTMIZATION

- Integration Application & platform monitoring
- Metrics and Data Gathering
- AI tools assistance in analysis & recommendations
- Refactor APIs / integrations and platform parameters

Proven methodology enabled with automation and tools

1. **i-Migrate Assessment Module** Leverage Gen AI to accelerate assessment
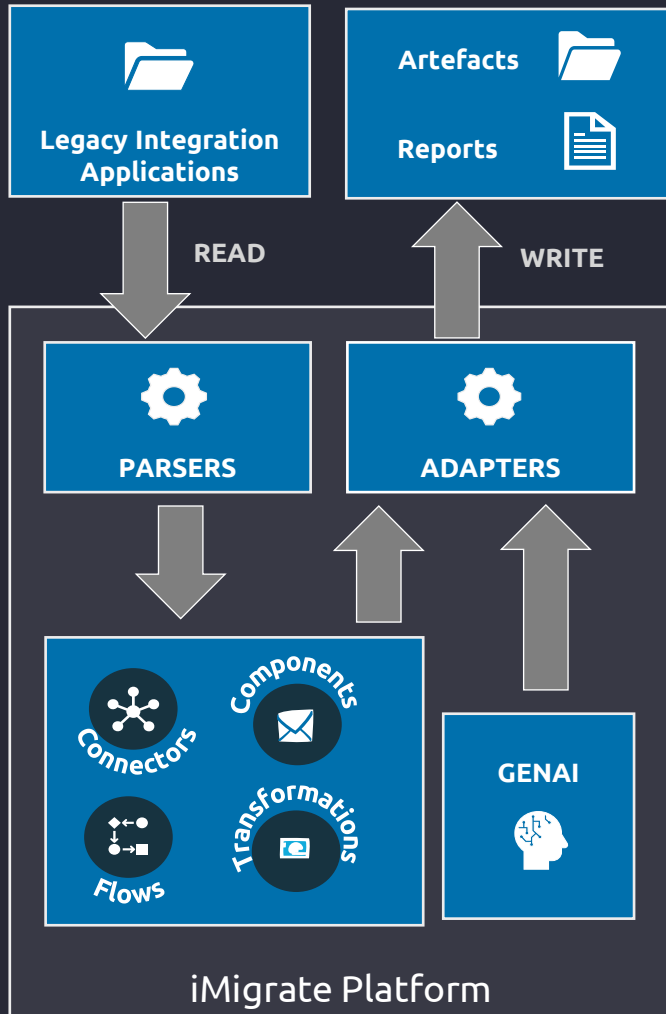2. Leverage **Reference architecture, target operating model** templates
3. Capgemini **iMigrate Asset** for migration to Azure Integration Platform
4. **Leverage Capgemini AI Testing tool** for **Migration Testing & Validation**
5. Capgemini's **Integration DevOps toolset** for build, test and deployment automation
6. **Hybrid Dashboard** for Monitoring all the services in Azure & BizTalk Integration

iMigrate - AI & Automation solution for migrating legacy Integration platforms to Azure Integration Platform

Legacy Integration Applications

Artefacts

Reports

READ

WRITE

PARSERS

ADAPTERS

Connectors

Components

Flows

Transformations

GENAI

iMigrate Platform

WHY iMIGRATE?

- **Accelerated Migration:** Automates up to 70% of migration tasks that includes data mapping, integration flows and business rules.

- **Cost-Efficient:** Minimises code migration costs through intelligent automation and reusable assets

- **Future-Ready:** Enables seamless transition to scalable and composable architectures

SOLUTION OVERVIEW

- **Intelligent source parsers & target adapters** to automatically extract metadata, configurations, & integration logic from legacy application.

- **Generative AI component** for complex data transformations & mappings

- Supports EDI and A2A migrations

PLATFORM MIGRATION

- **Microsoft BizTalk**

- **TIBCO BusinessWorks 5.x and 6.x**

- **MuleSoft Anypoint 4.x**

03

CASE STUDIES

Integration Platform Modernisation for Global French Luxury Fashion Retailer : Azure adoption for Enterprise Integration platform across 4 Regions and 30 Markets with a composable architecture solution

Challenges

- Multiple diverse ERPs (Microsoft AX V5, V6, D365 and SAP) across regions/divisions had to be consolidated to D365 ERP

- Need of Integration platform modernization from legacy BizTalk to Azure integration to support ERP modernization program

Solution

- Platform migrated from legacy Microsoft BizTalk to Azure IPaaS Services using **iMigrate**.

- Automated deployments using Azure DevOps -**1-Click**

- Reusable templates and assets for faster delivery and reduced technical debt

Business Benefits

- Over 20% Reuse across with standardized platform

- 30% efforts reduction in Rollout

- Improved customer services

- Faster launch of new campaign and products in markets

API & Integration Value Chain

STRATEGY & PORTFOLIO ASSESSMENT	DESIGN, PLANNING & PROOF OF VALUE	MIGRATION & TRANSFORMATION	OPERATION & OPTIMISATION
Enterprise Integration Strategy for Platform Migration & Portfolio Rationalization	Design Blueprint with Reference Architecture, Migration plan, Operational strategy & Execution approach defined	Modern Enterprise Integration Platform Build, Migrate & Transform services supporting 30 B2B and 22 B2C markets	CoE Engagement with end-to-end platform observability, real time insights and optimisation of resources

API & Integration Platform Modernization for Retail : Large Integration Platform Modernization and Business Transformation Program

Challenges

- Enterprise Business systems with siloed data & bespoke Integration
- Lack of business agility due to tightly coupled architecture and point-to-point integration
- Ability to deliver new digital channel transformation and its integration with ERP system for real-time data integration

Solution

- Delivery at scale for 1000+ BizTalk integration on new integration strategy in onshore-offshore model
- Transition from a centralized on-prem middleware-based integration platform to API-led composable architecture for high reusability

Business Benefits

- 40% faster delivery for business requirements with C4E Model, standardisation & reuse
- Streamlined Digital SCM with partner ecosystem
- Offered Customer 360 view & Improved Customer Experience

API & Integration Value Chain

STRATEGY & PORTFOLIO ASSESSMENT	DESIGN, PLANNING & PROOF OF VALUE	MIGRATION & TRANSFORMATION	OPERATION & OPTIMISATION
Transforming business systems with Enterprise integration strategy to create adaptive Experiences reducing Complexity and improving Speed to value	Design evolving migration plan for implementing best practices, eliminating point-to-point interfaces, reducing complexity, & wrapping legacy systems securely reducing risk	Create a more responsive, agile organization with enterprise integration by connecting all ERP's, CRM's, partner systems, data, processes, and devices.	Establish CoE & Optimize rock-solid connections with ERP, CRM and partner systems, providing end-to-end visibility and 360-degree view

Planning your Success, Together

INTEGRATION DISCOVERY & STRATEGY

Collaboration in due diligence of current state, defining enterprise integration migration strategy, target operating model & Integration platform selection to support your organizational goals

4-6 WEEKS

PRODUCT MVP

Integration solution & implementation with minimum but necessary features to validate the critical business or IT use cases i.e., key integration flows, viability of new product & its features to support Integration patterns & your platform migration

4-12 WEEKS

INTEGRATION FOUNDATION WITH QUICK WINS

Strategic approach that focuses on laying the foundation for long-term, scalable integration platform while delivering immediate value through integration flows and APIs that validates the Integration foundation

4-8 WEEKS

OFFER SUPPORT & RESOURCES

EXPERTISE TO SUPPORT SALES TEAM

INDUSTRY EXPERIENCE & TECHNOLOGY EXPERTISE

ACCELERATORS & TOOLS

LEVERAGE OUR ALLIANCE & PARTNERSHIP

About Capgemini

Capgemini is an AI-powered global business and technology transformation partner, delivering tangible business value. We imagine the future of organizations and make it real with AI, technology and people. With our strong heritage of nearly 60 years, we are a responsible and diverse group of 420,000 team members in more than 50 countries. We deliver end-to-end services and solutions with our deep industry expertise and strong partner ecosystem, leveraging our capabilities across strategy, technology, design, engineering and business operations. The Group reported 2024 global revenues of €22.1 billion.

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