



## Modernising Wholesale Banking for a Tier-1 Global bank: building a composable, event-driven banking with eMACH.ai

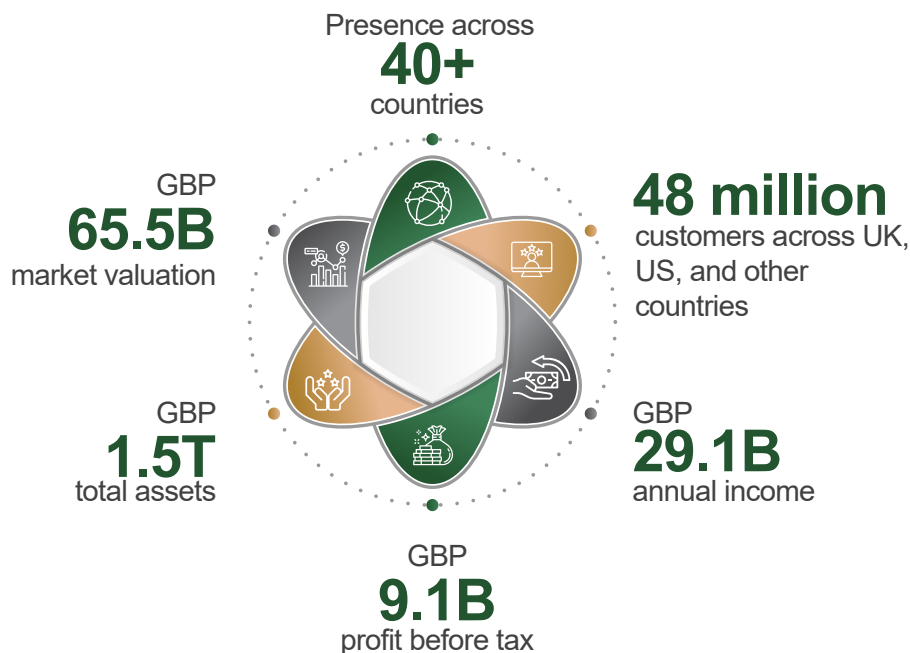
UK | eMACH.ai Core Banking

### Client overview

Headquartered in UK, the bank is a British multinational universal bank with a long-established position in global banking. Its wholesale banking franchise serves corporates and institutions across geographies, operating in a high-volume, high-control environment where **speed of product launch, straight-through operations, regulatory compliance, and integration readiness** are decisive competitive factors.

As customer expectations and market infrastructures evolve (real-time payments, richer digital channels, global liquidity needs), the bank initiated a modernisation journey to strengthen wholesale transaction banking foundations and enable repeatable, multi-market execution—starting with **GIFT City** and expanding further.

### The scale of impact

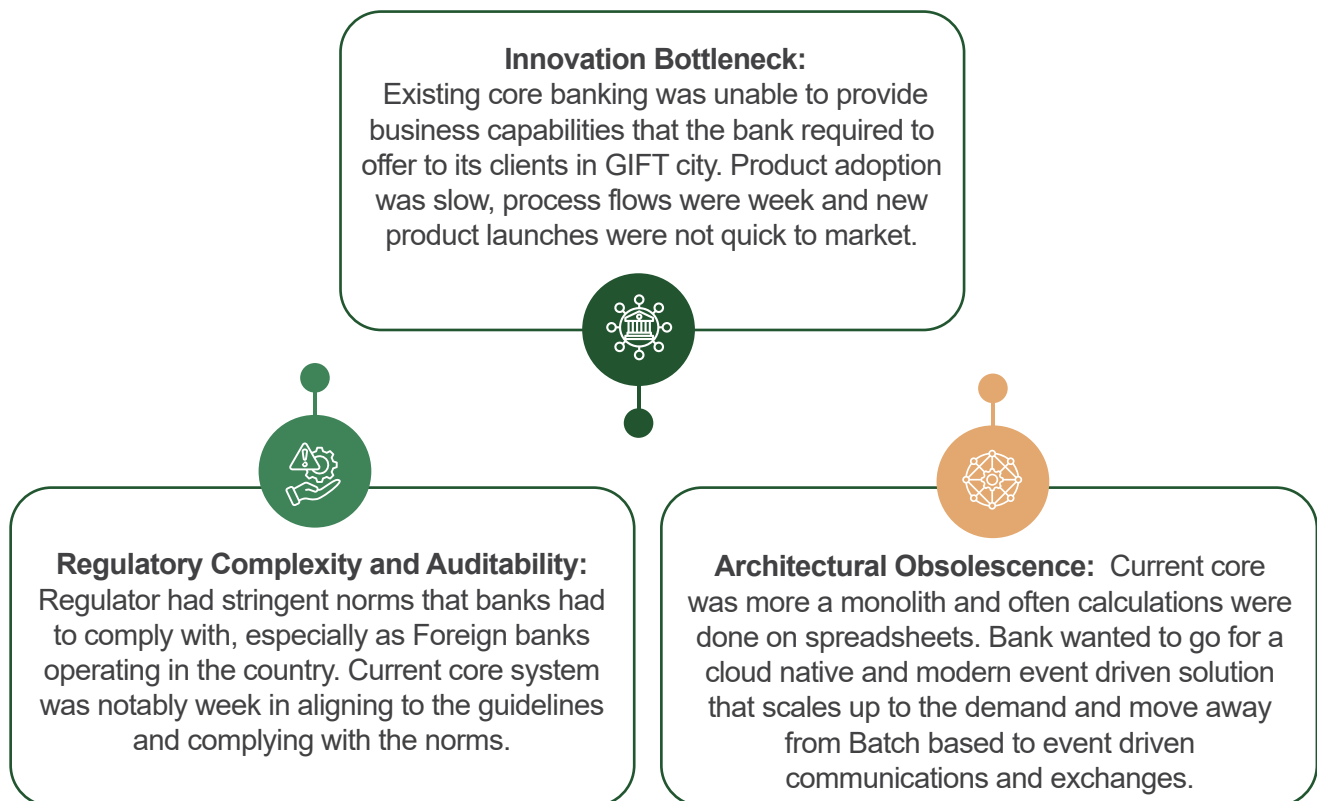


## Background

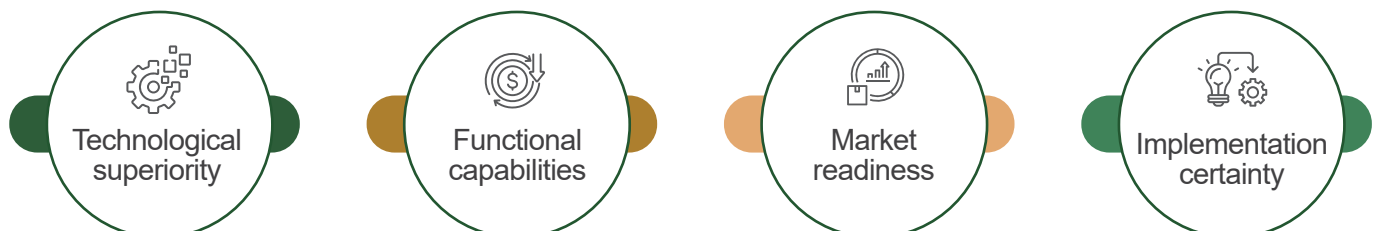
This UK bank has been an Intellect customer for over a decade, running Intellect's Transaction **Limit Management** in a high-volume environment. Building on this long-standing relationship, the Institution initiated a broader wholesale modernisation programme in late 2024-covering **Core (DDA)**,

### Payments, Liquidity, and Front-End Channels.

Key challenges faced by the bank that forced them to consider a Core Banking modernization included:



Over multiple weeks, it conducted intensive functional and technical workshops to define requirements, assess gaps, and evaluate vendor readiness. Vendors were assessed on four primary criteria:



Intellect was selected following this rigorous process, with the platform's composable architecture, integrated wholesale "all-in-a-box" proposition, and progressive transformation approach standing out as core differentiators.



## About eMACH.ai Core Banking

Intellect's eMACH.ai Core Banking platform offers a unified solution for Retail, SME, and Commercial banks. Its comprehensive product suite offers a complete spectrum of banking solutions, including Lending, Channels, Treasury, Deposits, Cards, and GL, amongst others. Leveraging a cloud-native microservices architecture, eMACH.ai Core Banking provides scalability and flexibility to

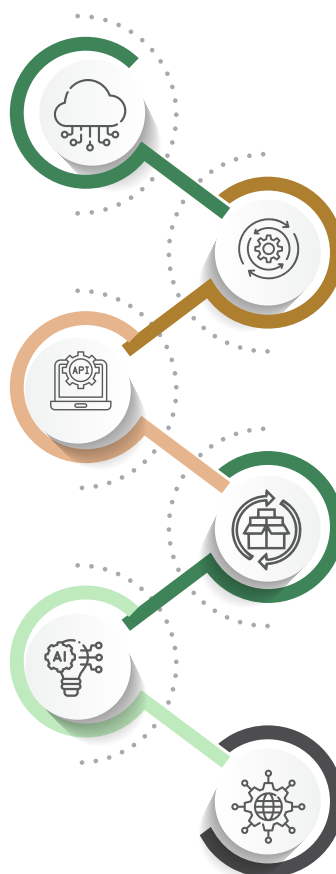
meet market demands. With eMACH.ai Core Banking, banks are empowered to deliver innovative solutions that meet the needs of today's clients.

**eMACH.ai Core Banking** is designed as a **composable, cloud-native core** that enables progressive modernisation without disrupting business continuity.

**Advanced, Composable Architecture** - Cloud-native, API-first, Microservices based and Event Driven architecture enabling rapid integration, flexibility, and innovation at scale.

**Superior Business Capabilities**  
Whether it is DDA or PSH or CBX or Liquidity – the bank saw a very strong business capability driven design in the various business components that can propel businesses.

**Regional Experience**  
With multiple installs and dealing with Central Bank of the country, the bank saw huge value in the experience that Intellect brings to the project



### Enterprise-wide Scalability

A unified platform supporting multiple wholesale banking verticals, delivering high performance, resilience, and lower total cost of ownership.

### All in a Box

Wholesale Banking offering with a bundle of products / Business components including DDA + PSH + CIM + CBX + Liquidity helped reduce complexity for the bank.

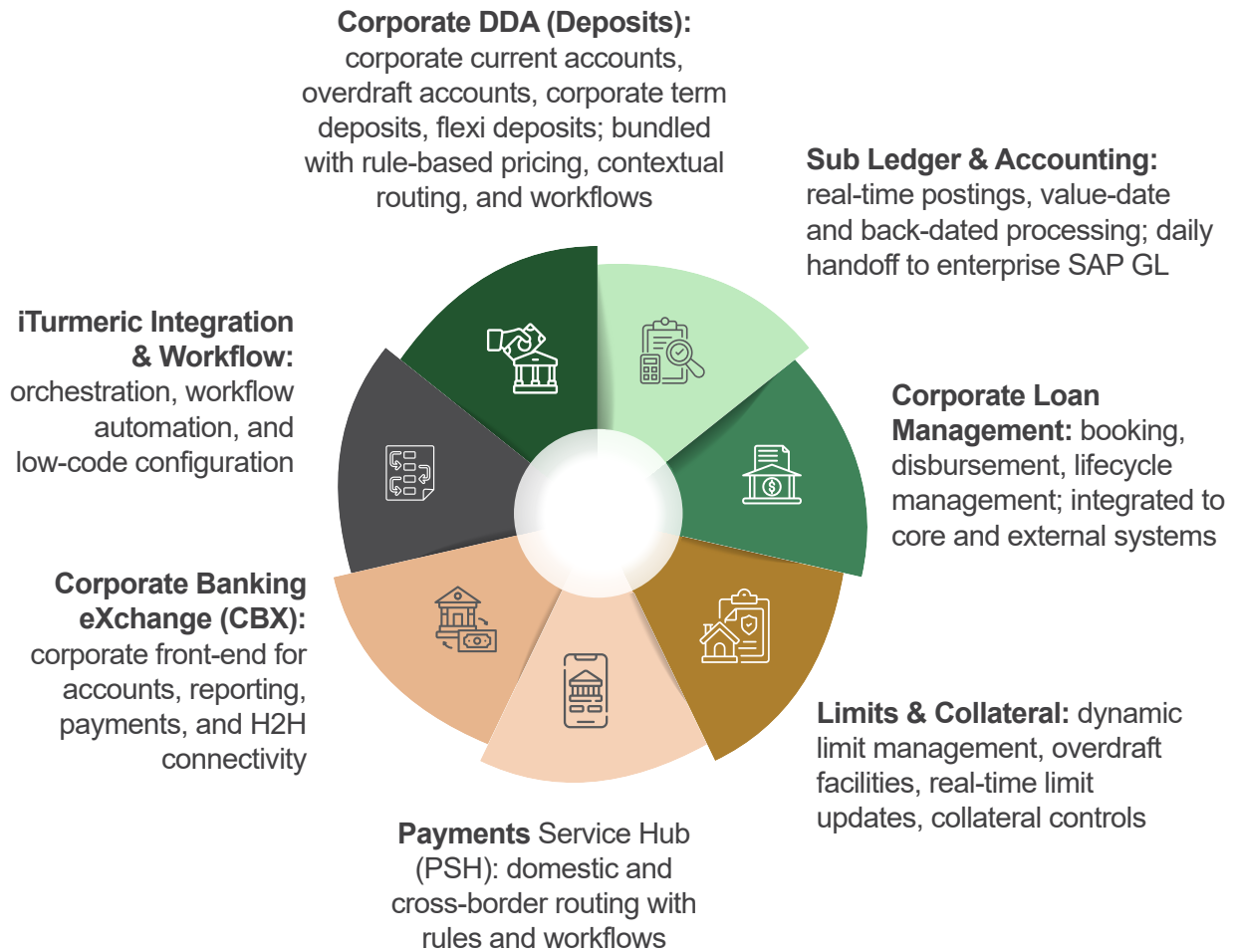
### Omni-channel digital transaction banking

Corporate Banking eXchange (CBX) platform, which can support more than 65k active channel users, and 35M payments on average every month

## The eMACH.ai advantage

Intellect delivered a full-stack modern banking platform built on **eMACH.ai architecture** (event-driven, microservices-based, API-first, cloud-native, headless, with embedded AI foundations), deployed on the bank's private

cloud. API first approach of eMACH.ai drastically reduced the implementation timelines and delivered on time for the bank's internal certification. The programme scope included:



The implementation was structured to enable repeatable rollouts while maintaining strong performance governance. The bank adopted a multi-country rollout blueprint, beginning with GIFT City and with planned expansion across India, Asia, Europe, and the US. A single code base strategy ensured consistency, easier maintainability, and simpler upgrades, while one-time group integrations helped accelerate subsequent country deployments.

The operating model was designed to be event-driven, enabling asynchronous ecosystem integration through publish/

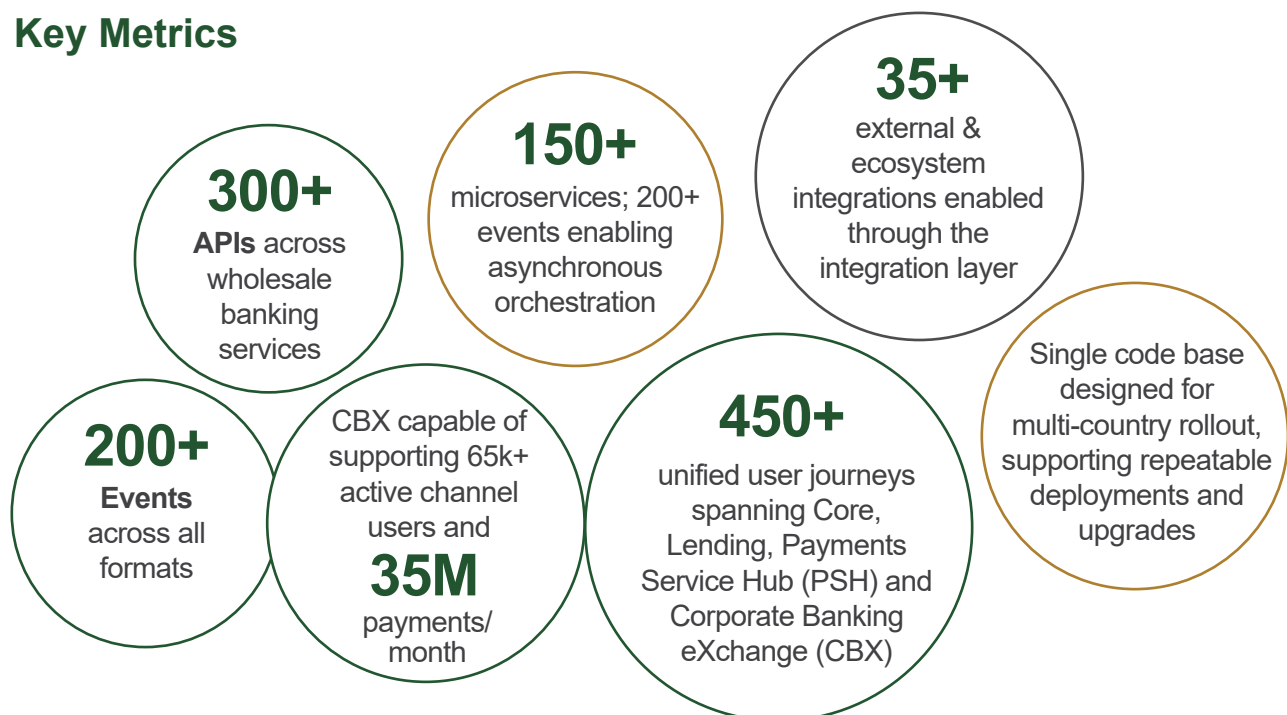
subscribe patterns for real-time responsiveness. In parallel, a rigorous performance engineering discipline was applied, with API response times and event emissions benchmarked and categorised (Category A/B/C) to ensure speed and reliability at scale.

Finally, the bank implemented an integrated wholesale "Bank-in-a-Box" stack-covering DDA, Lending, PSH, Channels, and Liquidity-to reduce cross-system friction and simplify end-to-end operations.

# Architecture overview across India, GIFT city and beyond

BRANCH		INTERNET			H2H	
DIGITAL ENGAGEMENT PLATFORM – WHOLESALE BANKING						
IDENTITY & ACCESS MANAGEMENT	USER IDENTIFICATION	USER AUTHENTICATION	SINGLE SIGN-ON	AUTHORIZATION	ENTITLEMENTS	
INTEGRATION PLATFORM (TURMERIC)						
CLIENT INFORMATION MANAGEMENT (CIM)						
DDA	LENDING	PAYMENTS	DIGITAL CHANNEL	LIQUIDITY MANAGEMENT	VIRTUAL ACCOUNT	
Current Accounts	Foreign Currency Term Loans (FCTL)	SWIFT FI to FI Credit Transfer (Inward & Outward)	SWIFT FI to FI Credit Transfer (Inward & Outward)	Sweeps / Cash Concentration	Corporate Hierarchy	
Overdraft Accounts	External Commercial Loans (ECB)	SWIFT Customer Transfer (Inward & Outward)	Online Statements (PDF, MT, MX)	Multi-Bank Cash Concentration	Multi-Currency Account Hierarchy	
Escrow Accounts	Working Capital Loans	Account to Account Transfer	Term Deposit Booking & Withdrawal	Day Zero Sweeps	Account Structure	
Corporate Term Deposits	Deposit Linked Loans	FCSS (Foreign Currency Settlement System)	Payments (Vendor CBFT, A2A)	Inter-Company Lending	Cross Border Receivables	
Flexi Deposit	Centralised Limits & Collaterals	USD to USD RTGS Settlement	Pan Beneficiary Payment Tracking	Notional / Hybrid Pooling	Payment Approval Hierarchy	
Interest Management			Channel Administration	Interest Optimization	A/C Reconciliation	
Call / Notice Accounts			H2H Connectivity	Automated Investments	In-house Banking	
FOUNDATIONS	Reference Data	Customer Onboarding	Account Lifecycle Management	Deposit Lifecycle Management	Loan Lifecycle Management	
	Workflow	Payment Orchestration & Processing	FX Integration	Interest Management	SWIFT Messaging	
	MIS & Monitoring	Accounting	Statement Management	Communications	Reports	
	Fees & Charges	General Ledger	KYB/KYM	Access & Identity Management	ISO & SOX	

## Key Metrics



## How eMACH.ai Core Banking supports the bank today

The implemented platform supports and enhances the bank GIFT city Operations by enabling:

### 24X7 System Availability

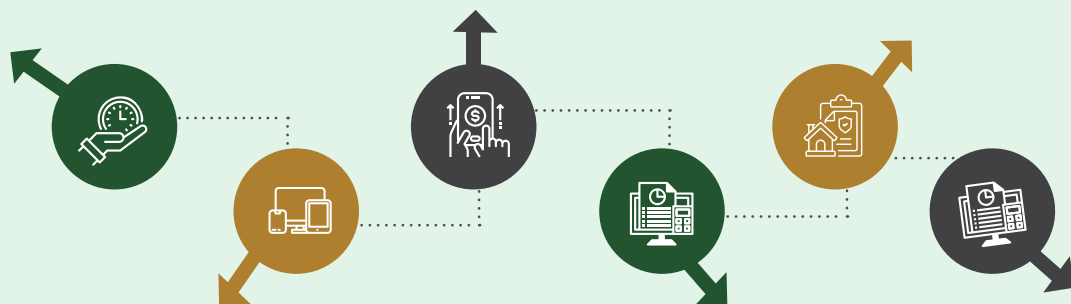
Zero downtime during End of Day processing, ensuring continuous flow and processing of transactions.

### Contextual Payments

Processing of Domestic and Cross Border funds transfer with multiple parameters that design the course of a payment instruction – fully MX compliant.

### Sub Ledger

Inbuilt Sub Ledger that takes care of Accounting with diligent Value Date and Back dated processing of transactions ensuring zero reconciliation.



### Omni Channel Offering

Rich and UX intuitive channel offering that provides a façade for all service/transaction requests to flow to the Back office seamlessly through APIs and Events.

### Event Based

Fully event driven with every financial and non financial transaction emitting events that are consumed by the ecosystem.

### Deposits & Overdraft

Enhanced DDA capabilities with Overdrafts that are compliant to the regional regulations.

## Future Scope

The programme is designed for progressive, multi-country expansion-starting with GIFT City in India and extending to additional markets across Asia, Europe, and the US. Going forward, the bank is expected to scale the single code base across jurisdictions through incremental localisation rather than reinvention, enabling faster and more consistent rollouts.

The future roadmap also includes expanding ecosystem integrations using the existing

integration framework to reduce the marginal effort required for each new deployment, while deepening event-driven coverage to improve real-time operational observability and enable higher levels of automation. In parallel, it plans to extend parameter-driven configuration to accelerate the launch of new product variants, pricing constructs, and workflow changes, reducing dependency on release cycles and strengthening business agility.

## Business Impact Delivered



### Faster product and change delivery through composability

By moving to a configuration-led and microservices architecture, the bank can introduce product constructs and workflow variations with significantly reduced delivery friction. Parameter-driven setup supports faster iteration while preserving governance and control.



### Reduced transformation risk via progressive modernisation

A core advantage of the approach is the avoidance of a high-risk “big-bang” replacement. The programme’s progressive transformation model is specifically positioned to mitigate migration risk and operational disruption—critical in wholesale banking environments.




### Higher operational continuity with always-on processing

The platform design supports 24x7 availability and zero downtime during End-of-Day, enabling uninterrupted transaction processing and improving service reliability for corporate customers.



### Enterprise-grade integration readiness

With 35+ external & ecosystem integrations enabled through the integration layer, One-time Integration design provides the bank a practical foundation for connecting to group systems and market infrastructure—reducing integration lead times for subsequent rollouts in other countries.



### Performance, scale, and digital servicing at wholesale volumes

CBX’s capacity to support 65k+ active channel users and ~35M payments/month, combined with the platform’s 300+ APIs, 150+ microservices, and 200+ events, demonstrates an architecture built for wholesale scale and continuous growth in transaction volumes.



### Simplified ecosystem through an integrated wholesale “bank-in-a-box”

Delivering DDA, lending, payments, channels, limits/collateral and liquidity capabilities as a cohesive stack reduces platform fragmentation, streamlines operations, and provides a cleaner foundation for governance, controls, and change management across markets.

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