

# TECHNOLOGY

Technology is strategy. We say this because our Technology products and frameworks make banks more agile, competitive and profitable, and help them thrive in complex, margin-pressured environments.

These products also boost the scalability and resilience of the banking platform, enabling banks to perform well in the midst of complex, risky and margin-pressured environments. Specifically, we help banks to:

- > Become digital banks with real-time multichannel banking and real-time analytics and reporting;
- > Exploit innovative third-party user-interfaces and apps and other cloud-based resources;
- > Manage the cost of growing their banking platform and operations;
- > Address the threats of disruption, disintermediation and commoditization which arise from the entry of fintechs and large tech native players into their markets; and
- > Engage with changes to their industry and use them for their own advantage.

Our Technology products and frameworks are organized into five offerings, reflecting five areas in which banks face major business challenges.



## DATA

Turn the lead weight of data into a golden opportunity: manage it, unlock it and extract value from it.

Temenos' Data products provide banks with a unified data platform that helps them deal with the massive data volumes of the digital banking era by efficiently managing their data, unlocking and better accessing their data, and extracting value from their data.

Temenos' Data framework lets changes made by any Temenos product to be available in near-real-time to any configured reporting database. This data federation enables multi-tenant and multi-region operation without loss of real-time query.

This technology enables banks to strengthen their customer-centricity and support business decisions even when the volume of business data is growing fast. The key business benefits of our Data products and framework are:

- > Scalability: the ability to efficiently process massive volumes of both transactions and reporting queries without increasing costs, thereby preserving the quality of the customer and business user experience as the business grows;
- > Productivity: the ability to support advanced reporting capabilities that provide business decision-makers with value-adding perspectives, and to provide customers with fast responses to online queries; and
- > Competitiveness: the ability to exploit business analytics solutions to their fullest capabilities, enabling banks to action valuable insights and offer highly tailored and proactive products and services to customers.



## DESIGN

Adapt banking system functionality and business processes better, faster and more frequently.

Temenos' Design offering boosts banks' responsiveness to changes in business requirements while reducing cost-per-change, by enabling banks to adapt the functionality of their Temenos business systems and to adapt their business processes in a productive, cost-efficient and low-risk manner.

This technology enables banks to easily make high quality adaptations to systems' functionality to stay abreast with evolving business requirements and customer journeys. The key business benefits of our Design products are:

- > Responsiveness/Productivity: the ability to respond to evolving business requirements by adapting functionality and processes much faster and much more frequently, possibly multiple times a week or even per day, without increasing costs;
- > Quality: the ability to build and run a highly industrialized and institutionalized change-the-bank process which encourages high quality development work and eliminates the risk of faulty changes affecting business operations; and
- > Cost-efficiency: reduce dependence on vendor-specialized experts, legacy in-house tools and complex coding cycles, and maximize the level of automation of the change-the-bank process.



## INTEGRATION

Be more agile and competitive with real-time event based integration.

Temenos' Integration offering makes banks more agile by enabling them to integrate systems much faster and more cost efficiently, and more competitive by enabling real-time, highly scalable, self-assisted and multi-channel banking 24/7.

Temenos' Integration framework is the basis for Temenos support for PSD2 based on ISO 20022 messages being exchanged between banks and third party payment providers in near-real-time.

This technology enables banks to offer a superior customer experience, one that is much more timely as well as more easily attuned to evolving customer needs, even when business is growing fast. The key business benefits of our Integration products are:

- > Agility: the ability to integrate any business system up to 3x faster, without detailed vendor-specific coding work, enabling banks to respond much faster to evolving business needs;
- > Competitiveness: the ability to provide multi-channel banking services in near-real-time 24/7, enabling banks to be competitive in the era of real-time digital business;
- > Profitability: the ability to sustainably reduce the costs of performing and maintaining integration, and the ability to exploit cloud-based applications;
- > Scalability: the ability to preserve the performance of integrated business services and straight through processing as business volumes grow; and
- > Reliability: reduce the risk of batch processing glitches and provide protection against regulatory scrutiny and reputational damage.



## INTERACTION

Opening banking platforms to accelerate the pace of innovation around services.

Temenos' Interaction offering accelerates the pace of innovation around banks' services by enabling them to easily expose their services to innovation Partners and to any User-Interface (UI). It also lets the bank create innovative combined services and efficiently manage UIs across multiple channels/devices/roles/languages.

Temenos' Interaction framework is the basis for Temenos support for APIs whether for banking mobile agents or for open banking. The framework enables the API to be mapped to the underlying enterprise services whether provided by Temenos, the bank, or third parties.

This technology enables our clients to easily build and maintain an outstanding digital customer experience that can evolve fast and cost-efficiently. The key business benefits of our Interaction products are:

- > Innovation: the ability to make banking services readily available in a standard way to innovation Partners and to any third-party UI of their choosing, which will accelerate the pace of innovation around services;
- > Competitiveness: the ability to efficiently distribute innovate services, including combined (banking and/or non-banking) services, via outstanding UIs and via multiple channels/devices;
- > Flexibility: make it much easier to evolve UIs at a faster pace than underlying business systems without incurring substantial costs (from 'ripping out' and 'rewiring'); and
- > Cost-efficiency: reduce dependence on vendor-specialized experts and on lengthy coding cycles to make banks services readily available and to build their own UIs; enhance the re-usability of APIs and UIs that they create, and pre-empt data openness regulatory requirements.



## PLATFORM

Reduce the cost of growth and complexity with a highly scalable, efficient and flexible platform.

Temenos' Platform offering helps banks run and scale their business systems much more efficiently and to minimize TCO. It does this by letting banks run their core banking system in an application server and, when required, in a multi-tenant or cloud-based set-up. In all cases, business functionality is totally preserved.

This technology enables banks to deliver outstanding service to their customers and business users. The key business benefits of our Platform products and framework are:

- > Scalability: enables banks to preserve the performance of their core banking system at all stages of growth, while keeping operating expenses in check, by fully exploiting application server technology and the possibility of using a virtually unlimited number of app server instances arranged to work together (clustering); and the ability to undertake comprehensive reviews of their system's health without impacting performance;
- > Cost-efficiency: the ability to significantly reduce infrastructure and administrative costs of running and growing a complex organization by letting multiple entities ('tenants') share a same instance of the core banking system on a single set of platform resources; and the ability to automate multi-tenancy management to a large extent; and
- > Flexibility: at an operational level, the ability to choose which operating system and application server a bank wishes to use to run their banking systems; and, at a strategic level, the ability to easily create and manage new tenants in the system, increasing business agility.