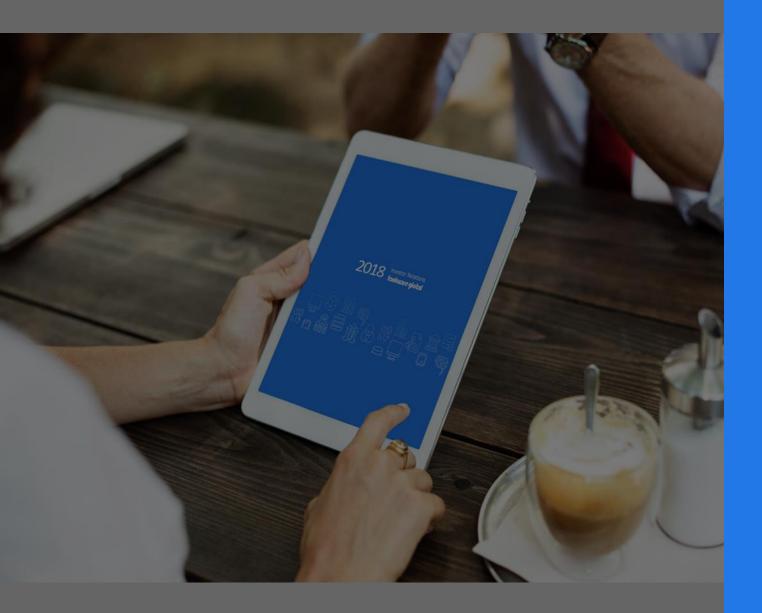
We make the best financial solutions.

# Digital Banking Solution Including Smart Kiosk (ATM)

"

ACTT Management Services Pte. Ltd.



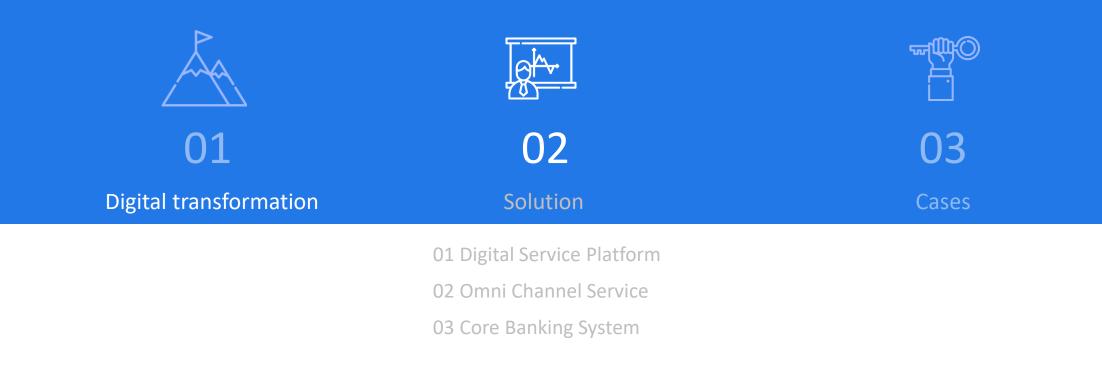


# Agenda

# Digital transformation

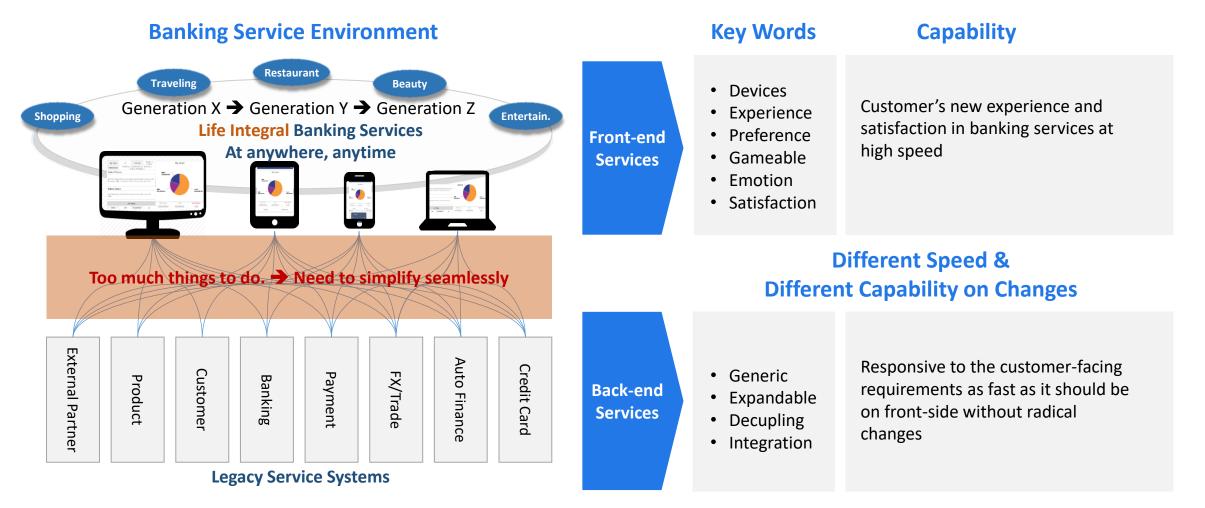
# Solution end-to-end

More cases



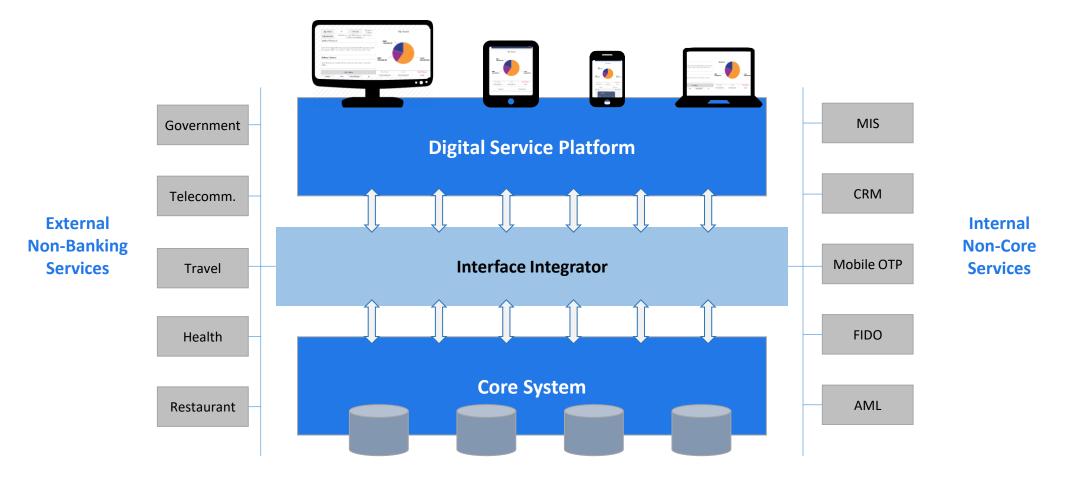
## Key Considerations for Digital Banking Services

Need consideration on two-speed architectural strategies from our experiences of implementing digital transformation effectively and efficiently. It is because that the required capabilities and the speed of changes on front-end and back-end side differ from each other.



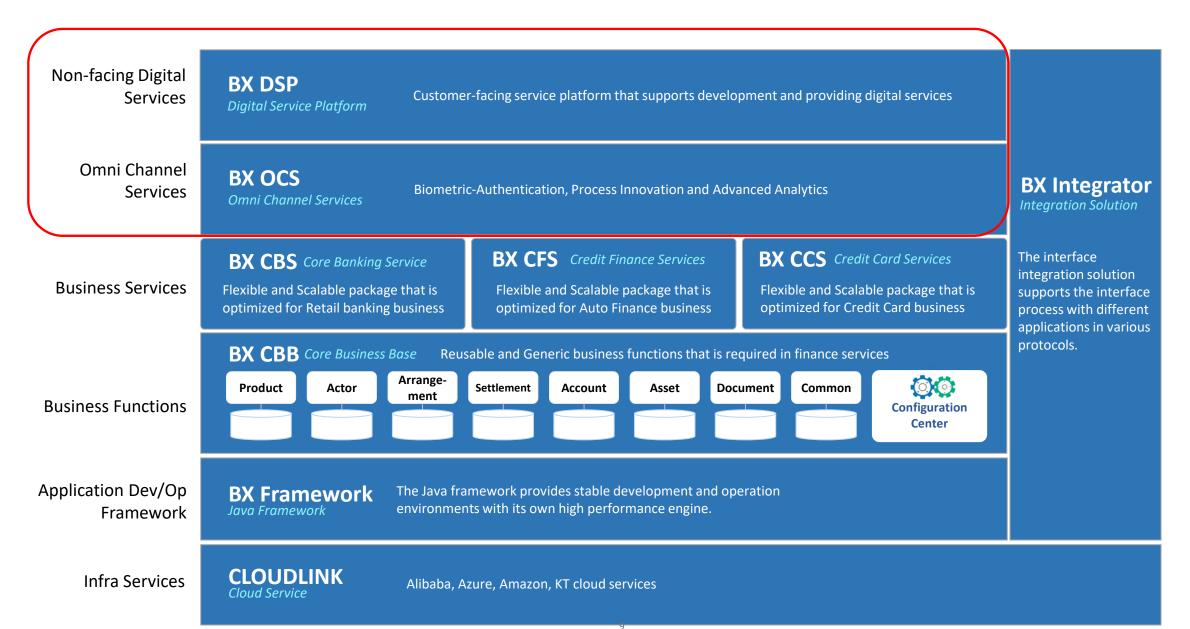
## Separate of Concerns

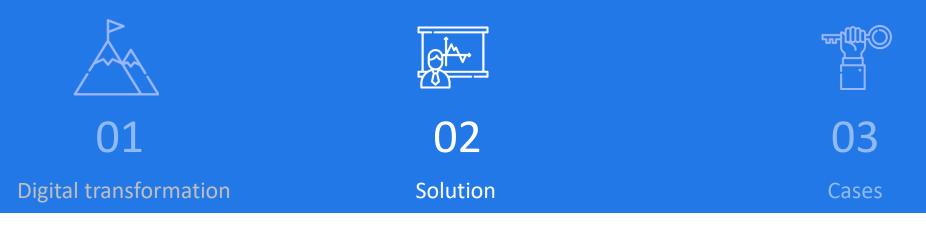
It is very common terminology but frequently forgets on the way of architecting. We have divided 3 layers by concern and concentrated on digital service enabler and integration of the functions between layers.



### **Finance Solution Lineup**

With our business excellence(BX) solutions, you can quickly deal with various needs of digitized financial service and the latest trends.





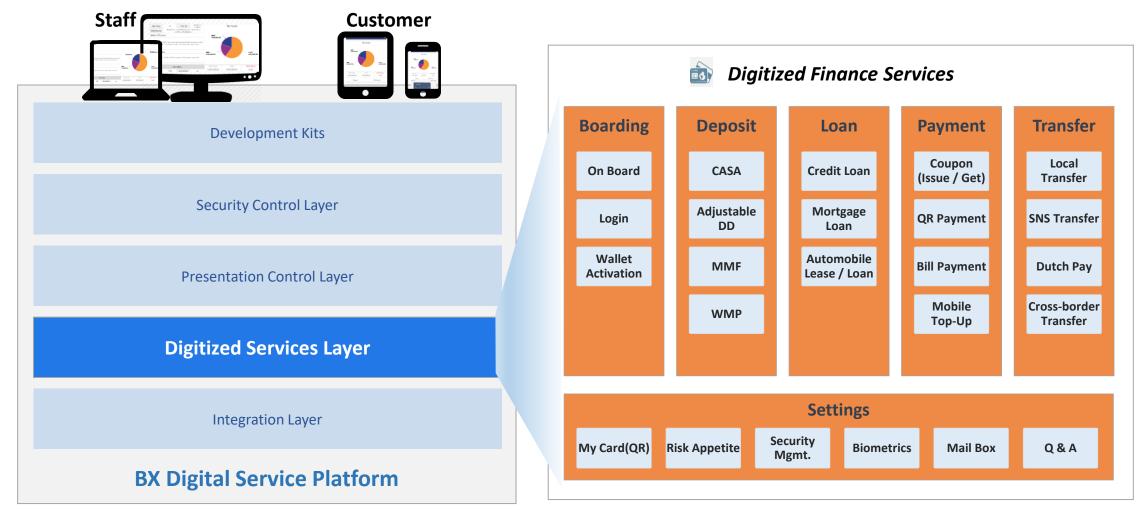
#### 01 Digital Service Platform

02 Omni Channel Service

03 Core Banking System

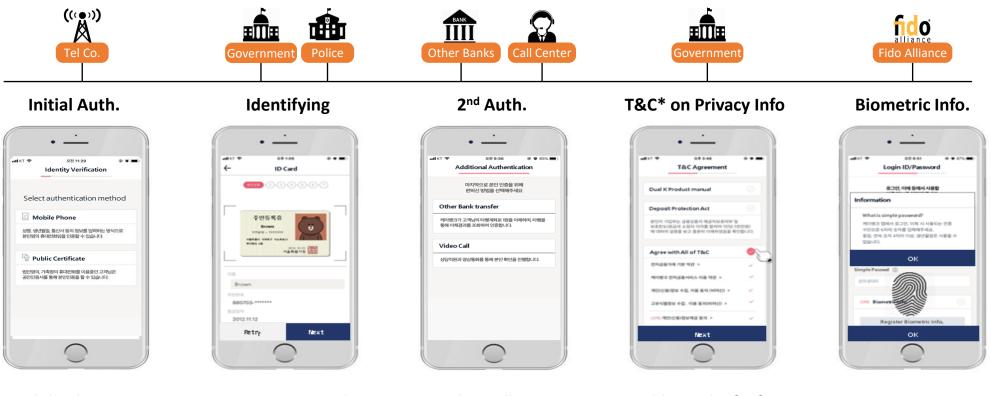
#### Digital Service Platform > Digital Finance Services

It has pre-built non-facing customer services modules as self on-boarding based on e-KYC, e-Wallet, e-Deposit, e-Mortgage, e-Auto Finance, e-Payment, and e-Transfer services.



# Digital Finance Services > Self on-boarding based on e-KYC

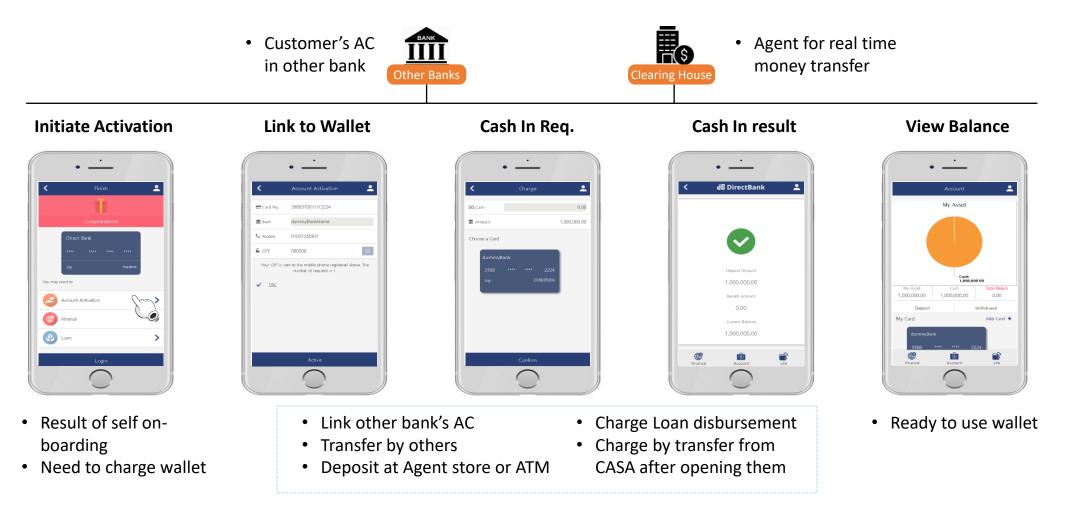
BX DSP is equipped with advanced pre-built technical solutions to identify customer's device, authenticity of customer's ID and biometrics with easy service integrator and choreography solutions



- Mobile phone
- Public certification
- Scraping ID Card or Driver's License
- Video CallAccount in other banks
- Additional Info. from external party base on agreement
- Register PIN or
- Biometrics via FIDO

# Digital Finance Services > Digital(Wallet) Account Activation

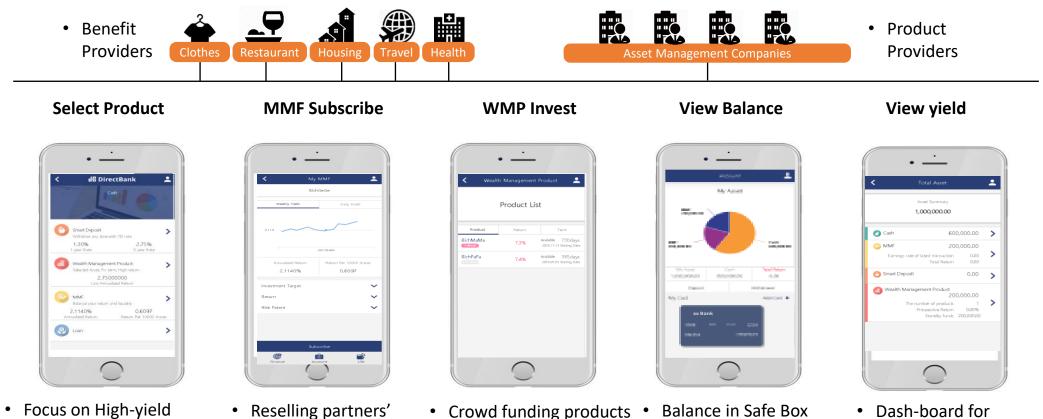
Wallet account is a key account of all the non-facing finance services. BX DSP provides 6 different way to charge the wallet account.



# Digital Finance Services > Digital Deposit Services

Products (MMF)

Unlike traditional products, digital deposit aims to digital oriented customer with new products such as MMF, Crowd funding, and Adjustable Demand Deposit products. BX DSP has pre-built function that can define any type of finance product and benefit for digital deposit services

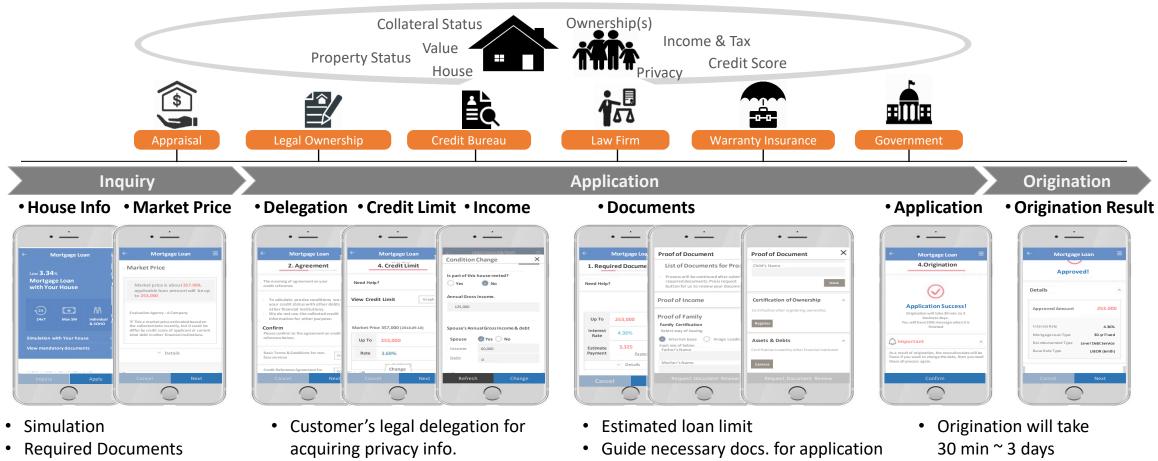


- Products
- Benefits (coupon, point...)

- 14
- Crowd funding products
  - Balance in Safe Box with additional interest
- Dash-board for balance and earnings

# Digital Finance Services > Digital Loan Services – Mortgage Loan

Mobile Loan Services covers both secured and non-secured loan based on new technology such as scraping, biometrics, electronic document and electronic mortgage registration.



- Market Price & Estimated value Additional sensitive privacy info ٠
- Docs with image by scan, file, or camera

•

# Digital Finance Services > Digital Payment

On back-end system, real time transfer service takes the

Transfer at the same bank & Transfer to other bank

information and executed automatically.

\*

\*

BX DSP has pre-built payment services such as QR payment, bill payment, and mobile top-up.

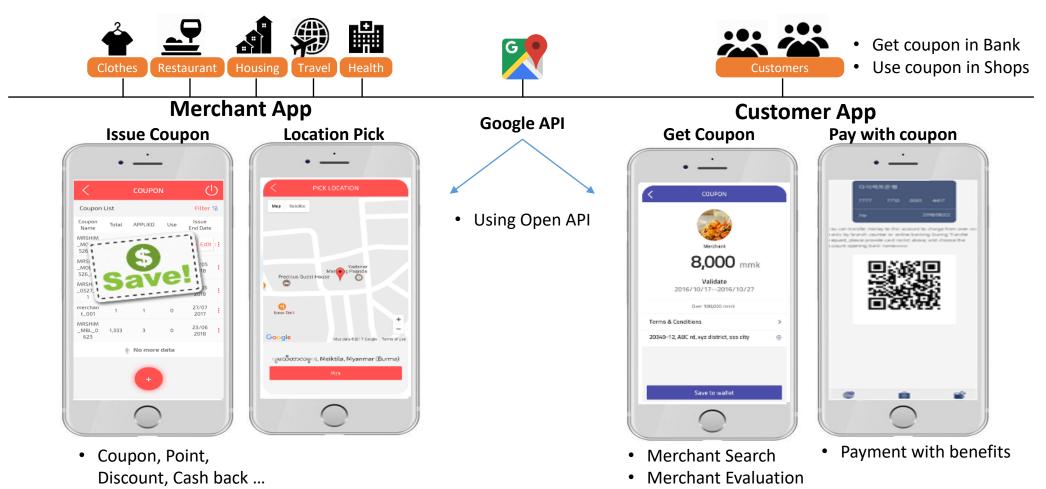


- Add or Remove Utility Bills by User.
- Utility company request payment periodically as set.

16

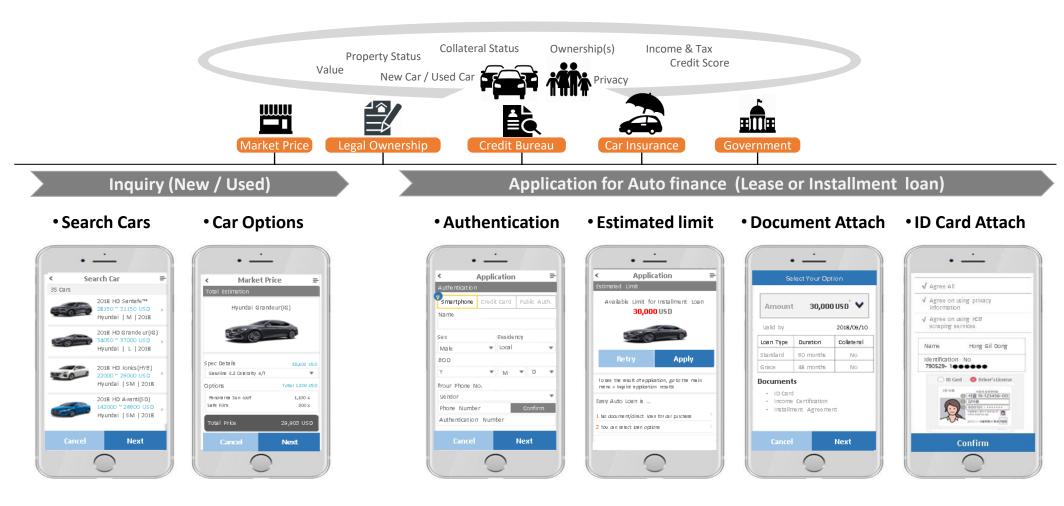
## Digital Finance Services > Digital Payment with Coupon

Digital payment in BX DSP has been equipped with benefits to be used when customers make payment. This feature has been working effectively to acquire new customers for both merchant and bank.



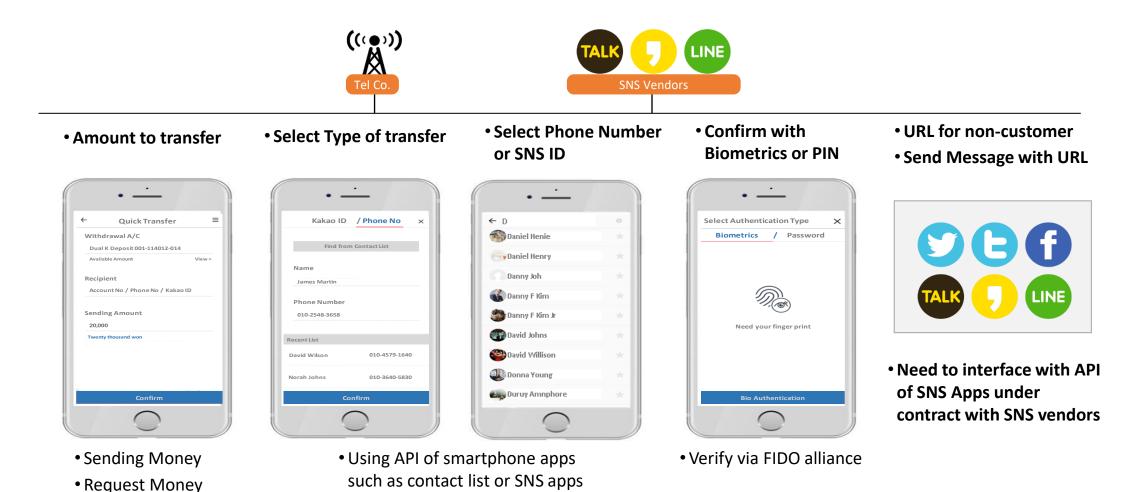
#### Digital Finance Services > Digital Auto Finance

Auto finance service is to provide installment loan or lease services when customers need a new or used car. By using this digital finance services, customer can search car, compare quotation by car sales agent, and loan application by mobile phone.



## Digital Finance Services > Simple Money Transfer

This solution supports different types of money transfer such as standing order, reserved transfer, delayed transfer, real time transfer by phone number or SNS Id. It also has functions to make URL that can start services for non-customer receivers.

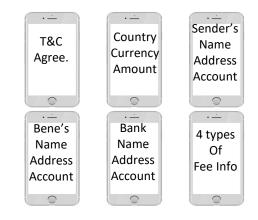


19

## Digital Finance Services > Cross-border Remittance

This is a good example of how to digitize existing banking services. Digital banking service is not just moving legacy services on mobile devices, but create new service model based on disruptive and creative mind for better customer's experience and satisfaction.

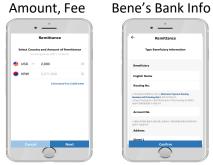
# OOO Bank in Korea



Bene's Info

# **Our Clients**

Country, Amount, Fee



- 6 Steps
- 22 input Items
- 2<sup>nd</sup> Authentication
- 2~3 days
- 4 types of fees
- SWIFT network

- Legacy Service on Mobile.
- It is nothing but the same service at branch
- Customer's experience is almost the same with that of branch

## Digital Banking Service is...

- Not just digitizing legacy services on mobile devices.
- Disruptive new experience and satisfaction.

- Design disruptive new processes as digital service
- New experience with convenient, easy and lower fee
- Satisfaction with near real time, much lower fee
- Authenticate with Biometric

2 Steps

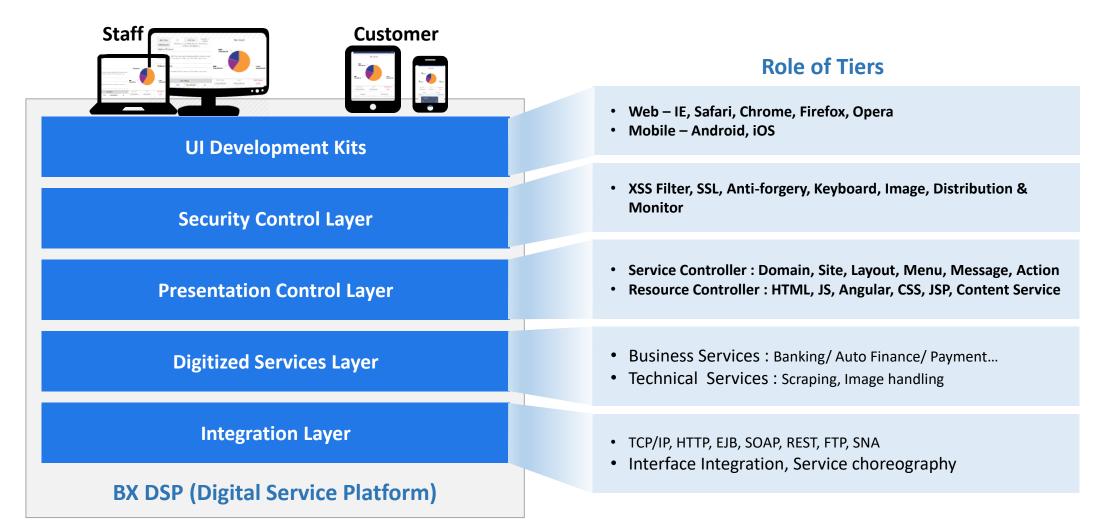
- Near Real Time

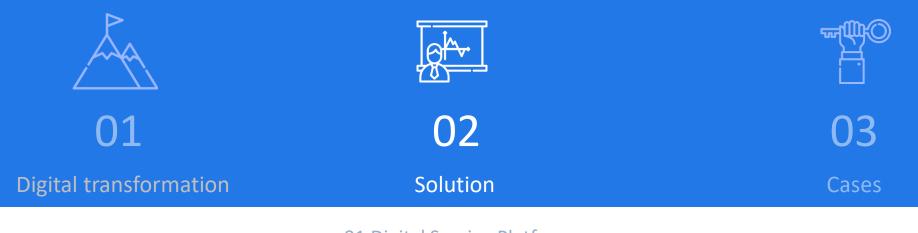
7 input Items

- Lower Fee
- Partner Network

#### **Digital Service Platform > Summary**

BX DSP is a platform to provide digitized finance services to customers by facilitating pre-built functions for UI, security, resource control, business services and service integration.





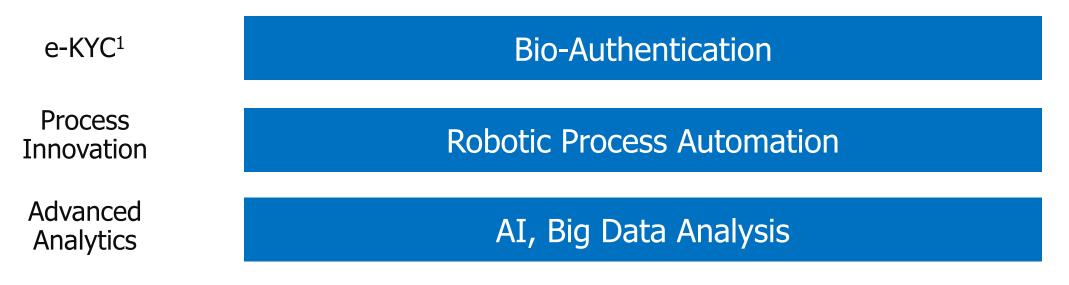
01 Digital Service Platform

## 02 Omni Channel Services

03 Core Banking System

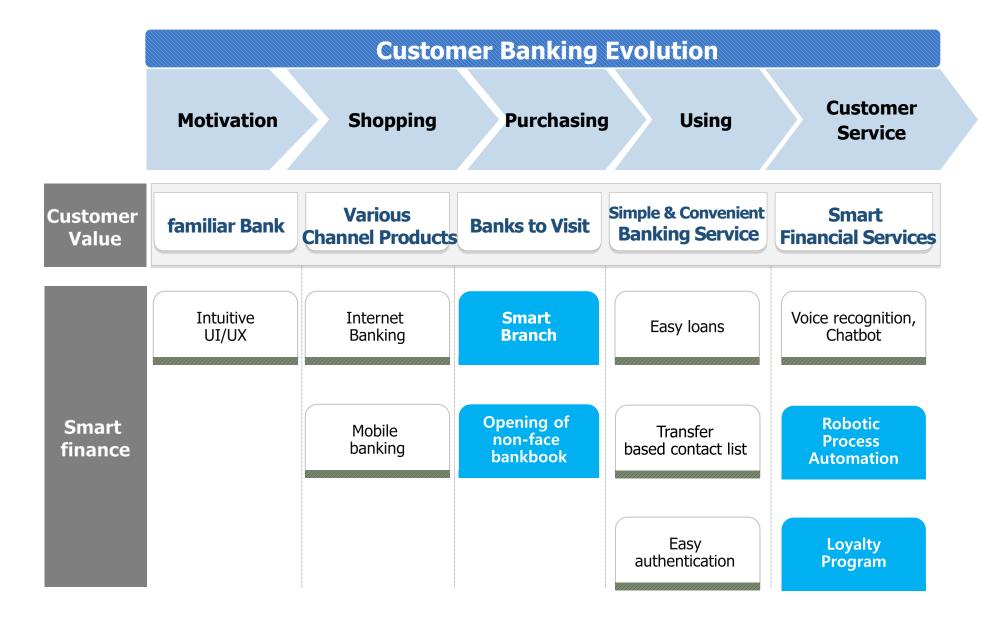
#### **Omni Channel Service**

With OCS solutions, you can quickly implement various needs of e-KYC, process innovation based Smart Branch and advanced analytics capabilities



<sup>1</sup> e-KYC : electronic Know Your Customer

# Customer Banking Evolution



# Smart Branch Case- Global

Differentiate customer experience by applying digital signage and artificial intelligence

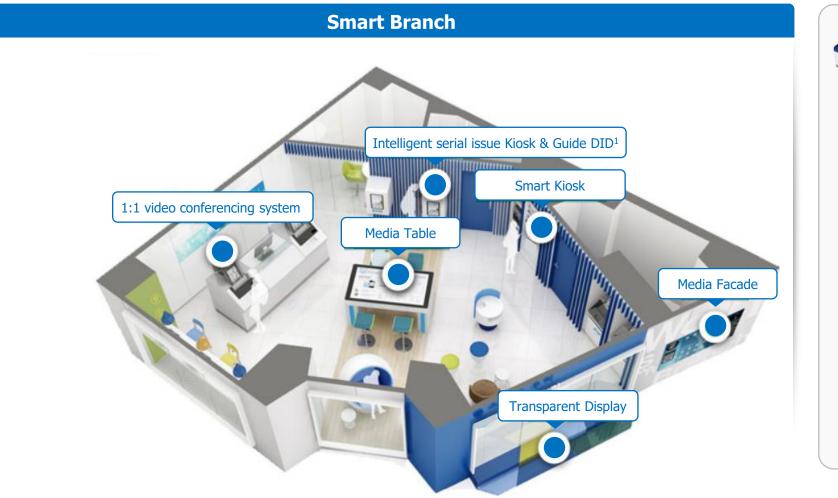
Bank of America	Deutsche Bank	Mizuho Bank
Unmanned stores	Q110	Unmanned stores
<ul> <li>Upgraded ATM</li> <li>one resident employee</li> <li>ATMs handle most of the financial activities of account creation, remittance, withdrawals and loan applications without staff</li> <li>Video consultation with professional staff in video conference room for retirement design and start-up finance</li> </ul>	<ul> <li>Ideas and research on what banks should look like in the future</li> <li>Develops packages for financial products and displays like products</li> <li>Rapidly banking operations through automation corners</li> <li>Lounge provides snacks and simple food</li> <li>Trend stores are equipped with luxurious bags, daily necessities, and small stores in the shop every three months.</li> <li>Daily check of how long a customer visits Q110 and where he or she stays</li> </ul>	<ul> <li>Bankless Experiment</li> <li>Apply humanoid robot peppers to 37 banks nationwide including Mizuho Bank and Aomori Bank in Japan.</li> <li>Simple financial processing by customers with artificial intelligence</li> </ul>

# Smart Branch Case- Korea

Biometric authentication and video call for non-face-to-face realtime authentication Simplifies consultation and processing by employees directly

S Bank	W Bank	C Bank
S20	Smart Branch	Cheongdam Center
<ul> <li>1:1 video conferencing system, Media Table, Smart Kiosk</li> </ul>	<ul> <li>1:1 video conferencing system, Media Table, Smart Kiosk, Media Facade</li> </ul>	<ul> <li>Media Table, Media Facade</li> </ul>
<ul> <li>Operations staff support professional counseling, teller desk, and Smart Brunch function</li> </ul>	<ul> <li>Multiple bio-certification through iris, fingerprint and palm veins</li> </ul>	<ul> <li>Employees approach the customer first, without waiting their turn after the customer draws out the number</li> </ul>
<ul> <li>Much more competitive than traditional stores, reducing the size of existing stores</li> </ul>	<ul> <li>Increase the processing level to 108 units, which is about 90% of the total work in the bank</li> </ul>	<ul> <li>Work on a large monitor at a wide table like an electronics store without employees, and promote financial products through a large screen.</li> </ul>
<ul> <li>Simple operation by employees directly reduced by 45% or more compared to existing stores</li> </ul>	(including savings and loan payments, various reporting services, deposits, loans, foreign exchange, funds, and cards)	<ul> <li>Account opening, credit card issuance and loan processing are handled by customers themselves</li> </ul>

Reduces customer wait time and efficiently promotes products and services



"To handle 90% of the work" (1:1 Video conferencing)



"Seamless Promotion " (Product search, information input)



"Handle without staff help" (Opening a bank account, issue a card)



"Visualize Standby " (Order waiting & guide)

"Product recommendation " (Shop in Shop)

처음 오셨나요?

이번에 한 비당이

누르세이

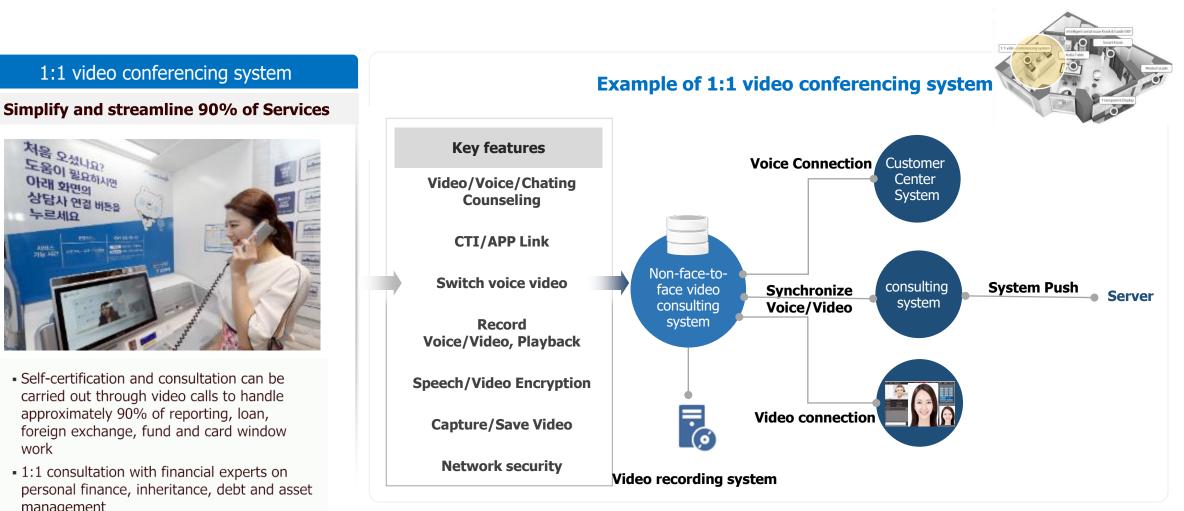
work

management

도움이필요하시면

상담사 연결 배동용

Streamline personal finance and asset management tasks at any time with no time constraints through financial experts



Personalized product information and fun to reduce customer wait time

#### Media Table

#### Promotion to communicate with each other at eye level



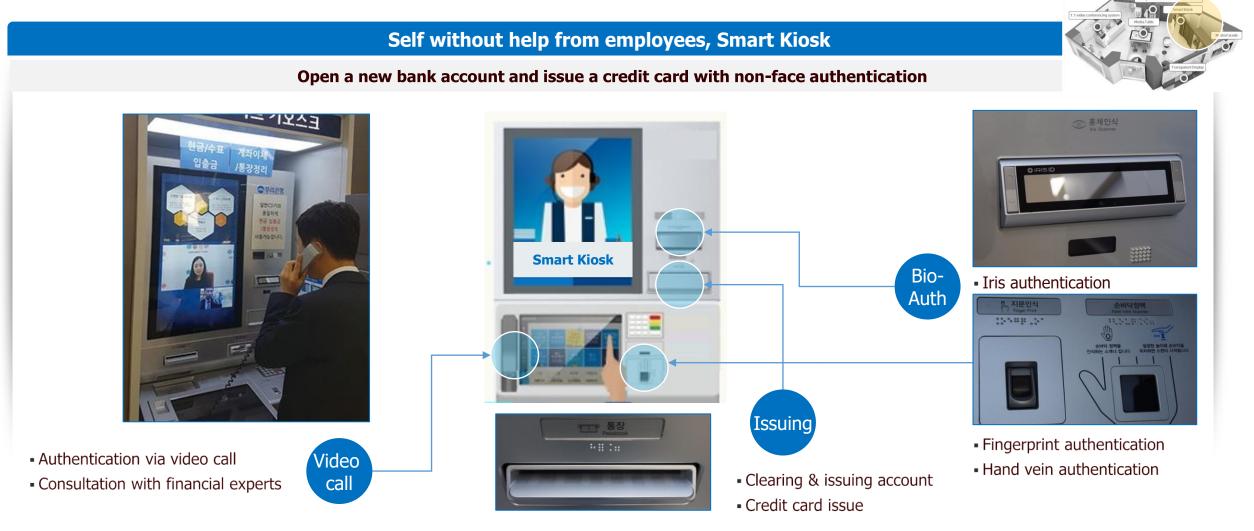
- Smart Financial Products Consultation at Customer level
- Provide customized product information and investment simulation
- Financing Fun Service through Financial Quiz and Game

**Example of Media Table Products** Gamification **Promotional product** Quiz, Game information by target **a First Account Open** 금융 격언 🕕 Target audience : 18 ~ 38 years Term of contract : 36 months 돈과 관련된 다양한 명언과 속담입니다. **Product Features : 20 to 30 generations** of first-rate workers Waiting Details

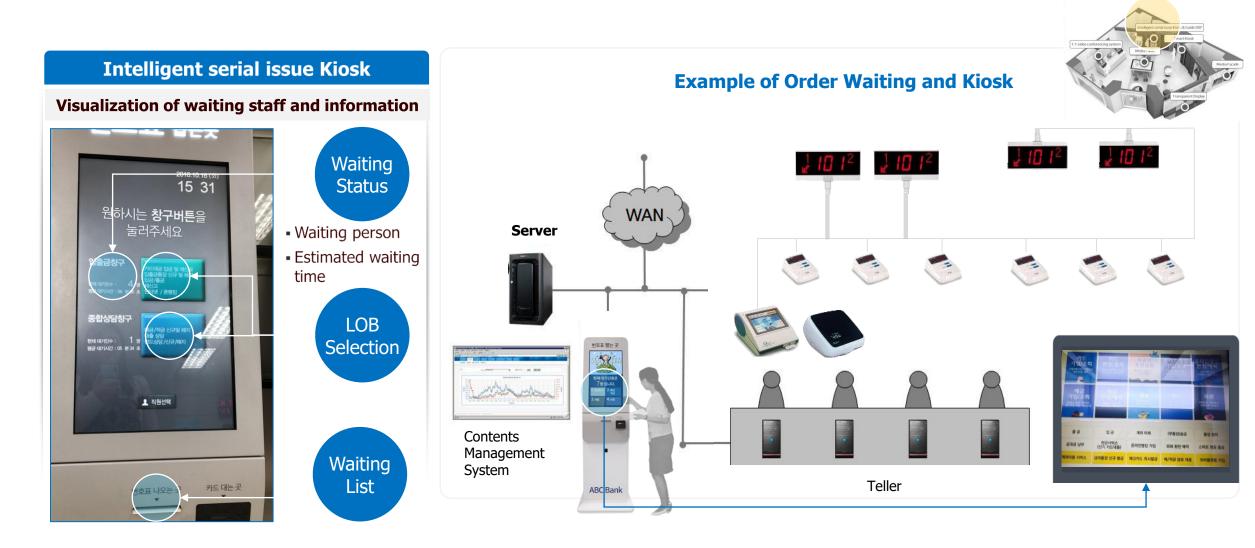
Help with customized product information by entering product subscription information in advance

Quiz, Game provides fun during latency

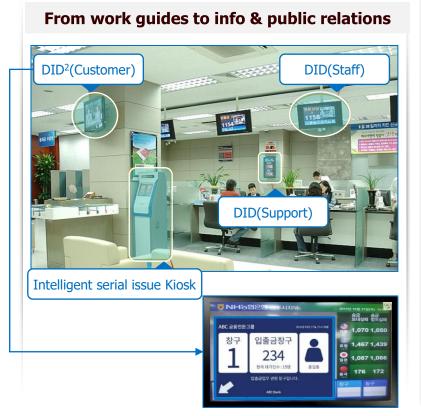
Non-face authentication without staff assistance enables bankbook and card issuance Self Service



Promptly check the waiting order and work information you wish to use



Deliver news and financial information on standby and leverage the promotion of financial products and local business



**Digital Information Display** 

• Desk, Waiting, Exchange Rate

#### **Example of Digital Information Display**



# Information

**Order Waiting** 

번 고객님.

92

Waiting order information

종합상담창구

103

창구가 혼잡하오니 다른 창구에서 대기 바랍니다.

Guide other staff

김동환 팀장

기업재무상당사

🕤 번 창구로 오십시오

송금 송금 보내실때 받으실때 1.070 1.050

1,467 1,439

92 1,087 1,066

번 고객님

대기 16명



#### News broadcast content

2244 88 00w		Summer of the		-	116
CALC & Same 1 4		Marrie -	21.2	418	194
	1136.07	1008.83		1.65%	0.00
CO STATE		1218.81		1.62%	0.00
0100 1/1		175.20	184816	1.68%	0.00
1 1	10120	State of the state	0.0013		
	100.00	-	PERM	2.22%	0.00
	1004.40	178.80	COMPLETE	1.75%	0.00

Exchange Rate, Interest Rate Financial Content Promotion

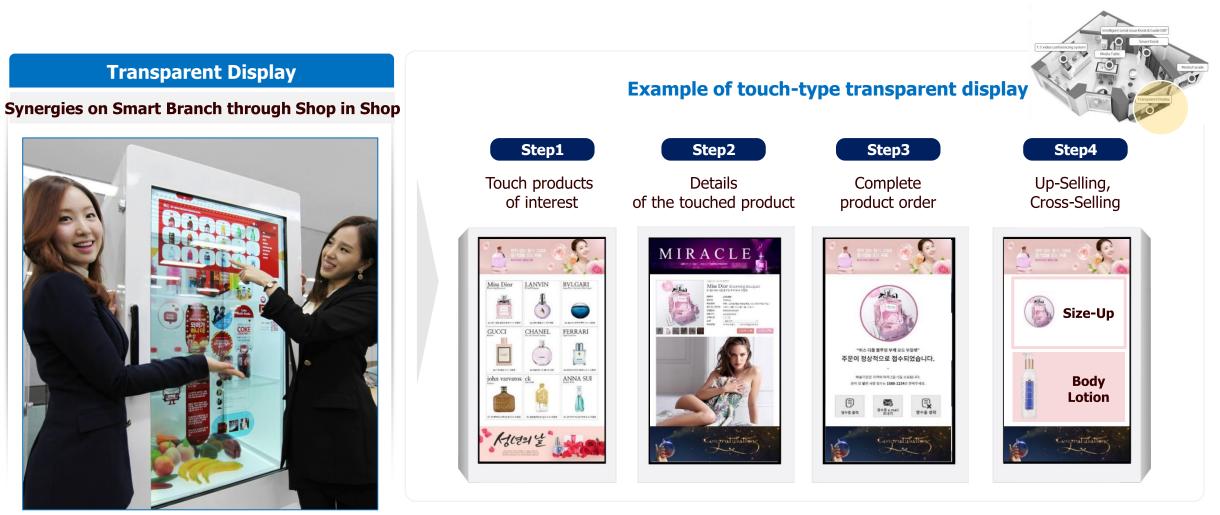


#### Promotion of financial products

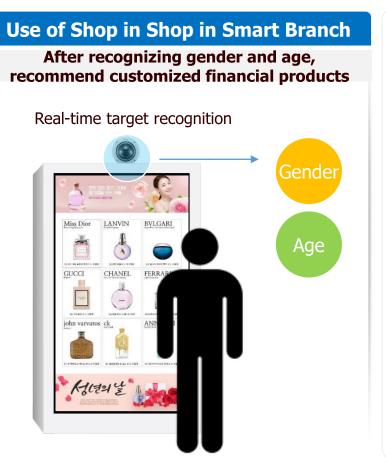


Promotion of local Business

Transparent displays provide real-world products, custom advertising, and real-time payments processing



Personalized financial product recommendation based on gender and age recognition



#### **Example of Recommend Customized Financial Products**





for women in their 30s

"Asset management"

유동자산	투자자산	보장자산	안전자산
CMA	국내 주식형펀드	연금보험	은행 적금
100만	<b>150만</b>	<b>120만</b>	100만
수시 입출금 자금 관리 및	4차 산업혁명 관련 종목 추천	은퇴 후 고정적인 현금 확보	포트폴리오 안정성 확보 차원,
투자 대기성 자금 관리용		위한 노후 대비용	우대금리 적용 활용해야

- for men in their 20s
- "mobile" "used car" "loan"



Visual effects promote bank advertising and events after off-peak business

Multi-vision and Promotion Digital Information Display, Media Facade

#### Increase bank brand image through product advertising, service announcements and promotional videos



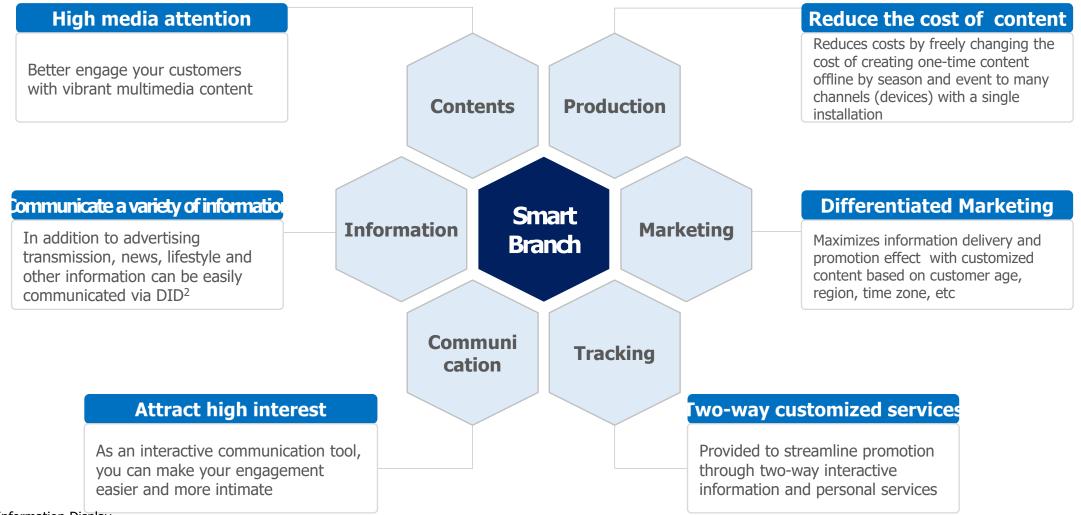
Exterior Display

Interior display

Bank Promotion Hall

# Expected Effects of Smart Branch

#### Maximize information & promotion with real-time, interactive, personalized services



# **Biometrics** Overview

Reflecting the latest trends in mobile channels and strengthening competitiveness through stable service





Accurate Identification and Accountability

Improved security

High ROI & Reduce Cost

# **Introduction of Biometrics**

External environment	Internal environment
<ul> <li>The arrival of electronic devices with built-in biometric support (notably smart mobile devices)</li> </ul>	<ul> <li>With online data-theft incidents growing in number and severity, it's the outmoded, inadequate security protocols of many traditional banking</li> </ul>
The adoption of biometric-friendly authentication standards such as FIDO	institutions are proving costly and need to be updated
The pressing need to combat rising banking fraud and identity theft	Desire from the banking industry to adopt convenient methods to verify
The growth of mobile banking and the emergence of wearable banking	the identity of their customers

# **BIOMETRICS IN BANKING**

Generalization of biotechnology certification, expansion of application fields as representative security measures

Digital Customer Onboarding	Call Center Efficiency	Prevent Identity Fraud	
<ul> <li>Allow your customers to enroll through digital channels by authenticating biometric information from official documents such as passports and driver licenses.</li> </ul>	<ul> <li>Reduce customer support call duration by allowing the customer to authenticate himself automatically through voice recognition.</li> </ul>	individual has enrolled before using	
Mobile Payments	Mobile Banking	<b>Biometrics in ATMs &amp; POS</b>	
		bioincenes in Arris et 00	

# **BIOMETRICS Use case - GLOBAL**

Focus on providing convenient customer service that meets customer needs

# Lloyds Banking Group plc

- Lloyds Banking Group plc has partnered with Microsoft(Windows10, Hello) to enable their customers to login to their banking services and authenticate transaction with fingerprint and facial recognition.
- User biometric data will be stored locally and encrypted to safeguard it from any misuse.
- With this implementation, customers can login into their Lloyds Bank, Halifax and Bank of Scotland internet banking sites.

## Wells Fargo

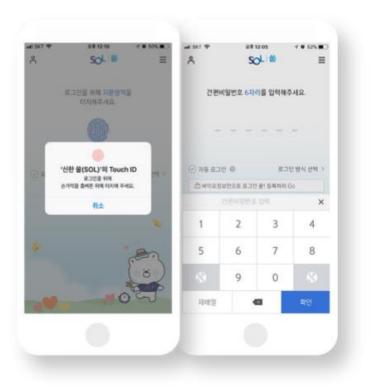
- Wells Fargo Company is working on a payment solution that will make use of voice of its customers to authenticate transactions and access services.
- This payment solution will not just be limited to authenticate payments, but will be able to complete solution with conversational ability with customers.
- Utilizes artificial intelligence to perform interactive banking tasks like Siri on iPhone or Alexa on Amazon

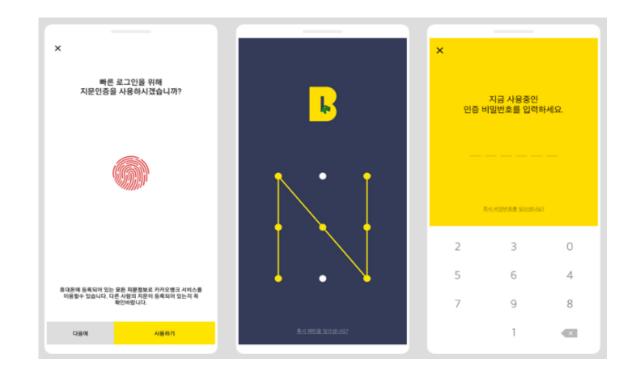
#### Australia and New Zealand Banking Group

- Australia and New Zealand Banking Group, popularly known as ANZ Bank has announced that it will be using voice biometrics for customer identification and authentication
- This help secure transactions over \$1000 and enhancing user experience at the same time.
- Voice biometrics is making banking more convenient for customers while also strengthening security

## **BIOMETRICS Use case - Korea**

#### Focus on improving ease of use





#### S Bank

Provides simple authentication services such as biometric authentication (fingerprint or iris selectable) and simple password authentication that do not require periodic renewal

#### **KOO Bank**

Provides three kinds of authentication methods as fingerprint, pattern, and password based on device authentication and bank own certificate

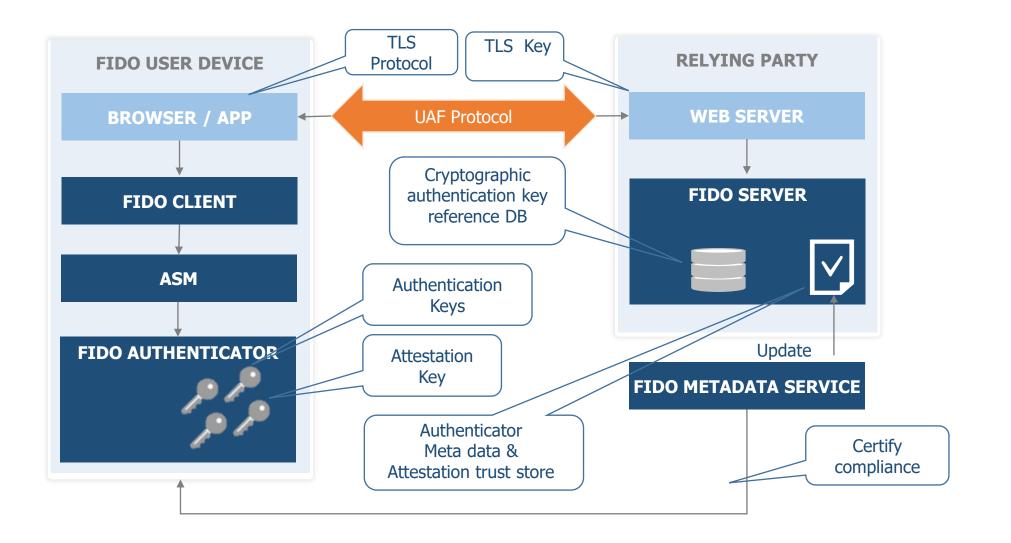
## Type of Biometrics

The most effective authentication method based on unique personal biometric information

ТҮРЕ	Description	Advantage
IRIS	<ul> <li>The use of the features found in the iris to identify an individual.</li> <li>The use of patterns of veins in the back of the eye to accomplish recognition.</li> </ul>	<ul> <li>High accuracy with high identification characteristics</li> </ul>
VOICE	• The use of the voice as a method of determining the identity of a speaker for access control.	• Easy to install and low cost
FINGERPRINT	• The use of the ridges and valleys (minutiae) found on the surface tips of a human finger to identify an individual.	Popular, Simple and cheap
FACE	• The analysis of facial features or patterns for the authentication or recognition of an individuals identity.	<ul> <li>Contactless method, Distance recognition</li> </ul>
VEIN	<ul> <li>Vein recognition can be used to identify individuals based on the vein patterns in the human finger or palm.</li> </ul>	<ul> <li>High security and low error rate</li> </ul>

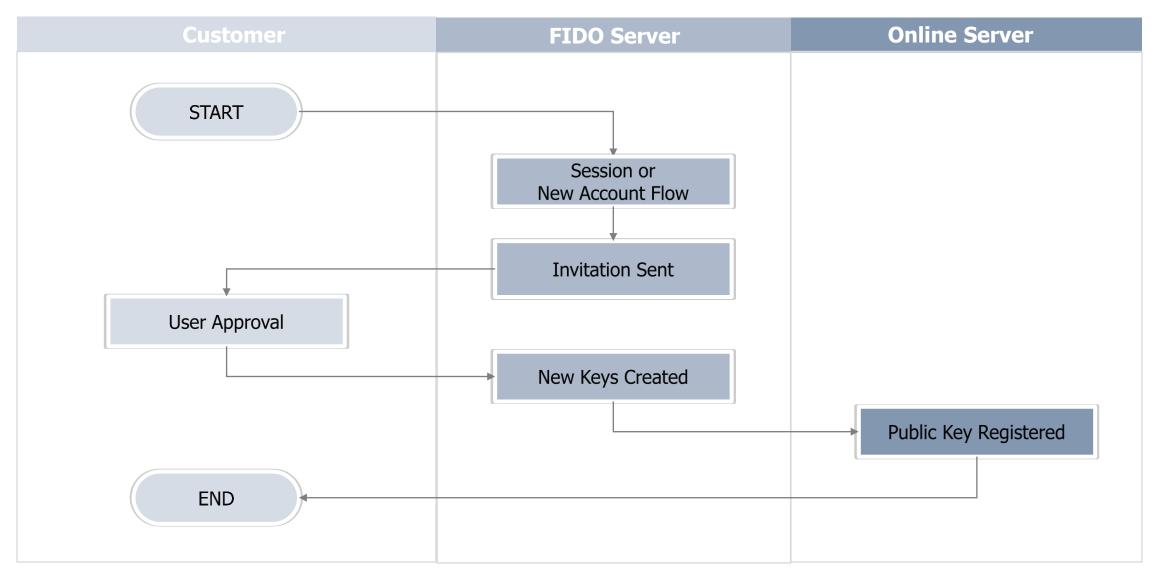
## About FIDO

Preventing the risk of exposure of biometric information by separating user local authentication and remote authentication protocol



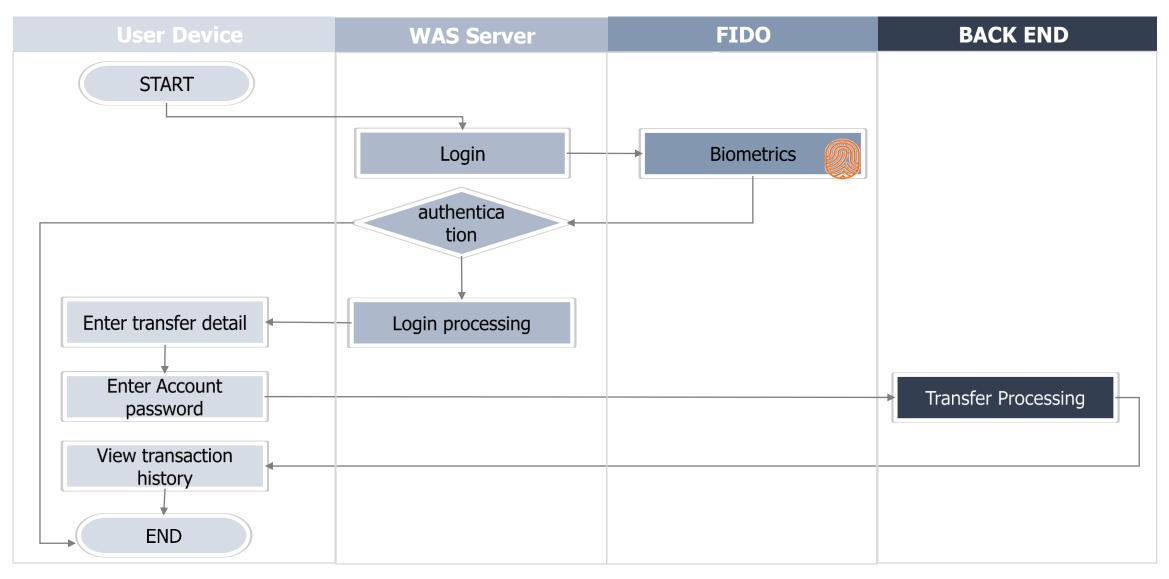
## FIDO Process

#### Process of FIDO user registration



## **Biometrics Process**

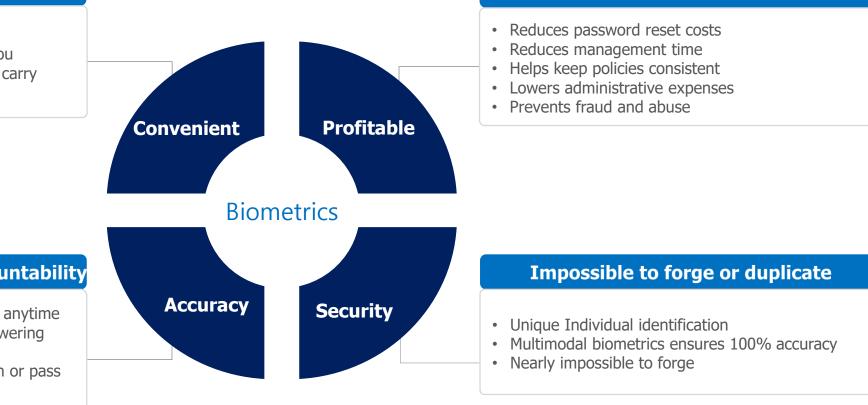
#### With one authentication, Easy and quick access to various banking services



## **Benefit of Biometrics**

#### Improved convenience and satisfaction

- Easy installation and setup
- Biometric credentials are always with you
- Don't have to remember passwords, or carry extra badges, documents, or ID cards



**High ROI and Reduce cost** 

#### Accurate Identification and Accountability

- · Always serve you accurately anywhere, anytime
- Provide more accurate identification, lowering your risk of unwanted breaches.
- It needs your direct interactions to login or pass the security system which allows 100% accountability for all your activities.

## **RPA** Overview

#### Discover new digital biz opportunities and create value



## **Introduction of RPA solution**

External environment	Internal environment		
<ul> <li>Embrace more automation and AI to provide a better experience for customers across digital channels and to empower employees with the tools and knowledge they need to improve their performance</li> <li>Spreading the use of digital labor in various areas due to the evolution of artificial intelligence technology</li> </ul>	<ul> <li>In order to remain competitive in an increasingly saturated market(especially with the more widespread adoption of virtual banking)banking firms have had to find a way to deliver the best possible customer experience to their customers</li> <li>Significant Manual processing, high-propensity to errors &amp; high cost of operation.</li> </ul>		

## RPA in Banking

RPA is the preferred solution for challenges faced by the Banking Industry.

1.Customer service	2. Compliance	3. Accounts Payable
<ul> <li>RPA helps in reducing the time taken to verify customer details from disparate systems and onboard them.</li> <li>The reduced waiting period and easy redressal have helped banks in improving their relations with the customer.</li> <li>RPA helps in resolving the low priority queries, freeing up the customer service team to focus on high priority queries requiring human intelligence.</li> </ul>	<ul> <li>With so many compliance rules, it becomes an arduous task for the banks to comply with each of them. RPA makes it easier for banks to adhere to the rule.</li> <li>RPA helps in increasing productivity by functioning 24/7 with fewer FTEs, improving the quality of the compliance process, and increases employee satisfaction by eliminating monotonous tasks and engaging the employees in tasks requiring human intelligence.</li> </ul>	<ul> <li>Accounts Payable (AP) is a monotonous process that requires digitizing invoices from the vendors using Optical Character Recognition (OCR), extracting information from all the fields in the invoice, validating it, and then processing it.</li> <li>RPA helps in automating this process and automatically credits the payment to the vendor's account after reconciliation of errors and validations.</li> </ul>

## **RPA** in Banking

RPA is the preferred solution for challenges faced by the Banking Industry.

# 4. Credit card & Mortgage processing

- Earlier, it took weeks for a bank to validate and approve the credit card application of a customer. The long waiting period resulted in customer dissatisfaction, sometimes even leading to a customer cancelling the request
- It takes just a few hours for RPA software to gather documents of the customer, make credit checks and background checks, and take a decision based on set parameters on whether the customer is eligible for a credit card or not.
- With RPA, banks can now accelerate the process based on set rules and algorithms and by clearing the bottlenecks that delay the process.

#### **5. Fraud Detection**

- One of the major concerns of a bank was the rising number of fraud cases. With the advent of technology, the instances of fraud incidents have only multiplied. Thus, it becomes difficult for banks to check every transaction and identify fraud patterns manually.
- RPA uses an 'if-then' method to identify potential frauds and flag them to the concerned department. For example, if there are multiple transactions made within a short time, then the RPA identifies the account and flags it for a potential threat. This helps the bank to scrutinize the account and investigate for fraud.

#### **6.** Report Automation

- As a part of compliance, banks have to prepare a report about their various processes and present it to the board and other stakeholders to show the performance of the bank.
- Considering how important the reports are to the reputation of the bank, it is important to ensure that there are no errors.
- RPA helps banks in preparing reports with accurate data. It gathers information from different sources, validates it, arranges it in an understandable format, and schedules it to be sent to different sources.

## **RPA** in Banking

The Need for Digital Transformation with Rapid Digitization

#### **GLOBAL** Finance

- Automatically extract and ٠ review corporate loan agreements
- Fraud Detection ٠
- Automatically collect and ٠ classify customer's investment and asset data and send employees
- Management of Mortgage • document
- Transactions between • banks
- International remittance ٠
- Document management • such as invoices and guarantees related to international transactions

## **KOREA Bank**

- Check information before running corporate loans
- Valuation of real estate mortgage
- Check Mail tracking ٠
- View status of business registration
- Check vehicle registration •
- Search bankruptcy case •
- Confirm contract
- Court mail scan •
- Transfer of bonds :

#### **KOREA Insurance** Extract customer Corporate claim information data Identify customers who can collect bonds

- Support for creating integrated terms and conditions
- Daily report on accident claim
- Garnishment
- Check instruction sample
- Check the insurance fraud trial schedule
- Change and review product property values in PF
- Prepare for tax return

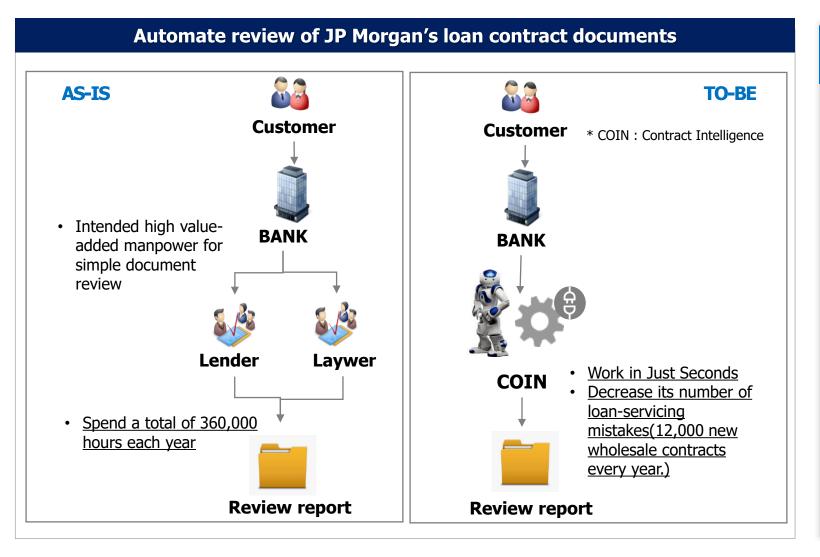
Confirmation of validity of resident registration

**KOREA** Card

- Check real estate documents
- **Review Billing Information**
- Automation of Card International Settlement **Business**
- Automate VDI environments
- Notification of settlement results by partner :

## RPA Use Case - Global

#### Automate review of loan contract documents

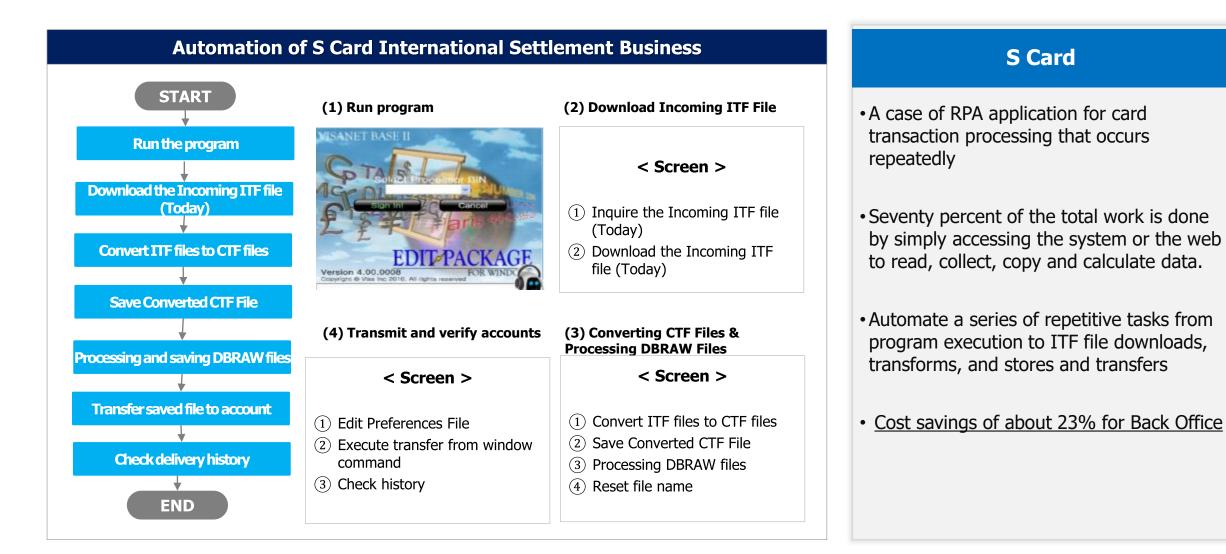


#### JP Morgan

- Automated introduction of RPA for reviewing simple and ordinary corporate loan contracts
- employees are lawyers and loan officers who spend a total of 360,000 hours each year tackling a slew of rather mundane tasks, such as interpreting commercial-loan agreements.
- An AI Completed 360,000 Hours of Finance Work in Just Seconds
- COIN has also managed to help JP Morgan decrease its number of loan-servicing mistakes. These mistakes stemmed from human error in interpreting 12,000 new wholesale contracts every year.

## RPA Use Case - Korea

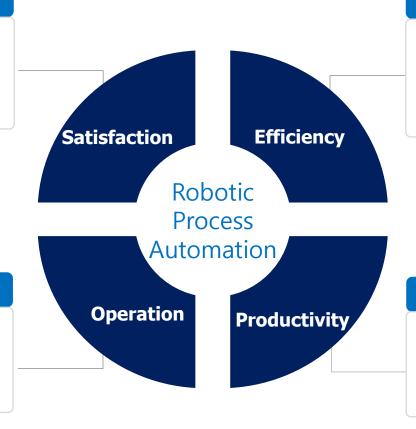
Automation of Visa / MasterCard International Settlement Business



## Benefit of RPA

#### Improve customer experience

- Reduction of process cycle time
- Significant reduction in error rate
- Yields more consistency in process outcomes
- Staff focus on customer service



#### **High ROI and Reduce cost**

- Saves employees from mundane, repetitive tasks
- Frees time to focus on value-added activities
- Your virtual employee who never falls sick

## Minimize operational risk

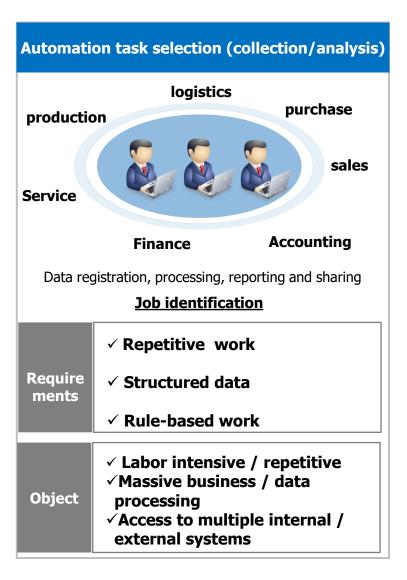
- Automated solution captures process information for reporting, analysis and process improvement
- Meeting compliance need
- Remote control your process

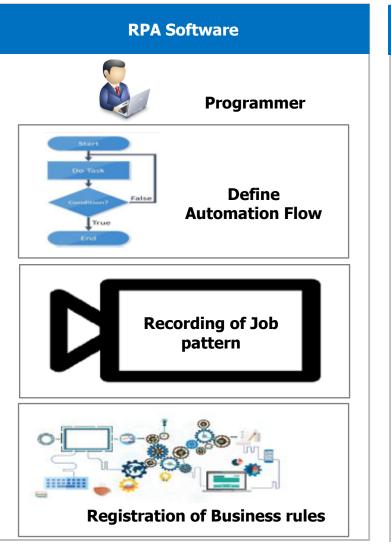


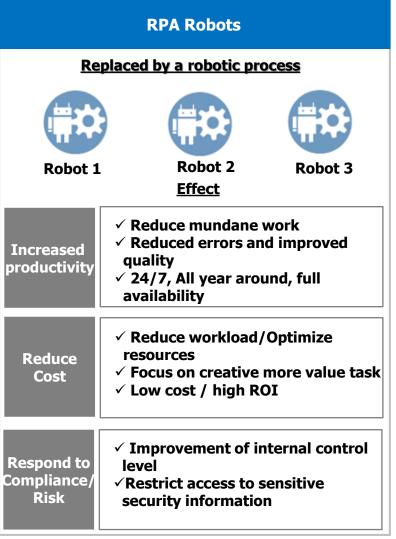
- Replaces high cost human labor by low cost robots
- Leads to faster processing
- · Greater scalability

#### **RPA Solution Process**

#### Secure digital workforce to perform tasks quickly and accurately

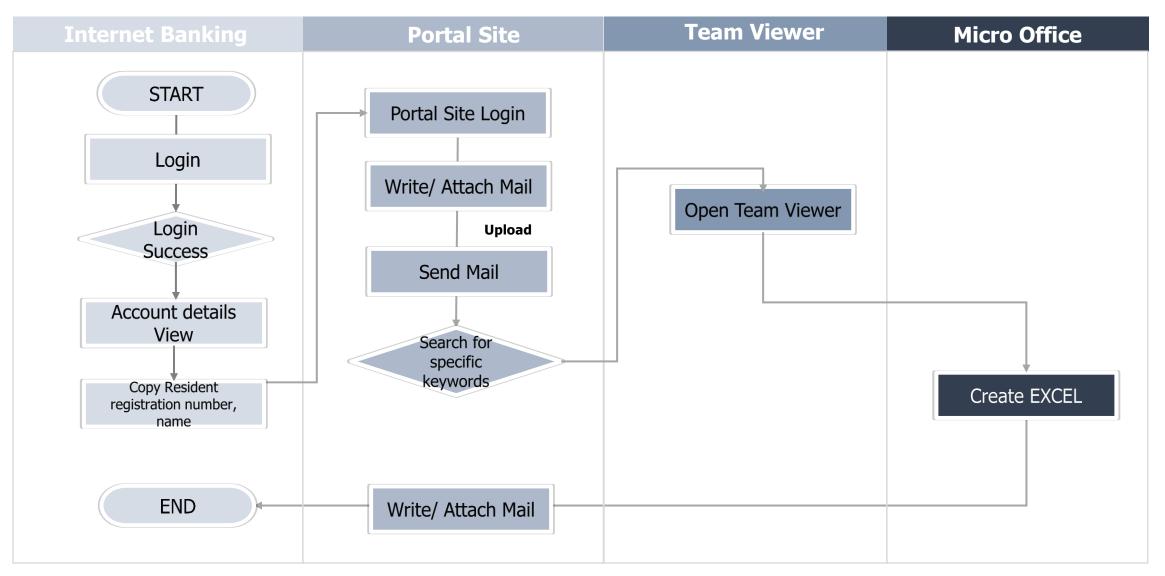


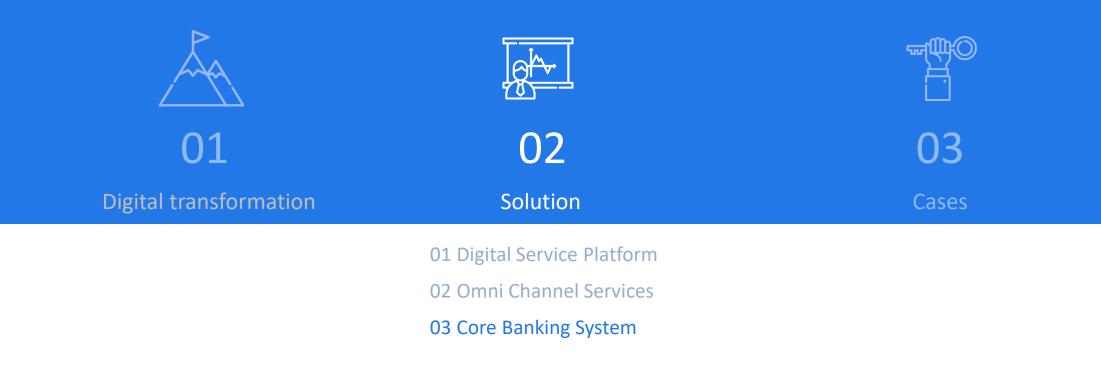




## **RPA Solution DEMO**

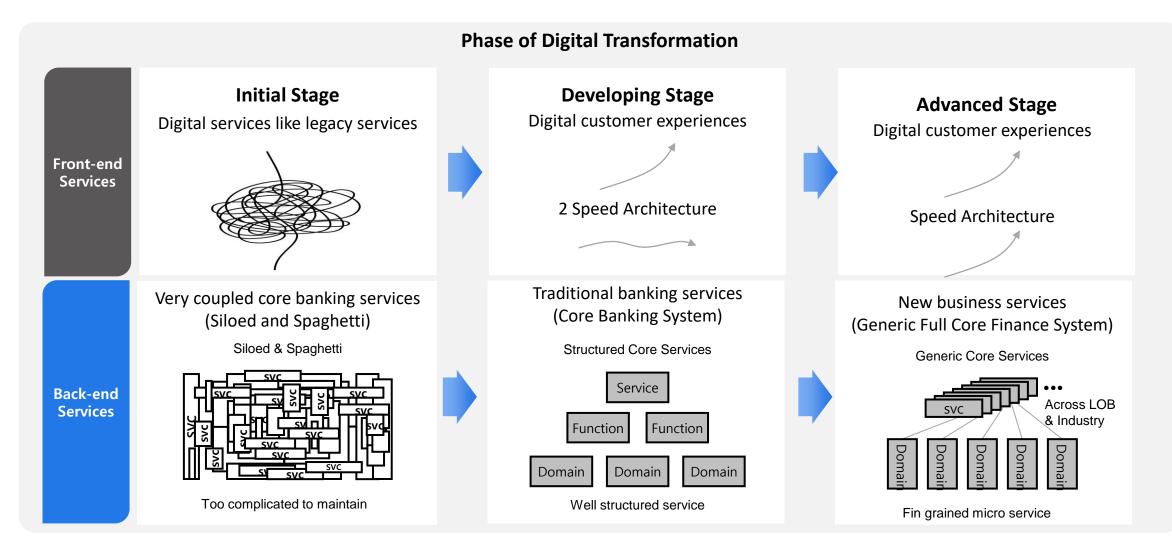
#### Extract content through automatic login and search for specific keyword news scraps





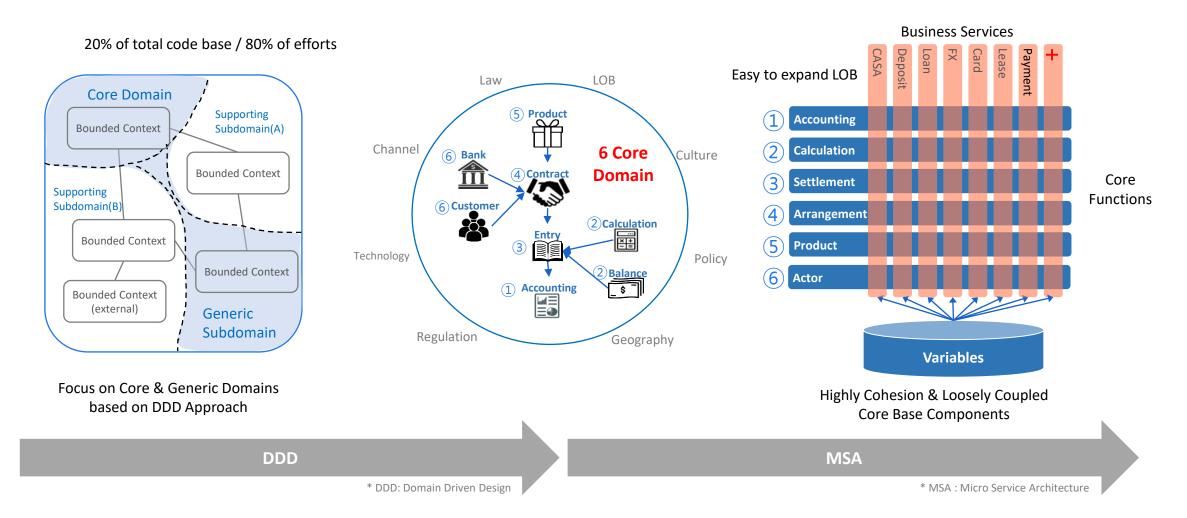
#### Core Banking Package > Overview

Having agile back-end core banking system is very important to enhance front-side digital service capability



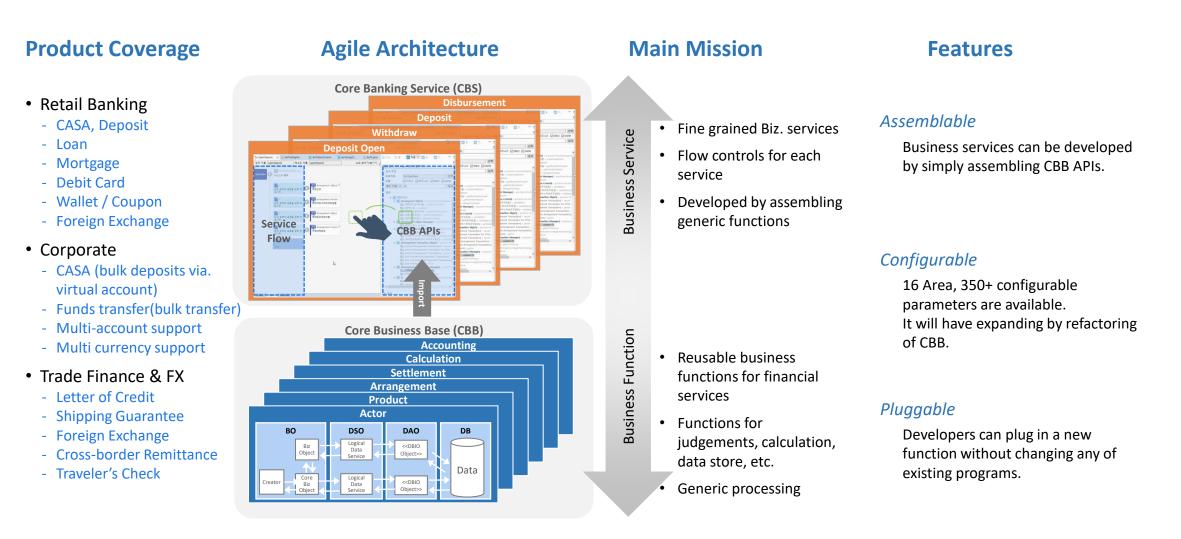
#### Core Banking Package > Design Concepts

We have identified core domains for generic base services of financial services, and applied loosely coupled architecture to our solutions for the business agility.



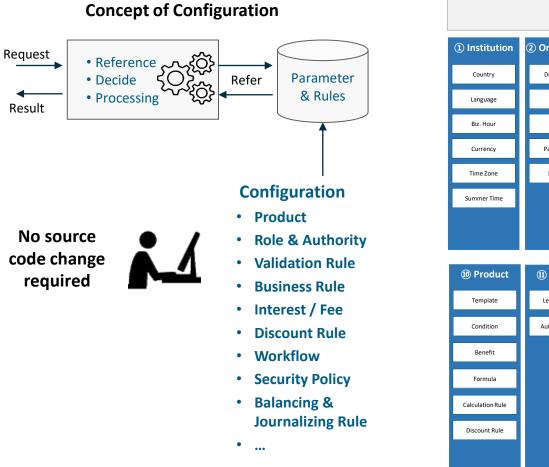
#### Core Banking Package > Overview

BX CBP is the core banking solution that can support financial business needs quickly and efficiently. It is easier to expand the business thanks to the CBP's generic functions that can be shared with BX CBP.



#### Core Banking Package > Configurable Feature

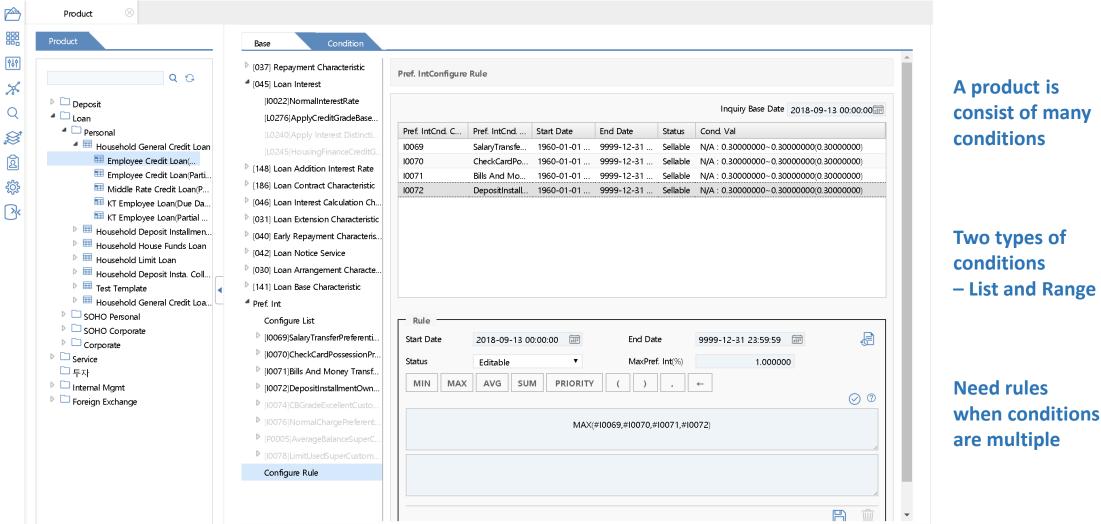
It is a bottom line to parameterize variables for making system generic and agile. We have focused on extending the range of configurable area with domain experts and technical experts together.



Configuration Center							
1 Institution	② Organization	③ Role/Auth.	④ Workflow	⑤ Approval	© UI	⑦ Service	⑧ Biz. Rule
Country	Department	Role	Workflow	Condition	Menu	Profile	Numbering
Language	Staff	Delegation	Control Rule	Approval Template	Use Y/N	Use Y/N	Cond. Handling
Biz. Hour	Partner	UI Authority	Step Profile		Dynamic Input	Service Control	Relation Handlin
Currency	Partner Staff	Service Authority	Variation		Color	Service Restriction	Related AR
Time Zone	Relations	Data Access Authority	ToDo		Text Style	서비스 제한	AR Restriction
Summer Time		Role Template			Button Style		Account No
					Layout		Settlement Rul
							Amount
1 Product	(1) Security	(1) Accounting	③ Attribute	(4) Common	⑮ Attribute	16 System	
Product     Template	(1) Security Level Control	Accounting     Chart of Acct.	(1) Attribute	(B) Common Holiday	(15) Attribute Standard	(16) System System Parameter	Taxation Rule
						· · · · · · · · · · · · · · · · · · ·	Taxation Rule Balancing Rule
Template	Level Control	Chart of Acct.	Dictionary	Holiday	Standard	System Parameter	Taxation Rule Balancing Rule Origination Ru
Template Condition	Level Control	Chart of Acct. Journalizing Rule	Dictionary Multi-Language	Holiday Currency Info.	Standard Extendable	System Parameter Log Rage/Depth	Taxation Rule Balancing Rule Origination Ru Evaluation Rul
Template Condition Benefit	Level Control	Chart of Acct. Journalizing Rule Teller Cash Limit	Dictionary Multi-Language Complex Word	Holiday Currency Info. Exchange Rate	Standard Extendable	System Parameter Log Rage/Depth C/C Control	Taxation Rule Balancing Rule Origination Rul Evaluation Rul
Template Condition Benefit Formula	Level Control	Chart of Acct. Journalizing Rule Teller Cash Limit	Dictionary Multi-Language Complex Word Domain Info.	Holiday Currency Info. Exchange Rate Colander	Standard Extendable	System Parameter Log Rage/Depth C/C Control Job Schedule Rule	Amount Taxation Rule Balancing Rule Origination Rul Evaluation Rul () Service I

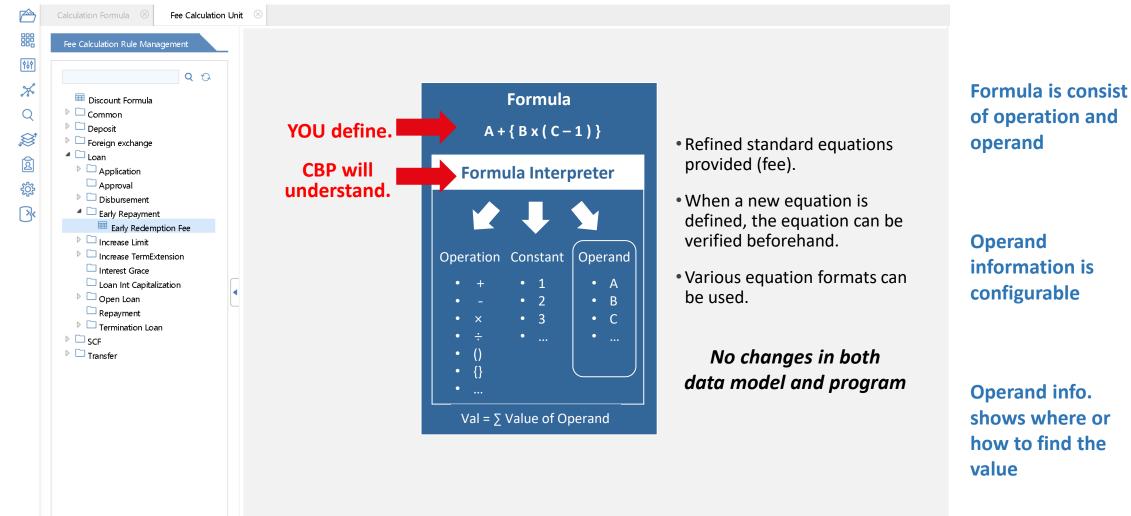
#### Core Banking Package > Configurable Feature

All finance product can be configured with single model and functions. No program source need to be change for the new product requirement.



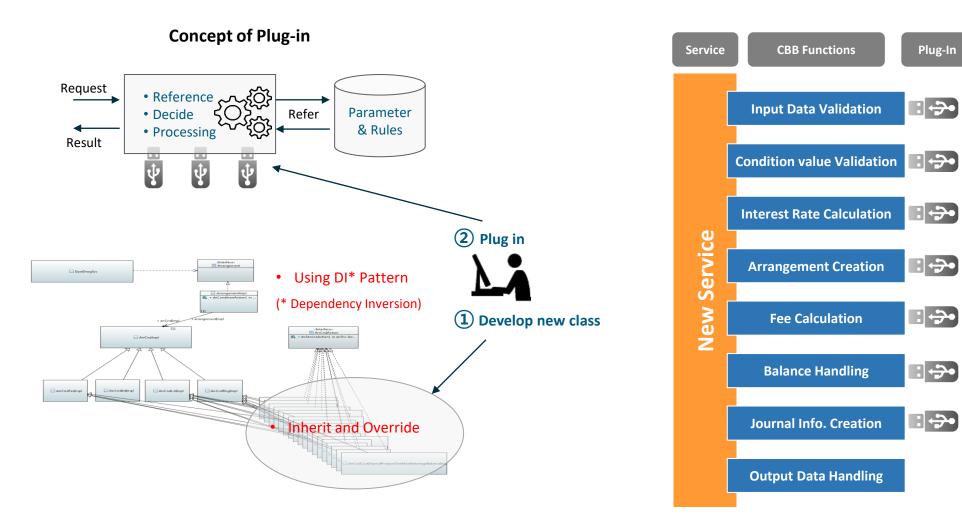
## Core Banking Package > Configurable Feature

Even calculation formula can be configure without any change of model and functions.



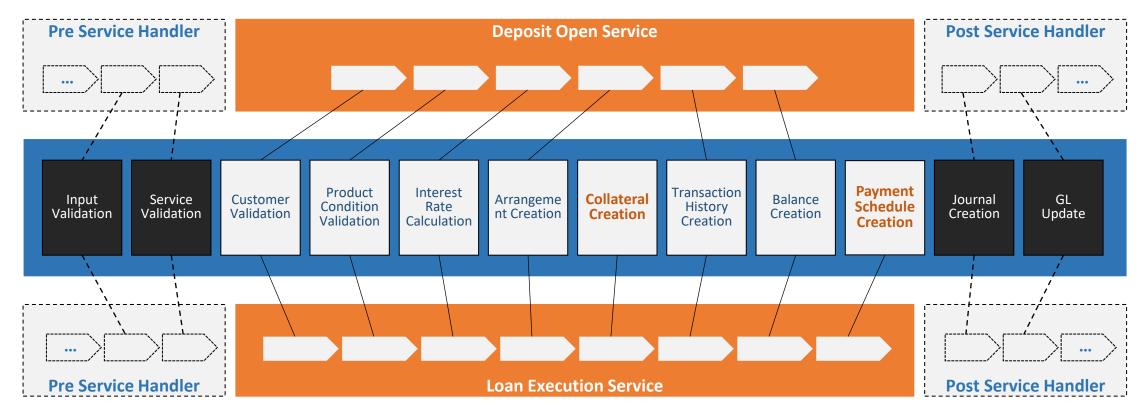
#### Core Banking Package > Pluggable Feature

There is no way to avoid developing new functions because of unexpected requirements or regulations. We applied pluggable feature with upto-date design and development technologies not to change a single line of existing source codes.

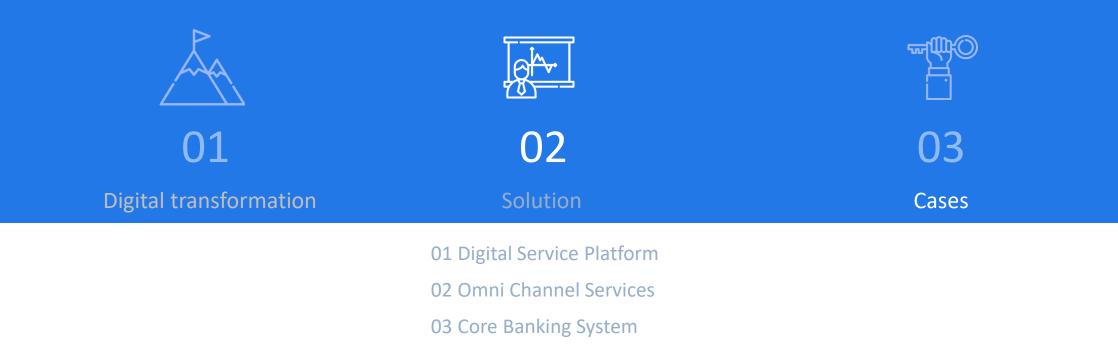


#### Core Banking Package > Assemblable Feature

Since every business function is provided by CBB as java API, service development does not need to consider any of business logic but the flow of business functions. It makes developer concentrate only on the flow of required functions so that a service can be developed easy and fast. We call this feature as "Assemblable" feature of BX CBP.

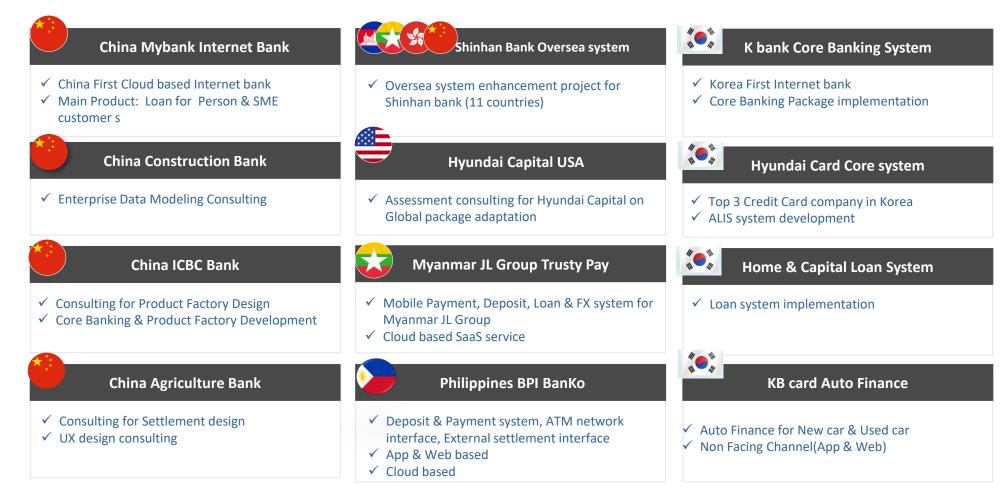


#### Service Assembly Concept



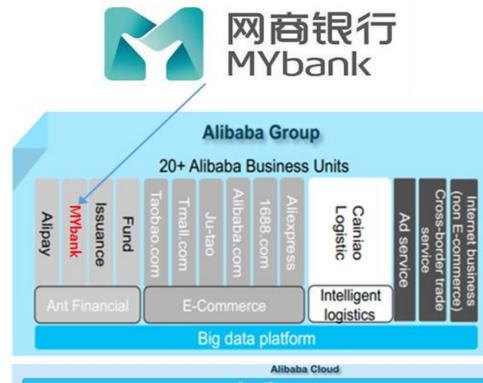
## Câu chuyện thành công> Các trường hợp tham khảo

BWG đã triển khai thành công Giải pháp tài chính kỹ thuật số tại Hàn Quốc và các nước châu Á trong vài năm gần đây. Chúng tôi đã cung cấp dị ch vụ triển khai cũng như dịch vụ tư vấn



## Câu chuyện thành công> MyBank – Ngân hàng điện tử duy nhất(Trung Quốc)

MyBank là công ty con của Ant Financial & 1 Cloud Internet Banking tại Trung Quốc. Họ đã triển khai giải pháp BWG trên Alibaba Cloud v ới kiến trúc hệ thống phân tán





- Khách hàng mục tiêu là khách hàng cá nhân và
- **doanh nghiệp vừa và nhỏ** Vay tín dụng cho khách hàng cá nhân Khoản vay thương mại T-mall, Cho vay nông dân, Cho vay trang web cho các doanh nghiệp khởi nghiệp trên Website

## Tổng quan hệ thống

IT infra: Alibaba Cloud Kiến trúc: Kiến trúc phân tán Kênh khách hàng: 100% di động Thời gian thực hiện dự án: 2014. 10 ~ 2015. 6 Số lượng khách hàng: 5 triệu (SME 1.5M) Sản phẩm: Tiền gửi, Cho vay, Quản lý tài sản

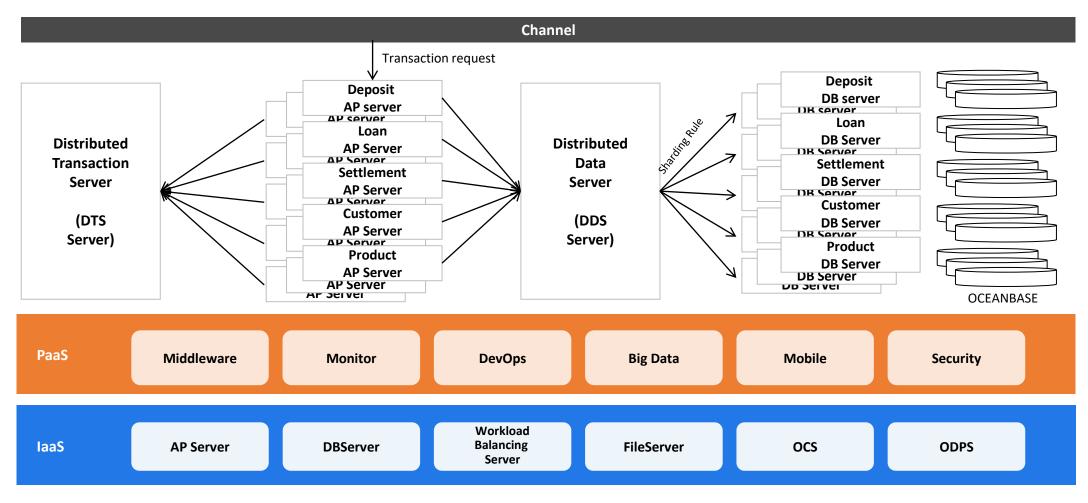
## 🔶 Vai trò của BWG

SW: Nhà máy sản phẩm, Cơ sở ngân hàng lõi Tư vấn SVC: Thiết kế sản phẩm, Thiết kế thành phần cốt lõi Triển khai SVC

- Nguyên mẫu cho tiền gửi và cho vay - thực hiện PF

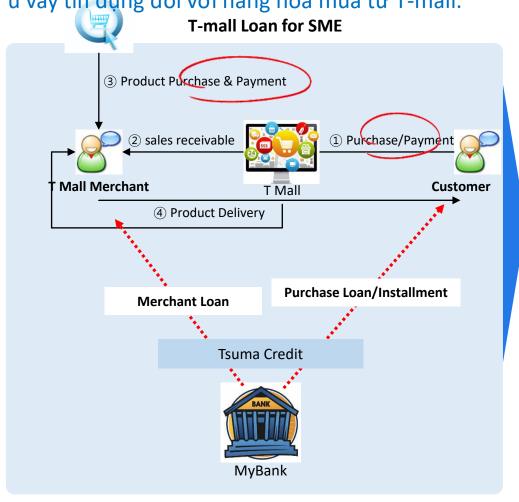
## Câu chuyện thành công> MyBank – Ngân hàng điện tử duy nhất (China)

MyBank đã thông qua Kiến trúc hệ thống phân tán trên Alibaba Cloud. MyBank đạt được RAS (Độ tin cậy, Tính khả dụng, khả năng mở rộng) củ a hệ thống



Câu chuyện thành công > MyBank – Ngân hàng điện tử duy nhất (China)

MyBank cung cấp các dịch vụ cho vay đối với thương nhân T-mall cũng như cho các khách hàng của T-mall. N gười bán có yêu cầu vay ngắn hạn để thanh toán cho Nhà cung cấp khi mua sản phẩm & Khách hàng có yêu cầ u vay tín dụng đối với hàng hóa mua từ T-mall. <u>Financing Requirement</u>



# Financing Requirement T-Mall merchant has to pay for Product purchase Time Gap exists between Customer purchase & actual payment

- Merchant could have short-term financing requirement
- Customer needs purchase loan or installment payment

#### **MyBank Solution**

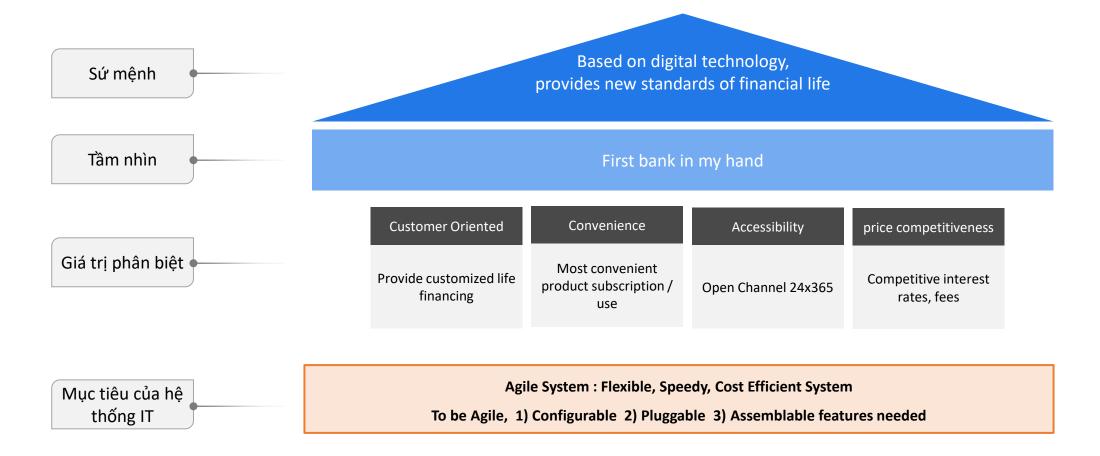
- Short-term Loan for Merchant (with high Interest Rate)
- Iteration of short-term Loan & Repayment
- Credit Loan & Installment payment solution for Customer

#### Risk Management

- Utilization of Credit Scoring Information of Tsuma Credit
- Tsuma Credit analyses Customer Credit Information using big data of Alibaba T-mall transactions

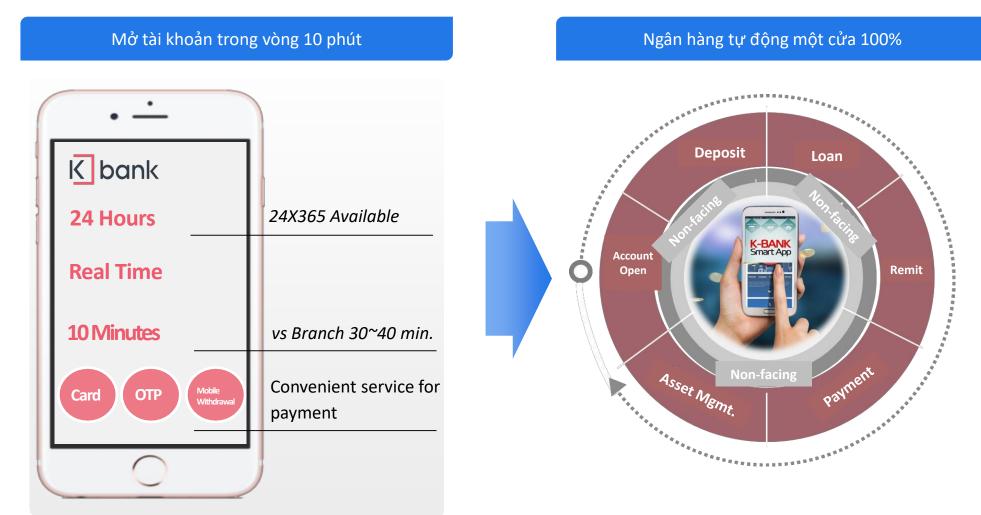
## K Bank – 1<sup>st</sup> Internet Only Bank (Korea)

K Bank đạt được để xây dựng một "linh hoạt", "nhanh" và "hiệu quả chi phí" hệ thống sẽ hoạt động như là động cơ cốt lõi của "ngân hàng tạo ra các tiêu chuẩn mới trong cuộc sống tài chính". K Bank đã thông qua BX loạt giải pháp của BWG cho họ Hệ thống cốt lõi



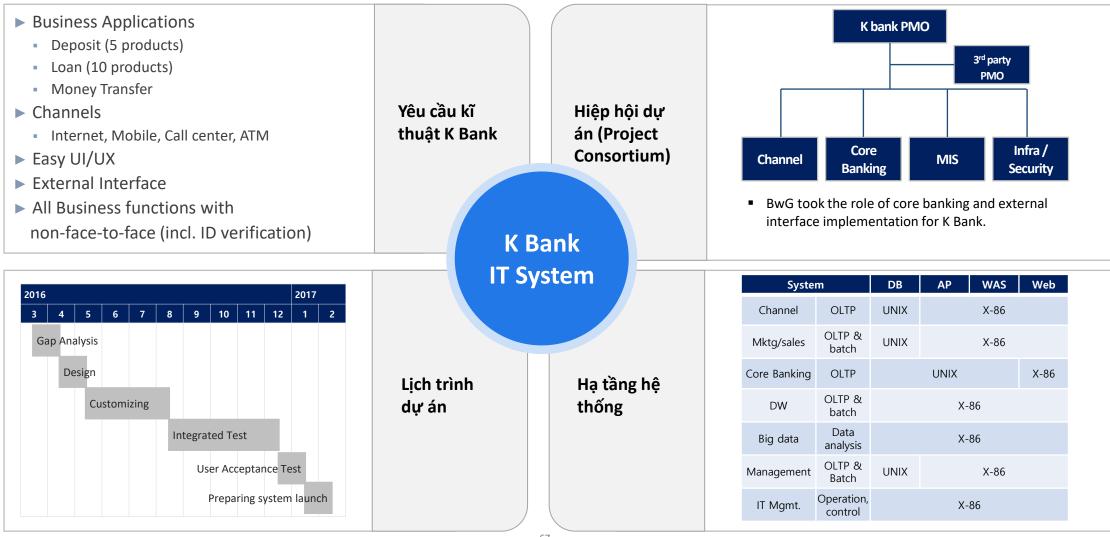
## K Bank – 1<sup>st</sup> Internet Only Bank (Korea) Chiến lược đổi mới của ngân hàng K

"Tất cả các dịch vụ ngân hàng trở nên không phải đối mặt": Mở rộng diện tích không phải đối mặt trong tất cả các dịch vụ ngân hàng bao gồm đăng ký trong vòng 10 phút



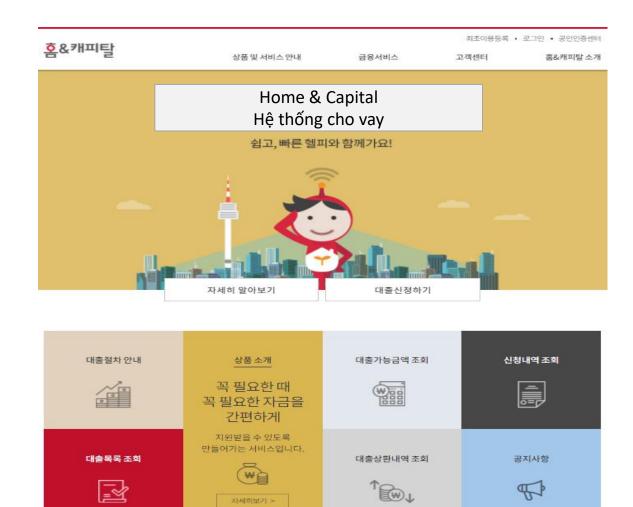
## K Bank – 1<sup>st</sup> Internet Only Bank (Korea)

#### K Bank đã thông qua giải pháp BX series của BWG cho hệ thống lõi của họ



## Home & Capital – Direct Supply Chain Finance (Korea)

Home & Capital đã thông qua giải pháp cho vay BWG để cung cấp sản phẩm cho vay cho các khách hàng SME giao dịch với Home & Shopping



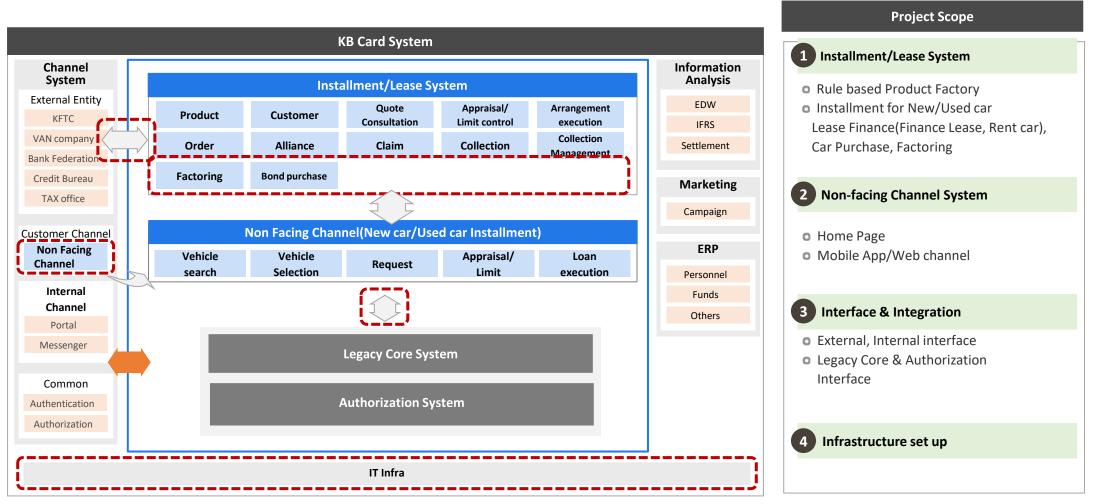
#### Phạm vi dự án & Thời gian

- Thiết lập hạ tầng IT
- Sản phẩm cho vay cho công ty SME liên quan đến nhà đất và mua sắm
- Phát triển trang chủ và ứng dụng trên di động
- Thiết lập hạ tầng bảo mật
- Thời gian dự án: 2017. 3.20 2017. 6. 22



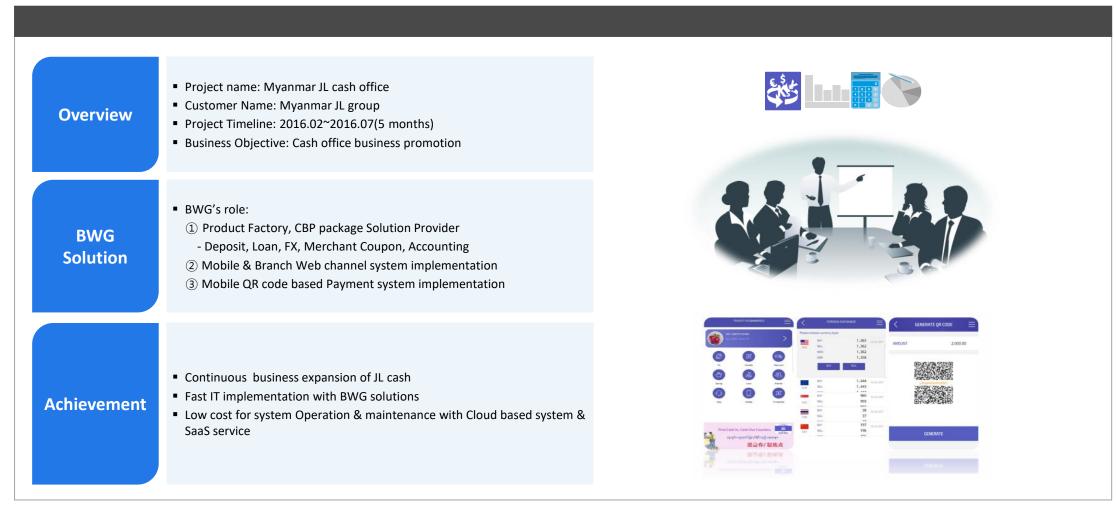
## KB Card – Direct Auto Finance (Korea)

Thẻ KB là công ty thẻ tín dụng lớn thứ 4 ở Hàn Quốc và muốn triển khai hệ thống trả góp / cho thuê. Các ứng dụng mục tiêu là Cho thuê, Cho v ay trả góp, Cho vay tín dụng và Cho vay có bảo đảm. BWG đã cung cấp gói dịch vụ & triển khai CCP



## JL Finance – Direct Banking (Myanmar)

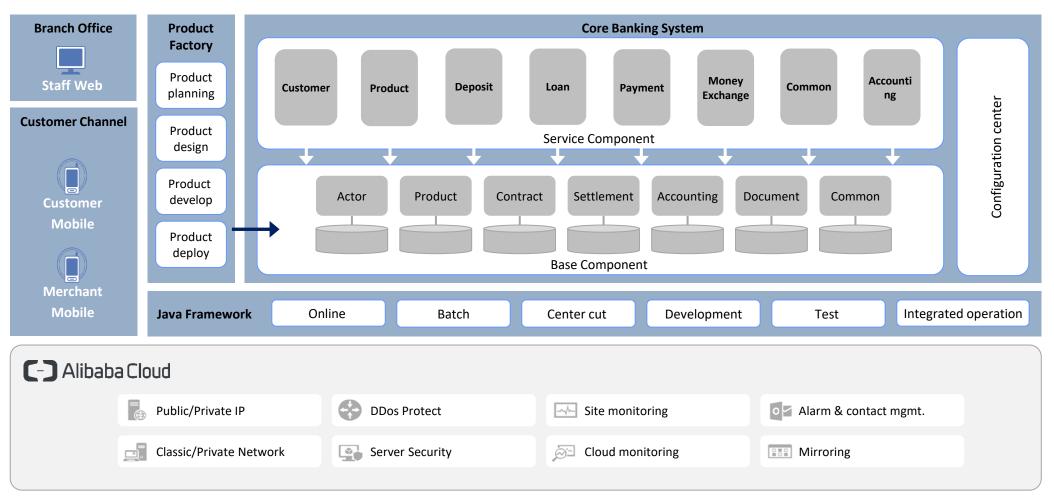
JL Group là một công ty cổ phần tại Myanmar, có một số công ty kinh doanh tại Yangon và Mandalay. Họ đã triển khai hệ thống thanh toán và ngân hàng lõi mới cho việc xúc tiến kinh doanh tài chính



## JL Finance – Direct Banking (Myanmar)

BWG đã cung cấp giải pháp trọn gói cho các kênh Web / Ứng dụng khách hàng Core Banking & Customer.

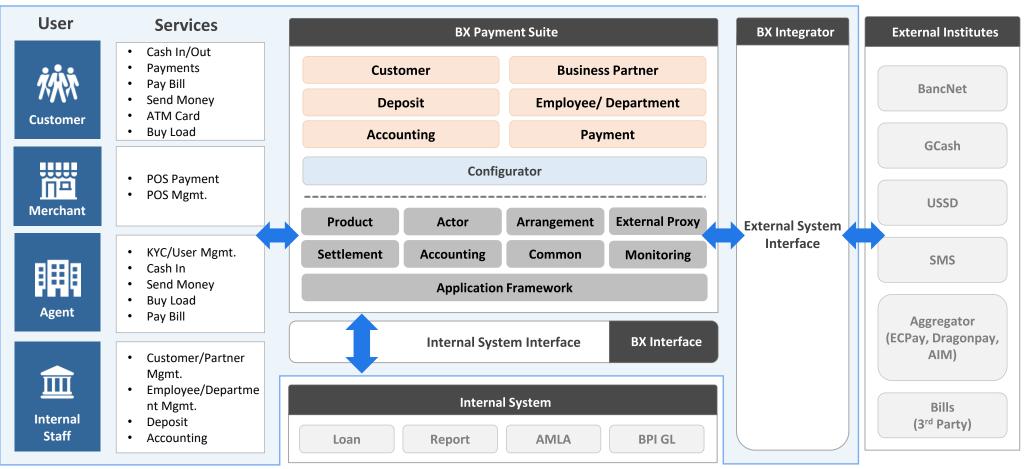
Alibaba Cloud cung cấp môi trường thân thiện và Dịch vụ IaaS bao gồm các tính năng bảo mật



## Bank of Philippine Island – Direct Banking (Philippine)

BPI đã triển khai "Hệ thống lõi di động" cung cấp các dịch vụ kinh doanh di động mới cho khách hàng của Banko. Hệ thống mới đã được kết nối với hệ thống nội bộ và các thực thể bên ngoài thông qua trình tích hợp giao diện. Các ứng dụng chính là Nạp tiền, Thanh toán, Chuyển khoản, Nạp tiền.

BWG đã cung cấp giải pháp Core Banking & Channel (Mobile App & Web) cho BPI.



## Bank of Philippine Island – Direct Banking (Philippine)

BPI BanKo muốn mở rộng cơ sở khách hàng bằng cách áp dụng dịch vụ ứng dụng điện thoại thông minh bao gồm các doanh nhân vi mô đang nổi lên và không được bảo vệ. Hệ thống cung cấp các giá trị có ý nghĩa cho Ngân hàng cũng như cho Khách hàng & Người bán

	Khách hàng	Nhà cung cấp	Ngân hàng
Giá trị cốt lõi	<ul> <li>Dịch vụ tài chính trên di động ở mọi lúc, mọi nơi</li> <li>Thanh toán điện tử thuận tiện</li> </ul>	<ul> <li>Tăng trưởng doanh số bằng các công cụ thu hút</li> <li>Dịch vụ thanh toán không cần tiền mặt</li> <li>Lưu thông tiền nhanh</li> </ul>	<ul> <li>Hệ sinh thái hỗ trợ cuộc sống tai8f chính số của khách hàng</li> <li>Tăng khối lượng khách hàng và giao dịch</li> </ul>
	Xác thực không đối mặt	Thanh toán ngoại tiến dễ dàng	Tích hợp thông tin khách hàng
Chức năng chính	Phương thức thanh toán đa dạng	Thanh toán trực tuyến dễ dàng	Cấu trúc IT linh hoạt và có thể mở rộng
	Lợi ích tích hợp (coupon, điểm)	Dịch vụ phiếu giảm giá tự xác nhận	Dịch vụ sản phẩm đa dạng

**More Clients List** 

